

te

Specimen Report for DICKERSON / 5235

Report End Date
5/30/02



Scientific name: *Elephas maximus*
Common name: INDIAN ELEPHANT

Family: Elephantidae
Order: Proboscidea

Information

Sex:	Female	Sire ID:	UNK at Unknown Location
Birth type:	Unknown	Dam ID:	UNK at Unknown Location
Birth Location:	Unknown Location	Rearing:	Unknown
Birthdate-Age:	~ Dec 1969 - 32Y,4M,12D +/-1 Mo. at tr	Hybrid:	Unknown
Time since last Acq:	1Y,1M,19D as of transfer to DENVER		

<u>Date in</u>	<u>Acquisition - Vendor/local Id</u>	<u>Holder</u>	<u>Disposition - Recipient/local Id</u>	<u>Date out</u>
16 Mar 2001	Loan In from DENVER / 12202	DICKERSON / 5235	Loan Return to Owner DENVER / 12202	5 May 2002

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
2 Dec 1994	Global Studbook #	150		
16 Mar 2001	House Name	Dolly		

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
16 Mar 2001	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
16 Mar 2001	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
16 Mar 2001	Sire	UNK	UNKNOWN	
16 Mar 2001	Dam	UNK	UNKNOWN	

Dolly

DPZ #: 5235

Studbook #: 150

Birthdate: 1970

Birthplace: Wild

Owner: Denver Zoo

Previous Owner: Alan Campbell
Little Rock Zoo

Loans: To Dickerson Park Zoo, 16 MAR 01 to 5 MAY 02

Reproductive History

Arrived at Dickerson Park Zoo, 16 MAR 01.

Breeding activity with our older male was observed on the following dates:
17,18,29 APR 01, 23,24,25,26,27,28,29 MAY 01, 23,24,25 SEP 01.

No conception occurred.

Updated: 8/6/2002

ANIMAL DATA REPORT

0.1 Asian Elephant "Dolly" DPZ #5235 *Elephas maximus*

- 16 MAR 01 Denver keeper worked Dolly through brief morning routine. She appears to be "herself." Keeper did not ask for "lay down" command. She ate some of her hay from last night and ate grain ration this morning. Denver keeper showed us their bath routine. She is responsive but very slow. Keepers noticed marks across Dolly's trunk, upper shoulder areas (front and back), hip area and base of tail. All marks are superficial. She refused to drink any water today. - J Glazier
- 17 MAR 01 Dolly has been eating/drinking fine today. Dave began working her during the morning routine today, asking foot commands and head down, kneel, bow. Dolly did the foot commands fine, but was reluctant for other commands for several minutes. After several attempts she did respond while standing in a different position. Steph began working Dolly during the afternoon routine, asking only foot commands - avoiding what we all thought was potential problems with the head down, bow and kneel (mainly bow and kneel were the "problems") during both routines. Also took treats from all keepers and accepted praise. All DPZ keepers felt she was doing okay, but all agreed that we need to be careful with her due to her past aggressive problems. Dolly has yet to lay down for the Denver staff, but she seems to be settling in. - D Luedde
- 18 MAR 01 Dolly has been doing okay; still eating and drinking and taking all types of treats from DPZ's staff. She did lay down today for Dave (Denver keeper), after removing her chain, hosing her down, and turning her to face south in stall #3. Then Jeff gave her a quick bath while lying down with Dave Johnson working her. - D Luedde
- 19 MAR 01 Dolly was reluctant to lay down today for Dave Johnson (Denver). This was after hosing her while standing and giving her the down command. Eventually Dave Johnson removed her chain, and she then layed down within just a few minutes. She was given lots of praise and treats by all keepers (DJ, DL, SL, JG). Dolly went out to the South yard after the routine without any hesitation. She was very excited and vocal in the yard but later calmed down and ate hay and grain. In afternoon routine, Dave Johnson placed her on a front chain, then Dave Luedde gave her several foot commands and two stretch commands for the first time. She responded well. During the "long" routine, Jeff Glazier then worked her through a few foot commands. Dolly did fine, but was getting a little lazy toward the end. Weight today was 6,870 lbs. - D Luedde
- 20 MAR 01 Dolly was chained at the start of the morning routine on a longer front chain than yesterday. Dave Johnson worked her initially while Melissa Carden hosed her. After much coaxing from Dave and reluctance on Dolly's part for approximately 6-8 minutes, she layed down on a front chain for the first time. She was rewarded with apples, bananas, and carrots by DPZ Staff. Bath was skipped again. Dolly was then worked by Melissa Carden through foot commands and head down, bow, and kneel with good response. Dolly was then treated by DPZ Keepers with horse candy, released from her chain, and fed. No afternoon routine today, as Dave and Dave went to St. Louis Zoo. - J Glazier

Asian Elephant
DPZ #5235
page 2.

