

The data from the three rhinoceros species listed in the tables were used to calculate gestation length and time points when the threshold of 1000 ng/g faeces was reached. The 1000 ng/g faeces value was used for the incipient onset of feto-placental progesterone production and the alignment of hormone profiles in calculating the mean \pm SEM pregnancy profiles. The short gestations marked with '*' were not included in calculating the mean \pm SEM pregnancy length.

Black Rhinoceros					
Dam Stdbk#	Location	Offspring Birth	Gestation length	1000 ng/g faeces	Data source
Female offspring					
21	Bristol (GB)	1964-08-24	438	n.a.	Jarvis 1967
114	Lisbon (PT)	1969-01-09	447	n.a.	Gouveia 1969
175	Dvur Kralove (CZ)	1994-04-11	*427	94	own data
181	Hiroshima (JP)	1979-09-12	436	n.a.	Sakamoto 1989
181	Hiroshima (JP)	1984-08-09	476	n.a.	Sakamoto 1989
181	Hiroshima (JP)	1986-09-10	444	n.a.	Sakamoto 1989
220	Berlin Zoo (DE)	1989-10-25	470	80	own data
221	Berlin Zoo (DE)	1981-12-23	483	n.a.	Jarofke 1983
244	Dvur Kralove (CZ)	1992-12-08	444	n.a.	own data
282	Dvur Kralove (CZ)	2000-01-25	469	n.a.	own data
295	Magdeburg (DE)	1995-12-23	469	133	own data
295	Magdeburg (DE)	2002-08-03	466	n.a.	Neumann 2002
298	Berlin Zoo (DE)	1990-10-12	459	76	own data
366	Berlin Zoo (DE)	2003-11-02	460	n.a.	own data
387	Dvur Kralove (CZ)	1994-04-11	455	71	own data
387	Dvur Kralove (CZ)	2009-12-13	465	72	own data
393	Frankfurt (DE)	1994-02-14	464	82	own data
393	Frankfurt (DE)	1997-02-18	462	89	Schmidt 1997
393	Frankfurt (DE)	2001-03-02	476	88	own data
428	Paignton (UK)	2007-03-05	468	106	own data
431	Dvur Kralove (CZ)	1996-09-05	472	90	own data
431	Dvur Kralove (CZ)	2002-08-24	464	119	own data
462	Fossil Rim, TX (US)	1997-02-02	475	n.a.	Radcliffe et al., 2001
462	Fossil Rim, TX (US)	1999-06-09	465	n.a.	Radcliffe et al., 2001
481	Leipzig (DE)	1999-05-07	447	n.a.	Neumann 2002
540	Dvur Kralove (CZ)	2004-09-11	464	73	own data
540	Dvur Kralove (CZ)	2007-11-24	471	86	own data
546	Berlin Zoo (DE)	2006-12-20	445	96	own data
619	Dvur Kralove (CZ)	2002-11-02	455	84	own data
619	Dvur Kralove (CZ)	2006-09-04	444	86	own data
619	Dvur Kralove (CZ)	2009-12-08	475	87	own data
678	Dvur Kralove (CZ)	2005-12-21	457	83	own data
685	Dvur Kralove (CZ)	2010-09-22	471	111	own data
685	Dvur Kralove (CZ)	2016-10-12	486	90	own data
876	Dvur Kralove (CZ)	2015-01-26	482	82	own data
878	Dvur Kralove (CZ)	2012-09-08	467	101	own data

886	Berlin Zoo (DE)	2018-09-22	480	89	own data
971	Tallin (EE)	2017-06-03	441	86	own data
Male offspring					
8	Hannover (DE)	1965-07-28	469	n.a.	Jarvis 1967
21	Bristol (GB)	1958-08-22	438	n.a.	Jarvis 1967
47	Washington, DC (US)	1967-08-31	472	n.a.	MacCrane & Stepter 1967
49	Pittsburg, PA (US)	1960-10-20	463	n.a.	Jarvis 1967
49	Pittsburg, PA (US)	1963-04-14	454	n.a.	Jarvis 1967
49	Pittsburg, PA (US)	1965-10-04	457	n.a.	Jarvis 1967
53	Sedgwick C., KS (US)	1993-08-16	468	n.a.	Berkeley et al, 1997
87	Mysore (IN)	1966-08-26	458	n.a.	Jarvis 1967
178	Dvur Kralove (CZ)	1992-12-14	465	n.a.	own data
178	Dvur Kralove (CZ)	1995-12-04	457	56	own data
181	Hiroshima (JP)	1977-04-10	461	n.a.	Sakamoto 1989
181	Hiroshima (JP)	1981-03-31	449	n.a.	Sakamoto 1989
181	Hiroshima (JP)	1982-10-30	440	n.a.	Sakamoto 1989
181	Hiroshima (JP)	1988-07-24	447	n.a.	Sakamoto 1989
282	Dvur Kralove (CZ)	1994-10-26	467	87	own data
387	Dvur Kralove (CZ)	2000-12-21	462	92	own data
387	Dvur Kralove (CZ)	2006-01-02	453	67	own data
387	Dvur Kralove (CZ)	2012-12-22	478	77	own data
387	Dvur Kralove (CZ)	2015-01-25	465	80	own data
481	Leipzig (DE)	1997-11-08	462	n.a.	Neumann 2002
544	Frankfurt (DE)	1956-12-23	455	n.a.	Faust 1957
546	Berlin Zoo (DE)	2014-10-14	454	103	own data
554	KOBE PARK (JP)	1963-11-16	465	n.a.	Jarvis 1967
554	KOBE PARK (JP)	1965-11-02	462	n.a.	Jarvis 1967
559	Magdeburg (DE)	2019-04-28	447	138	own data
685	Dvur Kralove (CZ)	2007-02-01	482	69	own data
689	Dvur Kralove, CZ	2007-09-22	*393	86	own data
876	Dvur Kralove (CZ)	2011-09-30	469	107	own data
886	Berlin Zoo (DE)	2014-10-02	458	126	own data
935	Chicago, IL (US)	2013-08-26	441	n.a.	Santymire et al, 2016
967	Dvur Kralove (CZ)	2016-06-13	443	71	own data
970	Dvur Kralove (CZ)	2016-06-09	452	77	own data

White Rhinoceros					
Dam Stdbk#	Location	Offspring Birth	Gestation length	1000 ng/g faeces	Data source
Female offspring					
225	Hilvarenbeek (NL)	1998-08-27	511	n.a.	Verberkmoes, 1999
230	Arnhem (NL)	2002-03-19	517	58	own data
351	Dvur Kralove (CZ)	1983-11-15	485	n.a.	Svital'sky, 1993
351	Dvur Kralove (CZ)	1989-07-11	482	n.a.	Svital'sky, 1993

624	Loxahatchee, FL (US)	1998-08-24	480	n.a.	Wolf, 1998
767	La Palmyre (FR)	2012-11-08	525	n.a.	own data
902	Budapest (HU)	2005-08-09	490	85	own data
902	Budapest (HU)	2007-01-23	502	104	own data
943	Dvur Kralove (CZ)	2000-06-28	481	82	own data
967	Münster (DE)	2009-09-20	493	101	own data
1203	Hilvarenbeek (NL)	2014-12-27	509	n.a.	L. Versteegen, pers. Comm
1208	Erfurt (DE)	2007-01-15	494	122	own data
1251	Givskud (DK)	2005-01-11	501	n.a.	own data
1340	Arnhem (NL)	2006-09-13	509	138	own data
1340	Arnhem (NL)	2017-08-10	513	n.a.	own data
1353	Hamilton (NZ)	2013-04-19	500	n.a.	C. Morrow, pers. comm.
1357	Hamilton (NZ)	2012-03-06	499	n.a.	C. Morrow, pers. comm.
1358	Hamilton (NZ)	2007-03-26	507	n.a.	C. Morrow, pers. comm.
1358	Beerwah, QLD (AU)	2011-04-12	500	n.a.	C. