Information Resources on Tigers, *Panthera tigris*: Natural History, Ecology, Conservation, Biology, and Captive Care

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An Introduction to the Tiger Family *Panthera tigris*

TAXONOMY
Tigers belong to the Class Carnivora; the Family Felidae; The Subfamily Pantherae, the Genus Panthera, and the species tigris. In this document these animals will be referred to as Panthera tigris.

Tigers (and all other carnivores) descended from civet-like animals called miacids. Miacids lived when the dinosaurs roamed the earth--about 60 million years ago. Miacids were small mammals, with long bodies and short flexible limbs. Over several millions of years they evolved into several hundred different species, including cats, bears, dogs and weasels. Approximately 37 cat species exist today, including the tiger. Note: Sabre-tooth tigers are not the ancestors of today's tigers. Saber-toothed cats were members of a separate branch of feline type animals that became extinct many millions of years ago.

There are a number of subspecies of tigers that have been identified and they are as follows:

Currently living populations:

- Bengal tiger: Panthera tigris tigris
- Indochinese tiger: Panthera tigris corbetti
- Siberian (Amur) tiger: Panthera tigris altaica
- South China tiger: Panthera tigris amoyensis
- Sumatran tiger: Panthera tigris sumatrae

Recently extinct subspecies:

- Caspian tiger: Panthera virgila
- Javan tiger: Panthera sondaica
- Balinese tiger: Panthera balica

**SOME CHARACTERISTICS OF THE VARIOUS LIVING SUBSPECIES**

**Some general characteristics of tigers**

Tigers have historically lived in a wide variety of climates and habitats from Turkey east to China and from Siberia south to the Indonesian islands. They are the largest of the cats living on earth today.

After about 103 days of gestation, female tigers of all the subspecies produce a litter of between 1 and 5 cubs (2-3 is average). At 8 weeks, cubs start learning to hunt with their mother. By 6 months they have learned the basics of killing animal. It will be about 1 ½ years before they can really hunt and sustain themselves on their own.

Because these cats are so large, they require large species of prey animals. As you imagine, tigers naturally travel over large areas in search of prey. As the human population of the world and fragmentation of forests and wild lands continues, tigers are colliding with humans and losing the battle for wild places with enough large prey animals to sustain them. Tigers are also being killed for their spectacular fur coats and for Asian medicinal products.

**Bengal tiger, Royal Bengal tiger, and Indian tiger: Panthera tigris tigris**

The Bengal tiger is the more numerous of tigers. It is estimated that between 3,000 and 5,000 still live in the wild. They eat mostly the larger species of deer and cattle type animals.

The average weight of females is 220-350 pounds. Males weight about twice as much 420-570 pounds. The length of tigers is about 8-8 ½ feet for females, but males can grow to slightly over 10 feet. They range over 10-39 square kilometers (3.9–15 square miles) for females and 30-105 square kilometers (11.7–40.5 square miles) for males.

Only Bengal tigers have been found with the white color coat. It has been determined that some individuals carry a recessive gene for a white coat color. Note that the white colored animals are not albinos.

The Bengal tiger lives in a wide range of habitats, including the high altitude, cold, coniferous Himalayan forests, the steaming mangroves of the Sunderbans, the swampy reed lands, the scorched hills of the Indian peninsula, the lush wet forests of Northern India, and the arid forests of Rajasthan. Their range is in India, Nepal, Bangladesh, Bhutan and Myanmar.

**Indochinese tiger: Panthera tigris corbetti**
It is suspected that there are between 1,200 and 1,800 Indochinese tigers roaming the remote forests in hilly to mountainous terrain, much of which lies along the borders between countries. Access to these areas is often restricted, so very little is known about wild Indochinese tigers. It is known that they eat larger prey such as wild pigs, deer and cattle.

The Indochinese subspecies is smaller and darker than the Bengal. The females weigh between 220-290 pounds and are about 7 ½ feet long. The males weigh about 330-430 pounds and grow to between 8 ½ feet to about 9 ½ feet. Their optimum habitat is probably about 39 square miles.

It is reported that the have shorter narrower stripes on their coat. These tigers live mostly in Thailand, but are found in southern China, Cambodia, Laos, Vietnam, Myanmar, and peninsular Maylasia.

**Siberian tiger, Amur tiger, Ussuri tiger, Manchurain tiger, North-East China tiger: Panthera tigris altaica**

Researchers believe that there are only about 360–406 Siberian tigers—now referred to as the Amur tigers—in the wild. They are the largest of the tigers and considered to be the largest cat existing in the world today. They mainly eat wild boar and elk. The average weight of the females is between 220-368 pounds. A female’s length varies from about 8 to 9 feet. Male Amur tigers are much heavier and average between 420-675 pounds. A male’s length can be from 8 feet 8 inches to 10 feet 9 inches!

These tigers also have the largest home range needs. A female will range from 39 to over 150 square miles and the males can range from 300-390 square miles. Such large ranges reflect the fact that their prey is unevenly distributed and moves seasonally.

You can certainly recognize that this cat is a tiger but it does have some coat color differences from the Indian tigers that we see most commonly in zoos. The Amur tiger’s coat is a pale orange color with brown widely spaced stripes. Another unique coat characteristics are a large thick white neck ruff, white chest and white underbelly.

Amur tigers live in the in the birch, evergreen and scrub oak forests and eat wild boar, deer and elk. They are found mostly in eastern Russia but have been seen in some parts of northeastern China and northern North Korea.

**South China tiger, Amoy tiger, Chinese tiger: Panthera tigris amoyensis**

The South China tiger is considered to be the ancestor of all the tiger subspecies. This tiger is viewed as the most critically endangered of all the living tiger subspecies. It is projected that there are currently only about 20-30 individuals in the wild. Very little is known about the lives and habits of these rare animals. In the wild, they are known to eat cattle, deer and pigs. Although the other subspecies are found in zoos around the world, the South China tiger is found mostly in zoos in China.

A female of this subspecies on average weighs between 221 and 254 pounds while the male is somewhat heavier at 287 to 386 pounds. In length the females are said to range from 7 feet 3 inches to 8 feet. The males range from 7 feet 7 inches to 8 feet 6 inches.

The coat color is similar to the other Asian tigers, but they have very short, broad stripes spaced far apart compared to those of Bengal and Siberian tigers.

As you might expect from the name, the South China tiger is found in southern regions of central and eastern China.

**Sumatran tiger: Panthera tigris sumatrae**

The Sumatran tiger is the smallest of the living tiger subspecies. Approximately 400 wild Sumatran tigers are living today, primarily in the five national parks on the Indonesian island of Sumatra. As with other Asian tigers, the Sumatran is at the top of the island food chain and eats wild pig, big deer (called rusa) and muntjak, a small barking deer.

An average female only weighs165-243 pounds and is about 7 to 7 ½ feet long. The males only weigh 220-300 pounds. Their length can vary between 7 to 8 ½ feet. The specific range size of this tiger is not known, but there appear to be 4-5 tigers per 39 square miles in the low lands were food is plentiful. In the mountain forests, there are fewer tigers as the prey is less abundant.

The Sumatran has the darkest colored coat of all tigers. It has beautiful broad, black stripes that are often double and closely spaced. The forelegs are stripped as well.

The Sumatran tiger is found only on the Indonesian island of Sumatra in habitat that ranges from low-land forest to sub-mountain and mountain forest with some peat-moss forest.
RECENTLY EXTINCT SUBSPECIES

Sadly, three tiger subspecies are considered to have become extinct in the past 70 years of the 20th Century. They are: the Caspian tiger, the Javan tiger, and the Balinese tiger.

Caspian tiger: *Panthera virgila*

The Caspian tiger once ranged over large parts of the Middle East. It was probably extinct in the 1950's when there was a concerted land reclamation project in an area of Russia where in the 1940's the populations were the highest. The Russian military were successful in killing the tigers found in this area. This curious subspecies (technical name *Panthera tigris virgata*) was once the western-most of all wild tiger subspecies. Its home range included Afghanistan, Iran, Iraq, Turkey, and portions of Russia. These are the tigers that lent their imagery to the many tiger-laden artistic representations of the mighty Ottoman and Persian Empires. These tigers were adapted to inhabit this very arid region. There have been recent reports of large cat sightings close to the Caspian Sea coast where the border of Iran and Turkmenistan meet. The Tiger Foundation, in collaboration with Boomiran - an Iranian nature conservation NGO - is currently conducting a on-site investigation of these reports and, preparing an extensive report on the Caspian tiger's likely extinction.

Javan tiger: *Panthera sondaica*

The Javan tiger ranged on the Indonesian island of Java. The last documented sighting was in 1972. No individual animals exist in the wild or in captivity. It is presumed to be extinct as there have been no official sightings in 50 years. There are photographs and pelts in existence.

Similar to the Sumatran and Bali subspecies of tiger, the Javan tiger, *Panthera tigris sondaica*, was uniquely isolated in both geographic and political terms to a single water-locked island. John Seidensticker and his Indonesian colleague Ir. Suyono conducted the first comprehensive field research on the island of Java in the mid-1970's. At that time, few tigers could be found on the island, and trends in the decline indicated the likely extinction of the subspecies within a decade-due completely to the corruption of their habitat by the population crush of humans. (Java, with an area of 132,000 kilometers and a population in excess of 130 million people, is the most densely populated island on Earth). There are still leopards on Java and the big cats signs of pug marks and tree scratches have been attributed to these animals by The Tiger Foundation.

In genetic terms, the Javan tiger could have supplied an opportunity for research as valuable as that of the Bali and Sumatran subspecies, had any of its progeny survived. The classifications used to categorize tigers by subspecies were implemented long before the details of genotyping were refined to the degree they have been today. Furthermore, the burgeoning field of genetic analysis had not achieved the techniques necessary to take full advantage of the animal's uniqueness before its demise. The relational proximity between the Sumatran, Javan and Bali tigers might have provided unique insights into the effectiveness of our subspecies identification techniques; techniques essential in the application of conservation strategies.

Balinese tiger: *Panthera balica*

The Balinese tiger once lived on the island of Bali, where the last tiger was believed to have been killed in 1937. Research shows that there are no known photos of a live Balinese tiger. Since Bali is such a small island, this population was probably the first to be held in captivity. Sadly, the only known item remaining of this animal is one 1925 photograph of a dead animal hanging from a pole!

Like its neighbors on the islands of Java and Sumatra, the Balinese tiger (technical name *Panthera tigris balica*) benefited, to a degree, by virtue of its geographic isolation. These tigers were only found in the wild on the tiny Indonesian island of Bali. As with many species that adapt to islands, these tigers were reported to have been smaller, darker, and have a greater density of thinner stripes than their cousins.

CONCERNS FOR SURVIVAL

In the wild

The status of the big cats in the wild is dire! A century ago there were estimated to be 100,000 tigers in the wild and now there are probably fewer that 5-6,000 remaining. As a result, tigers are listed as an Endangered Species by the US. Fish and Wildlife
Service of the Interior Department and the IUCN Red Date Book. It is an Appendix I species under CITES.

There is continued pressure due to population expansion into the tiger’s habitat as well as the loss of larger prey species. There is continued poaching for tiger skins for a variety of reasons as well as tiger parts such as teeth, bone and other body parts that are used in Oriental medicines. It is a very sad commentary that these magnificent animals are exploited for medicines and aphrodisiacs. Other factors that threaten tigers are introduced diseases from domestic animals. There is a current fear about the effects of highly pathogenic avian flu viruses on both wild and captive tiger populations since these viruses have been shown to infect cats.

**In captivity—zoos, circuses, private collections**

As the reader is probably aware, there are many animals that are held in captive situations. Many US zoos are involved in the North American Tiger Species Survival Plan (SSP). The plan is for the management of three subspecies—the Amur, Sumatran, and Indochinese tigers. The South China and the Bengal tigers are not managed by the SSP. Tigers in Europe are managed by the European Survival Plan (EEP) and in India by the Indian Zoo Association.

The US conservation program is trying to maximize genetic diversity. There have been successful assisted reproduction techniques (in vitro fertilization and artificial insemination) used to produce viable cubs. These techniques will be used for both captive and wild species.

The Tiger Global Conservation Strategy (Tiger GCS) is integrating all regional programs on a global level. Projects supported on a global level. Projects supported at this level include several in Indochina and Indonesia—developing studbooks, establishing masterplans, training zoo staff in veterinary medicine, reproduction, husbandry, and data management.

The American Zoo Association (AZA) issued an opinion to accredited member zoos stating that handling big cats in public areas is not appropriate. The organization feels that such activities are of little educational value, and can encourage private ownership. These are wild animals and should be shown as such.

**Conservation efforts**

Conservation efforts for wild tigers under the Tiger SSP include field studies to determine population numbers, understand their natural history, identify conservation needs, and define human/animal conflicts. Education efforts to stop poaching and the improvement of parks and reserves are also focus efforts.

Other groups taking an active role in trying to protect the wild tigers are the Hornocker Wildlife Institute-Wildlife Conservation Society (HWI-WCS) and the Tigris Society. These groups are working on population studies, better protection via laws and law enforcement projects for the Amur tigers.

**IN SUMMARY**

Tigers are such beautiful and magnificent animals that the real possibility of having any individuals and subspecies sink into extinction is indeed a tragedy!! What a terrible loss for us all if that happens. It is hoped that what man has the ability to destroy, he can also work hard to ensure its survival. Since education is always such an important part of conservation strategies, it is hoped that this information resource will in some small part help save some of these magnificent animals! We must all do our part to help.

**Resource materials used in the introduction:**


[http://www.felidtag.org/pages/educational/factsheets/tiger.htm](http://www.felidtag.org/pages/educational/factsheets/tiger.htm)


Other Web resources to explore:

For resources in addition to those above, an internet search with the terms “tigers and conservation” will find many additional sites.

http://www.lairweb.org.nz/tiger/ The site has many photos and covers a variety of topics such as: coloration, myths and facts, habits, subspecies, characteristics, behaviors, etc.

http://www.savethetigerfund.org/Directory/allabouttigers.htm This site covers a variety of topics including a bibliography that contains articles from newspapers, magazines and journals.

http://www.worldwildlife.org/tigers/ This site from the World Wild Life Fund contains information on the endangered status of tigers. It has an interesting series of photos taken by a camera trap in Indonesia.

http://www.sandiegozoo.org/animalbytes/tiger.html The San Diego Zoo is one of the few zoos that have the Indochinese subspecies of tigers. The site contains photos and a short description of the subspecies of tigers. Also included is information on the endangered status of these animals in the wild, discussions of efforts to save them, video footage, and recordings of their vocalizations.

http://www.siberian-tigers.com/siberian-tigers-links.htm The site contains a short description of the animal and many links to organizations that support conservation.

http://iranzoo.tripod.com/tiger/tiger.html This Iranian site has information about the Caspian tiger subspecies and where it lived in that area. Also included is a rare photo of a dead tiger of this subspecies.

http://www.petermaas.nl/extinct/speciesinfo/casiandtiger.htm The information on this site gives a short history of the planned elimination of the Caspian tigers in the Russian area as a land reclamation project. There is additional information on the possible sighting of this animal in Turkey in the later 1970’s.

About this Document

There have been a number of decisions made regarding the topics that are included in this publication. In most cases, the topics are related to the whole animal: biology, behavior, nutrition, feeds, reproductive physiology and the birth process, breeding and genetics, diseases, disease organisms, external and internal parasites, hand rearing, veterinary care, etc. Since there is a very concerted effort to house, breed and raise these animals in a variety of captive situations, you will find numerous papers on that topic. Although the papers selected are mostly related to the biology and husbandry/care of the tiger, there are also papers on the economics and sociological aspects related to tiger conservation efforts and natural reserves and the role of tigers in the lives of the local people.

The information in this document was extracted primarily from a variety of resources and is quite comprehensive. The published sources of most of the information include: journal articles, books, book chapters, conference papers, and reports. Abstracts are included when available. Some credible World Wide Web resources are also listed. All references for materials in the National Agricultural Library (NAL) collection include the NAL call number for ease when requesting photocopies or interlibrary loans. Please see http://www.nal.usda.gov/ddsb/ for lending and document delivery information and costs.

The document is broken into topical sections, arranged by publication year and alphabetically by author within each year. There is no index. It is expected that by searching with key words, the user will find what is of interest. Although much of the information is in English there is a significant amount of this material in Chinese, Russian and other languages. References include materials published from 1993-2005.

The compiler welcomes additional information from other sources for inclusion as well as any comments or suggestions. Since it is desirable to have a comprehensive resource of information on these animals, collaborators are also welcome. If you have or know of science based information that would enhance this publication, please contact the compiler. Note that any information submitted must include important elements of identification and access i.e. author, year, publication information, title, accessibility, etc.
Please send your comments, information, or suggestions to:

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Bibliography

Prehistoric, Progenitors

2004

Anton, Mauricio; Salesa, Manuel J.; Pastor, Juan Francisco; Sanchez, Israel M.; Fraile, Susana; Morales, Jorge Implications of the mastoid anatomy of larger extant felids for the evolution and predatory behaviour of sabretoothed cats (Mammalia, Carnivora, Felidae). Zoological Journal of the Linnean Society. 2004 February; 140(2): 207-221.

Descriptors: Machairodontinae, evolution of fossil taxa, mastoid anatomy, predatory behavior, feeding behaviour, implications of extant taxa regarding the sabre-toothed cats, Panthera leo, Panthera tigris, Puma concolor, skeletal musculature, large interovetraly projected mastoid process in pantherines, skull structure, functional morphology, sabre-tooth mastoid morphology implies larger and longer-fibered atlanto-mastoid muscles, sabre-tooth musculature related to head flexing motion.

Luo, Shu Jin; Kim, Jae Heup; Johnson, Warren E.; van der Walt, Joelle; Martenson, Janice; Yuhki, Naoya; Miquelle, Dale G.; Uphyrkina, Olga; Goodrich, John M.; Quigley, Howard B.; Tilson, Ronald; Brady, Gerald; Martelli, Paolo; Subramaniam, Vellayan; McDougal, Charles; Hean, Sun; Huang, Shi Qiang; Pan, Wenshi; Karanth, K. Ullas; Sunquist, Melvin; Smith, James L. D.; O'Brien, Stephen J. Phylogeography and genetic ancestry of tigers (Panthera tigris). PLoS Biology. 2004; 2(12): 2275-2293. eISSN: 1545-7885; ISSN: 1544-9173.

URL: http://www.plosbiology.org

2003


2001

Descriptors: tigers, prehistoric species, fossils, Europe.

1999


Descriptors: tigers, Panthera tigris, fossil records, Cenozoic era, Palearctic region, Asia, Orient.

Biogeography

2003


NAL call no.: QH84.G56

Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, differential extinction rates, island populations, mathematical models, VORTEX population model, data on populations from literature, tigers less prone to losses than leopards, biogeography, animals lost after end of last glaciation period, Java, Sumatra, Bali, Indonesia.

2002


Descriptors: tigers, Panthera tigris amoyensis, evidence for probable extinction in wild, China.

2000


Descriptors: Amur tigers, Panthera tigris altaica, sightings, endangered species, possible appearance in previous habitat, Chita Oblast, Russia.


NAL call no.: QH75.A1A54

Descriptors: tigers, Panthera tigris, endangered status, conservation measures, strategy development, implications of subspeciation extent, number of subspecies, speciation, population genetics, historical zoogeographical change data, historical changes, conservation issues, Asia.

1999


Descriptors: tigers, Panthera tigris, phenotypic characteristics, size, body and skull measurements, color, markings, wild animals, individual variations, population distribution, phenotypic variation, conservation concerns, strategies based on variations, Palearctic regions.


Descriptors: tigers, Panthera tigris, possible native species in Borneo, introduction at some point, discussion of reports, validity of sightings, Borneo.

Rabinowitz, Alan. The status of the Indochinese tiger: separating fact from fiction. In: John Seidensticker; Sarah Christie; Peter Jackson (Editors). Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes. Cambridge
Wentzel, Joelle; Stephens, J. Claiborne; Johnson, Warren; Menotti Raymond, Marilyn; Pecon Slattery, Jill; Yuhki, Naoya; Carrington, Mary; Quigley, Howard B.; Miquelle, Dale G.; Tilson, Ronald; Manansang, Jansen; Brady, Gerald; Zhi, Lu; Wenshi, Pan; Shi Qiang, Huang; Johnston, Leslie; Sunquist, Mel; Karanth, K. Ullas; O’Brien, Stephen J. **Subspecies of tigers: molecular assessment using ‘voucher specimens’ of geographically traceable individuals.** In: John Seidensticker; Sarah Christie; Peter Jackson (Editors). **Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes.** Cambridge University Press. Cambridge, New York & Melbourne. 1999: 40-49. ISBN: 0521640571.

**Descriptors:** tigers, *Panthera tigris* ssp., subspecies identification, implication of allozyme variations, molecular genetics, mitochondrial DNA, subspecies differences, biochemical differences, voucher specimens of known geographical origin, gene flow, oriental regions.

**1998**


**NAL call no.:** 513 B63
**Descriptors:** tigers, *Panthera tigris*, historical records, occurrences, Sikkim.


**Descriptors:** tigers, *Panthera tigris*, tiger populations, re-established populations, recent records, Transbaikalia, Russia.


**Descriptors:** Amur tigers, *Panthera tigris altaica*, various topics, conservation, annotated bibliography, Russia.

**1997**


**NAL call no.:** QL1.M572
**Descriptors:** tigers, *Panthera tigris balica*, skull, new museum specimen, morphology, zoology, size measurements, Hungarian Natural History Museum collection and exhibitions, new locality record, Gondol, Bali, Lesser Sunda Islands, Indonesia.

**1995**


**NAL call no.:** QL309.F375 1995
**Descriptors:** zoological survey, *Panthera tigris*, Indravati Tiger Reserve, wildlife reserves, habitat survey, Indravati Tiger Reserve, India.


**NAL call no.:** QL309.F376 1995
**Descriptors:** tigers, *Panthera tigris*, animal survey, zoology, Kanha Tiger Reserve India.


**NAL call no.:** QL309.F384 1995
**Descriptors:** zoological survey fauna, wildlife refuges, *Panthera tigris*, habitat survey, tiger reserve, India.
Natural History, Habits, Behaviors, and Reproduction in the Wild

2005

Descriptor:◆ Panthera tigris, tigers, Panthera leo, lions, Panthera pardus, leopards, reproductive patterns, breeding programs, endangered species, fecundity, litter size, reproduction rates, wild animals, conservation, zoo animals, zoological gardens, India.