- 22 MAR 01 Dolly continues to eat well. She still shifts well between stalls. Dolly is still slow to respond to the lay down command from her keeper, taking about five minutes plus to comply. She gets nervous easily when worked by DPZ keepers, and will begin breathing heavily and offering behaviors other than the command asked for by keepers. Her keeper stated that she is very stubborn and will often offer other commands than the one asked for when she doesn't want to comply. John Bradford worked her the first time today. She responded well other than the bow/kneel commands, where she got somewhat nervous. – M Carden
- 23 MAR 01 Keepers put Dolly in with Minnie and Patience. They all seemed to get along well. Keepers saw signs of Minnie being dominant to Dolly (i.e. putting her trunk on Dolly). Dolly was seen later backing into Minnie, and Minnie would tusk her. Patience was observed trying to bite Dolly's tail. When she was told to quit, she did and didn't try it again. By the end of the afternoon they were all eating and drinking together. Dolly was submissive. – S Luedde
- 24 MAR 01 This morning Melissa worked Dolly without any assistance from Dave (Denver keeper). Dolly did fine for the routine, including laying down for the first time for Dickerson Park Zoo staff. In the afternoon routine, Jeff worked her through the same routine (including laying down) with no problems. If all goes well Sunday morning, Dave Johnson (Denver) will feel comfortable enough to head back home. – D Luedde
- 25 MAR 01 Dolly worked fine this morning for Dave Luedde. At this point it had been decided for Dave Johnson to return to Denver. The afternoon routine with Jeff Glazier and Dave Luedde was the first routine without a Denver keeper present. Dolly did fine, but we both felt as though she was "thinking" more than she had been in the morning – possibly due to Dave being gone. – D Luedde
- 05 APR 01 Dolly continues to settle in well. She layed down for blood collection on Tuesday morning and laid down for the bath routine on Wednesday afternoon without any problems. She continues to spend her days in the south yard with Minyahk and Patience, but is still being separated at night by a cracked door. The three seem to be very comfortable with each other. – J Glazier
- 06 APR 01 Today keepers gave Dolly #5 and corral and had Onyx in the north yard. She was a little apprehensive at first but then came out into the corral and backed around so Onyx could check her out. The rest of the day they hung around each other. It was very uneventful. – S Luedde
- 07 APR 01 Keepers put Dolly and Onyx together today. They did well together. There was one time when Onyx put his tusk under Dolly's chin and lifted up. There weren't any other incidents. – S Luedde

Asian Elephant
DPZ #5235
page 3.

- 17 APR 01 Upon first being put together this morning, Onyx began following Dolly, got an erection and tried to mount her. Dolly responded by turning to her side and facing Onyx and began sparring with him. Throughout the rest of the day, every 10-20 minutes, Dolly would back into Onyx, and when he would put his head up on her rump, she would spin around and begin sparring with him for several minutes. Onyx never got another erection after the first one and didn't seem interested in pursuing her much. Their sparring matches were mild to moderate, generally head to head or side to side sherring. Dolly always initiated the sparring. They were separated at 2:30, and Onyx went into the crush.
- M Carden
- 18 APR 01 Onyx attempted to mount and breed Dolly twice unsuccessfully. They continued to spar frequently. - M Carden
- 19 APR 01 Onyx showed no interest in breeding Dolly at all. They did continue to spar occasionally. Her old wound that is chronic (according to her Denver keepers) on her right cheek has opened up again. Dr. Hardy prescribed cleaning the wound and applying granulex. - M Carden
- 20 APR 01 He showed no breeding interest today. He was extremely aggressive toward keepers. It was somewhat difficult to separate Dolly from him tonight.
- M Carden
- 26 APR 01 Dr. Hardy examined her pre-existing cheek wound and prescribed continuing the same treatment, since it has shown improvement. The treatment is a water flush, then granulex. - M Carden
- 29 APR 01 Breeding interest again today, with one mounting, but no penetration in the morning. No other interest seen the rest of the day. - D Luedde
- 01 MAY 01 Minyahk was walked to the elephant/giraffe building this afternoon to be with Moola, Haji and Connie. Patience was left at the bull building to be a buddy with Dolly. They will be separated with corral or cracked door until we are sure they will get along without Minyahk. - D Luedde
- 23 MAY 01 Breeding interest/mounting observed twice today, about 1:30 and 2:00. No penetration. Onyx was observed earlier in the day by Don Fullingim (welder on new yard) following Dolly - no mounting was noticed. Blood was drawn from Dolly this morning. - D Luedde
- 24 MAY 01 Onyx was observed trying to breed Dolly today with no confirmed penetration. They had access to inside, so observation was limited. - M Carden
- 25 MAY 01 Slight breeding interest again today. Only one attempt was observed that lasted about 5 minutes, most of which was Dolly running from Onyx. Followed by a brief mounting; no penetration. - D Luedde
- 26 MAY 01 Slight breeding interest today observed only one time, with only a half-hearted attempt at mounting. Blood drawn on Dolly. - D Luedde

Asian Elephant
DPZ #5235
page 4.

