

**SUMMARY OF LAMBIDAS  
IN NORTH AMERICAN CAPTIVE POPULATIONS OF  
RHINO**

**Eastern Black Rhino  
*Diceros bicornis michaeli***

ENTIRE POPULATION

1971-1991: 1.005  
1981-1991: 1.020

CORE POPULATION

1971-1991: 1.035  
1981-1991: 1.040

CORE POP.: Chicago Brookfield, Cincinnati, Denver, Los Angeles, Metrozoo Miami, San Antonio, San Francisco, St. Louis, San Diego Wild Animal Park, San Diego Zoo

**Greater One-Horned Asian Rhino  
*Rhinoceros unicornis***

ENTIRE POPULATION

1981-1991: 1.044

T.J. Foose  
Robert Reece  
Karen Wachs  
15 September 1991

**BIRTHS & DEATHS - 1981 TO 1991**  
**IN NORTH AMERICAN CAPTIVE POPULATIONS OF**  
*Diceros bicornis michaeli*

**ENTIRE POPULATION**

<u>YEAR</u>	<u>BIRTHS</u>	<u>DEATHS</u>	<u>BIRTHS/FEMALES&gt;AGE 7</u>
1981	4 (2.2)	2 (1.1)	4/31
1982	6 (2.4)	6 (3.3)	6/30
1983	3 (2.1)	2 (1.1)	3/30
1984	0 (0.0)	0 (0.1)	0/29
1985	7 (2.5)	4 (3.1)	7/28
1986	7 (4.3)	8 (4.4)*	7/27
1987	2 (2.0)	4 (3.1)	2/24
1988	5 (2.3)	2 (1.1)	5/26
1989	4 (2.2)	5 (1.4)	4/29
1990	5 (2.3)	2 (0.2)	5/27
1991	<u>1 (0.1)</u>	<u>1 (0.1)</u>	<u>1/27</u>
	43 (20.23)	37 (18.19)	4/28 (14%)

\* 5 (4.1) are estimated dates of death for animals in St. Felicien, Oklahoma, and Granby.

BIRTH INTERVAL DATA:

Number of intervals: 24

Range: 494 - 1633 months

Number of females: 13

Median: 808 months

Mean: 909 months

**CORE POPULATION \***

<u>YEAR</u>	<u>BIRTHS</u>	<u>DEATHS</u>	<u>BIRTHS/FEMALES&gt;AGE 7</u>
1981	3 (2.1)	2 (1.1)	3/20
1982	3 (0.3)	1 (0.1)	3/20
1983	2 (2.0)	0 (0.0)	2/21
1984	0 (0.0)	1 (0.1)	0/21
1985	5 (1.4)	1 (0.1)	5/20
1986	5 (2.1)	1 (0.1)	5/19
1987	2 (2.0)	1 (1.0)	2/19
1988	5 (2.3)	1 (1.0)	5/20
1989	2 (1.1)	4 (0.4)	2/23
1990	5 (2.3)	1 (0.1)	5/21
1991	<u>1 (0.1)</u>	<u>1 (0.1)</u>	<u>1/21</u>
	33 (14.17)	14 (3.11)	3/20 (15%)

BIRTH INTERVAL DATA:

Number of intervals: 20

Range: 494 - 1633 months

Number of females: 11

Median: 753 months

Mean: 878 months

\* CORE: Chicago Brookfield, Cincinnati, Denver, Los Angeles, Metrozoo Miami, San Antonio, San Francisco, St. Louis, San Diego Wild Animal Park, San Diego Zoo

Fecundity & Mortality Report  
 EASTERN BLACK RHINO Studbook

Restricted to:

Dates: During 01/01/1971 <= date

Taxon Name: DICEROS BICORNIS MICHAELI

Age Class	Fecundity [Mx]...				Mortality [Qx]...			
	Male	N	Female	N	Male	N	Female	N
0- 1	0.00	29.4	0.00	33.0	0.12	34.3	0.08	37.0
1- 2	0.00	29.3	0.00	32.9	0.04	28.2	0.03	32.8
2- 3	0.00	26.3	0.00	30.8	0.00	26.3	0.06	31.3
3- 4	0.00	25.2	0.00	32.2	0.00	24.6	0.03	30.8
4- 5	0.00	23.3	0.03	32.4	0.00	23.3	0.03	32.0
5- 6	0.03	19.2	0.00	31.8	0.00	19.2	0.00	31.8
6- 7	0.08	19.0	0.03	29.9	0.00	18.2	0.00	29.9
7- 8	0.07	21.0	0.02	30.0	0.00	20.3	0.00	30.0
8- 9	0.08	20.0	0.07	30.2	0.05	20.0	0.03	29.6
9-10	0.10	20.1	0.02	28.3	0.05	19.9	0.00	28.3
10-11	0.17	18.5	0.08	29.8	0.00	18.5	0.00	29.0
11-12	0.15	16.4	0.06	27.2	0.00	16.4	0.07	27.0
12-13	0.16	15.9	0.07	28.0	0.00	15.9	0.00	28.0
13-14	0.04	13.1	0.11	28.0	0.08	13.0	0.00	28.0
14-15	0.00	13.4	0.06	26.6	0.00	13.4	0.12	25.0
15-16	0.11	14.0	0.09	23.3	0.00	14.0	0.04	22.5
16-17	0.15	14.0	0.07	22.2	0.00	14.0	0.10	21.0
17-18	0.10	14.7	0.10	20.7	0.00	14.7	0.00	20.7
18-19	0.07	15.0	0.10	20.0	0.00	15.0	0.00	20.0
19-20	0.03	15.7	0.05	18.3	0.00	15.7	0.00	18.3
20-21	0.03	15.0	0.06	17.1	0.07	15.0	0.00	17.1
21-22	0.04	13.9	0.07	14.5	0.00	13.4	0.07	14.0
22-23	0.00	12.3	0.00	11.4	0.08	12.0	0.00	11.4
23-24	0.09	11.7	0.05	9.7	0.00	11.0	0.00	9.7
24-25	0.06	8.7	0.11	9.0	0.37	8.0	0.00	9.0
25-26	0.06	8.0	0.00	9.0	0.00	7.5	0.00	9.0
26-27	0.07	7.1	0.00	9.0	0.14	7.0	0.00	9.0
27-28	0.08	6.7	0.06	8.7	0.00	6.7	0.00	8.2
28-29	0.00	5.5	0.00	7.5	0.20	5.0	0.15	6.7
29-30	0.20	5.0	0.00	5.7	0.00	5.0	0.00	5.7
30-31	0.00	5.0	0.00	3.8	0.00	5.0	0.00	3.8
31-32	0.10	5.0	0.00	3.0	0.00	5.0	0.00	3.0
32-33	0.00	5.0	0.00	2.7	0.00	4.0	0.00	2.7
33-34	0.00	3.4	0.00	2.0	0.50	4.0	0.00	2.0
34-35	0.17	3.0	0.00	2.0	0.00	3.0	0.00	2.0
35-36	0.00	3.0	0.00	1.1	0.00	3.0	1.00	1.0
36-37	0.17	3.0	0.00	0.7	0.00	3.0	0.00	0.7
37-38	0.00	2.7	0.00	0.0	0.00	2.7	0.00	0.0
38-39	0.00	2.0	0.00	0.0	0.00	2.0	0.00	0.0
39-40	0.00	1.7	0.00	0.0	0.00	1.7	0.00	0.0
40-41	0.00	0.7	0.00	0.0	0.00	0.7	0.00	0.0
41-42	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
42-43	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0