2004

Descriptor:◆ Panthera tigris, tiger survey, transect sampling, trail monitoring, infrared automatic photo taking, no exact evidence of South China tiger found, nature reserves, possible re-introduction of species, Hupingshan National Reserve, China.

NAL call no.:◆ 500 N21P
Descriptor:◆ tigers, Panthera tigris, prey species requirements, distribution, population levels, densities, mechanistic model, landscape-scale field study, 11 ecologically diverse sites, functional relationship between large predators and prey, macro-ecological science, India.

NAL call no.:◆ QL84.5.A1T53
Descriptor:◆ mammals, species profiles, annotated faunal list, Melghat Tiger Reserve, India.

NAL call no.:◆ QL700.Z4
Descriptor:◆ Panthera tigris tigris, tiger’s prey selection behaviors, tropical dry deciduous forest, herbivore depleted habitats with high livestock pressures, prey distribution, herbivore sightings survey, scats survey, prey kills survey, chital, Axis axis, wild boar, Sus scrofa, sambar, Rusa unicolor, preferentially kill smaller prey and avoid livestock.

2003

Descriptor:◆ tigers, Panthera tigris, food habits, prey abundance, semi-arid deciduous forest, line transects, analysis of scats, chital, Axis axis, langur, Presbytis entellus, sambar, Cervus unicolor, nilgai, Boselaphus tragocamelus, wild pig, Sus scrofa, chinkara, Gazella bennetti, domestic livestock, population densities, wildlife conservation, Ranthambhore National Park, western India.

NAL call no.:◆ QH77.C6C64◆ 2003
Descriptor:◆ tigers, Panthera tigris, pangolins, historical review, nature conservation, endangered wildlife conservation, ecology, China.

Descriptors: Panthera tigris amoyensis, field population survey, wild tiger conservation measures, habitat evaluation, Yihuang Provincial Reserve Jiangxi Province, China.


Descriptors: tigers, survey of sightings, various impacts, seasonal changes, thickness of undergrowth, tourist pressure, Nagarahole National Park, India.


Descriptors: dholes, domestic dogs, impact on ecology, domestic dogs effects on wild herbivores and tigers, Panthera tigris, effects on biodiversity conservation, interspecific competition, stray animals, wildlife parks, Similipal Tiger Reserve, India.

2002


Descriptors: tigers, Panthera tigris, chital, Axis axis, Sambar, Cervus unicolor, langur, Pseudois entellus, pig, Sus scrofa, domestic livestock, prey food preferences, prey species availability, density and biomass, dry deciduous forest, scat analysis and line transect technique, conservation implications, long term tiger reserve possibilities for Pench National Park, Central India.


NAL call no.: QH77.C6C64 2003

Descriptors: tiger, Panthera tigris, pangolin, species natural history, relationships with humans, conservation, comprehensive zoology, conservation, historical information, China.


Descriptors: tigers, Panthera tigris, natural history, ecology, population monitoring, overview.


Descriptors: tigers, Panthera tigris, mammalian predators, field survey methods for predator and mammalian prey relative abundances assessment.


Descriptors: tigers, Panthera tigris, mammalian predators, prey and predator spatial distribution assessments, field survey protocols.


Descriptors: tigers, Panthera tigris, mammalian predators, predator/prey monitoring, conservation needs and managerial constraints.

Kumar, M. Ananda; Singh, Mewa; Srivastava, Sanjay K.; Udhayan, A.; Kumara, H.N.; Sharma, A.K. Distribution patterns, relative abundance and management of mammals in Indira Gandhi Wildlife Sanctuary, Tamil Nadu, India.

NAL call no.: 513 B63

Descriptors: tigers, Panthera tigris, elephants, guar, sambar, muntjac, pigs, chital, leopards, palm civets, giant squirrels, macaques, langur, preferred habitats, habitat relationships, different vegetation types, direct sightings, signs, tracks, seasonal effects, conservation implications, Indira Gandhi Wildlife Sanctuary, Tamil Nadu, India.

Liu, Zhen Sheng; Li, Feng; Teng, Li Wei; Zhou, Xiao Yu. [Time budget of semifree-ranging Amur tigers (Panthera tigris altaica)]. Zoological Research. 2002 October; 23(5): 389-393. ISSN: 0254-8583. Note: In Chinese with a Chinese and English summary.

NAL call no.: QL1.T58

Descriptors: tigers, Panthera tigris altaica, semi-free animals, activity patterns, time budget, behavior observations, behavior patterns, observations, Amur Tiger Park, Heilongjiang, China.


URL: http://www.biomedcentral.com/1472-6785/2/6

NAL call no.: QHS540.B63

Descriptors: tigers, Panthera tigris, internal parasites, Digenea, Cestoda, Nematoda, parasite life cycle, mammalian hosts, fecally dispersed parasite, abundance and diversity patterns, community structure, Maharashtra, Tadoba Andhari Tiger Reserve, India.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, mathematical techniques, statistics, relative abundance indices.


Descriptors: tigers, Panthera tigris, wild animals, capture/recapture sampling methods, population density measurement, absolute densities estimation, statistical concepts, mathematical statistical techniques.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, mathematical techniques, statistics, relative abundance indices.


NAL call no.: 410 M32

Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, feeding behavior, prey preferences, wild animals, Sariska Tiger Reserve, Rajasthan, India.


Descriptors: tigers, Panthera tigris, mammalian predators, prey/predator spatial distribution, mapping using GIS, ecological mapping.


NAL call no.: QL84.5A1T53

Descriptors: tigers, Panthera tigris, Rhinoceros unicornis, young animals, mammalian tiger prey, incidence levels, Kaziaianga National Park, Assam, India.

NAL call no.: QL795.T5T43 2002

Descriptors: tigers, *Panthera tigris*, natural history, habitats, range, human/tiger interactions, conservation, endangered species, India.


Descriptors: tigers, *Panthera tigris*, prey species densities, density estimation, line transect sampling statistical concepts.


NAL call no.: SK555.T54 2002

Descriptors: tigers, man-eating tigers, natural history, tiger hunting, behavior, India.

2001


Descriptors: tigers, *Panthera tigris*, leopards, *Panthera pardus*, *Cuon alpinus*, *Hylobates hoolock*, elephants, pigs, deforestation and forest fires effects, monoculture, forest fragmentation, habitat destruction, forest reserves, surveys of wild animal species and populations.


NAL call no.: EJ75.A1A54

Descriptors: tigers, *Panthera tigris*, scare and seldom seen mammals, photography-based population surveys, population density measurement, methods, Oriental region.


NAL call no.: 410 AC87

Descriptors: tigers, *Panthera tigris amoyensis*, indicators of tigers present, tracks, footprints, historical records, measurements, Taoyuan, Hunan Province, China.


NAL call no.: 513 B63


Descriptors: tigers, Panthera tigris, age of sexual maturation, mating behavior, observation records, Bandhavgarh Tiger Reserve, Madhya Pradesh, India.

2000


NAL call no.: SB484.152C48 2000

Descriptors: natural history of national park, animals and plants, Ranthambhor National Park, India.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris tigris, endangered species, wildlife conservation, habitat loss, Russia Federation, Russian Far East.


NAL call no.: 410.9 L84P

Descriptors: dhole, Cuon alpinus, leopard, Panthera pardus, tigers, Panthera tigris, mammalian prey species, species comparison, prey composition, predatory foraging behaviors, interactions between predators, Nagarhole National Park, Karnataka, India.


NAL call no.: QL737.C23M28 2000

Descriptors: tigers, Panthera tigris tigris, endangered species, wildlife conservation, habitat loss, Russia Federation, Russian Far East.


NAL call no.: 409.6 M29

Descriptors: mammal survey, 6 locations, traps, mist nests, animals tracks, marks, dens scats, interviews, 44 species identified in 22 families, endangered or threatened animals, bear, elephant, tiger, panther, tapir, gaur and serow, conservation, species diversity, Belum Forest Reserve, Malaysia.


Descriptors: Amur tigers, Panthera tigris, endangered species, populations of tiger prey, prey availability, species diversity, trade in animals, prey and predator dynamics, poaching effects on species and population numbers, Primorski Krai, Lazovsky Zapovednik, Russia.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Mammalia, population levels, abundance, forests, woodlands, annotated records, Kalakad Mundanthurai Tiger Reserve, Mundanthurai Plateau, Tamil Nadu, India.

Subba Rao, Madireddi V. Conserving biodiversity in the species-rich forests of Andhra Pradesh in Eastern Ghats, India. Selbyana. 2000 December; 21(1-2): 52-59. ISSN: 0361-185X.

NAL call no.: QK1.S35

Descriptors: tigers, Panthera tigris, other threatened wildlife species, conservation measures, ecological communities, current status of faunal groups, Eastern Ghats, India.

1999


Ramakrishnan, Uma; Coss, Richard G.; Pelkey, Neil W. Tiger decline caused by the reduction of large ungulate prey: evidence from a study of leopard diets in southern India. Biological Conservation. 1999 July; 89(2): 113-120. ISSN: 0006-3207. NAL call no.: S900.B5 Descriptors: leopards, Panthera pardus, tigers, Panthera tigris, mammalian prey population availability, impacts on tiger and leopard populations, conservation implications, leopard diet study, India.


1998


1997


Descriptors: tigers, *Panthera tigris,* biology and life history, endangered status, conservation status and threats, disturbance by human activities, conservation measures, Orient.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, *Panthera tigris,* flora, fauna, comprehensive zoology, ecological reserves, description, reserve importance, Pench Tiger Reserve, Madhya Pradesh, India.


Descriptors: Indian fauna, comprehensive zoology, natural history.

1996


NAL call no.: 99.8 IN2

Descriptors: numerous species, *Panthera tigris, Panthera pardus, Panthera leo persica,* tigers, leopards, lions, rhinos, macaques, ungulates, elephants, birds, wildlife, food habits, crop depredation, human and animal casualties and injuries, captive breeding, sanctuaries, restoration, India.

Jiang, Que Ming; Bleisch, W.V.; Jiang, Q.M. *Preliminary assessment of large mammals in the Namcha Barwa region of south-eastern Tibet.* *Oryx* 1996; 30(1): 37-44.

NAL call no.: 410 OR9

Descriptors: large mammal assessment, *Panthera tigris,* tiger predation on cattle and equines, wild life survey, forest tree species, elevation changes in forest species, mountains, China, Tibet.


Descriptors: tigers, *Panthera tigris altaica,* mammalian predators, prey composition, prey management, long term changes, conservation implications, conservation concerns, Russia.


Descriptors: tigers, *Panthera tigris tigris,* endangered species, survival possibilities, conservation efforts, Ranthambhore National Park, Rajasthan, India.


NAL call no.: 99.8 IN2

Descriptors: *Panthera pardus,* leopards, *Panthera tigris,* tigers, wild dogs, feeding habits, predators/prey relationships, nature reserves, Kerala, India.


NAL call no.: 410 M31

1995

NAL call no.: QH540.E32
Descriptors: tigers, Panthera tigris, wild animals, tiger behavior, human and animal interactions, Russia.

NAL call no.: 513 B63
Descriptors: tigers, Panthera tigris, tree marking, claw marks, types of trees chosen, Boswellia serrata, Madhuca longifolia, Pterocarpus marsupium, Bombax malabaricum.

1994

NAL call no.: SD247.J678
Descriptors: tigers, Panthera tigris tigris, mammalian prey, prey availability, food-prey preferences, effects of prey availability, Kanha Tiger Reserve, Madhya Pradesh, Mandla, India.

NAL call no.: SF446.5.T48 1994
Descriptors: cats, lions, tigers, behavior, habitats, life history, anecdotes.

1993

NAL call no.: QK358.S72 1993
Descriptors: forest plants, tiger habitat, current status of the habitat, India.

1992

NAL call no.: QP455.C473
Descriptors: tigers, Panthera tigris, scent marking, biochemistry of tiger scents, pheromones, marking fluid composition, scent spraying behaviors and strategies, functional implications.

1991

NAL call no.: Videocassette no. 1163
Descriptors: cats, behavior, tigers, lions, big cats, little cats, wild cats, effects of domestication.
Abstract: A comparison of domestic cats to wild cats is used to explain the behavior of domestic cats.

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Tigers in Society and Religion

2004


Descriptors: tigers, Panthera tigris, human animal relationship and coexistence, historical perspective, hunting, tiger hunters, human/animal conflicts, historical relationships, killing and coexistence, Indonesia, Malaysia.


Descriptors: Panthera tigris, tiger hunting, wildlife hunting, historical work, 20th century, India.


2003


Descriptors: traditional Korean medicine, use of products from endangered wildlife species, tiger, rhinoceros, musk deer, bear, pangolin, CITES, trade in banned species, mail survey of importance in medicine, decrease in tiger bone, rhinoceros horn, bear gallbladder, continued use of pangolin scale and musk, possible use of proven substitutes, regulations, and survey of marketed products, South Korea.


Descriptors: Acacia concinna, Artocarpus lakucha, Elephas maximus, Panthera pardus, leopards, Panthera tigris, humans, pigs, Sapindus emarginatus, multiple land use, fire wood collection, livestock grazing, non-timber forest products, fishing, hunting, villages, household losses, crop damage, human/animal conflicts, livestock as prey, Bhadra Wildlife Sanctuary, nature reserves, India.


Descriptors: tigers, Panthera tigris sumatrae, large mammals, elephants, rhinos, tapirs, endangered species, rampant deforestation effects on wildlife populations, remote sensing, biological surveys, predictive model of deforestation, Sumatra, Indonesia.


Descriptors: Sumatran tiger, Panthera tigris sumatrae, critically endangered animal, numerous threats, poaching, prey depletion, habitat loss, logging, palm oil production, pioneer farming, mining operations, forest fires, phototrapping for tiger distribution, patrol size effects, general law enforcement, mitigation of human/tiger conflicts, population monitoring, Kerinci Seblat National Park, west central Sumatra, Indonesia.
Madhusudan, M.D. Living amidst large wildlife: livestock and crop depredation by large mammals in the interior villages of Bhadra Tiger Reserve, south India. Environmental Management. 2003 April; 31(4): 466-475. ISSN: 0364-152X.
NAL call no.: HC79.E5E5
Descriptors: tigers, Panthera tigris, elephants, Elephas maximus, humans/wild animals conflicts, livestock and crops vs conservation, spatio-temporal patterns of animal damage, compensation claims were too slow, possible livestock and crop insurance programs, Bhadra Tiger Reserve, India.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, human/animal conflicts, nature reserves, Sundarban Tiger Reserve, West Bengal, India.

NAL call no.: HC75.E3
Descriptors: conservation, ecotourism, wildlife tourism, study on local village and attitudes, relationship between wildlife tourism and local support for conservation, tiger conservation areas, economic impacts, tourism impacts, issues of local involvement in development of tourism wildlife conservation, Sariska Tiger Reserve (STR), India.

NAL call no.: QL84.5.I4B38 2003
Descriptors: tigers, Panthera tigris, wilderness areas, wildlife refuges, endangered ecosystems, endangered species, loss of species and populations, India.

2002

Note: In English with a Hindi summary.
NAL call no.: 99.8 IN2
Descriptors: tigers, Panthera tigris, endangered species, wild animals, threats by human activities, conservation measures, population losses, restoration management, human/tiger conflicts, dispersal corridors, effective implementation of conservation laws, boundary cooperation, forest fragmentation, habitat loss, hunting, poaching, nature conservation, India.

Bashaw, Meredith J.; Maple, Terry L. Signs fail to increase zoo visitors' ability to see tigers. Curator. 2002 July; 44(3): 297-304. ISSN: 0011-3069.
Descriptors: Panthera tigris, tigers, captive animal exhibits, signage utility, enabling visitors to see animals, zoos and wildlife parks.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris tigris, wild animals, human/tiger conflicts, attacks on humans, synanthropy, conservation measures, destruction of tigers, Sundarbans, Bangladesh.

Descriptors: tigers, Panthera tigris altaica, effects of habitat disturbances by human activities, road development, conservation efforts, feeding behavior, adult females and cubs, survival of young, Primorye Krai, Sikhote Alin State Biosphere, Zapovednik, Russia.

NAL call no.: HV4708.A93 2002
Descriptors: animal welfare, moral and ethical aspects, human/animal relationships, animals and civilization, attitudes regarding the use and caring for animals, animal exploitation

NAL call no.: QL795.T5T43 2002
Descriptors: tigers, Panthera tigris, natural history, habitats, range, human/tiger interactions, conservation, endangered species, India.

NAL call no.: SK555.T54 2002
Descriptors: tigers, man-eating tigers, natural history, tiger hunting, behavior, India.

2001

NAL call no.: QH541.15.M3E25
Descriptors: tigers, Panthera tigris, multiple use forests, human/tiger conflicts, field work, population studies, modeling, management, forest use by tiger, forest use by humans, animal behavior, forest ecology, geographical information systems, predation, predators, prey, simulation models, Nepal.

Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, Cuon alpinus, Hylobates hoolock, elephants, pigs, deforestation and forest fires effects, monoculture, forest fragmentation, habitat destruction, forest reserves, surveys of wild animal species and populations.

NAL call no.: QL737.C23B658 2001
Descriptors: tigers, Panthera tigris, human interactions, historical view, human/animal relationships, Asia.

NAL call no.: QL717.L37 2001
Descriptors: tigers, Panthera tigris sumatrae, conservations, endangered species restoration, realities of animals and human interactions, sociological considerations, reintroduction, relocation programs, rainforests, Indonesia.

2000

Descriptors: tigers, Panthera tigris tigris, endangered species, threatened forest populations, forest fragmentation, habitat destruction, reduced gene flow, probability of in-breeding, nature-reserves, population change, reviews, wildlife conservation and management, Nepal.

NAL call no.: QL76.5.U6A472
Descriptors: lions, Panthera leo, tigers, Panthera tigris sumatrae, captive animals, care, handling, ways of feeding, environmental enrichment, feeding behavior, visitor experiences, zoos and wildlife parks, Zoo Atlanta, Georgia, United States.

21/88

Zhang, Endi; Schaller, George B; Li Zhi. Tigers in Tibet. Cat News. 2000 Autumn; 33: 5-6. ISSN: 1027-2992.

1999


solutions, India.

1998


Descriptors: tigers, Panthera tigris, animal parts in Chinese medicine, illegal animal trade, animals in entertainment, conservation measures, education of threats to tiger survival, public awareness, Chinese communities in New York City, United States.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris, animal parts, old age, poaching, death from unnatural causes, environmental degradation, mangrove forest, hunting, water pollution, agrochemicals, salinity, turbidity, local people issues, wild life conservation, ecological changes, management plans, Tiger Project, tiger populations, control, tiger behavior of man eating tigers, ecotourism, Bangladesh.


Descriptors: tigers, Panthera tigris altaica, various topics, conservation, annotated bibliography, Russia.


Descriptors: tigers, Panthera tigris, status of animals in the wild, habitat losses, disturbance by humans, conservation efforts, biology, behaviors, habitats.


NAL call no.: SD223.A3

Descriptors: Bengal tiger, Panthera tigris tigris, precise conservation strategy, skill/techniques, principles of wildlife conservation, threatened species, appraisal of past management effects, databases, nature reserves, population dynamics, socio-economics, India.


NAL call no.: QH540.E55

Descriptors: animal distribution, predation on livestock, crop damage, village study, cultural attitudes toward animals, advantages of tiger reserve area, Sariska Tiger Reserve, Rajasthan, India.


NAL call no.: QH540.E55

Descriptors: tigers, Panthera tigris, livestock predation, wild predators, conservation areas, protected areas, human/animal interactions, problem identification and management, Saroska Tiger Reserve, Rajasthan, India.

1997


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris, endangered species, wild population levels, disturbance by human activities, conservation threats, proposals for conservation measures, Dibrusaikhowa Sanctuary, Assam.


Descriptors: tigers, Panthera tigris, endangered status, human/animal conflicts, impacts of humans, illegal trade in animals and animal parts, worldwide review of the tiger's status, future threats, decline in prey availability, forest and wildlife conservation.
woodland destruction, conservation significance.

NAL call no.: QL737.C23M43 1997
Descriptors: tigers, endangered species, wildlife conservation, historical view.

Descriptors: tigers, Panthera tigris tigris, disturbance by humans, hunting pressures, conversion of land for agricultural uses, conservation needs, conservation efforts, Namcha Barwa, Xizang, Tibet.

NAL call no.: SK357.A1W5
Descriptors: tigers, Panthera tigris, conservation programs, human/animal conflicts, ecological and social-influences on conservation-programs, conservation threats, protection program implications, conservation measures, current program status review, Asia, Orient.

1996

NAL call no.: QL737.C23I94 1996
Descriptors: tigers, Panthera tigris, endangered species, wildlife conservation, Asia.

NAL call no.: 99.8 IN2
Descriptors: leopards, Panthera pardus, tigers, Panthera tigris, wild dogs, Cuon alpinus, cattle predation, human casualties, Kerala, India.

Descriptors: tigers, Panthera tigris altaica, wild populations, disturbance by human activitives, population levels, population density, human/animal conflicts, Tumen River Basin, China.

1995

NAL call no.: QL76.46.A472
Descriptors: tigers, Panthera tigris, bears, use of animal parts and fluids in traditional Chinese medicines, medicine, significance for conservation, proposals regarding traditional uses.

NAL call no.: 41.8 V6425
Descriptors: Panthera leo, lions, Panthera tigris, tigers, horses, buffalo, dogs, elephants, steers, training, circus animals, anthrozoology.

NAL call no.: SF408.3.E84
Descriptors: tigers, threatened and endangered species, captive animals, ethics of captive animals, comprehensive, role of zoos and wildlife parks, discussion and recommendations, conservation measures, history, concepts and challenges, review and discussion.


tonics, luxuries, charms, controlling trade, illegal international trade issues, hunting, legislation, conservation, Asia.

1999


Descriptors: Amur tigers, Panthera tigris altaica, trade in animals and animal parts, conservation measures, population size, recovery following anti-poaching strategies, Russia.


Descriptors: tigers, Panthera tigris, endangered animals, illegal trade in animal and animal parts, conservation, history, attempts to curb hunting and killing animals, Oriental region, Asia.


Descriptors: tigers, Panthera tigris, wild animal, illegal poaching, trade in animals and animal parts, anti-poaching strategies, conservation measures, India.

1998


Descriptors: tigers, Panthera tigris, use of wild animal parts in traditional medicine, illegal trade in tigers and tiger parts, conservation implications, suggestions for addressing the problems, enforcement regulations.