- 27 MAY 01 Keepers observed on two separate occasions Onyx chasing and attempting to mount Dolly. She would run and scream several times. At one point it appeared that there was penetration, but cannot be confirmed 100%. – S Luedde
- 31 MAY 01 While examining Dolly's lower urogenital tract for evidence of breeding activity, approximately one tablespoon of pus was extracted. As per Dr. Hardy, a Nolvason flush was administered to determine if there was any significant tract infection or if it came from an isolated, localized lesion. Dolly's tract was flushed with 3 liters of Nolvason, diluted in saline (15 ml/3L). No other evidence of infection or pus was noted during the flush. Dolly had been pursued/mounted by Onyx from the 23rd of May through the 29th (no penetration was ever observed, but they were together 24 hours/day). – M Carden
- 08 JUN 01 Due to the aggression shown by Minyahk and Patience toward Dolly, she was put back with Onyx. She seems more at ease with him than the cows. Patience and Minyahk were moved to the exhibit barn and observed throughout the day. Patience was very interested in Haji, following him around and leading him away from the other elephants, but she never attempted to harm him. While in the stall with the other cows around, Haji would push on and tusk Patience in the face and trunk. Patience was very tolerant and would just raise her head to avoid some of the contact. The other cows, Connie, Minyahk and Moola, were very attentive to Haji's vocalizations, and whenever Patience was around him, Connie in particular appeared to be guarding Haji and dominating Patience. – M Carden
- 21 JUL 01 Dolly's right eye has been watering for several days. Today it seemed to be worse. J. Bradford flushed with saline then applied eye ointment (antibiotic). Will continue ointment twice daily for one week. Dr. Hardy will examine later. – D Luedde
- 28 JUL 01 Dr. Hardy examined her today and discontinued her eye treatment. She had very little watering from it. – M Carden
- 01 AUG 01 Onyx was showing mild interest in Dolly yesterday and today with his head on her back and holding her tail. No mounting was observed. – M Carden
- 09 AUG 01 Both her eyes are watering down to her chin, but the right eye is also swollen. Dr. Hardy recommended resuming the eye ointment twice a day in the right eye. The abrasion on her right cheek is healing well, but has been attracting flies, so screwworm spray is to be applied as needed. – M Carden
- 10 AUG 01 Her eye is less swollen and watering less. – M Carden
- 23 SEP 01 Onyx was observed trying to breed Dolly several times today. During most attempts, Dolly would stand, but keep her legs closed. Jeff observed the last attempt about 3:30, of which there was possible penetration. – D Luedde
- 24 SEP 01 Breeding activity several times again today. No penetration observed. 1.1 were separated for afternoon due to low temperatures. – D Luedde

Asian Elephant
DPZ #5235
page 5.

- 25 SEP 01 Breeding activity continues with Onyx and Dolly. Mountings observed at around 9:00 a.m. and noon. No penetration observed. – J Glazier
- 06 OCT 01 She has scraped the scab off the chronic wound on her right cheek (she has had intermittently for years). It was bleeding slightly, so it was washed with Nolvasan scrub, and then furacin salve was applied topically. – M Carden
- 25 OCT 01 Dr. Hardy examined her chronic cheek wound again and prescribed continued Nolvasan scrubs with granulex applied topically afterward. – M Carden
- 01 NOV 01 Dr. Hardy examined her chronic cheek wound and prescribed continued Nolvasan scrub and granulex topically afterward. – M Carden
- 15 NOV 01 Dr. Hardy examined her cheek abrasion and prescribed continuing the Nolvasan scrub and granulex. He noted that it is improving. – M Carden
- 29 NOV 01 Dr. Hardy examined her cheek and prescribed continued Nolvasan scrub and topical granulex. It shows improvement (smaller size). – J Glazier
- 27 DEC 01 As soon as they were put together, Onyx got an erection and began following Dolly and smelling her urine. He never attempted to mount her. Observations were made throughout the afternoon, and no further breeding attempts were noted. Onyx was easily separated from Dolly in the afternoon. – M Carden
- 06 MAR 02 Onyx showed mild interest in Dolly today. No mounting observed; just smelling. – M Carden
- 19 APR 02 Keepers walked Dolly on the trailer today. She did very well. She was able to turn around with no problem. – S Luedde
- 20 APR 02 Dolly continues to do well in the trailer. Today she ate a few pellets but it's still more important to look out the doors. – S Luedde
- 02 MAY 02 Dr. Hardy examined her prior to shipment on Saturday. He found no problems, other than a minor lesion on her tail from Onyx's bite. He prescribed betadine scrub, Nolvasan flush then granulex spray. – M Carden