T = 15.315  
 Ro = 1.326  
 lambda=1.02  
 r = 0.018

T = 14.957  
 Ro = 0.808  
 lambda=0.99  
 r = -0.014

30 day mortality: 10%  
 (6 out of 63)

56 birth events to known age parents tabulated for Mx...plus...

1 births to UNK or MULT sires...

37 death events of known age tabulated for Qx...

WARNING: Values with small sample sizes (N) warrant less confidence...

Fecundity & Mortality Report

Restricted to:

EASTERN BLACK RHINO Studbook

Locations: CHICAGOBR/CINCINNAT/DENVER /LOSANGELE/METROZOO /SAN ANTON/ST LOUIS  
 SAN FRAN /SD-WAP /SANDIEGOZ/

Dates: During 01/01/1971 <= date

Taxon Name: DICEROS BICORNIS MICHAELI

Age Class	Fecundity [Mx]...				Mortality [Qx]...			
	Male	N	Female	N	Male	N	Female	N
0- 1	0.00	19.7	0.00	19.4	0.05	20.7	0.13	23.1
1- 2	0.00	14.2	0.00	14.3	0.00	13.4	0.00	14.3
2- 3	0.00	10.7	0.00	10.0	0.00	10.7	0.10	9.6
3- 4	0.00	10.7	0.00	10.8	0.00	10.7	0.00	10.8
4- 5	0.00	11.0	0.04	12.1	0.00	11.0	0.00	12.1
5- 6	0.00	10.8	0.00	13.2	0.00	10.8	0.00	13.2
6- 7	0.14	10.4	0.00	11.9	0.00	10.4	0.00	11.9
7- 8	0.09	11.0	0.04	11.9	0.00	11.0	0.00	11.9
8- 9	0.14	10.4	0.12	12.8	0.10	10.4	0.00	12.8
9-10	0.10	10.0	0.00	12.9	0.00	10.0	0.00	12.9
10-11	0.25	10.0	0.14	14.2	0.00	10.0	0.00	14.2
11-12	0.17	8.9	0.11	14.1	0.00	8.9	0.07	14.0
12-13	0.28	8.9	0.13	15.0	0.00	8.9	0.00	15.0
13-14	0.07	7.0	0.10	15.0	0.00	7.0	0.00	15.0
14-15	0.00	6.7	0.10	15.6	0.00	6.7	0.07	14.9
15-16	0.14	7.0	0.10	14.5	0.00	7.0	0.00	14.5
16-17	0.21	7.0	0.11	13.8	0.00	7.0	0.07	13.6
17-18	0.13	7.7	0.15	13.3	0.00	7.7	0.00	13.3
18-19	0.07	7.0	0.12	13.0	0.00	7.0	0.00	13.0
19-20	0.00	6.7	0.09	11.6	0.00	6.7	0.00	11.6
20-21	0.08	6.0	0.05	11.1	0.00	6.0	0.00	11.1
21-22	0.00	5.4	0.12	8.5	0.00	5.4	0.13	8.0
22-23	0.00	5.0	0.00	5.8	0.00	5.0	0.00	5.8
23-24	0.10	5.0	0.11	4.7	0.00	5.0	0.00	4.7
24-25	0.13	3.7	0.13	4.0	0.33	3.0	0.00	4.0
25-26	0.20	2.5	0.00	3.5	0.00	2.0	0.00	3.5
26-27	0.25	2.0	0.00	3.0	0.00	2.0	0.00	3.0
27-28	0.25	2.0	0.00	3.5	0.00	2.0	0.00	3.5
28-29	0.00	2.0	0.00	3.5	0.00	2.0	0.37	2.7
29-30	0.50	2.0	0.00	2.0	0.00	2.0	0.00	2.0
30-31	0.00	2.0	0.00	1.7	0.00	2.0	0.00	1.7
31-32	0.25	2.0	0.00	1.0	0.00	2.0	0.00	1.0
32-33	0.00	2.0	0.00	1.0	0.00	2.0	0.00	1.0
33-34	0.00	1.1	0.00	1.0	0.00	1.0	0.00	1.0
34-35	0.50	1.0	0.00	1.0	0.00	1.0	0.00	1.0
35-36	0.00	1.0	0.00	0.1	0.00	1.0	0.00	0.0
36-37	0.50	1.0	0.00	0.0	0.00	1.0	0.00	0.0
37-38	0.00	0.7	0.00	0.0	0.00	0.7	0.00	0.0
38-39	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
39-40	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0

T = 20.891  
 Ro = 3.185  
 lambda=1.06  
 r = 0.055

T = 14.803  
 Ro = 1.174  
 lambda=1.01  
 r = 0.011

30 day mortality: 7%  
 (3 out of 43)

42 birth events to known age parents tabulated for Mx...