Descriptors: tigers, Panthera tigris, animal parts in Chinese medicine, illegal animal trade, animals in entertainment, conservation measures, education of threats to tiger survival, public awareness, Chinese communities in New York City, United States.


NAL call no.: Fiche S (133 Y 1.1/8:105-495)

Descriptors: labels, law and legislation in the United States, rhinoceroses, tigers, Panthera tigris, wildlife conservation law and legislation, United States.


NAL call no.: Fiche S (133 Y 1.1/8:105-455)

Descriptors: rhinoceroses, tigers, Panthera tigris, laws and legislation, wildlife protection and conservation, United States.

1997


Descriptors: tigers, Panthera tigris, endangered wild animals, elephants, Elephas maximus, Loxodonta Africana, trade
in animals and animal parts, ivory tusks, problems for wild animal conservation, conservation measures, discussion of


Descriptors: tigers, *Panthera tigris*, illegal trade in animals and animal parts, effects on conservation of wild populations, recommendations to prevent poaching and trade, 1993 ban, investigation of the status of illegal trade.


NAL call no.: 410 OR9


Tilson, Ronald; Traylor-Holzer, Kathy; Qiu, Ming Jiang. ◆ The decline and impending extinction of the South China tiger. ◆ Oryx. ◆ 1997 October; 31(4): 243-252. ◆ ISSN: 0030-6053.

NAL call no.: 410 OR9

Descriptors: tigers, *Panthera tigris amoyensis*, trade in animals and animal parts, possible extinction of a subspecies, conservation recommendations, number in wild and captivity, conservation significance.

1996


1995


NAL call no.: QL76.5.46.A472

Descriptors: tigers, *Panthera tigris*, bears, illegal trade in animals, world trade in body parts and fluids, overview.


NAL call no.: SD1.M8

Descriptors: tigers, *Panthera tigris tigris*, illegal trade in animals and animal parts, wild populations, conservation measures, prevention of illegal trade prevention, overview, India.


NAL call no.: QL76.5.46.A472

Descriptors: tigers, *Panthera tigris*, bears, trade in animals, CITES recommendations, conservation measures, worldwide actions.

Conservation, Population Studies, Reserves

2004


26/88

NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris, wildlife conservation, natural history, ecology, Indian subcontinent.


Descriptors: Panthera tigris, tiger hunters, human/animal conflicts, hunting, historical relationships, killing and coexistence, Indonesia, Malaysia.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris, plants, forest ecology, dominant flora and fauna study, management for conservation, enforcement, fire control, improvement of water regimes, communication and patrol camps, impacts on wildlife, Berbera Forest of Khurda Forest Division, Orissa, India.


NAL call no.: SK305.T5C67 2004

Descriptors: Panthera tigris, tiger hunting, wildlife hunting, historical work, 20th century, India.


NAL call no.: QH75.A1A54

Descriptors: Panthera tigris, tigers, predator/prey population interactions, tropical dry-forest, tiger ecological densities, baseline data needed, photo-capture method, 60 camera trap sites, estimated capture probability, population study identified 29 animals, 6.94 (3.23) tigers/100 km2, well managed area capable of supporting 9,000 tigers, Panna Tiger Reserve, Madhya Pradesh, India.


NAL call no.: S900.B5

Descriptors: Panthera tigris, tigers, Panthera pardus, leopards, adult population survey, density estimate, photographic capture data, rain forests, prey biomass, wild boar, muntjac, no evidence of poaching noted, wildlife conservation, Taman Negara National Park, Peninsular Malaysia.


URL: http://www.nal.usda.gov/digitop/images/digitop_brands/FullText.jpg

NAL call no.: S601.A34

Descriptors: tigers, Panthera tigris, elephants, conservation theories, conservation realities, human/animal conflicts for landscapes, societal issues, agroforestry, biodiversity, endangered species, defining distribution and frequency of conflicts, edges of protected tropical landscape areas, natural resource conservation, Sumatra, Indonesia, Southeast Asia.


NAL call no.: 410 OR9


NAL call no.: 99.8 IN2
Descriptive: Tigers, Panthera tigris, conservation, few wildlife protected areas, conservation efforts, relocation, protection, build up of prey species, cooperation of park residents, Kanha Tiger Reserve, Mandla, Madhya Pradesh, India.


Information resources on tigers, Panthera tigris: natural history, ecology, conservation, biology, and captive care

29/88


Descriptors: traditional Korean medicine, use of products from endangered wildlife species, tiger, rhinoceros, musk deer, bear, pangolin, CITES, trade in banned species, mail survey of importance in medicine, decrease in tiger bone, rhinoceros horn, bear gallbladder, continued use of pangolin scale and musk, possible reductions if proven substitutes are available, regulations, survey of marketed products, Korea.


Descriptors: Acacia concinna, Artocarpus lakucha, Elephas maximus, Panthera pardus, leopards, Panthera tigris, humans, pigs, Sapindus marginatus, multiple land use, fire wood collection, livestock grazing, non-timber forest products, fishing, hunting, villages, household losses, crop damage, human/animal conflicts, livestock as prey, Bhadra Wildlife Sanctuary, nature reserves, India.


Descriptors: tigers, Panthera tigris, conservation practices, population monitoring, efficiency of pug mark census method tested, ecological techniques, distribution mapping, tracking relative abundance, estimation of absolute abundance, alternative sampling-based approach, India.


Descriptors: tigers, Panthera tigris, ecology, range of habitats, social organization, females maintain and defend home ranges, population densities, ungulate prey populations, prey species depletion, conservation policies, incompatible human uses of habitat, India.

Descriptors: tigers, Panthera tigris sumatrae, large mammals, elephants, rhinos, tapirs, endangered species, rampant deforestation effects on wild life populations, remote sensing, biological surveys, predictive model of deforestation, Sumatra.


Descriptors: tigers, Panthera tigris, natural reserves, national parks, conservation efforts, problems faced in conservation of tigers, Manas National Park of Assam, India.


Descriptors: Sumatran tiger, Panthera tigris sumatrae, critically endangered animal, numerous threats, poaching, prey depletion, habitat loss, logging, oil palm production, pioneer farming, mining operations, forest fires, phototrapping for tiger distribution, patrol size effects, general law enforcement, mitigation of humans/tigers conflicts, population monitoring, Kerinci Seblat National Park, west central Sumatra, Indonesia.

Madhusudan, M.D. Living amidst large wildlife: livestock and crop depredation by large mammals in the interior villages of Bhadra Tiger Reserve, south India. Environmental Management. 2003 April; 31(4): 466-475. ISSN: 0364-152X.

Descriptors: tigers, Panthera tigris, elephants, Elephas maximus, humans/wild animals conflicts, livestock and crops vs conservation, spatio-temporal patterns of animal damage, compensation claims were too slow, possible livestock and crop insurance programs, Bhadra Tiger Reserve, India.


Descriptors: tigers, Panthera tigris sumatrae, mouse deer, pigs, Sambar deer, red muntjac, pigtail macaques, tapir, argus pheasant, prey food availability, effects on predator populations, population dynamics, camera trap, habitat loss, illegal hunting, human/animal conflicts, edge effects, national parks, nature reserves, Bukit Barisan Selatan National Park, Sumatra, Indonesia.


Descriptors: tigers, Panthera tigris, population density trends, wildlife conservation, national parks and reserves, Maharashtra, India.


Descriptors: conservation, ecotourism, wildlife tourism, study on local village and attitudes, relationship between wildlife tourism and local support for conservation, tiger conservation areas, economic impacts, tourism impacts, wildlife conservation, benefits to local folks, survey of local attitudes, issues of local involvement in development of local tourism, national reserves, Sariska Tiger Reserve, India.


Descriptors: wildlife conservationist, life of Billy Arjan Singh, establishment of Tiger Haven, Dudhwa National Park, decline of wildlife population such as tigers and leopards, co-existence with humans issues, life of Tara tigress, India.

Descriptors: tigers, Panthera tigris, survey of sightings, various impacts, seasonal changes, thickness of undergrowth, tourist pressure, Nagarhole National Park, India.


Descriptors: dholes, domestic dogs, impact on ecology, domestic dogs effects on wild herbivores and tigers, Panthera tigris, effects on biodiversity conservation, interspecific competition, stray animals, wildlife parks, Similipal Tiger Reserve, India.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris, villagers, conflicts between humans and tiger preservation efforts, fencing, trapping of animals that stray, wildlife management practices, Sundarban Tiger Reserve, West Bengal, India.


NAL call no.: QL84.5.14B38 2003

Descriptors: tigers, Panthera tigris, wilderness areas, wildlife refuges, endangered ecosystems, endangered species, loss of species and populations, India.


Descriptors: Panthera tigris, tigers, conservation programs, Project Tiger, 29 tiger reserves, 1,800 wild tigers, conservation measures and strategies, animal distribution, India.


URL: http://www.kluweronline.com/issn/0960-3115/contents

NAL call no.: QH75.A1B562

Descriptors: tiger, Panthera tigris amoyensis, endangered species, DNA profiling, extraction, feces, DNA, DNA probes, distribution, China.

Xu, Zhi Qing. [How the South China tiger in wild being in imminent danger - to suggest concurrently the hopeness [hopefulness] of saving this subspecies of tiger.] Sichuan Journal of Zoology. 2003 August; 22(3): 184-190. ISSN: 1000-7083. Note: In Chinese with a Chinese and English summary.

Descriptors: Chinese tigers, Panthera tigris amoyensis, endangered status, conservation measures, population size, China.

2002


NAL call no.: 99.8 IN2

Descriptors: tigers, Panthera tigris, endangered species, wild animals, threats by human activities, conservation measures, population losses, restoration management, human-tiger conflicts, dispersal corridors, effective implementation of conservation laws, boundary cooperation, forest fragmentation, habitat loss, hunting, poaching, nature conservation, India.


Descriptors: tigers, Panthera tigris, chital, Axis axis, Sambar, Cervus unicolor, langur, Presbytis entellus, pig, Sus scrofa, domestic livestock, prey food preferences, prey species availability, density and biomass, dry deciduous forest, scat analysis and line transect technique, conservation implications, long term tiger reserve possibilities for Pench National Park, Central India.

NAL call no.: QH77.C6C64 2003
Descriptors: tigers, Panthera tigris, pangolin, species natural history, relationships with humans, conservation, comprehensive zoology, conservation, historical information, China.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, environmental protection, habitat management, nature reserves, protection of forests, reserved areas, resource management, wildlife conservation, wildlife management, 4 different zones: 1) wilderness zone; 2) habitat management zone; 3) multiple use zone; 4) tourism zone, Buxa Tiger Reserve, India.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris tigris, wild animals, human/tiger conflicts, attacks on humans, synanthropy, conservation measures, destruction of tigers, Sundarbans, Bangladesh.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, clouded leopards, populations of cryptic carnivores, endangered species, habitat selection, camera trapping survey, forested hills of Phu Khieo Wildlife Sanctuary, northeastern Thailand.

NAL call no.: QH324.C7
Descriptors: Eld's deer, Cervus eldi thamin, Sumatran tigers, Panthera tigris sumatrae, Przewalski's horse, Equus przewalskii, conservation measures, genome resource databases, assisted reproductive techniques, cryo-technologies, sperm banks, Wild Bank (material from wild individuals), Best Males (most genetically valuable when Bank established), bank usage frequencies, in-breeding, gene diversity, issues over the long term maintenance.

NAL call no.: SK357.A1W5
Descriptors: Amur tigers, Panthera tigris altaica, endangered species, population levels, measurement via tracks in snow, efficiency evaluation, Sikhote Alin State Biosphere Zapovednik region, Russia.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, distribution, major prey species, local movement, recommendation for protection, endangered species, nature reserves, research infrastructure, Dibrusaikhowa Biosphere Reserve, Assam, India.

NAL call no.: 99.8 IN2
Descriptors: Panthera tigris, elephants, pelicans, tiger conservation, conservation laws, human/animal conflicts, animal health, protected area management, giraffe calf rearing in zoo, lion cub mortality, India.

NAL call no.: QH75.A1A54
Descriptors: tigers, Panthera tigris, population density measurement, camera survey, photographic rate index, data evaluation for cryptic taxa, reliability.

Descriptors: tigers, Panthera tigris, natural history, ecology, population monitoring, overview.


Descriptors: tigers, Panthera tigris, mammalian predators, field survey methods for predator and mammalian prey, relative abundances assessment.


Descriptors: tigers, Panthera tigris, mammalian predators, prey and predator spatial distribution assessment, field survey protocols.


Descriptors: tigers, Panthera tigris, wild animals, predator/prey population density measurements, absolute densities estimation, line transect sampling, field survey methods.


Descriptors: tigers, Panthera tigris, population density measurement, camera trap survey techniques, absolute densities estimation, capture/recapture sampling.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, capture/recapture methods, statistical techniques, statistics, design considerations, India.


Descriptors: tigers, Panthera tigris altaica, effects of habitat disturbances by human activities, road development, conservation efforts, feeding behavior, adult females and cubs, survival of young, Primorye Krai, Sikhote Alin State Biosphere, Zapovednik, Russia.

Descriptors: tigers, Panthera tigris, elephants, guar, sambar, muntjac, pigs, chital, leopards, palm civets, giant squirrels, macaques, languard, preferred habitats, habitat relationships, different vegetation types, direct sightings, signs, tracks, seasonal effects, conservation implications, Indira Gandhi Wildlife Sanctuary, Tamil Nadu, India.

Liu, Jia Wu; Wu, Fa Qing; Ge, Ji Wen; He, Ding Fu; Dai, Zong Xing; Shi, Dao Liang; Man, Jin Shan; Peng, Zong Lin. Preliminary investigation of South China tiger in Qizimei Mountains Nature Reserve, Hubei province, China. Journal of Central China Normal University Natural Sciences. 2002 June; 36(2): 213-216; Sum. 102. ISSN: 1000-1190. Note: In Chinese with a Chinese and English summary.

Descriptors: tigers, Panthera tigris amoyensis, population level, conservation proposal, animal behavior, Qizimei Mountains Nature Reserve, Hubei province, China.


Descriptors: Panthera onca, Panthera tigris, population dynamics, population monitoring, ecology, conservation measures, field methods, conservation, Indochina.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, conceptual framework, mathematical techniques, statistics, relative abundance indices.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, mathematical techniques, statistics, relative abundance indices.


Descriptors: tigers, Panthera tigris, wild animals, capture/recapture sampling methods, population density measurement, absolute densities estimation, statistical concepts, mathematical statistical techniques.


Descriptors: tigers, Panthera tigris, wild animals, population density measurements, comprehensive zoology, mathematical techniques, statistics, relative abundance indices.


NAL call no.: QL84.5A1T53

Descriptors: comprehensive zoology, effects of disturbance by humans, threats to biodiversity, tiger habitat management, description of the reserve, biodiversity, Changlang District, Namdapha Tiger Reserve, Arunachal Pradesh, India.

NAL call no.: QL795.T5T43 2002

Descriptors: tigers, Panthera tigris, natural history, habitats, range, human/tiger interactions, conservation, endangered species, India.


Descriptors: tigers, Panthera tigris, prey species densities, density estimation, line transect sampling statistical concepts.

2001


NAL call no.: QH541.15.M3E25

Descriptors: tigers, Panthera tigris, TIGMOD model system, multiple use forests, conflicts between humans and tigers, field work, population studies, computer modeling of tiger/human interactions, management, forest use by tigers, forest use by humans, animal behavior, forest ecology, geographical information systems, predation, predators, prey, simulation models, Nepal.


Descriptors: tigers, Panthera tigris altaica, leopards, Panthera pardus orientalis, endangered animals reserve established, Jilin Hunchun Nature Reserve, China.


Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, Cuon alpinus, Hylobates hoolock, elephants, pigs, deforestation and forest fires effects, monoculture farming, forest fragmentation, habitat destruction, forest reserves, surveys of wild animal species and populations, India.


NAL call no.: QH75.1A54

Descriptors: tigers, Panthera tigris, scarce and seldom seen mammals, photography-based population surveys, population density measurement, methods, Oriental region.


Descriptors: tigers, Panthera tigris amoyensis, captive status, endangered status, breeding, pedigree analysis, China.


NAL call no.: SD143.S64

Descriptors: endangered species, habitats, forest habitat restoration, partnerships, Russia.


NAL call no.: SK355.T73 2001

Descriptors: tigers, Panthera tigris tigris, conservation project to protect tigers, threats to conservation efforts, habitat
Hsieh, Hsing Mei; Chiang, Hsiao Ling; Tsai, Li Chin; Lai, Shu Ya; Huang, Nu En; Linacre, A.; Lee, Chun IJ. **Cytochrome b gene for species identification of the conservation animals.** *Forensic Science International.* 2001, 122(1): 7-18.

Descriptors: identification of remains of endangered animals and species, conservation, Formosan gem-faced civets, *Panthera* species, leopard cats, tigers, clouded leopards, lions, Formosan muntjacs, Formosan sika deer, Formosan sambars, Formosan serows, water buffalo, Formosan pangolins and Formosan macaques, control species used, domestic cats, domestic dogs, domestic sheep, domestic cattle, domestic pigs, humans, heteroplasmy frequencies, species and individual diversity, cytochrome b gene usable for animal identification, genetic distances, Taiwan.


ISSN: 0027-1403. Note: In Russian with an English summary.

Descriptors: *Panthera tigris,* tigers, dogs, training dogs to identify fecal odor of tigers, tracking tigers with dogs, monitoring of population, tracking separate animals, field testing in Russian reserves.

Li, Tong; Ji Ang, Jin Song; Wu, Zhi Gang; Han, Xiao Dong; Wu, Jing Cai; Yang, Xing Jia. **[Survey on Amur tigers in Jilin Province.]** *Acta Theriologica Sinica.* 2001 February; 21(1): 1-6. ISSN: 1000-1050. Note: In Chinese with a Chinese and English summary.

Descriptors: tigers, *Panthera tigris altaica,* population survey, abundance and distribution, Jilin, China.

Lynam, Antony J.; Kreetiyutanont, Kitti; Mather, Robert. **Conservation status and distribution of the Indochinese tiger (*Panthera tigris corbetti*) and other large mammals in a forest complex in northeastern Thailand.** *Natural History Bulletin of the Siam Society.* 2001 Summer; 49(1): 61-75. ISSN: 0080-9462.

Descriptors: tigers, *Panthera tigris,* large mammals, infrared-based camera traps, 1 tiger, 22 other species seem to be present, pressure from hunting predators and prey, conservation efforts urgently required, Phu Khieo Wildlife Sanctuary in Chaiyaphum Province, Thailand.


ISSN: 0019-4816. Note: In English with a summary in Hindi.

NAL call no.: 99.8 IN2

Descriptors: tigers, *Panthera tigris tigris,* forests habitat destruction, poaching, human consumption of tiger body parts, human/wildlife conflicts, effective control and improved coordination for effective tiger conservation.

Thapar, Valmik. **Saving Wild Tigers, 1900-2000: The Essential Writings.** Permanent Black; Delhi and Orient Longman; Bangalore. cc2001. 411 pp., ill. ISBN: 817824005X.

NAL call no.: QL84.5.14S28 2001

Descriptors: tigers, *Panthera tigris,* endangered species, wildlife conservation, historical view of a century of tiger conservation activities, India.


NAL call no.: QL717.L37 2001

Descriptors: tigers, *Panthera tigris sumatrae,* conservations, endangered species restoration, realities of animals and human interactions, sociological considerations, reintroduction, relocation programs, rainforests, Indonesia.

2000


Descriptors: tigers, *Panthera tigris tigris,* endangered species, threatened populations, forest, fragmentation, habitat destruction, reduced gene flow, probability of in-breeding, nature reserves, population change, reviews, wildlife conservation and management, Nepal.


NAL call no.: QL84.5.A1T53
Descriptors: tigers, *Panthera tigris tigris*, endangered status, wild populations, conservation measures, conservation strategies, Sundarbans, Bangladesh.


Descriptors: mammals, tigers, *Panthera tigris*, *Macaca silenus*, *Cervus eldi eldi*, *Trachypithecus johnii*, Cercopithecidae, captive zoo animals, conservation of endangered species, captive animal breeding policies, India.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, *Panthera tigris*, endangered animals, wildlife conservation, national parks and reserves, descriptions of habitats, importance of various reserves, Sariska and Ranthambhore, Rajasthan.


NAL call no.: Fiche S133 (A13.151/5:RMRS-P-4)

Descriptors: tigers, *Panthera tigris*, protected species, wildlife conservation, diversity and environmental protection, forest management, India.

Abstract: Active participation of local people through community forestry has been successful in several developed countries. In the early 1980's, developing countries tried to adopt this approach for the conservation and management of forests. Nepal, for example, has gained considerable support from local people by involving them in conservation policies and actions. This paper illustrates that people living near the Sundarbans Tiger Reserve/National Park in India should not be considered mere gatherers of forest products. They can also be active managers and use forest resources sustainably, which will help in the conservation of tigers.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, *Panthera tigris*, floral and faunal diversity, tropical forest tiger reserve, wildlife conservation, Buxa Tiger Reserve, India.


NAL call no.: 410 M31


NAL call no.: 99.8 F762


NAL call no.: QH193.N4G73 2000

conservation, Nepal.


Descriptors: Amur tigers, Panthera tigris altaica, sightings, endangered species, possible re-appearance in previous habitat, Chita Oblast, Russia.


NAL call no.: QL737.C23M28 2000

Descriptors: tigers, Panthera tigris tigris, endangered species, wildlife conservation, habitat loss, Russia Federation Russian Far East.


Descriptors: tigers, Panthera tigris altaica, population changes, methods for assessing population levels, Primorskii Krai, Sikhote Alin Zapovednik, Russia.


NAL call no.: OP251.A1T5

Descriptors: domestic cat model, tiger, Panthera tigris, Indian desert cat, Felis sylvestris ornata, endangered cats, Felidae, oocytes, in vitro fertilization, embryo culture, embryo transfer, cryopreservation, assisted reproduction techniques, captive breeding program, literature reviews.