3/14/2001

Taxon Name:	Elephas maximus (no subsp)	Status:	Onsite / Owned	
Common Name:	ASIAN ELEPHANT	Acquisition Date:	4/1/1990	
Birth Date:	12/30/1969	M01	Current Age:	31 Years 82 Days
Birth Type:	Unknown		Hybrid:	Not a hybrid
Birth Location:			Current Possession:	10 Years 350 Days

Rearing Records**Sex Records**

4/1/1990 Sex: Female

Contraception Records**Parent Records****Identifier Records**

12/30/1969	House Name	Description/Location: DOLLY/
12/2/1994	Global Studbook #	Description/Location: 150/

Event Records

4/1/1990	Purchase	Scope: Complete	Main Collection
	From/To: CAMPBELL (UNK)		

Location Records

4/1/1990 PACHYDERM BLDG Current

3/14/2001

Taxon Name:	Elephas maximus (no subsp)	Status:	Onsite / Owned
Common Name:	ASIAN ELEPHANT	Acquisition Date:	4/1/1990

Notes Records

3/11/2001	Animal management note Anklets on front legs.
3/10/2001	Animal management note Wearing anklets overnight on front legs again. Took Dolly out into yard trying to get her onto driveway, but she was very nervous of poles. Half way thru yard she went down onto her elbows, eyes very big and then bolted back to pool deck. This was read as being aggressive. REMOVED anklest and put all 3 back together.
3/9/2001	Animal management note Wearing front leg anklets overnight to prepare her for load and shipment. Rear anklets will be worn in am.
3/6/2001	Animal management note Hay has a funky odor and it is causing elephants to have a foul smell to their feces. Also, feces are a lot darker in color. Also noticed this with tapir. Record added to: 00427, 00428, 12202
3/5/2001	Animal management note Orangy poops and smell in barn. Vinegar is effecting the elephants? Candy seems to be feeling better. Moving a lot better. Light appetite still. Record added to: 00427, 00428, 12202
2/28/2001	Animal management note Dolly swinging butt towards Mimi, not moving out of her way and Mimi kicking/butting Dolly - smacked bars once and trying to displace Dolly several times. Dolly still in Mimi's face. Record added to: 00427, 00428, 12202
2/22/2001	Medical procedure Exam. Trunk wash, x-rays, etc. Did great.
2/10/2001	Behavior note Not getting along past few days, Dolly the instigator. Record added to: 00428, 12202
1/25/2001	Medical procedure X-ray LF carpus joint.
12/14/2000	Medical procedure Blood drawn on all three. Record added to: 00427, 00428, 12202
10/16/2000	Physical condition Both eyes looking good, no draining.
10/9/2000	Physical condition Eyes not as runny today. Rt eye a bit foamy.
10/8/2000	Physical condition Both eyes a little runny. Not as foamy, but running down face.
10/6/2000	Physical condition Eyes looking good, no discharge.
10/5/2000	Medical treatment Off IBU for now.
9/13/2000	Physical condition Rt eye has been very foamy/watery for past 2 days.
8/28/2000	Physical condition Rt eye not running, but very foamy, thick and white.
8/25/2000	Animal management note Candy worked with on x-ray equipment and is doing very good. Worked with Dolly and Mimi with board. Both did ok. Record added to: 00427, 00428, 12202
8/23/2000	Medical treatment Rx IBU for eyes starting today, both eyes watery today.
8/22/2000	Physical condition Rt eye very watery and has a lot of white foam running from it.
8/14/2000	Physical condition Rt. eye still draining.

3/14/2001

Taxon Name:	Elephas maximus (no subsp)	Status:	Onsite / Owned
Common Name:	ASIAN ELEPHANT	Acquisition Date:	4/1/1990

8/13/2000	Physical condition Has rt eye leaking again. Not too severe, she appears normal.
7/21/2000	Medical treatment Finished treating Dolly's tail, all other treatments continuing as prescribed.
7/16/2000	Physical condition Has another runny eye - her right eye is foamy and leaking today. Mood and appetite seem normal.
7/13/2000	Behavior note Moods are not all that great, becoming more testy with heat wave. Record added to: 00427, 00428, 12202
6/26/2000	Animal management note Tail cleaned, thermazene.
6/25/2000	Animal management note Treatments went great. All got Vit E and mineral salts. Candy infrared on toes and RF, ibuprofen, footsoaks, sill moving slowly. Mimi footsoaks. Dolly hydrotherapy and thermazene (sp?) to tail. Record added to: 00427, 00428, 12202
6/20/2000	Diet Did not eat very well last night. Left lots of hay. Record added to: 12202, 00428, 00427
6/6/2000	Physical condition Rt rear pad and nails trimmed, pad seem thin.
6/5/2000	Behavior note Trumpeted again when sifting CANDY back over trying to get Mimi's attention.
1/31/1997	Note 1ST LOCATION IN U.S. LISTED IN SB IS LITTLE ROCK JULY 9,1984
1/31/1997	Note PURCHASED BY CAMPBELL, LOANED TO METROZOO 12/21/88-4/27/89
1/31/1997	Note ISIS #M01042 AT METROZOO
10/14/1991	Physical condition LEFT FRONT FOOT CIRCUM=42" AND DIA=13"

Measurement Records

5/26/2000	Weight (live)	6,700.00 lb
5/6/1997	Weight (live)	7,000.00 lb
10/20/1995	Weight (live)	3,068.00 kg
3/23/1994	Weight (live)	6,380.00 lb
10/16/1993	Weight (live)	6,110.00 lb
7/22/1992	Weight (live)	7,160.00 lb
10/14/1991	Weight (live)	7,220.00 lb
10/16/1990	Weight (live)	7,080.00 lb
5/17/1989	Weight (live)	6,360.00 lb
10/8/1988	Weight (live)	6,420.00 lb

Complete taxonomic name:

MAMMALIA PROBOSCIDEA Elephantidae *Elephas maximus*

denver zoological foundation^{INC}

2300 STEELE STREET

DENVER, CO 80205-4899

PHONE: 303-376-4800

FAX: 303-376-4801

TDD: 303-376-4802



LOAN AGREEMENT

This Loan Agreement, entered into by:

THE DENVER ZOO (loaning institution)

and

THE DICKERSON ZOO (receiving party)

WHEREAS, THE DENVER ZOO, herein called the LOANER is concerned with the preservation and conservation of all animals; and

WHEREAS, THE DICKERSON ZOO, herein called the LOANEE is concerned with the preservation and conservation of all animals;

NOW, THEREFORE, the parties to the Agreement agree to the following concerning the loan of the specimen listed below:

SPECIMEN	ISIS #	Studbook
0.1 ASIAN ELEPHANT <u>Elephas maximus</u>	12202	150

A. 1. The loaner has loaned to the loanee the above-listed specimen(s).

B. Obligations of the Loaning Institution

1. It is agreed that in the event of diseases, injury or death of the specimen(s) and in the absence of negligence, the receiving institution, its agents and employees will be free of all responsibility to the loaning institution.
2. A detailed copy of all information pertaining to the specimen(s), including, but not restricted to, ISIS data, behavioral traits, medical history, diet, origin and all other pertinent data will be provided by the loaning institution.
3. In the event of intention to sell, trade or otherwise dispose of the specimen(s) the receiving institution shall be given the first right of refusal. In three party agreements, the other Loaning Institution shall be given the second right of refusal.

C. Obligations of the Receiving Institution

1. The receiving institution will provide adequate housing, diet, veterinary care and other necessities conducive to the well-being and reproduction of the specimen(s). Under certain circumstances (bachelor herds, etc.), the specimen may be placed in a non-reproductive situation, but will be maintained in compliance with the above, for subsequent reintroduction into a potential reproductive situation.
2. Any viable young born from a pairing either as a result of Natural Breeding OR Artificial Insemination, and surviving 30 days, either during the term of this Agreement or within a period after termination

officers

Bruce D. Benson
Chairman
John C. North III
Executive Vice Chairman
Bruce S. Wagner
Vice Chairman of Finance
Rollin D. Barnard
Vice Chairman
Marynelle C. Philpott
Vice Chairman
Thomas A. Siratovich
Vice Chairman
Mrs. James S. Ogsbury III
Secretary

trustees

Matthew Auttersson
Dr. Patricia Baca
Raymond T. Baker
Joseph B. Blake
Betty "B. J." Brooks
James P. Craig
Keith C. Douglass
Donald A. Ferguson
Thomas W. Gamel
Bei-Lee Gold
Patrick E. Green
Horace N. (Bud) Hawkins III
Donald L. Kortz
Holly K. Kytberg
Carla Lucero-Kolomitz
Robert J. Malone
Delisa A. Mayer
Joyce H. Patterson
Kathryn A. Paul
Mary Lou Paulsen
Thomas J. Renville
Edward A. Robinson
Carol R. Roddy
Mary Rosenberger
Meyer M. Saltzman
Paul J. Sandoval
Dr. Robert Sawyer
George J. Schmitt
Michael J. Shaw
Sharon K. Swiatek
Frederick B. Taylor
Robert A. Taylor, D.V.M., M.S.
Andrew D. Van Gilder
Jerome F. Wartgow, Ph.D.
Joseph G. Webb
Elaine Wolf
Albert C. Yates, Ph.D.
Evan Zucker

honorary life trustees

Robert G. Bonham
Robert P. Davison
Ruth M. Keesting
William H. Kistler
Gene N. Koelbel
James B. Kurtz
Patricia M. McGrath
Dr. Conrad M. Riley
Charles L. Warren

trustees emeriti

Bruce D. Alexander
John A. Ferguson III
Mrs. Louis Halsell, Jr.
Emmett L. Haywood
Roger E. Johnson
John F. Malo
Robert B. Moch
Horace F. Phelps
Fred L. Pundsack
Mrs. Joseph Silversmith
Mrs. William G. Temple
Mrs. Patrick M. Westfeldt
David C. Wilhelm, Sr.

staff

Clayton F. Freiheit, L.H.D.
President/CEO
Brian W. Klepinger, Ph.D.
Executive Vice President/COO
Donna Mei Lin Driscoll
Treasurer/CFO
Lynn Kramer, D.V.M.
Director of Biological Programs
Bill Coessberg
Director of Park Operations
Angela Baier
Marketing Director
Rosanne Elkins
Development Director
David E. Kenny, V.M.D.
Senior Veterinarian
Craig D. Piper
Director of Education & Vol. Services
Richard P. Reading, Ph.D.
Conservation Biology Director



of this Agreement measured by the normal gestation period of the species will be equally divided among the participating institutions as follows:

The loaning party will be the owner of all offspring.

3. In the event of the specimen(s) being subjected to high risk veterinary or husbandry procedures, permission must first be obtained by phone from the loaning institution before the performance of such procedures. This provision is waived in the event of an emergency. Details of such procedures shall be provided in writing to the loaning institution within ten (10) days.

For any research project in which the specimen(s) may be subjected to manipulation, stress or high-risk procedures, permission must be obtained, in writing, from the appropriate official of the loaning institution.

4. The specimen(s) described in this document will not be transferred to another location outside the receiving institution's contiguous property without first obtaining permission from the loaning institution.
5. The loaning institution will be notified within 24 hours of mortality of the specimen(s). Births, hatchings, serious illness or escape of the specimen(s) shall be reported within 10 days.
6. In the event of the death of the specimen(s) a detailed necropsy will be performed by the receiving institution. A report of the necropsy and its findings will be sent to the Loaning Institution.
7. The carcass and its parts remain the property of the loaning institution. The final disposition of the carcass and parts will be the decision and responsibility of the loaning institution.
8. The receiving institution will provide all information necessary to maintain appropriate studbooks and record keeping systems, including ISIS data, and provide such information to the loaning institution, along with a yearly status report of the specimen(s).
9. A copy of all pertinent records will be sent to the loaning institution upon termination of this Agreement.
10. The loaning institution will be free of any responsibility for any personal injury or property damage due to accident, escape or mishap resulting from this breeding loan.

D. Obligations of Both Institutions

1. All transportation expenses incurred in shipping the specimen(s) to the receiving institution will be borne by the receiving institution; transportation expenses for returning the specimen(s) to the loaning institution will be borne by the loaning institution.
2. This agreement will remain in effect until further notice unless otherwise terminated.
3. Either institution may terminate this agreement by giving the other institution 30 day's written notice.
4. Prior to the shipping of the specimen(s), the receiving institution must be notified at least 14 days in advance; and specific shipping information provided at least 24 hours in advance of actual shipment.

5 The welfare of the specimen(s) shall be the sole goal of arbitration of any conflict that may arise from the implementation of this agreement. In the event of a conflict, the directors of the loaning and receiving institutions shall each nominate five Professional Fellows of the American Zoo and Aquarium Association. The Professional Fellows must agree, in writing, to serve as arbitrators. The lending institution would then delete a name from the receiving institution's list, the receiving institution would then delete a name from the lending institution's list and so on until three names remain. The remaining Professional Fellows shall arbitrate the dispute, and all participating institutions will agree to abide by their decision.

6. This loan will be re-evaluated four years from the execution date.

Said Agreement executed 12 March 2001

Signature *Lynn Kramer*

Title: Vice President of Biological Programs
The Denver Zoo

Signature _____

Title: _____
The Dickerson Zoo

denver zoological foundation

2300 STEELE STREET

DENVER, CO 80205-4899

PHONE: 303-376-4800

FAX: 303-376-4801

TDD: 303-376-4802



LOAN AGREEMENT

This Loan Agreement, entered into by:

THE DENVER ZOO (loaning institution)

and

THE DICKERSON ZOO (receiving party)

WHEREAS, THE DENVER ZOO, herein called the LOANER is concerned with the preservation and conservation of all animals; and

WHEREAS, THE DICKERSON ZOO, herein called the LOANEE is concerned with the preservation and conservation of all animals;

NOW, THEREFORE, the parties to the Agreement agree to the following concerning the loan of the specimen listed below:

SPECIMEN	ISIS #	Studbook
0.1 ASIAN ELEPHANT <u>Elephas maximus</u>	12202	150

A. 1. The loaner has loaned to the loanee the above-listed specimen(s).

B. Obligations of the Loaning Institution

1. It is agreed that in the event of diseases, injury or death of the specimen(s) and in the absence of negligence, the receiving institution, its agents and employees will be free of all responsibility to the loaning institution.
2. A detailed copy of all information pertaining to the specimen(s), including, but not restricted to, ISIS data, behavioral traits, medical history, diet, origin and all other pertinent data will be provided by the loaning institution.
3. In the event of intention to sell, trade or otherwise dispose of the specimen(s) the receiving institution shall be given the first right of refusal. In three party agreements, the other Loaning Institution shall be given the second right of refusal.

C. Obligations of the Receiving Institution

1. The receiving institution will provide adequate housing, diet, veterinary care and other necessities conducive to the well-being and reproduction of the specimen(s). Under certain circumstances (bachelor herds, etc.), the specimen may be placed in a non-reproductive situation, but will be maintained in compliance with the above, for subsequent reintroduction into a potential reproductive situation.
2. Any viable young born from a pairing either as a result of Natural Breeding OR Artificial Insemination, and surviving 30 days, either during the term of this Agreement or within a period after termination

officers

Bruce D. Benson
Chairman
John C. North III
Executive Vice Chairman
Bruce S. Wagner
Vice Chairman of Finance
Rollin D. Barnard
Vice Chairman
Marynelle C. Philpott
Vice Chairman
Thomas A. Sratovich
Vice Chairman
Mrs. James S. Ogsbury III
Secretary

trustees

Matthew Auttersson
Dr. Patricia Baca
Raymond T. Baker
Joseph B. Blake
Betty "B. J." Brooks
James P. Craig
Keith C. Douglass
Donald A. Ferguson
Thomas W. Gamel
Bei-Lee Gold
Patrick E. Green
Horace N. (Bud) Hawkins III
Donald L. Kortz
Holly K. Kylberg
Carla Lucero-Kolomitz
Robert J. Malone
Delisa A. Mayer
Joyce H. Patterson
Kathryn A. Paul
Mary Lou Paulsen
Thomas J. Renville
Edward A. Robinson
Carol R. Roddy
Mary Rosenberger
Meyer M. Saltzman
Paul J. Sandoval
Dr. Robert Sawyer
George J. Schmitt
Michael J. Shaw
Sharon K. Swiatek
Frederick B. Taylor
Robert A. Taylor, D.V.M., M.S.
Andrew D. Van Gilder
Jerome F. Wartgow, Ph.D.
Joseph G. Webb
Elaine Wolf
Albert C. Yates, Ph.D.
Evan Zucker

honorary life trustees

Robert G. Bonham
Robert P. Davison
Ruth M. Keesling
William H. Kistler
Gene N. Koelbel
James B. Kurtz
Patricia M. McGrath
Dr. Conrad M. Riley
Charles L. Warren

trustees emeriti

Bruce D. Alexander
John A. Ferguson III
Mrs. Louis Halsell, Jr.
Emmett L. Haywood
Roger E. Johnson
John F. Malo
Robert B. Moch
Horace F. Phelps
Fred L. Pundsack
Mrs. Joseph Silversmith
Mrs. William G. Temple
Mrs. Patrick M. Westfield
David C. Wilhelm, Sr.

staff

Clayton F. Freiheit, L.H.D.
President/CEO
Brian W. Klepinger, Ph.D.
Executive Vice President/COO
Donna Mei Lin Driscoll
Treasurer/CFO
Lynn Kramer, D.V.M.
Director of Biological Programs
Bill Lössberg -
Director of Park Operations
Angela Baier
Marketing Director
Rosanne Elkins
Development Director
David E. Kenny, V.M.D.
Senior Veterinarian
Craig D. Piper
Director of Education & Vol. Services
Richard P. Reading, Ph.D.
Conservation Biology Director



of this Agreement measured by the normal gestation period of the species will be equally divided among the participating institutions as follows:

The loaning party will be the owner of all offspring.

3. In the event of the specimen(s) being subjected to high risk veterinary or husbandry procedures, permission must first be obtained by phone from the loaning institution before the performance of such procedures. This provision is waived in the event of an emergency. Details of such procedures shall be provided in writing to the loaning institution within ten (10) days.

For any research project in which the specimen(s) may be subjected to manipulation, stress or high-risk procedures, permission must be obtained, in writing, from the appropriate official of the loaning institution.

4. The specimen(s) described in this document will not be transferred to another location outside the receiving institution's contiguous property without first obtaining permission from the loaning institution.
5. The loaning institution will be notified within 24 hours of mortality of the specimen(s). Births, hatchings, serious illness or escape of the specimen(s) shall be reported within 10 days.
6. In the event of the death of the specimen(s) a detailed necropsy will be performed by the receiving institution. A report of the necropsy and its findings will be sent to the Loaning Institution.
7. The carcass and its parts remain the property of the loaning institution. The final disposition of the carcass and parts will be the decision and responsibility of the loaning institution.
8. The receiving institution will provide all information necessary to maintain appropriate studbooks and record keeping systems, including ISIS data, and provide such information to the loaning institution, along with a yearly status report of the specimen(s).
9. A copy of all pertinent records will be sent to the loaning institution upon termination of this Agreement.
10. The loaning institution will be free of any responsibility for any personal injury or property damage due to accident, escape or mishap resulting from this breeding loan.