13 death events of known age tabulated for Qx...

WARNING: Values with small sample sizes (N) warrant less confidence...

Fecundity & Mortality Report

Restricted to: EASTERN BLACK RHINO Studbook

Dates: During 01/01/1981 <= date

Taxon Name: DICEROS BICORNIS MICHAELI

Age Class	Fecundity [Mx]...				Mortality [Qx]...			
	Male	N	Female	N	Male	N	Female	N
0- 1	0.00	20.6	0.00	21.7	0.16	25.5	0.12	24.8
1- 2	0.00	21.2	0.00	18.3	0.05	20.7	0.05	18.2
2- 3	0.00	18.9	0.00	14.8	0.00	18.9	0.13	15.3
3- 4	0.00	17.8	0.00	10.4	0.00	17.8	0.10	10.2
4- 5	0.00	17.1	0.09	10.9	0.00	17.1	0.10	10.5
5- 6	0.04	13.2	0.00	11.0	0.00	13.2	0.00	11.0
6- 7	0.14	11.0	0.10	9.7	0.00	11.0	0.00	9.7
7- 8	0.13	12.0	0.05	11.0	0.00	12.0	0.00	11.0
8- 9	0.14	10.7	0.17	11.6	0.09	10.7	0.08	12.2
9-10	0.20	10.1	0.05	11.1	0.10	9.9	0.00	11.1
10-11	0.34	9.0	0.19	13.4	0.00	9.0	0.00	12.5
11-12	0.27	9.4	0.11	14.1	0.00	9.4	0.14	13.9
12-13	0.32	7.9	0.13	16.0	0.00	7.9	0.00	16.0
13-14	0.09	5.7	0.14	20.7	0.18	5.7	0.00	20.7
14-15	0.00	5.4	0.08	19.6	0.00	5.4	0.17	18.0
15-16	0.31	5.0	0.12	16.3	0.00	5.0	0.06	15.5
16-17	0.29	7.0	0.11	14.2	0.00	7.0	0.15	13.0
17-18	0.18	8.7	0.15	13.7	0.00	8.7	0.00	13.7
18-19	0.12	8.3	0.14	14.0	0.00	8.3	0.00	14.0
19-20	0.05	9.7	0.07	13.9	0.00	9.7	0.00	13.9
20-21	0.06	8.0	0.07	15.1	0.13	8.0	0.00	15.1
21-22	0.07	6.9	0.09	11.5	0.00	6.4	0.09	11.0
22-23	0.00	6.3	0.00	9.4	0.17	6.0	0.00	9.4
23-24	0.18	5.7	0.06	7.7	0.00	5.0	0.00	7.7
24-25	0.14	3.7	0.14	7.0	1.00	3.0	0.00	7.0
25-26	0.13	4.0	0.00	7.0	0.00	3.5	0.00	7.0
26-27	0.16	3.1	0.00	8.0	0.33	3.0	0.00	8.0
27-28	0.14	3.7	0.06	7.7	0.00	3.7	0.00	7.2
28-29	0.00	3.5	0.00	6.5	0.33	3.0	0.18	5.7
29-30	0.25	4.0	0.00	4.7	0.00	4.0	0.00	4.7
30-31	0.00	5.0	0.00	2.8	0.00	5.0	0.00	2.8
31-32	0.10	5.0	0.00	3.0	0.00	5.0	0.00	3.0
32-33	0.00	5.0	0.00	2.7	0.00	4.0	0.00	2.7
33-34	0.00	3.4	0.00	2.0	0.50	4.0	0.00	2.0
34-35	0.17	3.0	0.00	2.0	0.00	3.0	0.00	2.0
35-36	0.00	3.0	0.00	1.1	0.00	3.0	1.00	1.0
36-37	0.17	3.0	0.00	0.7	0.00	3.0	0.00	0.7
37-38	0.00	2.7	0.00	0.0	0.00	2.7	0.00	0.0
38-39	0.00	2.0	0.00	0.0	0.00	2.0	0.00	0.0
39-40	0.00	1.7	0.00	0.0	0.00	1.7	0.00	0.0
40-41	0.00	0.7	0.00	0.0	0.00	0.7	0.00	0.0
41-42	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
42-43	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0

T = 12.381  
 Ro = 1.775  
 lambda=1.05  
 r = 0.046

T = 12.815  
 Ro = 0.881  
 lambda=0.99  
 r = -0.010

30 day mortality: 13%  
 (6 out of 46)

56 birth events to known age parents tabulated for Mx...plus...

1 births to UNK or MULT sires...

37 death events of known age tabulated for Qx...

WARNING: Values with small sample sizes (N) warrant less confidence...