Abstract: Most of the 36 species of wild cats are classified as threatened, vulnerable or endangered due to poaching and habitat loss. The important role of assisted reproduction techniques (ART) as part of a multifaceted captive breeding program for selected wild cat species is gradually gaining acceptance. This recognition is a result of the progress made during the last decade in which the feasibility of oocyte recovery from gonadotropin-treated females, in vitro fertilization, embryo cryopreservation and embryo transfer (ET) was demonstrated in the domestic cat (Felis catus). Additionally, embryos have been produced in vitro from oocytes matured in vitro after recovery from ex situ ovaries of both domestic and non-domestic cat species and domestic kittens have been born following transfer of these embryos. In vitro fertilization has been successful in at least one-third of wild cat species and kittens were born after transfer of Indian desert cat (Felis sylvestris ornata) embryos into a domestic cat and con-specific transfer of tiger (Panthera tigris) embryos. The domestic cat is not only a valuable model for development of in vitro techniques but may serve as a recipient of embryos from several species of small wild cats.


Descriptors: tigers, Panthera tigris, endangered species, populations of tiger prey, prey availability, species diversity, trade in animals, prey and predator dynamics, poaching effects on species and population numbers, Primorskii Krai, Lazovsky Zapovednik, Russia.


Descriptors: tigers, Panthera tigris altaica, conservation measures, cultivated land habitat, livestock predation, minimizing human/animal conflicts, scaring methods, chemical control, field testing, lithium chloride and red pepper preparations, physical control, Primorskii Krai, Khasan, Lazo and Olga districts, Russia.


Descriptors: Panthera tigris altaica, Siberian tigers, 65th Anniversary of the Reserve, historical information, conservation efforts, accomplishments, tiger population status, concerns for the future, review of popular accounts of encounters with tigers, Sikhote Alin Nature Reserve, Russia.

Subba Rao, Madireddi V. Conserving biodiversity in the species-rich forests of Andhra Pradesh in Eastern Ghats, India. Selbyana. 2000 December; 21(1-2): 52-59. ISSN: 0361-185X.

NAL call no.: QK1.S35

Descriptors: tigers, Panthera tigris, other threatened wildlife species, conservation measures, ecological communities,
current status of faunal groups, Eastern Ghats, India.

Descriptors: wild tigers, Panthera tigris, conservation measures and accommodations, list of nature reserves and national parks, natural history, population levels, photo identification of individuals, Rajasthan, Ranthambhore, India.

Tilson, Ronald; Nyhus, Philip; Jackson, Peter; Quigley, Howard; Hornocker, Maurice; Ginsberg, Joshua; Phemister, David; Sherman, Nancy; Seidensticker, John. Securing a Future for the World's Wild Tigers: Executive Summary. Year of the Tiger Conference. Tiger Information Center, c/o Minnesota Zoo, Apple Valley, MN, USA. 2000.
URL: http://www.5tigers.org/research/conferences/YOT/yotabs.htm
Descriptors: wild tigers, Panthera tigris, conservation concerns.

NAL call no.: SD1.A57
Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, wild populations, conservation measures, population survey techniques, methods, Rajaji National Park, Uttar Pradesh, India.

NAL call no.: QL737.U63R49 2000
Descriptors: Rhinoceros, Panthera tigris, tigers, endangered species, wildlife conservation.

Xiaochen, Yu; Endi, Zhang; Miquelle, Dale. Monitoring the tiger population in Heilongjiang province, China. Cat News. 2000 Autumn; 33: 3-4. ISSN: 1027-2992.
Descriptors: tigers, Panthera tigris altaica, endangered animals, wild populations, monitoring methods, update report, Heilongjiang, China.

Zhang, Endi; Schaller, George B; Li Zhi. Tigers in Tibet. Cat News. 2000 Autumn; 33: 5-6. ISSN: 1027-2992.
Descriptors: tigers, Panthera tigris corbetti, endangered species, wild animals, predation on livestock, livestock losses, remnant populations, human/animal conflicts, conservation implications, Medog County, Gedang, Xizang, Tibet.

1999

Descriptors: tigers, Panthera tigris tigris, endangered species status, current population status, conservation measures, recommendations to rescue the wild populations, Madhya Pradesh, India.

Descriptors: Sumatran tigers, Panthera tigris sumatrae, conservation measures, population levels, population density and distribution, Sumatran Tiger Project, status in lowland rainforest, Way Kambas National Park, Sumatra.

Descriptors: Amur tigers, Panthera tigris altaica, trade in animals and animal parts, conservation measures, population size, recovery following anti-poaching strategies, Russia.

Jackson, Peter. The tiger in human consciousness and its significance in crafting solutions for tiger conservation. In:

Descriptors: Tigers, Panthera tigris, human/animal bonds, mythology, folklore and religion, role of tigers in culture, desires to save tigers and impact on conservation solutions, conservation measures, Asia, Orient.


Descriptors: Tigers, Panthera tigris, ecological techniques, population densities, measurement techniques, sampling, counting methodology, accuracy of data, Asia, Orient.


Descriptors: Tigers, Panthera tigris, population of wild animals, population recovery, long term monitoring, monitoring effects on populations, conservation measures, intervention and population recovery effects of conservation intervention, lessons learned from Nagarhole National Park, India.


Descriptors: Tigers, Panthera tigris, predator/prey populations, human caused depletion of prey, implications for conservation of mammalian predators, implication for survival, Asia.


Descriptors: Tigers, Panthera tigris, phenotypic characteristics, size, body and skull measurements, color, markings, wild animals, individual variations, population distribution, phenotypic variation, conservation concerns, strategies based on variations, Palearctic regions.


Descriptors: Tigers, Panthera tigris, wild animals, ecodevelopment project, Global Environment Facility, conservation, habitat management, human/animal issues, India.


Descriptors: Amur tigers, Panthera tigris altaica, habitat protection, wild animal conservations, ecological studies for management decisions, political criteria, Primorski Krai and Khabarovski Krai, Russia.


Descriptors: Amur tigers, Panthera tigris altaica, spatial hierarchy analysis implications, prey/predator relationships, prey distribution and density, prey availability, factors of habitat tiger preference and selection, home range sizes, movement within home range, conservation implications, Sikhote Alin Zapovednik, Russia.

Descriptors: tigers, Panthera tigris, endangered status, national survey, population censuses, preliminary data, Cambodia.


Descriptors: tigers, Panthera trigris, comprehensive zoology, human and animal conflicts, habitat loss due to human activities, conservation overview, Sumatra, Indonesia.


Descriptors: tigers, Panthera tigris tigris, Project Tiger, nature reserves, wild animals, analysis of conservation program, endangered species, degraded forests, fragmentation, India.


Descriptors: tigers, Panthera tigris corbetti, endangered status, population levels, population declines, conservation, conservation measures, recommendations, habitat management, human/animal conflicts, habitat management, Cambodia, Laos, Malaysia, Peninsular Malaysia, Myanmar, Thailand, Vietnam, Indochina.

Ramakrishnan, Uma; Coss, Richard G.; Pelkey, Neil W. Tiger decline caused by the reduction of large ungulate prey: evidence from a study of leopard diets in southern India. Biological Conservation. 1999 July; 89(2): 113-120.

ISSN: 0006-3207.

NAL call no.: S900.B5

Descriptors: leopards, Panthera pardus, tigers, Panthera tigris, mammalian prey population availability, impacts on tiger and leopard populations, conservation implications, leopard diet study, India.


Descriptors: tigers, Panthera tigris, conservation of tigers in human dominated landscape, populations, reproductive potential, human/animal conflicts, wild animal populations, habitat fragmentation, prey/predator interactions, symposium, Asia.


Descriptors: tigers, Panthera tigris altaica, wild animals, conservation measures, reproductive potential, reproductive rate, litter size, population dynamics and growth rate, sex ratios, population density, implications, Sikhote Alin State Biosphere Zapovednik, Russia.


Descriptors: tigers, Panthera tigris, conservation measures, mammalian prey food needs, reproductive potential, reproductive productivity, resiliency profiles implications, evolutionary history, habitat distributions, emigration history, dispersal capabilities, feeding behavior, predatory capabilities, Asia, Orient.


Descriptors: tigers, Panthera tigris, conservation, human/animal conflicts, habitat uses by humans, problems, possible solutions, India.

Tilson, Ronald; Christie, Sarah. Effective tiger conservation requires cooperation: zoos as a support for wild tigers. In:

Descriptors: tigers, Panthera tigris, zoos and wildlife parks, discussion of role of zoos in species conservation, endangered species of animals, effective conservation of wild animals.

Tilson, Ronald. Sumatran tigers: from PHVA to conservation action. Cat News. 1999 Autumn; 31: 3-5. ISSN: 1027-2992.

Descriptors: Panthera tigris sumatrae, tigers, conservation measures of endangered tigers, current status, future prospects and requirements, Sumatra.


Descriptors: Panthera tigris, global review of conservation measures, popular account.


Descriptors: tigers, Panthera tigris amoyensis, endangered species, conservation measures, China.

Wikramanayake, Eric D.; Dinerstein, Eric; Robinson, John G.; Karanth, K. Ullas; Rabinowitz, Alan; Olson, David; Mathew, Thomas; Hedao, Prashant; Connor, Melissa; Hemley, Ginette; Bolze, Dorene. Indices for ranking tiger conservation units. In: John Seidensticker; Sarah Christie; Peter Jackson (Editors). Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes. Cambridge University Press; Cambridge, New York & Melbourne. 1999: 347-349. ISBN: 0521640571.

Descriptors: tigers, Panthera tigris, wild animals, identification of possible future conservation areas, priority setting, habitat identification for tigers, Palaearctic region, Orient, Asia.

1998


Descriptors: tigers, Panthera tigris, use of wild animal parts in traditional Asian medicines, illegal trade in tigers and tiger parts, conservation implications, suggestions for addressing the problems, enforcement regulations.


NAL call no.: 0521640571.

Descriptors: tigers, Panthera tigris tigris, Panthera tigris altaica, Panthera tigris corbetti, Panthera tigris sumatrae, significance of variation for conservation efforts.


Descriptors: tigers, Panthera tigris, conservation activities and objectives, Global Tiger Forum organization.
Fellowes, John; Hau, Billy; Lau, Michael. **Tigers in Guangxi?** *Cat News.* 1998 Autumn; 29: 5. ISSN: 1027-2992.


**NAL call no.:** QL737.C235P58 1998

**Descriptors:** tigers, *Panthera tigris*, endangered species, wildlife habitat and conservation, plant diversity, forest ecology. India.


**NAL call no.:** QL84.5A1T53

**Descriptors:** tigers, *Panthera tigris*, 150 human tiger victims/year, tiger fatalities due to animal’s old age, poaching, death from unnatural causes, environmental degradation, mangrove forest, hunting, water pollution, agrochemicals, salinity, turbidity, local people issues, wildlife conservation, ecological changes, management plans, Tiger Project, tiger populations, control, tiger behavior of man eating tigers, ecotourism, Bangladesh.


**Descriptors:** tigers, *Panthera tigris*, wild animals, population density measurements, photographic methods, captures and recaptures data, India.


**Descriptors:** tigers, *Panthera tigris altaica*, various topics, conservation, annotated bibliography, Russia.


**NAL call no.:** QH301.A43

**Descriptors:** Amur tigers, *Panthera tigris altaica*, impact of human activities, habitat destruction, population levels, population stability, ecological approaches for conservation measures, wild population, survey of achievements and perspectives, Russia.


**Descriptors:** tigers, *Panthera tigris*, status of animals in the wild, habitat losses, disturbance by humans, conservation efforts, biology, behaviors, habitats.


**Descriptors:** tigers, *Panthera tigris*, wild animals, endangered animals, overview of conservation projects, nature reserves, wildlife management, India.


**NAL call no.:** SD223.A3

**Descriptors:** Bengal tigers, *Panthera tigris*, precise conservation strategy, skills and techniques, principles of wildlife conservation, threatened species, appraisal of past management effects, databases, nature reserves, population dynamics, socio-economics, India.


**NAL call no.:** 99.8 IN2

**Descriptors:** deer, tigers, *Cervus duvaucelii branderi, Panthera tigris tigris, Cervus duvaucelii*, endangered species,
biodiversity, cooperation, species diversity, wildlife conservation, wild animals, nature reserves, Madhya, Pradesh, India.

Rawat, G.S. (Editor). Special Issue: Focus on Wildlife. Indian Forester. 1998, 124(10): 759-873. ISSN: 0019-4816. NAL call no.: 99.8 IN2
Descriptors: various aspects of wildlife in India, 14 papers, tiger, Panthera tigris, waterfowl, deer, biodiversity, monkeys, wildlife conservation, legislation, national parks, nature reserves, population, monitoring.

NAL call no.: QH75.A1A54
Descriptors: tigers, Panthera tigris, Panthera uncials, foot print identification method, population survey, identification techniques for individual animals.

NAL call no.: 99.8 IN2
Descriptors: tiger populations, Panthera tigris, management recommendations, endangered species, conservation measures, Mizoram, India.

NAL call no.: QH540.E55
Descriptors: animal distribution, predation on livestock, crop damage, village study, cultural attitudes toward animals, advantages of tiger reserve area, Sariska Tiger Reserve, Rajasthan, India.

Descriptors: Amur tigers, Panthera tigris altaica, wild animals, conservation measures, Primorski Krai, Russia.

NAL call no.: QH540.E55
Descriptors: tigers, Panthera tigris, livestock predation, wild predators, conservation areas, protected areas, human/animal interactions, problem identification and management, Saroska Tiger Reserve, Rajasthan, India.

Wikramanayake, Eric D.; Dinerstein, Eric; Robinson, John G.; Karanth, Ullas; Rabinowitz, Alan; Olson, David; Mathew, Thomas; Hedao, Prashant; Connor, Melissa; Hemley, Ginette; Bolze, Dorene. An ecology-based method for defining priorities for large mammal conservation: the tiger as case study. Conservation Biology. 1998 August; 12(4): 865-878. ISSN: 0888-8892. Note: In English with a Spanish summary.
Descriptors: tigers, Panthera tigris, ecology based decision making, conservation measures, conservation for wildlife preserves, ecological techniques, Palaeartic region, Orient.

Descriptors: tigers, Panthera tigris tigris, population numbers, distribution, home range, track surveys and analysis, population size, Jinzhu Tsangpo Valley, Xizang, Tibet.

1997

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, endangered wild animals, national parks, wildlife conservation, maintaining biodiversity, tropical forests, environmental protection.

Descriptive: Tigers, Panthera tigris, biology and life history, endangered status, conservation status and threats, disturbance by human activities, conservation measures, Orient.


Descriptive: Tigers, Panthera tigris, endangered species, wild population levels, disturbance by human activities, conservation threats, proposals for conservation measures, Dibrusaikhowa Sanctuary, Assam, India.


Descriptive: Tigers, Panthera tigris, endangered wild animals, elephants, Elephas maximus, Loxodonta Africana, trade in animals and animal parts, ivory tusks, problems for wild animal conservation, conservation measures, discussion of concern for the status of the species.


Descriptive: Tigers, Panthera tigris, endangered status, human/animal conflicts, impacts of humans on wild animal populations, illegal trade in animals and animal parts, worldwide review of the tiger's status, future threats, decline in prey availability, forest and woodland destruction, conservation significance.


NAL call no.: 99.8 IN2
Descriptive: Tigers, Panthera tigris, 22 species of larger mammals, Macaca silenus, Heosemys silivatica, forest terrapin, spatial distribution, wildlife conservation, rare and endangered wild animals, nature reserves, Chimmony Wildlife Sanctuary, Kerala, India.


NAL call no.: QL75.A1C5
Descriptive: Tigers, Panthera tigris, saving tigers in the wild, conservation measures, conservation strategies and theories, recommendations, conservation successes and failures.


NAL call no.: 475 SCI23
Descriptive: Asian lions, tigers, Panthera leo, Panthera tigris, endangered species, wildlife conservation, conservation strategies, ecosystems, genetics, India.


Descriptive: Tigers, Panthera tigris, wild animals, endangered species status, population levels, conservation measures, China.


NAL call no.: QL737.C23M43 1997
Descriptive: Tigers, endangered species, wildlife conservation, historical view.


NAL call no.: 410 OR9
Descriptive: Tigers, Panthera tigris sumatrae, illegal trade in animals and animal parts, trade prevention strategies, implications for conservation, conservation measures, Sumatra, Indonesia.

Qiu, Mingjiang; Zhang, Ming; Liu, Wulin. A preliminary study on the Bengal tiger (Panthera tigris tigris) in Namcha

Descriptors: tigers, *Panthera tigris tigris*, disturbance by humans, hunting pressures, conversion of land for agricultural uses, conservation needs, conservation efforts, Namcha Barwa, Xizang, Tibet.


NAL call no.: 99.8 I2


Sabewal, Vasant K. (*Saving the tiger: more money or less power?* *Conservation Biology.* 1997 June; 11(3): 815-817.

ISSN: 0888-8892

NAL call no.: QH75.A1C5


NAL call no.: SK357.A1W5

Descriptors: tigers, *Panthera tigris*, conservation programs, animal/human conflicts, ecological and social influences on conservation programs, conservation threats, protection program implications, conservation measures, current program status review, Asia, Orient.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, *Panthera tigrus*, flora, fauna, comprehensive zoology, ecological reserves, description, reserve importance, Pench Tiger Reserve, Madhya Pradesh, India.


NAL call no.: 410 OR9

Descriptors: tigers, *Panthera tigris amoyensis*, trade in animals and animal parts, possible extinction of a subspecies, conservation recommendations, number in wild and captivity, conservation significance.

Tilson, Ronald; Siswomartono, Dwitno; Manansang, Jansen; Brady, Gerald; Armstrong, Douglas; Traylor-Holzer, Kathy; Byers, Ann; Christie, Peter; Salfifi, Atje; Tumelaka, Ligaya; Christie, Sarah; Richardson, Douglas; Reddy, Suherti; Franklin, Neil; Nyhus, Philip. (*International co-operative efforts to save the Sumatran tiger Panthera tigris sumatrae.* *International Zoo Yearbook.* 1997; 35: 129-138. ISSN: 0074-9664.

NAL call no.: QL76.15

Descriptors: tigers, *Panthera tigris sumatrae*, conservation measures, wild and captive animal programs, international integration of various programs, Indonesia.


NAL call no.: 99.8 I2

Descriptors: *Panthera tigris*, tiger populations monitoring, field methods, nature reserves, wildlife conservation, Dudhwa National Park, Buxa Tiger Reserve, India.


Descriptors: tigers, *Panthera tigris altaica*, population levels, conservation measures, protections, conservation of a decreasing population of animals in the wild, Siberia, Russia.

1996

Armstrong, Douglas L.; Miller, R. Eric; Byers, Onnie; Brady, Gerald; Traylor Holzer, Kathy; Tilson, Ronald L. (*International cooperation with range country efforts to conserve tigers (Panthera tigris) and the veterinarian’s role.* *American
NAL call no.: QL84.5A1T53
Descriptors: tigers, Panthera tigris tigris, breeding in captivity, reproduction, reproductive behaviors, rearing observations and record keeping, Arignar Anna Zoological Park, Vandalur, Madras 48, Tamil Nadu, India.

NAL call no.: QL76.158
Descriptors: tigers, Panthera tigris, captive animals, zoos and wildlife parks conservation efforts, in-situ conservation projects, collaborations between Esso UK and London Zoo.

NAL call no.: 99.8 IN2
Descriptors: numerous species, Panthera tigris, Panthera pardus, Panthera leo persica, tigers, leopards, lions, rhinos, macaques, ungulates, elephants, birds, wildlife, food habits, crop depredation, human and animal casualties and injuries, captive breeding, sanctuaries, restoration, India.

ISSN: 1027-2992.
Descriptors: tigers, Panthera tigris, individual identification techniques, self-activated camera traps, unique facial and stripe patterns, problems with the method.

NAL call no.: QL737.C23I94 1996
Descriptors: tigers, Panthera tigris, endangered species, wildlife conservation, Asia.

Descriptors: Chinese tigers, Panthera tigris, release and relocation programs, reintroduction program, evaluation, critical comments, Heilongjiang, China.

NAL call no.: 99.8 IN2
Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, endangered wildlife, populations, possible in-breeding depressions, human encroachments, Similipal Tiger Reserve, Orissa, India.

Descriptors: tigers, Panthera tigris, overview, wildlife conservation measures, endangered species, discussion of the past efforts, possible future plans, India.

Descriptors: tigers, Panthera tigris tigris, endangered species, survival possibilities, conservation efforts, Ranthambhore National Park, Rajasthan, India.

Smirnov, Evgeny N.; Miquelle, Dale G. Population dynamics of the Amur tiger (Panthera tigris altaica) in Sikhote Alin


Descriptors: tigers, Panthera tigris altaica, nature reserves, population dynamics study, reproductive productivity, reproductive potential, estimates, population levels, population growth relationships, population dynamics, long term study, Primorski Krai, Sikhote Alin State Biosphere Reserve, Russia.


Descriptors: tigers, Panthera tigris, conservation, historical overview, conservation proposals, Asia.


Descriptors: Sumatran tigers, Panthera tigris sumatrae, endangered status of subspecies, conservation measures, field study, Sumatra, Indonesia.


Descriptors: tigers, Panthera tigris, wild population, forest and woodland conservation, coexistence with humans, distribution within habitat, ecological approach, Khabarovsk Territory, Russia.


Descriptors: panthers, Panthera pardus, tigers, Panthera tigris, wild dogs, Cuon alpinus, cattle predation, human casualties, Kerala, India.


Descriptors: tigers, Panthera tigris altaica, wild populations, disturbance by human activitives, population levels, population density, animal/human conflicts, Tumen River Basin, China.

**1995**


Descriptors: tigers, Panthera tigris, bears, use of animal parts and fluids in traditional medicine, medicine, significance for conservation, proposals regarding traditional uses.


Descriptors: tigers, Panthera tigris, wildlife conservation, Asia.


Descriptors: tigers, Panthera tigris, Ursidae, bears, Rhinocerotidae, traditional Chinese animal-based medicines, demand pressures on wildlife species, human/animal conflicts, conservation, China.
**NAL call no.:** QL76.5.46.A472  
**Descriptors:** tigers, *Panthera tigris*, endangered species, conservation measures, current wild populations, proposed future conservation actions.

**NAL call no.:** SD1.M8  
**Descriptors:** tigers, *Panthera tigris*, endangered species status, global efforts, conservation measures, distribution of subspecies, Global forum overview.

Pankaj, Khullar. (Editor). *Special Issue: Wildlife Conservation.* *Indian Forester.* 1995; 121(10): 867-973. **ISSN:** 0019-4816  
**Note:** In English with a Hindi summary.  
**NAL call no.:** 99.8 IN2  
**Descriptors:** tigers, *Panthera tigris*, endangered species conservation efforts, national parks and reserves, wild animal conservation management, wild population trends, historical review, Bandipur National Reserve, India.