D. Obligations of Both Institutions

1. All transportation expenses incurred in shipping the specimen(s) to the receiving institution will be borne by the receiving institution; transportation expenses for returning the specimen(s) to the loaning institution will be borne by the loaning institution.
2. This agreement will remain in effect until further notice unless otherwise terminated.
3. Either institution may terminate this agreement by giving the other institution 30 day's written notice.
4. Prior to the shipping of the specimen(s), the receiving institution must be notified at least 14 days in advance; and specific shipping information provided at least 24 hours in advance of actual shipment.

5 The welfare of the specimen(s) shall be the sole goal of arbitration of any conflict that may arise from the implementation of this agreement. In the event of a conflict, the directors of the loaning and receiving institutions shall each nominate five Professional Fellows of the American Zoo and Aquarium Association. The Professional Fellows must agree, in writing, to serve as arbitrators. The lending institution would then delete a name from the receiving institution's list, the receiving institution would then delete a name from the lending institution's list and so on until three names remain. The remaining Professional Fellows shall arbitrate the dispute, and all participating institutions will agree to abide by their decision.

6. This loan will be re-evaluated four years from the execution date.

Said Agreement executed 12 March 2001

Signature *Lynn Kramer*

Title: Vice President of Biological Programs
The Denver Zoo

Signature _____

Title: _____
The Dickerson Zoo

AMERICAN ASSOCIATION of ZOO VETERINARIANS

STANDARD CERTIFICATE OF VETERINARY INSPECTION

027696

OWNER *Advent Biological Services* CONSIGNEE *Dickason Park Zoo* DATE issued *3/14/01*

ADDRESS *2000 S. 23rd Avenue* ADDRESS *1111 1/2nd Street* Mode of Transport Land Air Sea

PHONE *303-236-6500* PHONE *303-236-1570* NAME OF AGENT

ANIMAL I.D. Tattoo Band Tag Etc.	NAME Common Scientific	PHYSICAL DESCRIPTION Age Sex Weight Other	HISTORY									
12202	<i>Asian Elephant (Elephas maximus)</i>	<i>Female 12/30/00</i>	<p>Date of Vaccination including name of product used</p> <p>Date of last deworming including name of product used</p> <p>Housed with other animals</p> <p>Recent Health problems with similar or adjacent species</p> <p>Given name and dosage of all drugs given prior to or during transport (include anti-biotics, restraint or immobilizing drugs)</p> <p>Tuberculin Used and Dosage Site of injection</p> <p><input type="checkbox"/> Mammalian old tuberculin results: <input type="checkbox"/> Pos <input type="checkbox"/> Neg <input type="checkbox"/> Suspicious</p> <p><input type="checkbox"/> Bovine PPD</p> <p>Other (specify)</p> <p>EIA results for Equine <input type="checkbox"/> Positive <input type="checkbox"/> Negative</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2">Test Dilution</th> <th rowspan="2">Results</th> </tr> <tr> <td>1-50</td> <td>1-100</td> <td>1-200</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table> <p>Brucellosis Test for Ruminants</p> <p>Method of Examination <input type="checkbox"/> Visual <input checked="" type="checkbox"/> Physical</p> <p>Physical Exam -- no abnormalities noted at this time. This AA animal appears to be free of infectious diseases at this time.</p> <p>Trunk Wash Samples for Mycobacterial Culture. Received in Ames IA on 1/11/01. Report indicating that cultures were negative received on 3/7/01.</p> <p>Medical records included.</p>	Test Dilution		Results	1-50	1-100	1-200			
Test Dilution		Results										
1-50	1-100		1-200									

"I certify, as an accredited veterinarian, that the above described animals have been inspected by me and that they are not showing signs of infectious, contagious, and/or communicable disease, (except where noted). The vaccinations and results of tests are as indicated on the certificate. To the best of my knowledge, the animals listed on this certificate meet the state of destination and federal interstate requirements. No further warranty is made or implied.

Permit Obtained if Required Yes No

White Copy — State Veterinarian Office
 Green Copy — State Veterinarian Office
 Yellow Copy — Issuing Veterinarian
 Pink Copy — Accompany Shipment
 Orange Copy — Owner

SIGNATURE *[Signature]* Jeff Baker, MS, DVM, #5924 DVM AAZV Member
 ADDRESS *1300 Steele Street, Denver, CO 80205* Non Member

APPROVED BY State Veterinarian

OWNER/AGENT STATEMENT: The animals in this shipment are as certified to and listed on this certificate.