Fecundity & Mortality Report

Restricted to: EASTERN BLACK RHINO Studbook  
 Locations: CHICAGOBR/CINCINNAT/DENVER /LOSANGELE/METROZOO /SAN ANTON/ST LOUIS  
 SAN FRAN /SD-WAP /SANDIEGOZ/  
 Dates: During 01/01/1981 <= date

=====  
 Taxon Name: DICEROS BICORNIS MICHAELI  
 =====

Age Class	Fecundity [Mx]...				Mortality [Qx]...			
	Male	N	Female	N	Male	N	Female	N
0- 1	0.00	16.2	0.00	16.0	0.06	17.2	0.16	18.8
1- 2	0.00	12.0	0.00	9.3	0.00	11.2	0.00	9.3
2- 3	0.00	8.0	0.00	4.5	0.00	8.0	0.25	4.0
3- 4	0.00	7.0	0.00	4.0	0.00	7.0	0.00	4.0
4- 5	0.00	7.0	0.09	5.5	0.00	7.0	0.00	5.5
5- 6	0.00	6.8	0.00	5.7	0.00	6.8	0.00	5.7
6- 7	0.23	6.4	0.00	3.9	0.00	6.4	0.00	3.9
7- 8	0.13	8.0	0.17	3.0	0.00	8.0	0.00	3.0
8- 9	0.22	6.7	0.35	2.8	0.15	6.7	0.00	2.8
9-10	0.14	7.0	0.00	3.9	0.00	7.0	0.00	3.9
10-11	0.33	7.5	0.20	7.4	0.00	7.5	0.00	7.4
11-12	0.19	7.9	0.15	10.0	0.00	7.9	0.10	9.9
12-13	0.36	6.9	0.18	11.0	0.00	6.9	0.00	11.0
13-14	0.09	5.7	0.13	12.0	0.00	5.7	0.00	12.0
14-15	0.00	5.4	0.12	12.6	0.00	5.4	0.08	11.9
15-16	0.20	5.0	0.13	11.5	0.00	5.0	0.00	11.5
16-17	0.30	5.0	0.14	10.8	0.00	5.0	0.09	10.6
17-18	0.11	4.7	0.19	10.3	0.00	4.7	0.00	10.3
18-19	0.13	4.0	0.14	11.0	0.00	4.0	0.00	11.0
19-20	0.00	3.7	0.10	9.6	0.00	3.7	0.00	9.6
20-21	0.00	3.0	0.05	10.1	0.00	3.0	0.00	10.1
21-22	0.00	2.4	0.15	6.5	0.00	2.4	0.17	6.0
22-23	0.00	3.0	0.00	4.8	0.00	3.0	0.00	4.8
23-24	0.17	3.0	0.14	3.7	0.00	3.0	0.00	3.7
24-25	0.26	2.0	0.17	3.0	0.78	1.3	0.00	3.0
25-26	0.33	1.5	0.00	2.5	0.00	1.0	0.00	2.5
26-27	0.50	1.0	0.00	2.0	0.00	1.0	0.00	2.0
27-28	0.25	2.0	0.00	2.5	0.00	2.0	0.00	2.5
28-29	0.00	2.0	0.00	2.5	0.00	2.0	0.59	1.7
29-30	0.50	2.0	0.00	1.0	0.00	2.0	0.00	1.0
30-31	0.00	2.0	0.00	0.7	0.00	2.0	0.00	0.7
31-32	0.25	2.0	0.00	1.0	0.00	2.0	0.00	1.0
32-33	0.00	2.0	0.00	1.0	0.00	2.0	0.00	1.0
33-34	0.00	1.1	0.00	1.0	0.00	1.0	0.00	1.0
34-35	0.50	1.0	0.00	1.0	0.00	1.0	0.00	1.0
35-36	0.00	1.0	0.00	0.1	0.00	1.0	0.00	0.0
36-37	0.50	1.0	0.00	0.0	0.00	1.0	0.00	0.0
37-38	0.00	0.7	0.00	0.0	0.00	0.7	0.00	0.0
38-39	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
39-40	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0

T = 15.746      T = 13.289      30 day mortality: 9%  
 Ro = 2.672      Ro = 1.377      (3 out of 35)  
 lambda=1.06      lambda=1.02  
 r = 0.062      r = 0.024

40 birth events to known age parents tabulated for Mx...

13 death events of known age tabulated for Qx...

WARNING: Values with small sample sizes (N) warrant less confidence...

EASTERN BLACK RHINO Studbook  
(Diceros bicornis michaeli)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
34	M	~ 1965	WILD	WILD	AFRICAN	~ 1965	UNK	Wild Born	AFRICAN	23 Apr 1987
					ITALY	5 Jul 1966	UNK	ITALY		
					ATLANTA	26 Sep 1972	UNK	U.S.A.		
						23 Apr 1987 (died)				
38	F	~ 1961	WILD	WILD	AFRICAN	~ 1961	UNK	Wild Born	AFRICAN	28 Oct 1989
					ITALY	26 Oct 1962	UNK	ITALY		
					ATLANTA	23 Nov 1968	UNK	U.S.A.		
					METROZOO	1 Jul 1988	M00966	U.S.A.		
	28 Oct 1989 (died)									
52	M	~ 1964	WILD	WILD	AFRICAN	~ 1964	UNK	Wild Born	AFRICAN	1 Sep 1988
					DETROIT	19 Jun 1967	UNK	U.S.A.		
					METROZOO	16 Jul 1985	M00442	U.S.A.		
	1 Sep 1988 (died)									
53	F	~ 1962	WILD	WILD	KENYA	1 Jun 1965	UNK	Wild Born	KENYA	
					FERNDAL	5 Sep 1965	UNK	U.S.A.		
					DETROIT	30 Sep 1965	UNK	U.S.A.		
					(OKLAHOMA )	5 Jun 1985	UNK	U.S.A.		
					(SEDGWICK )	2 Aug 1988	3327			
54	M	19 Apr 1962	T2020	T2023	DETROIT	19 Apr 1962	UNK	Captive Born	U.S.A.	~ 1986
					OKLAHOMA	28 Jun 1963	024701	U.S.A.		
						~ 1986 (died)				
55	F	27 Jul 1961	56	57	CINCINNAT	27 Jul 1961	UNK	Captive Born	U.S.A.	
					ZEEHANDLR	19 Jun 1962	UNK	U.S.A.		
					SHEPHERD	~ 1963	UNK	U.S.A.		
					CHICAGOLP	~ 1963	UNK	U.S.A.		
					OKLAHOMA	28 Jun 1963	UNK	U.S.A.		
					(DETROIT )	5 Jun 1985	1442	U.S.A.		
56	M	1 Apr 1956	WILD	WILD	W.GERMANY	1 Apr 1956	UNK	Captive Born	W.GERMANY	18 Aug 1989
					MIAMI	~ 1957	UNK			
					CINCINNAT	14 May 1957	M14004	U.S.A.		
					OKLAHOMA	20 Apr 1989	490219	U.S.A.		
						18 Aug 1989 (died)				
63	F	~ 1972	WILD	WILD	KENYA	1 Jan 1963	UNK	Wild Born	KENYA	12 May 1981
					KANSASCTY	26 Apr 1963	UNK	U.S.A.		
					WICHITA	24 May 1972	UNK	U.S.A.		
					OKLAHOMA	15 Jan 1974	UNK	U.S.A.		
						12 May 1981 (died)				
66	M	~ 1953	WILD	WILD	AFRICAN	~ 1953	UNK	Wild Born	AFRICAN	~ 1986
					DALLAS	1 Oct 1959	001043	U.S.A.		
						~ 1986 (died)				
67	F	~ 1955	WILD	WILD	KENYA	~ 1956	UNK	Wild Born	KENYA	
					ZEEHANDLR	~ 1956	UNK	U.S.A.		
					DALLAS	1 Sep 1956	001029	U.S.A.		