**ISSN:** 0971-4022.  
**Descriptors:** tigers, *Panthera tigris*, wild populations, populations levels, censusing techniques, evaluation of methods, significance of studies, India.

**Note:** In English with a Hindi summary.  
**NAL call no.:** 99.8 IN2  
**Descriptors:** tigers, *Panthera tigris*, sex determination, field study, pug marks, sex rations, India.

**NAL call no.:** QL76.5.46.A472  
**Descriptors:** tigers, *Panthera tigris*, bears, trade in animals, CITES recommendations, conservation measures, world wide actions.

1994

**NAL call no.:** SD1.M8  
**Descriptors:** tigers, *Panthera tigris*, endangered species conservation efforts, national parks and reserves, wild animal conservation management, wild population trends, historical review, Bandipur National Reserve, India.

He, Xiaorui. *The recent distribution, status and countermeasures of the conservation of tigers (Panthera tigris corbetti) in Yunnan and Guangxi, China.* *Journal of Southwest Forestry College.* 1994 June; 14(2): 128-135. **ISSN:** 1003-7179. **Note:** In Chinese with a Chinese and English summary.  
**Descriptors:** tigers, *Panthera tigris corbetti*, endangered status, populations of wild animals, distributions in habitats, conservation measures, conservation recommendations, endangered status, population size, Guangxi Zhuang, Yunnan.

1993

**Descriptors:** Amur tigers, *Panthera tigris altaica*, endangered species, threats to survival in the wild forests and woodland, threats to conservation, logging, illegal trade in animals and animal parts, poaching, conservation relations, conservation measures, Heilongjiang, Jilin, Primorye and Khabarovsk Provinces, Russia.


**Descriptors:** tigers, *Panthera tigris*, life cycle, natural history, prey species, food capture, reproductive behavior and capacity, life cycle and development, behavior, conservation measures, recommendations, feeding and conservation, list of reserves, India.


**Descriptors:** tigers, *Felis tigris*, conservation, detailed accounts of conservationists, conservation measures, India.

**1980**

Food and Agriculture Organization of the United Nations. Regional Office for Asia and the Far East. **Tigerpaper** (Bangkok). ISSN: 1014-2789. Note: Description based on: Vol. 7(2) (Apr. 1980); title from cover.

NAL call no.: QL84.5.A1T53

**Descriptors:** tigers, periodical, journal of wildlife conservation, nature conservation, national parks and reserves, Asia.

**Genetics, Genetic Diversity**

Luo, Shu Jin; Kim, Jae Heup; Johnson, Warren E.; van der Walt, Joelle; Martenson, Janice; Yuhki, Naoya; Miquelle, Dale G.; Uphyrkina, Olga; Goodrich, John M.; Quigley, Howard B.; Tilson, Ronald; Brady, Gerald; Martelli, Paolo; Subramaniam, Vellayan; McDougal, Charles; Hean, Sun; Huang, Shi Qiang; Pan, Wenshi; Karanth, K. Ullas; Sunquist, Melvin; Smith, James L.D.; O'Brien, Stephen J. **Phylogeography and genetic ancestry of tigers (**Panthera tigris**).** *PLoS Biology.* 2004; 2(12): 2275-2293. eISSN: 1545-7885; ISSN: 1544-9173.

**URL:** http://www.plosbiology.org

NAL call no.: QH301.P56

**Descriptors:** various tiger subspecies, *Panthera tigris*, *Panthera tigris tigris*, *Panthera tigris altaica*, *Panthera tigris amoyensis*, *Panthera tigris corbetti*, *Panthera tigris jacksoni*, *Panthera tigris sumatrae*, species evolutionary history, methods to identify subspecies, vouchers specimens used, blood, skin, hair, skin biopsies, 134 individuals, 3 molecular markers, (1) 4.0 kb of mitochondrial DNA (mtDNA) sequence, (2) allele variation in the nuclear major histocompatibility complex class II DRB gene, and (3) composite nuclear microsatellite genotypes based on 30 loci, sub-species differences found, common ancestor.


NAL call no.: 410 Z724

**Descriptors:** *Panthera tigris*, tigers, history of the studbook, 7,500 individuals registered, 5 sub species, difficulties of maintenance, incomplete reports, releases to circus companies, safari parks and private owners affect completeness, 12 regional breeding programs, Tiger Global Strategy program, Leipzig Zoo.

Russello, Michael A.; Gladyshev, Eugene; Miquelle, Dale; Caccone, Adalgisa. **Potential genetic consequences of a recent bottleneck in the Amur tiger of the Russian far east.** *Conservation Genetics.* 2004; 5(5): 707-713. ISSN: 1566-0621.

**URL:** http://www.kluweronline.com/issn/1566-0621/contents
NAL call no.: QH75.A1C56

Descriptors: Amur tigers, Panthera tigris altaica, endangered species, genetic bottlenecks, patterns and genetic variation, mitochondrial DNA control region, fecal material sampling, 27 individuals, entire range sampling, far Eastern Russia, low levels of CR haplotype diversity, a single widespread haplotype, two rare variants, more diversity in the captive populations, discussion of potential genetic bias, potential role of captive programs in preserving remnant diversity.


Descriptors: Panthera tigris sumatrae, critically endangered, on the 2003 Red List of Threatened Animals, poaching threat for tiger bones used in traditional Asian medicines, Indonesia major supplier, Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), conservation, survey of tiger poaching and trade, 8 provinces surveyed, shops and dealer sources, claws, canines, bones, skins, killed by professional and semi-professional hunters, wire, cable leg hold traps, often coincidental killings, poaching has not declined, hunting deep in national parks, smuggling out of Sumatra to other Asian countries, Indonesian authorities need to increase enforcement efforts, implement laws banning trade in tiger parts and products, extinction near for these tigers.

2003


NAL call no.: SF774.J68

Descriptors: tissue analysis, humans, porcine, guinea pig, tiger, Panthera tigris, lion, Panthera leo, canine, equine, bovine, ovine, caprine, PCR, paraffin-embedded tissues, amplification of DNA techniques, proliferative cell nuclear antigen gene, PCNA, species comparison, gene conservation across species, possible internal control for PCR analysis in veterinary medicine, antigens, diagnostic techniques, exons, introns.


NAL call no.: 442.8 IN42

Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, deer, development and use of molecular markers, microsatellites, minisatellites, mitochondrial control region, cytochrome B, MHC loci, assessing genetic variation, semen profile of big cats, cryopreservation of semen, artificial insemination, literature review.


URL: http://www.kluweronline.com/issn/0960-3115/contents

NAL call no.: QH75.A1B562

Descriptors: tiger, Panthera tigris amoyensis, endangered species, DNA profiling, extraction, feces, DNA, DNA probes, distribution, China.

Zhang, Yu Guang; Li, Di Qiang; Rao, Li Qun; Xiao, Qi Ming; Liu, Dan. Identification of polymorphic microsatellite DNA loci and paternity testing of Amur tigers. Acta Zoologica Sinica. 2003 February; 49(1): 118-123. ISSN: 0001-7302.

Note: In Chinese with a Chinese and English summary

Descriptors: Amur tigers, Panthera tigris altaica, paternity testing, pedigree construction, blood and hair specimens, polymorphic microsatellite DNA loci, non-invasive DNA technology, Haerbin Tiger Park, China.

2002


NAL call no.: QH324.C7

Descriptors: Eld’s deer, Cervus eldi thamin, Sumatran tigers, Panthera tigris sumatrae, Przewalski’s horse, Equus przewalskii, conservation measures, genome resource databases, assisted reproductive techniques, cryo-technologies, sperm.
banks types, Wild Bank (material from wild individuals), Best Males (most genetically valuable when established), bank usage frequencies, in-breeding, gene diversity, issues over the long term.

Liao, Ming Juan; Zhu, Mu Yuan; Ye, Dan; Zhang, Zhi He; Zhang, An Ju; Shen, Fu Jun. [Cloning and analysis of the homology of the follicle-stimulating hormone and luteinizing hormone genes in Siberian tiger (Panthera tigris altaica)]. Acta Zoologica Sinica. 2002 December; 48(6): 783-789. ISSN 0001-7302. Note: In Chinese with a Chinese and English summary. NAL call no.: 410 AC87

Descriptors: Tigers, Panthera tigris altaica, humans, cattle, sheep, pigs, rats, mice, species comparison, 3 pairs of primers, FSH/LH common, FSH β and LH β cDNA sequences, tiger genes amplified by reverse transcript polymerase chain reaction, submitted to GenBank (Nos. AF408393, AF540937 and AF540935 respectively), homology, characteristics of tiger FSH and LH, aid in conservation due to possibilities of producing recombinant FSH and LH for artificial breeding technology.

GenBank DNA sequence information: Nos. AF408393, AF540937, AF540935.


2001


Descriptors: identification of remains of endangered animals and species, conservation, Formosan gem-faced civets, Panthera species, leopard cats, tigers, clouded leopards, lion, Formosan muntjacs, Formosan sika deers, Formosan sambars, Formosan serows, water buffalo, Formosan pangolins and Formosan macaques, control species used domestic cats, domestic dogs, domestic sheep, domestic cattle, domestic pigs, humans, heteroplasmy frequencies, species and individual diversity, cytochrome b gene usable for animal identification, genetic distances, Taiwan.

2000


Descriptors: Tigers, Panthera tigris tigris, endangered species, threatened populations, forest, fragmentation, habitat destruction, reduced gene flow, probability of in-breeding, nature reserves, population change, reviews, wildlife conservation and management, Nepal.


Descriptors: Mammals, tigers, Panthera tigris, Macaca silenus, Cervus eldi eldi, Trachypithecus johnii, Cercopithecidae, captive zoo animals, conservation of endangered species, animal breeding policies, India.


Descriptors: Tigers, Panthera tigris altaica, Panthera tigris sumatrae, Panthera tigris tigris, endangered species status, genetic diversity, molecular genetics, major histocompatibility class I locus variability, phylogenetic patterns, geographical structure, captive and wild populations, biochemical variation.


NAL call no.: QR360.A116

Descriptors: Bat-eared fox, Otocyon megalotis, a free-ranging honey badger, Mellivora capensis, six captive cheetahs, Acinonyx jubatus, a captive Siberian tiger, Panthera tigris altaica, free-ranging African wild Felis lybica, interspecies
disease transmission from dogs, nucleotide sequences, viral proteins, amino acid sequences, viral antigens, polymerase chain reaction.

**Abstract:** Infections with viruses of the feline parvovirus subgroup such as feline panleukopenia virus (FPV), mink enteritis virus (MEV) and canine parvovirus (CPV-2) [together with its new antigenic types (CPV-2a, CPV-2b)] have been reported from several wild carnivore species. To examine the susceptibility of different species to the various paroviruses and their antigenic types, samples from wild carnivores with acute parovirus infections were collected. Viral DNA was amplified, and subsequently analysed, from faeces or formalin-fixed small intestines from an orphaned bat-eared fox (*Otocyon megalotis*), a free-ranging honey badger (*Mellivora capensis*), six captive cheetahs (*Acinonyx jubatus*), a captive Siberian tiger (*Panthera tigris altaica*) and a free-ranging African wild cat (*Felis lybica*). Parovirus infection in bat-eared fox and honey badger was demonstrated for the first time. FPV-sequences were detected in tissues of the African wild cat and in faeces of one cheetah and the honey badger, whereas CPV-2b sequences were found in five cheetahs and the bat-eared fox. The Siberian tiger (from a German zoo) was infected with a CPV-type 2a virus. This distribution of feline parovirus antigenic types in captive large cats suggests an interspecies transmission from domestic dogs. CPV-2 sequences were not detected in any of the specimens and no sequences with features intermediate between FPV and CPV were found in any of the animals examined.

Wetton, Jon; Tsang, Carol; Roney, Chris; Spriggs, Adrian. Developing a DNA Test for the Identification of Tiger Bone. Forensic Science Service; Solihull. 2000. 56 pp.


1999

Poddar Sarkar, Mousumi; Brahmachary, R.L. Can free fatty acids in the tiger pheromone act as an individual finger print? Current Science (Bangalore) 1999 January; 76(2): 141-142. ISSN 0011-3891.

NAL call no.: 475 SCI23

Descriptors: tigers, *Panthera tigris*, pheromone lipids, free fatty acids profiles, genetic fingerprinting, methods, individual identification techniques.

Wentzel, Joelle; Stephens, J. Claiborne; Johnson, Warren; Menotti Raymond, Marilyn; Pecon Slattery, Jill; Yuhki, Naoya; Carrington, Mary; Quigley, Howard B.; Miquelle, Dale G.; Tilson, Ronald; Manansang, Jansen; Brady, Gerald; Zhi, Lu; Wenshi, Pan; Shi Qiang, Huang; Johnston, Leslie; Sunquist, Mel; Karanth, K. Ullas; O'Brien, Stephen J. Subspecies of tigers: molecular assessment using 'voucher specimens' of geographically traceable individuals. In: John Seidensticker; Sarah Christie; Peter Jackson (Editors) Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes. Cambridge University Press; Cambridge, New York & Melbourne. 1999: 40-49. ISBN: 0521640571.


1998

Cracraft, Joel; Feinstein, Julie; Vaughn, Jeffrey; Helm Bychowski, Kathleen. Sorting out tigers (*Panthera tigris*): mitochondrial sequences, nuclear inserts, systematics, and conservation genetics. Animal Conservation. 1998 May; 1(2): 139-150. ISSN: 1367-9430.

NAL call no.: QH75.A1A54


1997


NAL call no.: 475 SCI23

Captive Care, Husbandry, Breeding, and Behavior

2005


Descriptors: Royal Bengal tiger, Panthera tigris tigris, recapture of escaped tiger, immobilization with a combination of xylazine, ketamine, darting method, rescue operation protocols discussed, mental and logistical support, Tezpur, Assam.

2004


NAL call no.: SF601.J6

Descriptors: Panthera tigris altaica, Amur tigers, captive animals, anesthesia cocktails, xylazine-midazolam-ketamine and medetomidine-midazolam-ketamine, anesthetics, drug combinations, comparison study, safety and effectiveness, blood chemistry, blood gases, body temperature, cardiac output, hematology, hemoglobin, heart rate, effectiveness of immobilization, pharmacodynamics, respiration rate.


URL: http://www3.interscience.wiley.com/cgi-bin/abstract/109580439/ABSTRACT

NAL call no.: QL77.5.Z6

Descriptors: tigers, Panthera tigris, captive animals, behavior, physiology, feces, transport stress effects evaluated, simulated transport study, small transfer cages, physiological parameters measured, respiration rates, immune-reactive fecal cortisol response using radioimmunoassay, behavior, pre and post experiment behaviors, pacing, investigation, respiration rate, ear position, days of elevated cortisol levels, exposure leads to reduced responses.


NAL call no.: SF601.J6

Descriptors: reproductive management of zoo felids, porcine zona pellucids vaccine testing, safety testing, 27 captive felids, African lion, Panthera leo, Asian leopard, Panthera pardus, jaguar, Panthera onca, tiger, Panthera tigris, snow leopard, Panthera uncia, cougar, Felis concolor, Siberian lynx, Felis lynx, Canada lynx, Felis canadensis, serval, Felis serval, bobcat, Felis rufus, 15 facililies, 3 i.m. injections with Freunds complete and incomplete adjuvant, carbopol as adjuvant, behavioral signs of estrus, injection site swelling with FCA, increased irritability and aggression, all showed antibody production, folliculogenesis present in all treated animals, not inflammatory ovarian damage, contraceptive efficacy not specifically evaluated.


Descriptors: Panthera tigris, tigers, care in captivity, conservation of endangered species, significance of captive animal records.

McMahon, Ciaran; Cooper, Alice. Four sisters. Sumatran tiger cubs at Dublin Zoo. Rate 2004 December; 31(4): 3-8. ISSN: 0305-1218.

NAL call no.: QL77.5.R37
Descriptors: Panthera tigris sumatrae, zoo animals, tiger cubs, captive breeding, rearing records, raising cubs, Dublin Zoo, Republic of Ireland.


NAL call no.: 410 Z724
Descriptors: Panthera tigris, tigers, history of the studbook, 7,500 individuals registered, 5 sub species, difficulties of maintenance, incomplete reports, releases to circus companies, safari parks and private owners affect completeness, 12 regional breeding programs, Tiger Global Strategy program, Leipzig Zoo.


NAL call no.: SF601.J6
Descriptors: Panthera tigris tigris, Bengal tigers, Panthera tigris altaica, Siberian tigers, Panthera tigris tigris and Panthera tigris sumatrae cross, captive circus animals, 3 animal transport systems evaluation/compared: (1) freestanding cages on wheels winched or pushed into semi-trailer (2) cages in the trailer (3) weather-resistant units on flatbed rail or flatbed truck trailers, ventilation monitoring, temperature monitoring or ambient temperatures, body temperature, environmental insulation, relative humidity, carbon monoxide, ammonia, surveys, thermoregulation.


NAL call no.: 410 Z724
Descriptors: Siberian tigers, Panthera tigris altaica, captive zoo animals, socialization of cubs, parent-infant relationships, intact relationship with mother or father, rank order, social behaviors.

2003

Achenbach, Susanne. Ethologische Untersuchungen zur Haltung von Sumatra-Tigern (Panthera tigris sumatrae) im neuen Tiergarten Hagenbeck. [Ethologic studies on the keeping of Sumatran tigers (Panthera tigris sumatrae) in the new open-air tiger enclosure at the Heidelberg Zoo, Germany.] Zoologische Garten. 2003 Ma; 73(3): 165-176. ISSN: 0044-5169. Note: In German with a German and English summary.

NAL call no.: 410 Z724
Descriptors: Sumatran tigers, Panthera tigris sumatrae, zoo housing, more natural open air space, influence on behavior of enclosure size and design, environmental enrichment, 4 week behavioral observation after introduction, female adapted, male shows stereotypical movements, Heidelberg Zoo, Germany.


URL: http://www.interscience.wiley.com/jpages/0733-3188/

NAL call no.: QL77.5.Z6
Descriptors: Panthera leo, Panthera tigris, zoo animals, animal behavior, environmental enrichment, animal feeding, feeding behavior, predation, physical activity, stereotyped behavior, long term effects, fish, hunting behavior, live fish.


NAL call no.: QL876.B5
Descriptors: Siberian tiger, Panthera tigris altaica, gonadotropins, homologous with porcine, ovarian stimulation with purified porcine LH and FSH, effects on follicular, hormonal and immunogenic responses, retrieved oocytes to fertilize and cleave invitro, effects of thawing, cryopreservation, possible effective use for ovarian stimulation protocol development needs refinement.

Descriptors: tigers, Panthera tigris sumatrae, Vultur gryphus, captive animals, enriched housing environment, care in captivity, Welsh Mountain Zoo.


NAL call no.: SF996.15

Descriptors: tigers, Panthera tigris, leopards, Panthera pardus, Lynx lynx, Acinonyx jubatus, abnormalities, blood chemistry, cryptorchidism, diagnostic techniques, sperm motility, semen, spermatogenesis, electroejaculation, ejaculate volume, male fertility, reproductive disorders, steroid hormone testosterone, zoo animals, ultrasonography, Germany.

Lantos, Akos; Niemann, Stefan; Mezosi, Laszlo; Sos, Endre; Erdelyi, Karoly; David, Sandor; Parsons, Linda M.; Kubica, Tanja; Ruesch Gerdes, Sabine; Somoskovi, Akos. Pulmonary tuberculosis due to Mycobacterium bovis subsp. caprae in captive Siberian tiger. Emerging Infectious Diseases. 2003 November; 9(11): 1462-1464. ISSN: 1080-6040.

URL: http://www.cdc.gov/ncidod/EID/index.htm

NAL call no.: RA648.5.E46

Descriptors: Panthera tigris altaica, captive animals, pulmonary disease, Mycobacterium bovis subsp. caprae, diagnosis, tracheal aspiration, bronchoscopy, conventional and molecular tests, diagnostic tests, new disease record, case report.


Note: In Chinese with an English summary.

Descriptors: Amur tigers, Panthera tigris altaica, 1693 mating incidences, mating behavior, copulation, mating frequency, mating season duration of 4-8 days, daily periods, mounting duration times, Heilongjiang Amur Tiger Park, China.

Miller, Michele; Weber, Martha; Neiffer, Donald; Mangold, Barbara; Fontenot, Deidre; Stetter, Mark. Anesthetic induction of captive tigers (Panthera tigris) using a medetomidine ketamine combination. Journal of Zoo and Wildlife Medicine. 2003; 34(3): 307-308. ISSN: 1042-7260.

NAL call no.: SF601.J6

Descriptors: Panthera tigris, sedation, medetomidine-ketamine combination anaesthesia, repeated use, inductions rapid and smooth, atipamezole used for reversal, smooth and rapid recovery, technique evaluation.


NAL call no.: QL750.A6

Descriptors: tigers, Panthera tigris, circus animals, transport effects, physical activity monitoring, behavior, videotaping of individually caged tigers, group caging, environmental conditions, body temperature monitoring, Texas.


NAL call no.: QL84.5.A1T53

Descriptors: tigers, Panthera tigris albicolor, captive female, number of cubs, litter size, captive breeding and rearing records, Hanoi Zoo, Vietnam.


Descriptors: Panthera tigris, captive animals, possible conservation value, discussion of pros and cons.


NAL call no.: QL77.5.Z6

Descriptors: Panthera tigris, captive animals, attacks on humans, global assessment of attacks, implication for private ownership, dangers to owners and handlers, dangers for the public, United States.


Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, deer, development and use of molecular markers, microsatellites, minisatellites, mitochondrial control region, cytochrome b, MHC loci, assessing genetic variation, semen profile of big cats, cryopreservation of semen, artificial insemination, literature review.


Descriptors: Amur tigers, Panthera tigris altaica, captive animals, sex differences in behavior and activities, activity patterns, time budgets.


Descriptors: tigers, Panthera tigris altaica, captive animals, behaviors, time budget, activity patterns.


Descriptors: tigers, Panthera tigris sumatrae, captive animals, age, sex differences in behavior and activities, activity patterns.


Descriptors: tigers, Panthera tigris sumatrae, captive male, diet regimen, effect of feeding enrichment, behavioral changes.


Descriptors: tigers, Panthera tigris amoyensis, captive animals, breeding programs, population genetics, China.


Descriptors: Panthera tigris sumatrae, Panthera tigris altaica, captive animals, Sumatran and Siberian tigers, monkeys, tapirs, babirusa, orangutans, siamangs, *Babirousa babirousa*, *Tapirus indicus*, *Hylobates syndactylus*, *Pongo pygmaeus*, activity levels, stereotypies, abnormal behaviors, natural behaviors, space utilization, animal behavior monitoring, behavioral changes, training of animals, zoo animals, movement between exhibits and holding areas, Louisville Zoological Garden, Kentucky.

Zhang, Yu Guang; Li, Di Qiang; Rao, Li Qun; Xiao, Qi Ming; Liu, Dan. Identification of polymorphic microsatellite DNA loci and paternity testing of Amur tigers. *Acta Zoologica Sinica*. 2003 Feb; 49(1): 118-123. ISSN: 0001-7302. Note: In Chinese with a Chinese and English summary.

Descriptors: Amur tigers, Panthera tigris altaica, paternity testing, pedigree construction, blood and hair specimens, polymorphic microsatellite DNA loci, non-invasive DNA technology, Haerbin Tiger Park, China.

2002


Descriptors: tigers, Panthera tigris tigris, captive animals, foot lesions due to cage flooring, treatment, acepromazine, fluoxetine, drug combinations, vitamin E.

Bashaw, Meredith J.; Maple, Terry L.  Signs fail to increase zoo visitors' ability to see tigers.  Curator.  2002 July; 44(3): 297-304.  ISSN: 0011-3069.

Descriptors: Panthera tigris, tigers, captive animal exhibits, signage utility, enabling visitors to see animals, zoos and wildlife parks.


NAL call no.: QP251.M64

Descriptors: Siberian tigers, Panthera tigris altaica, assisted reproduction techniques, artificial insemination, cleavage, ultra structure of cumulus oocyte complexes, in vitro culture and fertilized zygotes and embryos, embryonic development, hormones, FSH, LH, meiosis, oocyte maturation, reproduction.


ISSN: 0011-2240.

NAL call no.: QH324.C7

Descriptors: Eld's deer, Cervus eldi thamin, Sumatran tigers, Panthera tigris sumatrae, Przewalski's horse, Equus przewalskii, conservation measures, genome resource databases, assisted reproductive techniques, cryo-technologies, sperm banks types, Wild Bank (material from wild individuals), Best Males (most genetically valuable when established), bank usage frequencies, in-breeding, gene diversity, issues over the long term.


ISSN: 0733-3188.

NAL call no.: QL77.5.Z6

Descriptors: captive zoo tigers, Panthera tigris altaica, animal behavior, zoo animals, gender differences, effects of changes on stereotyped behavior, frustration behaviors, animal feeding methods, foraging, physical activity, males, females, locomotion, single vs. group housing, pair housing, animal well being, animal care, pacing behavior, frustrated appetitive, foraging behavior, electrically controlled feeding boxes, active opening by tigers, Switzerland.


ISSN: 0971-6378.

Descriptors: tigers, Panthera tigris bengalensis, captive animals, animal welfare, transport concerns, crate design, neuroleptics, vehicles, Mysore Zoo to Thiruvananthapuram Zoo.


ISSN: 0254-5853.

Note: In Chinese with an English summary.

NAL call no.: QL1.T58

Descriptors: tigers, Panthera tigris altaica, males and females, sex differences, animal behavior, feeding, energy budgets, time budgets, activity rhythms, sleeping, resting, moving, feeding behavior, physical activity, zoo animals, Harbin Zoo, Heilongjiang, China.

Liu, Zhen Sheng; Li, Feng; Teng, Li Wei; Zhou, Xiao Yu.  Time budget of semifree-ranging Amur tigers (Panthera tigris altaica).  Zoological Research.  2002 October; 23(5): 389-393.

ISSN: 0254-5853.

Note: In Chinese with a Chinese and English summary.

NAL call no.: QL1.T58

Descriptors: tigers, Panthera tigris altaica, semi-free animals, activity patterns, time budget, behavior observations, behavior patterns, observations, Amur Tiger Park, Heilongjiang, China.


ISSN: 0733-3188.

URL: http://www.interscience.wiley.com/jpages/0733-3188/

NAL call no.: QL77.5.Z6

Descriptors: leopards, lions, pantherauncia, feeding behavior, carcasses, abnormal behavior, zoo animals, enrichment, stereotyped behavior, environmental enrichment.
Mueller, Peter. <i>International Tiger Studbook</i>. Zoologischer Garten; Leipzig. 2002. 162 pp. <b>Descriptors:</b> tigers, <i>Panthera tigris</i>, international studbook, breeding records, gene pool, lineages.<br><br>Nath, I.; Bose, V.S.C.; Ray, A.K. <i>Anaesthetic management of tigers (Panthera tigris) for semen collection</i>. <i>Indian Veterinary Journal</i>. 2002; 79(10): 1030-1031. <b>ISSN:</b> 0019-6479.<br><br>**NAL call no.:** 41.8 IN2<br><br><b>Descriptors:</b> tigers, <i>Panthera tigris</i>, 10 male captive animals, semen collection, anesthetic management, immobilization, electroejaculation, xylazine and ketamine via blow gun, induction time was about 12 minutes, vital signs monitoring, recovery time 4-5 hours.<br><br>Preece, Rod. <i>Awe for the Tiger, Love for the Lamb: A Chronicle of Sensibility to Animals</i>. UBC Press; Vancouver. 2002. xvii, 413 pp. <b>ISBN:</b> 0774808969.<br><br>**NAL call no.:** HV4708.A93 2002<br><br><b>Descriptors:</b> animal welfare, moral and ethical aspects, human-animal relationships, animals and civilization, attitudes regarding the use and caring for animals, animal exploitation.<br><br>Rietschel, W. <i>Haltung von Baren und Grosskatzen in Zoo und Zirkus</i>. [Keeping of bears and big cats in zoo and circus]. <i>Deutsche Tierarztliche Wochenschrift</i>. 2002; 109(3): 120-123. <b>ISSN:</b> 0341-6593. <b>Note:</b> In German with an English summary.<br><br>**NAL call no.:** 41.8 D482<br><br><b>Descriptors:</b> cats, tigers, <i>Panthera tigris</i>, lions, bears, Ursidae, animal welfare concerns, captive animals, circuses, zoos, Germany.<br><br>Shin, Nam Shik; Kwon, Soo Whan; Kim, Yang Beom. [<i>Retrospective survey on the mortality of exotic felids at Everland Zoological Gardens (1976-2001)</i>]. <i>Journal of Veterinary Clinics</i>. 2002; 19(2): 211-214. <b>ISSN:</b> 1598-298X. <b>Note:</b> In Korean with an English summary.<br><br>**Descriptors:** <i>Panthera</i> species, jaguars, leopards, lions, tigers, <i>Panthera tigris</i>, 154 exotic felid mortalities, more younger animals died than adults, sex differences, trauma, winter seasonal effects, digestive disorders, postmortem examinations, Everland Zoological Gardens, Korean Republic.<br><br>Srivastav, Anupam; Chakrabarty, Bipul. <i>Seasonal distribution of deaths of tigers (Panthera tigris) in Indian zoos</i>. <i>Zoos' Print Journal</i> 2002 March; 17(3): 741-743.<br><br>**Descriptors:** tigers, <i>Panthera tigris</i>, captive animals, mortality rates, seasonal effects, causes, prevention measures, India.<br><br>Teng, Li Wei; Li, Feng; Liu, Zhen Sheng; Zhang, Qing Jing. [<i>Behaviour and activity rhythm of captive Amur tigers in spring</i>]. <i>Journal of Northeast Forestry University</i>. 2002; 30(6): 78-80. <b>ISSN:</b> 1000-5382. <b>Note:</b> In Chinese with an English summary.<br><br>**NAL call no.:** SD221.J67<br><br><b>Descriptors:** Amur tigers, <i>Panthera tigris altaica</i>, captive animals, physical activity monitoring, seasonal Spring behaviors, sleeping, movement, resting, eating, drinking, urinating, shifting, grooming, sniffing, playing, standing, impacts of people on behavior, Harbin Zoo, China.<br><br>2001<br><br>Chen, Guo Liang; Li, Zhong Kui; Song, Pei Lin; Jin, Kun; Shen, Qing Yong. [<i>The current situation and the pedigree analysis of south China tiger</i>]. <i>Chinese Journal of Zoology</i>. 2001 August 20; 36(4): 45-48. <b>ISSN:</b> 0250-3263 <b>Note:</b> In Chinese with an English and Chinese summary.<br><br>**Descriptors:** tigers, <i>Panthera tigris amoyensis</i>, captive status, endangered species status, breeding, pedigree analysis, China.
Abstract: Applying biological engineering principles to animal habitat design represents a paradigm shift from traditional approaches by virtue of placing the biology of the animal(s) at the center of the design process and designing a habitat around the animal(s). The objective of this article is to detail this paradigm shift, first by providing a detailed discussion on the design of enriched environments for captive animals, and then through a case study involving the transformation of a tiger cage into a tiger habitat. All habitat design elements are created based on the physical and behavioral needs of the animal.


NAL call no.: SF605.A4

Descriptors: tiger, *Panthera tigris*, captive animal, attack on keeper, veterinary perspectives, zoos and wildlife parks, workplace hazards.


Descriptors: tigers, *Panthera tigris*, captive animal, birth of albino cubs, breeding and rearing records, Lucknow Zoo, Uttar Pradesh, India.


Descriptors: tigers, *Panthera tigris*, captive animals, caging environment, housing techniques, air conditioning system design and installation, comfortable quarters, zoos.


NAL call no.: SF601.J6

Descriptors: *Panthera* spp, tigers, leopards, lions, jungle cats, servals, *Lynx lynx*, *Toxoplasma gondii*, captive animals, serological survey, titres found in 64.9% of animals, Brazilian zoo.


Descriptors: tiger, *Panthera tigris*, *Spirocerca lupi* infection, anorexia, dullness, frequent vomiting, case report, medical treatment, pyramidal paresis, zoo animals, Maharajbag Zoo in Maharashtra, India


NAL call no.: SF996.15

Descriptors: Amur tigers, *Panthera tigris*, captive animals, private animal collection, clinical symptoms, conjunctival smears, antibody titers, distemper virus as probable cause, case report.

2000

NAL call no.: 513 B63

Descriptors: tigers, Panthera tigris, captive animals, longevity in captivity.


Descriptors: mammals, tigers, Panthera tigris, Macaca silenus, Cervus eldi eldi, Trachypithecus johnii, Cercopithecidae, captive zoo animals, conservation of endangered species, animal breeding policies, India.

Bashaw, Meredith; Bloomsmith, Mollie; Maple, Terry; Marr, Jackson. Changes to the Zoo Atlanta visitor experience: effects of feeding enrichment and environmental variables on lion and tiger behavior. American Zoo and Aquarium Association Annual Conference Proceedings. 2000; 2000: 197-200.

NAL call no.: QL76.5.U6A472

Descriptors: lions, Panthera leo, tigers, Panthera tigris sumatrae, captive animals, care, handling, ways of feeding, environmental enrichment, feeding behavior, visitor experiences, zoos and wildlife parks, Zoo Atlanta, Georgia, United States.


NAL call no.: SF601.J6

Descriptors: 9 year old Siberian tigress, Panthera tigris altaica, artificial insemination, equine and human gonadotropins, ovarian follicles, ovulation, techniques, procedures, electro-ejaculation of male for sperm, full term pregnancy, 3 normal cubs were born.


NAL call no.: 41.8 SO8

Descriptors: captive cheetahs, Acinonyx jubatus, gastritis, vomiting, weight loss, Helicobacter spp., viviparous nematode Ollulanus tricuspis, oxendazole and pyrantel embonate treatment resulted in clinical improvement, parasite also found in captive Panthera species, lions, tigers, wild cougars, wild tigers.


Note: Kuratorium fur Technik und Bauwesen in der Landwirtschaft e.V. (KTBL); Darmstadt; Germany.

In German with an English summary.

Descriptors: tigers, Panthera tigris altaica, abnormal behavior, feeding, captive animals, environmental enrichment, stereotypical behavior, pacing, captive zoo animals.


Descriptors: animal care, behavior, single case analysis, statistics, animal welfare, captivity, feeding enrichment, stereotypic behavior, meeting abstract.


NAL call no.: SF601.J6

Descriptors: tigers, Panthera tigris tigris, captive zoo animal, back injury, intervertebral discs, case report, clinical aspects, surgical treatment, South Africa.


NAL call no.: QP251.A1T5

Descriptors: domestic cat model, Felis catus, tiger, Panthera tigris, Indian desert cat, Felis sylvestris ornata, endangered cats, Felidae, oocytes, in vitro fertilization, embryo culture, embryo transfer, cryopreservation, assisted reproduction techniques, captive breeding program, literature reviews.

Abstract: Most of the 36 species of wild cats are classified as threatened, vulnerable or endangered due to poaching and habitat loss. The important role of assisted reproduction techniques (ART) as part of a multifaceted captive breeding program for selected wild cat species is gradually gaining acceptance. This recognition is a result of the progress made during the last decade in which the feasibility of oocyte recovery from gonadotropin-treated females, in vitro fertilization, embryo cryopreservation and embryo transfer (ET) was demonstrated in the domestic cat (Felis catus). Additionally, embryos have been produced in vitro from oocytes matured in vitro after recovery from ex situ ovaries of both domestic and non-domestic cat species and domestic kittens have been born following transfer of these embryos. In vitro fertilization has been successful in at least one-third of wild cat species and kittens were born after transfer of Indian desert cat (Felis sylvestris ornata) embryos into a domestic cat and con-specific transfer of tiger (Panthera tigris) embryos. The domestic cat is not only a valuable model for development of in vitro techniques but may serve as a recipient of embryos from several species of small wild cats.

NAL call no.: QL76.5.U5A472
Descriptors: captive animals including tigers, Panthera species, comprehensive zooology, housing and care, environmental enrichment topics, zoos and wildlife parks, United States.

Descriptors: tigers, Panthera, captive animals, Trypanosoma, trypanosomiasis, zoo animal, India.

1999

Larsen, R. Scott; Carpenter, James W. Suspected vaccine- and/or dart-associated fibrosarcoma in a tiger (Panthera tigris). Erkrankungen der Zootiere. 1999; 39: 401-404. ISSN: 0138-5003. Note: Also cited as Schriftenreihe aus dem Institut fur Zoo und Wildtierforschung, Nr. 3. Note: In German with an English and German summary.
NAL call no.: SF996.15
Descriptors: tigers, Panthera tigris, captive zoo animal, cancer, Grade III fibrosarcoma, treatment techniques, histopathology, possible vaccine and/or dart related disease, injuries, case report.

NAL call no.: QL76.5.U6A472
Descriptors: tigers, Panthera tigris altaica, captive animals, artificial insemination, artificial insemination protocol, vasectomized male, effects on female hormones, estradiol and progesteragen levels, reproductive behavior relations, ovaries, estrous cycle.

NAL call no.: QL84.5.A1T53
Descriptors: tigers, Panthera tigris, captive animals, umbilical hernia, surgical repair, ketamine hydrochloride immobilization, Mysore Zoo, Karnataka, India.

NAL call no.: 41.8 V641
Descriptors: Panthera species, tigers, leopards, feline herpesvirus, restriction endonuclease analysis, captive zoo animals, Italy.

normal values, zoo animals, India.


Descriptors: captive animals, Panthera tigris, tigers, Panthera pardus, leopards, blood serum, blood chemistry, normal values, phosphorus, P, calcium, Ca, zoo animals, India.


Descriptors: tigers, Panthera tigris, zoos and wildlife parks, discussion of role of zoos in species conservation, endangered species of animals, effective conservation of wild animals.


Descriptors: lentivirus, Felis concolor, puma, tigers, Panthera tigris, lions, Panthera leo, leopard, Neofelis nebulosa, Lynx lynx, bob cat, Lynx rufus, Chinese leopard cat, Felis p. bengalensis, ocelot, Leopardus pardalis, feline immunodeficiency virus, diagnosis, ELISA kit, immunofluorescence assay, Western blot, testing of commercial kit, suitable diagnostic technique, disease prevalence, Taiwan.

1998


Descriptors: tigers, Panthera tigris altaica, zoo animals, case report, peritonitis, Actinomyces, Korea.


NAL call no.: QRI.M57

Descriptors: lions, Panthera leo, tigers, Panthera tigris, calicivirus, viral diseases, prevention, inactivated vaccines, antibody response, vaccination, captive zoo animals, Japan.


Descriptors: tigers, Panthera tigris sumatrae, captive breeding, rearing young animals, rearing strategies, rearing record keeping, captive animals, zoos, Ueno Zoo, Honshu, Japan.


NAL call no.: 475 SCI23

Descriptors: lions, Panthera leo persica, tigers, Panthera tigris tigris, semen collection, sperm characteristics, motility parameters, computerized motility analysis, methodologies, cryopreservation of semen, semen collection.


NAL call no.: SF810.A316

Descriptors: tigers, Panthera tigris, captive animal, case study, Diphyllobothrium latum, helmenthic parasites, identified from duodenum and jejunum, post mortem diagnosis, Nehru Zoological Park, Hyderabad, India.


NAL call no.: 41.8 P27
Environmental factors play a critical role in determining the environmental enrichment for felids and encourage them to achieve a more complete behavioral repertoire. Enclosure substrates and furnishings and the techniques used for offering food to captive cats all influence their psychological well-being. This paper discusses some of the common misconceptions about cats in captivity and presents information about beneficial changes that have already been made in some institutions.

NAL call no.: QL76.15
Descriptors: large cats, environmental enrichment, captive environments, social structure, enclosure design, husbandry style, positive-reinforcement training, diet and the provision of novel objects. Abstract: Environmental factors play a critical role in determining the behavioral and physiological responses of animals to captivity. Understanding these responses in order to establish new and improved techniques of enclosure design and animal husbandry is integral to environmental enrichment. This paper describes an integrated approach to providing optimal captive environments for felids and includes an evaluation of social structure, enclosure design, husbandry style, positive-reinforcement training, diet and the provision of novel objects.
Information resources on tigers, Panthera tigris: natural history, ecology, conservation, biology, and captive care

Descriptors: tigers, Panthera tigris, captive zoo animals, congenital hernia, surgical correction, case report.

Valentin, A., Kuntze, A., Tackmann, K.; Lutz, H. Fuhrte FIV-Infektion bei Tigern (Panthera tigris) zu einem erhöhten Krankheitsrisiko? [Does FIV-infection in tigers (Panthera tigris) lead to a higher risk of illness.]

Descriptors: tigers, Panthera tigris, captive zoo animals, opportunistic infections, feline immunodeficiency virus effects for other diseases, Germany.

Walzer, C. From Rilke to enrichment: strategies for felids at the Salzburg Zoo. Erkrankungen Der Zootiere.

Descriptors: Felidae, zoos and wildlife parks, care in captivity, environmental and behavioral enrichment strategies, Austria.

1996

Basavaraju, H.; Asaithambi, P. Breeding of Indian tiger (Panthera tigris tigris) at Arignar Anna Zoological Park, Vandalur, Madras-48. Tigerpaper (Bangkok).

Descriptors: tigers, Panthera tigris tigris, breeding in captivity, reproduction, reproductive behaviors, rearing observations and record keeping, Arignar Anna Zoological Park, Vandalur, Madras 48, Tamil Nadu, India.


Descriptors: tigers, Panthera tigris, captive animals, zoos and wildlife parks, conservation efforts, in-situ conservation projects, collaborations between UK Esso and London Zoo.

Exner, C.; Unshelm, J. Haltungsansprüche von Raubkatzen - Gehegegestaltung und ihre Tierschutzrelevanz. [Environmental requirements of large species of Felidae in zoos. Welfare aspects of cage construction.]

Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, Acinonyx jubatus, animal care, captive animal housing, environmental aspects, Germany.


Descriptors: numerous species, Panthera tigris, Panthera pardus, Panthera leo persica, tigers, leopards, lions, rhinos, macaques, ungulates, elephants, birds, wildlife, food habits, crop depredation, human and animal casualties and injuries, captive breeding, sanctuaries, restoration, India.


Descriptors: 31 captive wild felids, 17 tigers, Panthera tigris, 7 jaguars, Panthera onca, 2 lions, Panthera leo, 2 cougars, Felis concolor, leopard, Panthera pardus, 2 jungle cats, Felis chaus, clinical and historical records, mammary gland neoplasia, cribiform, solid, cyst with papillary and adenocarcinoma patterns, histopathology, metastases, depressed behavior, ventral mass, visible ulcers, anemia, neutrophilia, hypercalcemia, azotemia, implants with melengestrol acetate (MGA) impregnated silastic devices, risk factor of progestin exposure, contraceptive effects.


Descriptors: tigers, Panthera tigris, Gorilla gorilla, captive animals, zoos and wildlife parks, new exhibit, exhibit design, zoo housing, Ueno Zoo, Japan.


Descriptors: captive tiger, Panthera tigris, protozoal infections, Cytauxzoon, fatal infections, post mortem, histopathology, case report, Germany.


Descriptors: tigers, Panthera tigris, captive zoo animal, wild animals, neoplasm, pathology, hemangiosarcoma, case report, Korea Republic.


Descriptors: tigers, Panthera tigris, captive animals, surgery, birth complication, parturition, pyometra, case report, infection.


NAL call no.: SF604.V485

Descriptors: 15 different species, lions, Panthera leo, Panthera tigris, tigers, wolves, panda, bears, deer, zebras, orangutans, rhinos, pessaries, coyotes, etc., serum survey, Leptospira interrogans, serovars, icterohaemorrhagiae, canicola, pyrogenes, hebdomalidis, Pomona, grippotyphosa, autumnalis, Panama, Chapultepec zoo, Mexico City.


Descriptors: tigers, Panthera tigris, zoo enclosures and housing design, housing techniques, zoos and wildlife parks, Nandankanan Zoological Park, enclosure design, Orissa, India.


Descriptors: Panthera tigris, tigers, Panthera pardus, leopards, Panthera leo, lions, dogs, captive zoo animals, parasites, helminthes, helminthoses, Vietnam.


Descriptors: Bengal tiger, Panthera tigris, hair loss, hair licking, hematology profile, urine chemistries, enlarged kidneys, edema, ultrasonic diagnosis, nephritis, Beijing zoo, China.
Yepez-Mulia, L.; Arriaga, C.; Pena, M.A.; Gual, F.; Ortega-Pieres, G.  
Serologic survey of trichinellosis in wild mammals kept in a Mexico City zoo.  
_Veterinary Parasitology_. 1996; 67(3-4): 237-246.  ISSN: 0304-4017. 
NAL call no.: SF810.V4 
**Descriptors:** captive animals, _Thalarchos maritimus_, wolves, _Vulpes cinereoauregenteus_, coyotes, jaguars, _Panthera leo_, lions, _Panthera tigris_, tigers, _Panthera pardus_, leopards, _Lynx rufus_, _Felis concolor_, ocelots, _Felis yagouraroudi_, _Trichinella_, infections of carnivores, serological survey, seroprevalence of trichinosis, ELISA, Western blotting techniques, helminthes, Chapultepec Zoo, Mexico.

Zhang, En Zhu; Ben, Ya Hua; Che, Gui Cui. 
[Diagnosis and therapy of suspected calicivirus infection in tigers and lions.]
**Descriptors:** _Panthera leo_, lions, _Panthera tigris_, tigers, _Panthera pardus_, leopards, viral disease, captive zoo animals, China.

1995

Bhaskara Rao, T.; Balarama Raju, P.; Hararama Das, J.; Hafeez, M. 
Some observations on an outbreak of surra in circus tigers.  
NAL call no.: 41.8 IN2 
**Descriptors:** tigers, _Panthera tigris_, _Trypanosoma evansi_, protozoan parasites, mammalian hosts, captive circus animals, surra outbreak, epidemiology, histopathology, blood smear diagnosis, protozoan infection, trypanosomiasis, drug therapy treatment, diminazene, glucose, vitamin B supplement, trimethoprim sulfadiazine.

Carney, E.L. 
The greatest show on earth.  
_Iowa State University Veterinarian_. 1995; 57(2): 53-54.  ISSN: 0099-5851. 
NAL call no.: 41.8 V6425 
**Descriptors:** _Panthera leo_, lions, _Panthera tigris_, tigers, horses, buffalo, dogs, elephants, steers, training, circus animals, anthrozoology.

Chanda, S.K.; Mohapatra, H.K.; Parhi, N.K.; Parida, S. 
Nodular lesions on the intestine of a tiger (_Panthera tigris_) - a case report.  
NAL call no.: 41.8 IN2 
**Descriptors:** tigers, _Panthera tigris_, captive animals, nodular intestinal lesions, parasitic nematodes, _Galonchus perniciosus_, clinical picture, histopathology, case report.

Graham, L.H.; Goodrowe, K.L.; Raeside, J.I.; Liptrap, R.M. 
Non-invasive monitoring of ovarian function in several felid species by measurement of fecal estradiol-17 beta and progestins.  
NAL call no.: QL77.5.Z6 
**Descriptors:** cats, _Panthera tigris_, tigers, _Panthera leo_, lions, _Panthera pardus_, leopards, _Acinonyx jubatus_, _Felis lynx_, estradiol, ovulation, HPLC progesterone, radioimmunoassay, fecal sampling, ovarian functioning, non-invasive techniques, zoological gardens.

Hancocks, David. 
_Lions and tigers and bears, oh no!_ In: Bryan G. Norton; Michael Hutchins; Elizabeth F. Stevens; Terry L. Maple (Editors).  
NAL call no.: SF408.3.E84 
**Descriptors:** tigers, _Panthera tigris_, threatened and endangered species, captive animals, ethics keeping captive animals, comprehensive review, role of zoos and wildlife parks, discussion and recommendations, conservation measures, history, concepts and challenges, review and discussion.

Ramachandraiah, K.; Mohan-Reddy, A.R.; Chari, P.V.; Padmavathi, G. 
Treatment of trypanosomiasis in a male tiger - a case report.  
NAL call no.: SF1.53 
**Descriptors:** tiger, _Panthera tigris_, male circus animal, clinical picture, blood and fecal sampling, trypanosome parasites, diagnosis, trypanosomiasis, _Trypanosoma evansi_, diminazene, quinapyramine, antiprotozoal agents drug therapy, prophylaxis, Andhra Pradesh, India.

1994


Descriptors: tigers, *Panthera tigris corbetti*, endangered subspecies, captive animal, husbandry, breeding programs, care in captivity, Cincinnati Zoo, Ohio.


Descriptors: tigers, *Panthera tigris altaica*, hepatitis viral disease, occurrence, treatment, zoo flooding, contaminated water, Blank Park Zoo, Des Moines, Iowa.

1992


Descriptors: tigers, *Panthera tigris sumatrae*, endangered species, breeding animals, captive animals, Europe.

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**Physiology, Anatomy, Structure, and Reproduction**

2005


Descriptors: *Panthera tigris*, lactating tigress, color of fur around teats, fur and skin changes in lactation.

2004

Anton, Mauricio; Salesa, Manuel J.; Pastor, Juan Francisco; Sanchez, Israel M.; Fraile, Susana; Morales, Jorge. Implications of the mastoid anatomy of larger extant felids for the evolution and predatory behaviour of sabretoothed cats (Mammalia, Carnivora, Felidae). *Zoological Journal of the Linnean Society.* 2004 February; 140(2): 207-221.

Descriptors: Machairodontinae, evolution of fossil taxa, mastoid anatomy, predatory behavior, feeding behaviour, implications of extant taxa regarding the saber-toothed cats, *Panthera leo, Panthera tigris, Puma concolor*, skeletal musculature, large interoventrally projected mastoid process in pantherines, skull structure, functional morphology, saber-tooth mastoid morphology implies larger and longer-fibered atlanto-mastoid muscles, saber-tooth musculature related to head flexion motion.


Note: In Chinese.


ISSN: 1042-7260.

NAL call no.: SF601.J6


Descriptive: tigers, *Panthera tigris*, animal anatomy, histology, morphology, small intestine, stomach, China.


NAL call no.: QL700.Z4

Descriptive: *Panthera tigris*, tigers, sexual dimorphism, skull morphology/metrics, cranium length, breadth of the interorbital regions and muzzle, zygomatic arch, occipital region, upper carnassial length, development of cranial prominences, geographic variation.


Descriptive: tigers, *Panthera tigris tigris*, captive zoo animals, tongue anatomy, tongue morphology, morphometrics, Assam, India.

2003


NAL call no.: QH301.A1W5


NAL call no.: SK357.A1W5


Descriptive: tigers, *Panthera tigris*, anatomy, structure, kidneys, blood vessels, histology, morphology, China.

2002


NAL call no.: 410 AC87

Descriptive: tigers, *Panthera tigris altaica*, humans, cattle, sheep, pigs, rats, mice, species comparison, 3 pairs of primers, FSH/LH common [alpha], FSH [beta] and LH [beta] cDNA sequences, tiger genes amplified by reverse transcript polymerase chain reaction, submitted to GenBank (Nos. AF408393, AF540937 and AF540935 respectively), homology, characteristics of tiger FSH and LH, aid in conservation due to possibilities of producing recombinant FSH and LH for artificial breeding technology.

GenBank DNA sequence information: Nos. AF408393, AF540937 and AF540935.

Information resources on tigers, *Panthera tigris*: natural history, ecology, conservation, biology, and captive care.

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<th>Year</th>
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<td>2000</td>
<td>Tiwari, Satyendra; Hassall, Kay.</td>
<td>Tiger mating in Bandhavgarh Tiger Reserve.</td>
<td><em>Zoos' Print</em></td>
<td>2001 August; 16(8)</td>
<td>12-14</td>
<td>0971-6378</td>
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Note: In Chinese with a Chinese and English summary.


Descriptors: various domesticated and wild animals, gross and histological studies, anatomy, papers on a variety of topics, species comparisons, includes hyenas, chimpanzee, tigers, *Panthera tigris*, lions.

Descriptors: white tiger, *Panthera tigris*, captive animal, diagnosis, persistent right aortic arch, cardio vascular system aberration, left subclavian artery, esophagus, radiographic diagnosis, corrective surgery.

Descriptors: Siberian tigers, *Panthera tigris altaica*, 2 females, morphology of the reproductive system, ovaries, circle channels, oviduct, ampullae tubes curved, isthmus tubes straight, uterus corner compared to the body of the uterus, vagina staved duct, age differences.


Descriptors: tigers, *Panthera tigris*, age of sexual maturation, mating behavior, observation records, Bandhavgarh Tiger Reserve, Madhya Pradesh, India.

Descriptors: auxiliary synovial structures of brachial biceps and brachial muscules at elbows of dogs and cats compared with wolves, tigers and cougars. Part II: Cats (*Felis silvestris f. catus*), tigers (*Panthera tigris*) and cougars (*Felis concolor*).

Note: In German with an English summary.

NAL call no.: 41.8 T345

41.8 IN22
**Descriptors:** dogs, cats, Felis silvestris f. catus, tigers, Panthera tigris, pumas, Felis concolor, anatomy, muscles, tendons, radius, elbows joints, synovial sheaths.


**Descriptors:** tigers, Panthera tigris sumatrae, skeletal musculature of the head, skull, jaws, maxilla, Musculus masseter, functional anatomy, mastication.

1999


**Descriptors:** tigers, Panthera tigris, phenotypic characteristics, size, body and skull measurements, color, markings, wild animals, individual variations, population distribution, phenotypic variation, conservation concerns, strategies based on variations, Palearctic regions.


**Descriptors:** Panthera tigris, leopards, Panthera pardus, Neofelis nebulosa, blood serum, blood chemistry, normal values, zoo animals, India.


**Descriptors:** Panthera tigris, tigers, Panthera pardus, blood serum, blood chemistry, normal values, phosphorus, P, calcium, Ca, zoo animals, India.


**Descriptors:** tigers, Panthera tigris altaica, Myospalax baileyi, bone proteins, protein analysis, amino acid profile.


**Descriptors:** tigers, Panthera tigris altaica, Myospalax baileyi, bone proteins, protein analysis, amino acid profile.

1998


NAL call no.: 41.8 IN2

**Descriptors:** Bengal tigers, Panthera tigris bengalensis, shoulder structure, scapula, anatomy, captive zoo animals, India.


NAL call no.: OL77.5.26

**Descriptors:** captive tigers, Panthera tigris, skull malformations, pathology, effects on jaws, grooming behavior changes, feeds and diet changes.


**Descriptors:** tigers, Panthera tigris, captive animals, intestines, anatomy, mucus, gastrointestinal diseases, echography, diagnosis, ultrasound.

Ling, Ming De; Li, Ke Dong; Cui, Li Ping; Cao, Fu Yuan; Gu, Weng Yang; Yuan, Yao Hua; Li, Zhong, Kui. *Determination of some hematological and biochemical values of South China tiger (Panthera tigris amoyensis).* *Acta Zoologica*.


NAL call no.: ◆ 475 SCI23

Descriptors: ◆ lions, Panthera leo persica, tigers, Panthera tigris tigris, semen collection, sperm characteristics, motility parameters, computerized motility analysis, methodologies, cryopreservation of semen, semen collection.

1997


NAL call no.: ◆ QL77.5.Z6

Descriptors: ◆ Panthera leo, lions, Panthera tigris, tigers, Felis concolor, animal anatomy, jaw muscles, zoo animals.


Descriptors: ◆ Felis catus, Panthera leo, lions, Panthera tigris, tigers, anatomy of limbs, aponeurosis, muscles diseases, Musculus flexorius, Musculus pronator quadratus, caudal surface of antebrachium, surgical transaction of ligments, hyperextension of manus and decread in weight-bearing of carpus.


NAL call no.: ◆ 41.8 IN22

Descriptors: ◆ tigers, Panthera tigris, anatomy, skull, description, measurements.

1996


NAL call no.: ◆ QP251.A5

Descriptors: ◆ lions, Panthera leo, puma, cheetah, jaguar, 3 types of tigers, Panthera tigris, domestic cats, preantral follicles isolation, species comparison, viability with trypan-blue staining of granulose cells, 5 bromo 2’ deoxy-uridine (BrdU) incorporation into oocytes and granulosa cells, ultrastructureal comparison, ovary dissection, oocytes similar to most mammals.


NAL call no.: ◆ QL94.5.A1T53

Descriptors: ◆ tigers, Panthera tigris tigris, wild animal, melanistic color variant, black tiger reported, Similipal Tiger Reserve, Orissa, India.


NAL call no.: ◆ SF604.K42

Descriptors: ◆ tigers, Panthera tigris, anatomy, female genitalia, structure, reproductive organs.

1995

NAL call no.: QL77.5.Z6
Descriptors: cats, Panthera tigris, tigers, Panthera leo, lions, Panthera pardus, leopards, Acinonyx jubatus, Felis lynx, estradiol, ovulation, HPLC progesterone, radioimmunoassay, fecal sampling, ovarian functioning, non-invasive techniques, zoological gardens.


1992


Diseases, Abnormalities, Veterinary Care

2005

De Bruin, Alain; Wack, Ray; Weisbrode, Steven E. Persistent metanephric ducts in a geriatric white tiger. Journal of Veterinary Diagnostic Investigation. 2005 January; 17(1): 91-93. ISSN: 1040-6387.


2004


Descriptors: Panthera tigris altaica, viral diseases, tiger susceptible to canine distemper, new viral disease record, Russia.


NAL call no.: SF601.J6
Descriptors: Panthera tigris altaica, Siberian tigers, captive animals, anesthesia cocktails, xylazine-midazolam-ketamine and medetomidine-midazolam-ketamine, anesthetics, drug combinations, comparison study, safety and effectiveness, blood chemistry, blood gases, body temperature, cardiac output, hematology, hemoglobin, heart rate, effectiveness of immobilization, pharmacodynamics, respiration rate.

Keawcharoen, Juthatip; Oraveerakul, Kanisak; Kuiken, Thijs; Fouchier, Ron A.M.; Amonsin, Alongkorn; Payungporn, Sunchai; Noppornpanth, Suwanna; Wattanodornd, Sumitra; Themboonlers, Mapiradee; Tantilertcharoen, Rachod; Pattanarangsang, Rattapari; Arya, Min; Ratanaokorn, Parntep; Osterhaus, Albert D.M.E.; Poovorawan, Yong. Avian influenza H5N1 in tigers and leopards. Emerging Infectious Diseases. 2004; 10(12): 2189-2191. ISSN: 1080-6040.

URL: http://www.cdc.gov/ncidod/EID/index.htm
NAL call no.: RA648.5.E46
Descriptors: Panthera tigris, tigers, Panthera pardus, leopards, pathogenic avian influenza A (H5N1) virus, cause of severe pneumonia in wild felids, host range includes leopards and tigers fed infected poultry, implications for influenza virus epidemiology, wildlife conservation, biogeography.


NAL call no.: SF601.J6
Descriptors: captive female Sumatran tiger, Panthera tigris sumatrae, progressive hind limb weakness, ataxia, spinal radiography, spinal disc space narrowing, myelography, extradural compressive lesion at L2-3, computed tomography did not reveal bone involvement, surgical procedure, histologic examination, extradural spinal hematoma, surgical correction, normal ambulation returned post surgery.


NAL call no.: SF601.V484
Descriptors: bacterial diseases, disease prevalence, agglutination tests, antibodies, antibody testing, epidemiology, leptospirosis, serological surveys, seroprevalence, serovars, Felis concolor, Felis wiedii, jaguars, Panthera tigris, tigers, Panthera pardus, leopards, Leptospira interrogans, Leptospira interrogans serovar copenhagenii, Leptospira interrogans serovar hardjio, Panthera leo, lions, Lynx lynx, ocelots, zoo animals, Rio de Janeiro, Brazil.


Descriptors: Panthera tigris, captive tiger, lameness, healing bone fractures, metatarsal fracture, calcium treatment, therapy, case report, clinical aspects, India.


NAL call no.: 41.8 IN2
Descriptors: Panthera tigris, captive tiger, pregnant tigress, gestation complications, dystokia, reproductive system disease, toxemia, case study, treatment.


URL: http://www.nal.usda.gov/digitop/images/digitop_brands/FullText.jpg
NAL call no.: 41.8 AU72
Descriptors: tigers, Panthera tigris, animal disease, avian influenza, disease effects, Thailand.

Won, Dong Sun; Park, Chul; In, Young Joo; Park, Hye Myung. A case of nutritional secondary hyperparathyroidism in a Siberian tiger cub. Journal of Veterinary Medical Science. 2004 May; 66(5): 551-553. ISSN: 0916-7250.
NAL call no.: SF604.J342
Descriptors: Siberian tiger, *Panthera tigris altaica*, 3 month old female, young animal, meat diet, hindlimb ataxia, symptoms, osteodystrophic changes in lumbar sacral vertebrae, radiographic examination, nutritional secondary hyperparathyroidism diagnosed, treated with vitamin D and calcium, case report.

Zhang, QinWen. [Pathological examination of pneumocardial disease in Northeast tigers.]
Descriptors: *Panthera tigris*, tigers, heart disease, diagnosis, clinical aspects, diagnosis, histopathology.

2003

NAL call no.: SF601.J6

Descriptors: tiger, *Panthera tigris*, captive animal, case report, clinical aspects, drug therapy, treatment of tibia and fibula fracture, inflammation, therapy, India.

NAL call no.: SF601.J6

NAL call no.: SF996.15
Descriptors: tigers, leopards, *Lynx lynx*, *Acinonyx jubatus*, abnormalities, blood chemistry, cryptorchidism, diagnostic techniques, sperm motility, semen, spermatozoa, electro-ejaculation, ejaculate volume, male fertility, reproductive disorders, steroid hormone testosterone, zoo animals, ultrasonography, Germany.


Lantos, Akos; Niemann, Stefan; Mezosi, Laszlo; Sos, Endre; Erdelyi, Karoly; David, Sandor; Parsons, Linda M.; Kubica, Tanja; Ruesch Gerdes, Sabine; Somoskovi, Akos. Pulmonary tuberculosis due to *Mycobacterium bovis* subsp. *caprae* in captive Siberian tiger. Emerging Infectious Diseases. 2003 November; 9(11): 1462-1464. ISSN: 1080-6040.
URL: http://www.cdc.gov/ncidod/EID/index.htm
NAL call no.: RA648.5.E46
Descriptors: Panthera tigris altaica, captive animals, pulmonary tuberculosis, bacterial disease, Mycobacterium bovis subsp. caprae, diagnosis, tracheal aspirate, bronchoscopy, conventional and molecular tests, diagnostic tests, new disease record, case report, Siberia.

Liang, Yu Zhen; Cai, Qin Hui; Chen, Xuan Jiao; Peng, Shi Ming. [A comparison of restraint effect between the six preparations of anaesthetic and chemical restraint drugs in tigers.] Journal of South China Agriculture University. 2003; 24(4): 67-70. ISSN: 1001-411X. Note: In Chinese with an English summary.
NAL call no.: S542.C6H9
Descriptors: Panthera tigris subspecies, 6 South China tigers, 13 Siberian tigers, 3 Bengal tigers, anesthesia, anesthetics, ketamine, ketamine + diazepam, xylazine, xylazine compound, Lumianning, 846 complex, efficacy, subspecies comparisons of effects.

NAL call no.: 41.8 IN2
Descriptors: captive Royal Bengal tiger, Panthera tigris tigris, sudden death, post-mortem examination, visceral lesions, case study, Trypanosoma evansi, blood smears, hemorrhage, histopathology, infection, edema, trypanosomiasis, Arignar Anna Zoological Park, India.

NAL call no.: SF601.J6
Descriptors: Panthera tigris, 6 captive females, surgical procedure, anesthetics, sedation, i.m. injection, medetomidine-ketamine combination anesthesia, repeated use, inductions rapid and smooth, atipamezole used for reversal, smooth and rapid recovery, technique evaluation.

NAL call no.: SF769.A1148
Descriptors: Royal Bengal tiger, Panthera tigris tigris, Himalayan black bear, binturong, hyena, Panthera ssp., Asiatic lion, leopard, post-mortem sampling for neoplasms, mammary glands, lungs, lymph nodes, liver, kidneys adrenal gland, spleen, Assam, India.

NAL call no.: 442.8 IN42
Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, deer, development and use of molecular markers, microsatellites, minisatellites, mitochondrial control region, cytochrome B, MHC loci, assessing genetic variation, semen profile of big cats, cryopreservation of semen, artificial insemination, literature review.

NAL call no.: SF996.15
Descriptors: Panthera tigris, captive tiger, Mycobacterium bovis subsp. caprae, bacterial diseases, bronchoscopy, tracheobronchial washing, rapid, easily performed diagnostic technique, specimen sampling, tuberculosis, zoo animals.

NAL call no.: SF601.J6
Descriptors: Asian tigers, Panthera leo persicus, 1 African lion, Panthera leo, 1 Siberian tiger, Panthera tigris altaica, 1 cheetah, Acinonyx jubatus, 1 snow leopard, Panthera uncia, fungal diseases, blastomycosis, Blastomyces dermatitidis, captive animals, clinical signs, lethargy, anorexia, weight loss, dyspnea, sneezing, ataxia, paresis, white cell picture,
hypercalcemia, hyperproteinemia, hyperglobulinemia, thoracic radiography, alveolar changes, lung lobe collapse, agar gel immunodiffusion, treatment with itraconazole attempted, pathology, unsuccessful treatment, Tennessee.


Descriptors: Panthera tigris altaica, Siberian tiger, adult male, fibroblast culture of skin biopsy, multifocal intervertebral disc disease, animal euthanized, abnormal chromosome number, clinical aspects, connective tissue disease, diagnosis, fibrous tissue in epididymis and prostate, genetic disorders, histopathology, karyotypes, metaphase, paucity of seminiferous tubules, tubules devoid of spermatagonia, sex chromosomes, case report.


Descriptors: leopards, Panthera pardus, Panthera leo, lions, Panthera tigris tigris, tigers, amyloidosis, causes of death, disease prevalence, disease surveys, epidemiology, captive zoo animals, Acinonyx jubatus, Felis nigripes.

Xia, Xian Zhu; Gao, Yu Wei; Hu, Rong Liang; Wang, Li Gang; Liu, Dan; Zou, Xiao Huan; Huang, Geng; He, Wen Qi; Wang, Wei; Su, Wei Lin; Liu, Wen Liang. The first report of tiger influenza by viral isolation and specific gene amplification. Chinese Journal of Veterinary Science. 2003; 23(2): 107-110. ISSN: 1005-4545. Note: In Chinese with an English summary.

NAL call no.: SF604.C58

Descriptors: tiger, Panthera tigris, influenza virus, amplification, antibodies, clinical aspects, DNA, diagnosis, genes, genetics, influenza A, isolation of lungs, nucleic acids, nucleotide sequences, respiratory diseases, Heilongjiang, China.