**EASTERN BLACK RHINO Studbook**  
(*Diceros bicornis michaeli*)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
68	M	- 1951	WILD	WILD	KENYA	1 Jun 1950	UNK	Wild Born	KENYA	
					BASEL	- 1951	UNK		SWITZRLND	
					COLUMBUS	1 Jan 1954	542001		U.S.A.	
71	M	- 1956	WILD	WILD	KENYA	1 Jan 1957	UNK	Wild Born	KENYA	
					COLO SPRG	21 May 1957	UNK		U.S.A.	
						5 Nov 1982 (died)				5 Nov 1982
72	F	- 1967	WILD	WILD	KENYA	1 Jan 1967	UNK	Wild Born	KENYA	
					COLO SPRG	26 Jun 1967	UNK		U.S.A.	
						13 Jan 1983 (died)				13 Jan 1983
74	M	- 1954	WILD	WILD	AFRICAN	- 1956	UNK	Wild Born	AFRICAN	
					SAN FRAN	22 Nov 1956	1564		U.S.A.	
76	F	- 1963	WILD	WILD	KENYA	- 1966	UNK	Wild Born	KENYA	
					FERNDAL	- 1966	UNK		U.S.A.	
					LOSANGELE	3 Oct 1966	02774		U.S.A.	
78	F	- 1950	WILD	WILD	SANDIEGOZ	30 Aug 1952	152002	Wild Born	U.S.A.	
					AFRICAN	23 Jun 1975	UNK		AFRICAN	
					SANDIEGOZ	7 Feb 1985 (died)			U.S.A.	7 Feb 1985
79	M	- 1962	WILD	WILD	AFRICAN	- 1962	UNK	Wild Born	AFRICAN	
					GRANBY	11 May 1966	238638		CANADA	
						- 1986 (died)				- 1986
104	F	3 Jan 1968	7	8	HANNOVER	3 Jan 1968	UNK	Captive Born	W.GERMANY	
					BUDAPEST	20 Jun 1969	UNK		HUNGARY	
					SD-WAP	25 Jun 1983	UNK		U.S.A.	
						21 Mar 1984 (died)				21 Mar 1984
110	M	31 Aug 1967	46	47	NZP-WASH	31 Aug 1967	UNK	Captive Born	U.S.A.	
					SD-WAP	18 Apr 1970	100285		U.S.A.	
					SANDIEGOZ	11 Jan 1983	100285		U.S.A.	
121	F	- 1961	WILD	WILD	KENYA	- 1965	UNK	Wild Born	KENYA	
					ST LOUIS	16 Jun 1965	065411		U.S.A.	
124	M	- 1959	WILD	WILD	KENYA	- 1960	UNK	Wild Born	KENYA	
					DENVER	- 1960	UNK		U.S.A.	
					GARDENCTY	14 Jul 1984	00456		U.S.A.	
						11 Jul 1987 (died)				11 Jul 1987
125	F	- 1959	WILD	WILD	KENYA	- 1959	UNK	Wild Born	KENYA	
					DENVER	- 1959	UNK		U.S.A.	
					(GARDENCTY)	14 Jul 1984	0002		U.S.A.	
155	M	- 1965	WILD	WILD	E. AFRICA	- 1965	UNK	Wild Born	AFRICAN	
					BUSCH TAM	22 May 1969	15317		U.S.A.	
						5 Jan 1985 (died)				5 Jan 1985



**EASTERN BLACK RHINO Studbook**  
(*Diceros bicornis michaeli*)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
161	M	1 Jan 1972	74	75	SAN FRAN DENVER	1 Jan 1972 4 Sep 1973	UNK 00457	Captive Born	U.S.A. U.S.A.	
163	F	6 Jan 1971	124	125	DENVER	6 Jan 1971	00459	Captive Born	U.S.A.	
169	M	- 1970	WILD	WILD	KENYA DVURKRALV SAN ANTON	- 1970 - 1972 22 Apr 1978	UNK UNK 781454	Wild Born	KENYA CZECHOSLO U.S.A.	
176	F	- 1968	WILD	WILD	AFRICAN JACKSONVL (COLUMBUS )	- 1968 ???? 14 May 1978 17 Apr 1982 (died)	UNK 167 782005	Wild Born	AFRICAN U.S.A. U.S.A.	17 Apr 1982
179	F	30 Apr 1971	120	121	ST LOUIS MEMPHIS SD-WAP	30 Apr 1971 8 Jun 1971 18 Feb 1982 28 May 1982 (died)	UNK UNK UNK	Captive Born	U.S.A. U.S.A. U.S.A.	28 May 1982
180	F	21 Mar 1970	56	57	CINCINNAT (COLUMBUS ) CINCINNAT	21 Mar 1970 10 Apr 1989 10 Jan 1990	M14005 UNK M14005	Captive Born	U.S.A. U.S.A. U.S.A.	
187	F	3 May 1972	71	72	COLO SPRG	3 May 1972 13 Dec 1986 (died)	100435	Captive Born	U.S.A.	13 Dec 1986
188	F	- 1972	WILD	WILD	KENYA FERNDAL SD-WAP SANDIEGOZ (COLUMBUS )	- 1972 - 1972 30 Nov 1972 19 May 1982 2 May 1989	UNK UNK 100287 100287 892041	Wild Born	KENYA U.S.A. U.S.A. U.S.A. U.S.A.	
190	F	26 Nov 1969	16	17	LONDON RP SAN ANTON	26 Nov 1969 28 Dec 1976	UNK 761258	Captive Born	ENGLAND U.S.A.	
192	F	2 May 1972	54	55	OKLAHOMA SEDGWICK (SANDIEGOZ)	2 May 1972 5 Nov 1973 5 Oct 1988	UNK UNK 588371	Captive Born	U.S.A. U.S.A.	
202	F	- 1971	WILD	WILD	KENYA FERNDAL METROZOO	- 1973 - 1973 13 Jun 1973	UNK UNK 110	Wild Born	KENYA U.S.A. U.S.A.	
207	F	- 1968	WILD	WILD	AFRICAN CINCINNAT	- 1968 12 Jul 1973 28 Jun 1989 (died)	UNK M14007	Wild Born	AFRICAN U.S.A.	28 Jun 1989
212	F	9 Sep 1975	52	53	DETROIT (ST LOUIS )	9 Sep 1975 30 Oct 1984	313 084437	Captive Born	U.S.A. U.S.A.	

EASTERN BLACK RHINO Studbook  
(Diceros bicornis michaeli)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
213	F	~ 1971	WILD	WILD	KENYA	~ 1974	UNK	Wild Born	KENYA	
					FERNDALE	~ 1974	UNK		U.S.A.	
					SAN FRAN	16 Apr 1974	17415		U.S.A.	
225	F	~ 1968	WILD	WILD	KENYA	~ 1971	UNK	Wild Born	KENYA	
					BUSCH TAM	24 Jul 1971	15318		U.S.A.	
					(CINCINNAT)	16 Aug 1990	190189		U.S.A.	
226	F	11 Nov 1974	155	225	BUSCH TAM	11 Nov 1974	UNK	Captive Born	U.S.A.	
					ST FELICI	19 Jul 1978	UNK		CANADA	
						-1986 +/-1yr (died)				-1986 +/-1yr
233	F	~ 1969	WILD	WILD	KENYA	~ 1973	UNK	Wild Born	KENYA	
					CHICAGOBR	23 Nov 1973	UNK		U.S.A.	
					(SD-WAP )	1 Nov 1986	037690		U.S.A.	
235	F	~ 1970	WILD	WILD	KENYA	~ 1973	UNK	Wild Born	KENYA	
					CHICAGOBR	11 Dec 1973	22624		U.S.A.	
239	F	15 Oct 1976	110	188	SD-WAP	15 Oct 1976	101929	Captive Born	U.S.A.	
						12 Jun 1991 (died)				12 Jun 1991
243	M	31 Oct 1976	155	225	BUSCH TAM	31 Oct 1976	UNK	Captive Born	U.S.A.	
					ST FELICI	19 Jul 1978	UNK		CANADA	
						-1986 +/-1yr (died)				-1986 +/-1yr
247	M	29 Jun 1970	WILD	WILD	W.GERMANY	29 Jun 1970	UNK	Captive Born	W.GERMANY	
					CINCINNAT	19 Jul 1972	M14006		U.S.A.	
251	M	~ 1974	WILD	WILD	KENYA	~ 1976	UNK	Wild Born	KENYA	
					FERNDALE	~ 1976	UNK		U.S.A.	
					ST LOUIS	12 Sep 1976	076444		U.S.A.	
254	M	1 Jan 1970	WILD	WILD	NAMIBIA	1 Jan 1970	UNK	Wild Born	NAMIBIA	
					FRANKLINP	9 Jul 1973	UNK		U.S.A.	
					BUFFALO	8 Nov 1976	UNK		U.S.A.	
						18 Jan 1983 (died)				18 Jan 1983
255	F	~ 1969	WILD	WILD	KENYA	~ 1973	UNK	Wild Born	KENYA	
					FERNDALE	~ 1973	UNK		U.S.A.	
					FRANKLINP	~ 1973	UNK		U.S.A.	
					METROZOO	21 Jan 1983	M00092		U.S.A.	
259	M	10 Apr 1977	182	181	ASA ZOO	10 Apr 1977	UNK	Captive Born	JAPAN	
					METROZOO	10 Nov 1983	M00208		U.S.A.	
267	F	16 Sep 1976	56	207	CINCINNAT	16 Sep 1976	M14008	Captive Born	U.S.A.	
					LOSANGELE	27 Oct 1979	09851		U.S.A.	
271	M	18 Sep 1978	241	150	ZURICH	18 Sep 1978	UNK	Captive Born	SWITZRLND	
					CHICAGOBR	5 Aug 1980	24401		U.S.A.	

EASTERN BLACK RHINO Studbook  
(*Diceros bicornis michaeli*)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
281	M	8 Dec 1979	74	213	SAN FRAN	8 Dec 1979	505	Captive Born	U.S.A.	
						17 Dec 1987 (died)				17 Dec 1987
285	M	7 Nov 1978	199	126	MEMPHIS	7 Nov 1978	UNK	Captive Born	U.S.A.	
					LOSANGELE	27 Aug 1979	09850		U.S.A.	
292	M	11 Dec 1979	79	293	GRANBY	11 Dec 1979	UNK	Captive Born	CANADA	
					SANDIEGOZ	25 May 1983	181039		U.S.A.	
					SD-WAP	11 Apr 1985	181039		U.S.A.	
293	F	- 1970	WILD	WILD	AFRICAN	- 1970	UNK	Wild Born	AFRICAN	
					GRANBY	6 Jun 1973	238637		CANADA	
						16 Dec 1986 (died)				16 Dec 1986
294	F	21 May 1981	169	190	SAN ANTON	21 May 1981	UNK	Captive Born	U.S.A.	
					CHICAGOLP	21 Jul 1982	6798		U.S.A.	
296	M	- 1964	WILD	WILD	AFRICAN	- 1971	UNK	Wild Born	AFRICAN	
					MEXICOCTY	- 1971	UNK		MEXICO	
297	F	- 1964	WILD	WILD	AFRICAN	- 1971	UNK	Wild Born	AFRICAN	
					MEXICOCTY	- 1971	UNK		MEXICO	
301	M	25 Feb 1980	56	207	CINCINNAT	25 Feb 1980	M14016	Captive Born	U.S.A.	
					SEDGWICK	23 Jun 1981	779			
302	M	7 Aug 1980	247	180	CINCINNAT	7 Aug 1980	M14019	Captive Born	U.S.A.	
					(SD-WAP )	28 Sep 1981	681515		U.S.A.	
304	M	9 Jul 1981	155	225	DENVER	9 Jul 1981	UNK	Captive Born	U.S.A.	
						9 Jul 1981 (died)				9 Jul 1981
305	M	31 Mar 1981	182	181	ASA ZOO	31 Mar 1981	UNK	Captive Born	JAPAN	
					COLO SPRG	10 Nov 1983	101541		U.S.A.	
308	M	18 Oct 1981	74	213	SAN FRAN	18 Oct 1981	UNK	Captive Born	U.S.A.	
					(CHICAGOLP)	17 Jun 1982	6780		U.S.A.	
309	F	30 Jun 1981	155	225	BUSCH TAM	30 Jun 1981	UNK	Captive Born	U.S.A.	
						19 Aug 1982 (died)				19 Aug 1982
311	F	- 1974	WILD	WILD	KENYA	- 1974	UNK	Wild Born	KENYA	
					FERNDAL	- 1974	UNK		U.S.A.	
					R SCHMITT	24 Oct 1974	UNK		U.S.A.	
					COLUMBUS	6 Oct 1984	842122		U.S.A.	
					BUSCH TAM	24 Oct 1986	UNK		U.S.A.	
					DALLAS	13 Dec 1986	864857		U.S.A.	
317	F	29 Sep 1982	56	207	CINCINNAT	29 Sep 1982	M14028	Captive Born	U.S.A.	
					(CHICAGOLP)	12 Jun 1984	7421		U.S.A.	

**EASTERN BLACK RHINO Studbook**  
(*Diceros bicornis michaeli*)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
319	M	27 Mar 1982	54	55	OKLAHOMA	27 Mar 1982 14 Apr 1982 (died)	UNK	Captive Born	U.S.A.	14 Apr 1982
328	F	15 Nov 1982	161	163	DENVER	15 Nov 1982	06258	Captive Born	U.S.A.	
330	F	28 Dec 1981	261	262	NEW DELHI FERNDAL OKLAHOMA	28 Dec 1981 - 1989 2 Feb 1989	UNK UNK 484717	Captive Born	INDIA U.S.A. U.S.A.	
331	F	11 Dec 1982	169	190	SAN ANTON SAN FRAN (KANSASCTY) (COLO SPRG)	11 Dec 1982 - 1984 15 Jul 1984 14 Jan 1987	UNK UNK UNK 870004	Captive Born	U.S.A. U.S.A. U.S.A. U.S.A.	
332	M	11 Jan 1983	247	180	CINCINNAT (DENVER )	11 Jan 1983 13 Jul 1984	UNK 07986	Captive Born	U.S.A. U.S.A.	
337	M	3 Oct 1983	74	213	SAN FRAN KANSASCTY	3 Oct 1983 19 Nov 1984 12 Jul 1985 (died)	UNK UNK	Captive Born	U.S.A. U.S.A.	12 Jul 1985
343	F	4 Apr 1983	155	225	BUSCH TAM	4 Apr 1983 10 Sep 1987 (died)	18237	Captive Born	U.S.A.	10 Sep 1987
348	M	3 May 1982	UNK	255	BUFFALO	3 May 1982 3 May 1982 (died)	UNK	Captive Born	U.S.A.	3 May 1982
351	F	24 Jun 1985	74	213	SAN FRAN (METROZOO )	24 Jun 1985 15 Mar 1987	UNK M00744	Captive Born	U.S.A. U.S.A.	
353	F	31 Oct 1985	251	121	ST LOUIS	31 Oct 1985 27 Apr 1986 (died)	085437	Captive Born	U.S.A.	27 Apr 1986
356	M	9 Feb 1986	155	225	BUSCH TAM	9 Feb 1986	18539	Captive Born	U.S.A.	
359	F	1 Feb 1986	169	190	SAN ANTON CINCINNAT (CALDWELL )	1 Feb 1986 16 Jul 1987 17 Jul 1987	860200 M14058 001111	Captive Born	U.S.A. U.S.A. U.S.A.	
360	F	25 Aug 1985	285	267	LOSANGELE KANSASCTY	25 Aug 1985 17 Jan 1988 27 Jan 1988 (died)	UNK 002218	Captive Born	U.S.A. U.S.A.	27 Jan 1988
361	M	3 Oct 1985	54	55	DETROIT OKLAHOMA DETROIT	3 Oct 1985 3 Oct 1985 12 Oct 1985 (died)	1652 UNK	Captive Born	U.S.A. U.S.A. U.S.A.	12 Oct 1985
362	M	11 Mar 1986	259	202	METROZOO CALDWELL	11 Mar 1986 15 Sep 1988	UNK 001315	Captive Born	U.S.A. U.S.A.	

**EASTERN BLACK RHINO Studbook**  
(*Diceros bicornis michaeli*)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
363	M	14 Dec 1985	247	180	CINCINNAT (CHICAGOBR)	14 Dec 1985 23 Mar 1987	M14046 870051	Captive Born	U.S.A. U.S.A.	
364	F	27 Dec 1985	56	207	CINCINNAT SAN ANTON	27 Dec 1985 19 Jul 1987	M14047 870793	Captive Born	U.S.A. U.S.A.	
365	F	18 Jan 1985	271	235	CHICAGOBR	18 Jan 1985	850006	Captive Born	U.S.A.	
367	F	6 Nov 1986	251	212	ST LOUIS DETROIT (CALDWELL)	6 Nov 1986 6 Nov 1986 9 Jul 1987	UNK UNK 086435	Captive Born	U.S.A. U.S.A. U.S.A.	31 Jan 1990
372	M	11 Dec 1986	271	235	CHICAGOBR (CALDWELL)	11 Dec 1986 22 Oct 1988	UNK 001425	Captive Born	U.S.A. U.S.A.	
376	M	7 May 1987	161	163	DENVER PORTLAND	7 May 1987 25 Jun 1988	10522 88036	Captive Born	U.S.A. U.S.A.	
377	M	12 Jul 1987	302	239	SD-WAP SANDIEGOZ (LANSING)	12 Jul 1987 5 Jan 1990 30 Jun 1990	687485 687485 1304	Captive Born	U.S.A. U.S.A. U.S.A.	
381	M	10 Jun 1986	285	76	LOSANGELE (OKLAHOMA) (MILWAUKEE)	10 Jun 1986 9 Jun 1988 27 Jun 1989	UNK 460416 3359	Captive Born	U.S.A. U.S.A. U.S.A.	
382	F	31 Dec 1986	259	255	METROZOO	31 Dec 1986 3 Feb 1989	M00711 (died)	Captive Born	U.S.A.	3 Feb 1989
383	F	2 Jul 1988	74	213	SAN FRAN (MILWAUKEE)	2 Jul 1988 19 Dec 1989	188050 3408	Captive Born	U.S.A. U.S.A.	
388	M	26 Aug 1986	268	282	DVURKRALV ATLANTA	26 Aug 1986 18 Oct 1989	UNK 891043	Captive Born	CZECHOSLO U.S.A.	
389	M	12 Sep 1988	292	233	SD-WAP CHICAGOBR (COLUMBUS)	12 Sep 1988 12 Sep 1988 9 Oct 1989	688551 880335 892117	Captive Born	U.S.A. U.S.A. U.S.A.	
395	M	18 Mar 1988	52	202	METROZOO	18 Mar 1988	M00924	Captive Born	U.S.A.	
396	F	4 Nov 1988	271	235	CHICAGOBR (PORTLAND)	4 Nov 1988 15 Mar 1990	880388 90023	Captive Born	U.S.A. U.S.A.	
397	F	19 Oct 1988	247	180	CINCINNAT (COLUMBUS)	19 Oct 1988 10 Apr 1989	M14066 892021	Captive Born	U.S.A. U.S.A.	
398	F	28 Jan 1989	259	255	METROZOO	28 Jan 1989 8 Feb 1989	M01055 (died)	Captive Born	U.S.A.	8 Feb 1989

EASTERN BLACK RHINO Studbook  
(Dicerus bicornis michaeli)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Birth-Origin	Country	Death-Date
409	M	- 1952	WILD	WILD	AFRICAN	- 1954	UNK	Wild Born	AFRICAN	
					PRSPCT PK	12 Jul 1954	UNK		U.S.A.	
					DETROIT	1 Aug 1988	2492		U.S.A.	
418	F	23 Mar 1989	281	55	DETROIT	23 Mar 1989	UNK	Captive Born	U.S.A.	
					OKLAHOMA	24 Mar 1989	UNK		U.S.A.	
					(DETROIT )	24 Mar 1989	2797		U.S.A.	
					(BUSCH TAM)	10 Aug 1990	UNK		U.S.A.	
419	M	21 May 1989	308	317	CHICAGOLP	21 May 1989	8910	Captive Born	U.S.A.	
					CINCINNAT	22 May 1989	UNK		U.S.A.	
					(GARDENCTY)	31 Jul 1990	UNK		U.S.A.	
423	F	5 Jan 1990	251	212	ST LOUIS	5 Jan 1990	090001	Captive Born	U.S.A.	
						12 Jan 1990 (died)				12 Jan 1990
426	F	6 Jan 1990	74	213	SAN FRAN	6 Jan 1990	190003	Captive Born	U.S.A.	
					(ATLANTA )	23 Nov 1990	901030		U.S.A.	
427	M	25 Feb 1990	292	239	SD-WAP	25 Feb 1990	UNK	Captive Born	U.S.A.	
432	M	30 Oct 1989	161	163	DENVER	30 Oct 1989	11902	Captive Born	U.S.A.	
435	M	29 Nov 1990	292	233	SD-WAP	29 Nov 1990	690706	Captive Born	U.S.A.	
T2064	F	4 Oct 1990	332	328	DENVER	4 Oct 1990	UNK	Captive Born	U.S.A.	
T2065	F	7 Mar 1991	271	235	CHICAGOBR	7 Mar 1991	910037	Captive Born	U.S.A.	

TOTALS: 49.57.0 (106)