2002


Descriptors: tigers, Panthera tigris, 347 captive animals in zoos, mortality 8.36%, winter is time of maximum mortality, digestive and respiratory system disorders, behavioral disorders, other minor disease conditions of blood and cardiovascular system, preventive measures.


NAL call no.: SF601.J6

Descriptors: tigers, Panthera tigris, 347 captive animals, foot lesions due to type of cage flooring, treatment, acepromazine, fluoxetine, drug combinations, vitamin E.


Descriptors: tigers, carcinoma, clinical aspects, eyelid neoplasm, surgical treatment, case report, India.


URL: http://www.biomedcentral.com/1472-6785/2/6

NAL call no.: QH540.B63

Descriptors: tigers, Panthera tigris, internal parasites, Digenea, Cestoda, Nematoda, parasite life cycle, mammalian hosts, fecally dispersed parasite, abundance and diversity patterns, community structure, Maharashatra, Tadoba Andhari Tiger Reserve, India.


Descriptors: white tiger cub, Panthera tigris, young captive zoo animal, tibia bone fracture, clinical aspects, treatment, case report.

Descriptors: ♦ white tiger cub, Panthera tigris, young captive animal, anal fistula, perianal fistula, case report.

NAL call no.: ♦ 42.8 IN2

Descriptors: ♦ Royal Bengal tigers, Panthera tigris, captive animals, tiletamine HCl and zolazepam HCl combination (Telazole), effects, pharmacodynamics, weak and downtimes, sedation and analgesia, abdominal muscle relaxation inadequate, nystagmus, effects on respiration rates, tachycardia, recovery time 7-9 hours, India.

NAL call no.: ♦ SF601.J6

Descriptors: ♦ Bengal tiger, Panthera tigris, case reports, clinical aspects, nasopharyngeal myxosarcoma, computed tomography, differential diagnosis, neoplasms in the skull.


Descriptors: ♦ tiger, Panthera tigris alctica, captive animal, case report, clinical findings, adenocarcinoma, adrenal glands, metastatic cancer, cytoplasm, hemorrhage, kidneys, liver, spleen, lungs, lymph nodes, mammary gland neoplasms, mineralization, mitosis, necrosis, Korean Republic.

Note: ♦ In Korean with an English summary.

Descriptors: ♦ jaguars, pantherines, tigers, Panthera tigris, 154 exotic felids mortalities, more younger animals died than adults, sex differences, trauma injuries, winter seasonal effects, digestive disorders, postmortem examinations, Everland Zoological Gardens, Korean Republic.

Srivastav, Anupam; Chakrabarty, Bipul. ♦ Seasonal distribution of deaths of tigers (Panthera tigris) in Indian zoos. ♦ Zoos’ Print Journal ♦ 2002 March; 17(3): 741-743.

Descriptors: ♦ tigers, Panthera tigris, captive animals, mortality rates, seasonal effects, causes, prevention measures, India.

Upadhye, S.V.; Dhoot, V.M. ♦ Three cases of perforated gastric ulcer in tiger[s]. ♦ Zoos’ Print Journal. ♦ 2002; 17(9): 889-890. ♦ ISSN: 0971-6378.

Descriptors: ♦ tigers, Panthera tigris, captive animals, case reports, clinical aspects, epidemiology, causes, stomach ulcers, India.

2001

NAL call no.: ♦ SF605.A4

Descriptors: ♦ tigers, Panthera tigris bengalis, captive animals, treatment techniques, etodolac, osteoarthritis management evaluation.

NAL call no.: ♦ SF601.J6

Descriptors: ♦ tigers, Panthera tigris sumatrae, captive zoo animal, clinical aspects, congenital abnormalities, ductus arteriosus, epidemiology, edema, vascular diseases, case report, zoo animals.

Descriptors: Panthera species and subspecies, Siberian tigers, Bengal tigers, jaguars, leopards, black panthers, lions, anesthetic efficacy of Lumianning, effects, good sedation, analgesic, muscle relaxant, minor side effects, species and subspecies differences, neuroleptics.


NAL call no.: SK357.A1W5

Descriptors: Amur tigers, Panthera tigris altaica, ecological research, capture techniques, collection of tissue and blood samples, radio collars, Aldrich foot snares, marking tree, kills most effective, helicopters, injuries, anesthesia, ketamine hydrochloride (x=10.8±3.4 mg/kg, n=33) and xylazine hydrochloride (x=0.81±0.24 mg/kg, n=23), Russia.


NAL call no.: 41.8 V641

Descriptors: tiger, Panthera tigris, Pasteurella haemolytica, bacterial endocarditis of the heart valves, case report, clinical aspects, bacterial infection of aortie valve, epidemiology, Korea.


Descriptors: tiger, Panthera tigris tigris, white captive animal, diagnosis, persistent right aortic arch, cardio-vascular system, aberration of left subclavian artery, esophagus, radiographic diagnosis, corrective surgery, case report.


NAL call no.: SF604.T43

Descriptors: tigers, Panthera tigris, amputation, ketamine anesthesia, arterial blood pressure measurements via oscillometric method, claws amputation surgery, heart rate, right hock location, comparison of direct and indirect measurements, Thailand.


Descriptors: cats, tigers, lions, Panthera species, ELISA, immunoblotting, stored fixed lymphoid tissues, captive zoo animals, feline immunodeficiency virus, Germany.


NAL call no.: SF910.5.V4

Descriptors: tigers, Panthera tigris, lameness, elbow joint diseases, clinical aspects, histopathology, radiography, synovial fluid, histopathology, osteochondromatosis, osteophytes, case report, South Africa.


Descriptors: south China tiger, Panthera tigris, captive animal, gastritis, diagnosis, treatment, clinical picture, case report.

Descriptors: tigers, Panthera tigris, captive animals, protozoan parasite, Trypanosoma, mortality in captivity, prevention, care and treatment, Nandankanan Zoo, Bhubaneswar, Orissa, India.


Descriptors: birds, Panthera species, tigers, lions, leopards, prevalence, gastrointestinal parasite survey, Ancylostoma, Ascaridia, Balantidium coli, Capillaria, Eimeria, Spirometra, Strongylodes, Toxocara, Trichostrongylus, Gujarat, India.


Descriptors: tigers, Panthera tigris altaica, leopards, Panthera pardus orientalis, wild animals, blood sampling, hematological values, viral diseases prevalence, Russia.


NAL call no.: 41.8 J82

Descriptors: Amur tigers, Panthera tigris altaica, Sertoli cells, neoplasms, lesions histopathology, immunohistochemistry, metastasis, case reports.


NAL call no.: SF601.J6

Descriptors: Panthera species, tigers, lions, leopards, lions, jungle cats, servals, Lynx lynx, Toxoplasma gondii, captive animals, serological survey, titres found in 64.9% of exotic felids, Brazilian zoo.


Descriptors: Amur tiger, Panthera tigris altaica, adult male captive animal, Klinefelter syndrome, chromosome aberrations, diseases and disorders, case report.


Descriptors: Sundarban tigress, Panthera tigris tigris, diarrhea, anorexia, fecal exam, Toxocara, Ancylostoma, cestode infections, treatment with ivermectin, drug efficacy and treatment regimen, subcutaneous injection, recovery, case report, Calcutta zoo, India.


Descriptors: tiger, Panthera tigris, Spirocerca lupi, anorexia, dullness, frequent vomiting, case report, medical treatment, pyreternal pamoate, zoo animals, Maharajbag Zoo in Maharashtra, India.


NAL call no.: SF996.15

Descriptors: tigers, Panthera tigris, private animal collection, clinical symptoms, conjunctival smears, antibody titters,
distemper virus as probable cause, case report.

2000


Descriptors: Sumatran tigers, Panthera tigris, 2 captive animals, gastric ulcers, pyloric antrum erosions, case studies, Helicobacter acinonychis, amoxicillin, clarithromycin, lansoprazole, drug treatment with antibiotics.


Descriptors: captive cheetahs, Acinonyx jubatus, gastritis, vomiting, weight loss, Helicobacter spp., viviparous nematode, Ollulanus tricuspid, oxfendazole and pyrantel embonate treatment resulted in clinical improvement, also found in captive Panthera spp., lions, tiger, wild cougars, wild tigers.


Note: In German with an English and German summary.

Descriptors: anoas, giraffes, snow goats, scimitar horned antelopes, Bactrian camels, tigers, Panthera tigris, Diana monkey, captive animals, dystocia, difficult labor and delivery, special pharmaceutical, glukokortikoids, clenbuterol, denavine, carbetocin, obstetrics.


Descriptors: Panthera spp., tigers, jaguars, leopards, lions, Panthera uncia, captive animals, spinal degeneration diseases, pathology, degeneration of intervertebral discs, radiography, age related diseases.


Descriptors: tiger, Panthera tigris tigris, captive animals, intestinal parasites, nematodes, cestodes, Ancylostoma, Toxocara, treatment, ivermectin.


Descriptors: tigers, Panthera tigris tigris, captive zoo animal, back injury, intervertebral discs, case report, clinical aspects, surgical treatment, South Africa.


Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera uncial, Morbillivirus, canine distemper virus, etiology, clinical aspects, drug treatment, disease control and prevention, drug therapy, pathogenesis, pathology, Kenya, Tanzania, United States.


Descriptors: Amur tiger, Panthera tigris altaica, Clostridium perfringens, captive zoo animal, antibacterial agents, amikacin, enrofloxacain, diarrhea, isolation from feces, gentamicin, penicillins, sulfamethoxazole, trimethoprim, colistin, drug resistance, Korea.

Descriptors: Panthera tigris, hematology, trypanosomiasis, Trypanosoma, blood parasite, blood profiles of the disease, case report.


Descriptors: captive tigress, female tiger, Panthera tigris, anorexia, hematuria, hyperpyrexia diagnosis, Babesia, treated with diminazene, injected intramuscularly, case report, antiprotozoal therapy, Bihar, India.


Descriptors: tiger, Panthera tigris, 9 year old male, captive zoo animal, case report, trypanosomiasis, Trypanosoma evansi, clinical aspects, anorexia, constipation, lethargy, convulsions, blood smear for diagnosis, antiprotozoal agents, drug therapy with diminazene, India.


Descriptors: tigers, Panthera tigris, captive animals, Trypanosoma, trypanosomiasis, zoo animal, Nandankanan Biological Park, India.

1999


NAL call no.: 41.8 AU72

Descriptors: white Bengal tiger, Panthera tigris, strabismus, vision disorders, color, etiology, case report.


Descriptors: tigers, Panthera tigris, endangered species conservation, comprehensive zoology, habitat management with local support, conservation impact of ecodevelopment project, Royal Chitwan National Park, Nepal.


NAL call no.: 41.8 N483

Descriptors: young Sumatran tiger, Panthera tigris sumatrae, endoscopy and dilatation, stricture of the esophagus, anesthesia and bougienage, sedation with a combination mixture of drugs, effects of different combinations, medetomidine, ketamine, atipamezole, isoflurane, effects on heart, cardiovascular and respiratory systems, neuroleptics.


Descriptors: 1 tiger, 2 lions, Panthera tigris, Panthera leo, captive animals, clinical picture, seizures, dyspnoea, posterior weakness, emaciation, heartworms, right ventricle, pulmonary artery, vascular obstruction, pathology, case report, nematodes, Dirofiaria immitis, Bihar, India.


Descriptors: Bengal tiger, Panthera tigris tigris, dysgenesis, dyspnea, systolic murmurs, cardiomegaly, color flow echocardiography used for diagnosis, ventricular septal defect, septum defect, case report, clinical aspects, Japan.

Larsen, R. Scott; Carpenter, James W. Suspected vaccine- and/or dart-associated fibrosarcoma in a tiger (Panthera tigris). Erkrankungen der Zootiere. 1999; 39: 401-404. ISSN: 0138-5003.

Descriptors: tigers, Panthera tigris, captive zoo animal, cancer, Grade III fibrosarcoma, treatment techniques, histopathology, possible vaccine and/or dart-related disease, injuries, case report.


1998


diagnosis, ultrasound.


**Descriptors:** Amur tigers, Panthera tigris altaica, zoo animals, case reports, peritonitis, Actinomycetes.


**NAL call no.:** OR1.M57

**Descriptors:** lions, Panthera leo, tigers, Panthera tigris, calicivirus, viral diseases, prevention, inactivated vaccines, antibody response, vaccination, captive zoo animals, Japan.


**NAL call no.:** SF601.J6

**Descriptors:** tigers, gastric bacterial microflora, Panthera tigris, lions, Panthera leo, Lynx lynx, Panthera uncia, Felis manul, Felis viverrina, Felis margarita, Lynx rufus, Felis wiedii, Helicobacter.


**NAL call no.:** SF810.A3J6

**Descriptors:** tiger, captive animal, Panthera tigris, case study, Diphyllobothrium latum, helminthic parasites identified from duodenum and jejunum, post mortem diagnosis, Nehru Zoological Park, Hyderabad, India.


**NAL call no.:** SF601.J6

**Descriptors:** tigers, Panthera tigris, Panthera leo, Panthera pardus, Panthera uncia, Panthera onca, Felis concolor, Felis pardalis, Acinonyx jubatus, spondyloarthropathy, skeletons from 10 museum collections, inflammation osteoarthritis, limb bones, disease prevalence, wild animals, United States, Kenya, Canada.


**NAL call no.:** 41.8 J82

**Descriptors:** tigers, Panthera tigris, Helicobacter acinonyx, identification, stomach mucosa, polymerase chain reaction (PCR), gastritis, histology, immunohistochemistry, postmortem examinations, histopathology, lymphocytes.


**NAL call no.:** 41.8 P27

**Descriptors:** captive Siberian tigers, Panthera tigris altaica, zoo animals, amyloidosis, amyloid deposition, kidney disease, clinical aspects, immunohistochemistry, histopathology, histochemistry, etiology, case report.


**NAL call no.:** QL366.J68

**Descriptors:** cattle, deer, sheep, goats, Panthera tigris, tigers, Panthera pardus, leopards, hyenas, wild boars, deer, Camelus, Canis aureus, gazelles, antelopes, nilgai, wild animals, domestic animals, parasites, Trypanosoma evansi, epidemiology, disease prevalence, trypanosomiasis, animal diseases, blood, lymph, parasites, national parks, Rajasthan, India.


**NAL call no.:** SF601.C56


84/88
Descriptors: Panthera tigris, Panthera species, tigers, lions, wolves, panthers, leopards, captive animals, fecal sampling, cestode eggs, diagnosis, treatment, micosamide, case reports, Tamil Nadu, India.

1997


NAL call no.: SF601.J6


NAL call no.: SF867.V47

Descriptors: Siberian tiger, Amur tigers, Panthera tigris, root canal therapy, canine tooth, videofluoroscopy, zoo setting, radiographic-based dentistry, surgery, surgical equipment, case study.


NAL call no.: SF867.V47

Descriptors: captive Sumatran tiger, Panthera tigris sumatrae, abraded canine teeth, bar-biting behavior, damaged teeth, weakened and sensitive teeth, restorative dental treatment techniques, endodontic treatment, acid etch technique, macroretentive preparations, amalgam and composite resin.


NAL call no.: 41.8 J82

Descriptors: captive animals, Felis, Panthera tigris, tigers, Panthera leo, lions, Felis concolor, Felis serval, leopards, zoo animals, Helicobacter, Helicobacter pylori, stomach mucosa, wolves, Crocuta crocuta, incidence of infections, bacterial colonization, histopathology, Germany.


Descriptors: tigers, Panthera tigris tigris, oral cavity, mouth, sarcoma, neoplasms, incidence, histopathology, case report.


Descriptors: tigers, Panthera tigris, captive zoo animals, feline immunodeficiency virus, FIV, immunodiagnosis, symptoms, blood chemistries, serum, hematolgy, opportunistic infections, clinical aspects, blood chemistry, case reports.


Descriptors: lions, Panthera leo, tigers, Panthera tigris, captive animals, necropsy case, paraffin-embedded tissues, immunohistochemically examined, canine distemper virus, disease prevalence, immunization recommendation, Switzerland.


NAL call no.: 41.8 IN2

Descriptors: tigers, female cub, Panthera tigris, captive zoo animals, congenital hernia, surgical correction, case report.
NAL call no.: 99.8 IN2
Descriptors: tigers, Panthera tigris, nature reserves, conservation management, human/wild animal relationships, human population growth dynamics, multi-regression relationships, possible measures to protect tigers, Similipal Tiger Reserve, India.

NAL call no.: SF996.15
Descriptors: Panthera, captive zoo animals, feline immunodeficiency virus effects for other diseases, opportunistic infections, Germany.

1996

NAL call no.: SF604.C485
Descriptors: tiger, Panthera tigris, raccoon dog, bacterial infection, hemolytic Streptococcus, kidney isolate, cardiac muscle of the raccoon dog, serogroups, Lancefield's groups, new sero-group, case report.

NAL call no.: 442.8 J8222
Descriptors: tigers, female animals, intrauterine insemination, ovulation, timing, HCG, chorionic gonadotropin, anesthetics, anesthesia, laparoscopy, equine chorionic gonadotropin, ECG, assisted reproductive techniques.

NAL call no.: 41.8 P27
Descriptors: tigers, captive animal, Cytauxzoon felis, fatal infections, protozoal infections, symptoms, histopathology, clinical picture, case report, Florida, United States.

NAL call no.: SF601.J6
Descriptors: 31 captive wild felids, 17 tigers, Panthera tigris, 7 jaguars, Panthera onca, 2 lions, Panthera leo, 2 cougars, Felis concolor, leopard, Panthera pardus, 2 jungle cats, Felis chaus, clinical and historical records, mammary gland neoplasia, cribiform, solid, cyst with papillary and adenocarcinoma patterns, histopathology, metastases, depressed behavior, ventral mass, visible ulcers, anemia, neutrophilia, hypercalcemia, azotemia, implants with melengestrol acetate (MGA) impregnated silastic devices, risk factor of progestin exposure, contraceptive effects.

NAL call no.: 41.8 J82
Descriptors: captive Bengal tiger, protozoal infections, Cytauxzoon, fatal infections, post mortem histopathology, case report, Germany.

English summary.

Descriptors: wild tiger, Panthera tigris, captive zoo animal, wild animals, neoplasm, pathology, hemangiosarcoma, case report.


Descriptors: cattle, buffalo, sheep, goats, pigs, poultry, ducks, lions, Panthera leo, tiger, Panthera tigris, hemorrhagic septicemia, Pasteurella multocida isolates, 11 serotypes, capsular and somatic antigens, 6 serotypes new to India.


NAL call no.: SF604.C485

Descriptors: tigers, Panthera tigris, captive animals, surgery, birth complication, parturition, pyometra, pyocolpos, infections, case report.


NAL call no.: SF604.V485

Descriptors: 15 different species of animals, lions, Panthera leo, Panthera tigris, tigers, wolves, pandas, bears, deer, zebras, orangutans, rhinos, pessaries, coyotes, etc., serum survey, Leptospira interrogans, serovars were icterohaemorrhagiae, canicola, pyogenes, hebdomadis, Pomona, grippotyphosa, autumnalis, Panama, Chapultepec zoo, Mexico City.


NAL call no.: SF769.A1I48

Descriptors: Amur tiger newborn cubs, Panthera tigris altaica, Pasteurella bacterial disease, pathology, histopathology, captive animals, Padmaja Maidu Himalayan Zoological Park, India.


NAL call no.: 41.9 W64B

Descriptors: tiger, Panthera tigris, pancreas, neuroendocrine tumor, antibodies, immunohistochemical study, case report.


Descriptors: Panthera tigris, tigers, Panthera pardus, leopards, Panthera leo, lions, dogs, captive zoo animals, parasites, helminthes, helminthoses, Vietnam.


NAL call no.: SF604.C485

Descriptors: Bengal tiger, Panthera tigris tigris, hair loss, hair licking, hematology profile, urine chemistries, enlarged kidneys, edema, ultrasonic diagnosis, nephritis, Beijing zoo, case study, China.


NAL call no.: SF810.V4

Descriptors: captive animals, Thalarctos maritimus, wolves, Vulpes cinereoargenteus, coyotes, jaguars, Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, Lynx rufus, Felis concolor, ocelots, Felis yagouaroundi, Trichinella, infections of carnivores, serological survey, seroprevalence of trichinosis, ELISA, Western blotting techniques, helminthes, Chapultepec Zoo, Mexico.

Zhang, En Zhu; Ben, Ya Hua; Che, Gui Cui. [Diagnosis and therapy of suspected calicivirus infection in tigers and lions.] Chinese Journal of Veterinary Science and Technology. 1996; 26(11): 37.38. ISSN: 1000-6419. Note: In Chinese.
Chinese.

Descriptors: Panthera leo, lions, Panthera tigris, tigers, Panthera pardus, leopards, viral disease, captive zoo animals, China.

1995


Descriptors: Panthera tigris, captive circus animals, blood smear diagnosis, Trypanosoma evansi, protozoan infection, trypanosomiasis, drug therapy treatment, diminazene, glucose, vitamin B supplement, trimethoprim sulfadiazine, surra outbreak, epidemiology, histopathology.


Descriptors: tigers, Panthera tigris, captive animal, nodular intestinal lesions, parasitic nematodes, Galonchus perniciosus, clinical picture, histopathology, case report.


Descriptors: tiger, Panthera tigris, male circus animal, clinical picture, blood and fecal sampling, trypanosome parasites, diagnosis, trypanosomiasis, Trypanosoma evansi, diminazene, quinapyramine, antiprotozoal agents drug therapy, prophylaxis, Andhra Pradesh, India.

Zhang, En Zhu; Ben, Ya Hua; Che, Gui Cui; Chen, Zhen Yu. [Observation of the anaesthetic effects of 846-injection in wild animals.] Chinese Journal of Veterinary Science and Technology. 1995; 25(2): 34-35. ISSN: 1000-6419.

Note: In Chinese.

Descriptors: deer, Canis, goats, monkey, pigs, bear, tigers, Panthera tigris, anesthesia, anesthetics, wild animal immobilizations, 846 injections, provided safe and satisfactory anesthesia.

1994


Descriptors: leopards, tigers, lions, jaguars, distemper virus, outbreaks, mortality, symptoms, diagnosis, pathology, isolation, serology, case reports, Illinois, California.


Descriptors: tigers, Panthera tigris altaica, hepatitis viral disease, occurrence, treatment, zoo flooding contamination, Blank Park Zoo, Des Moines, Iowa.

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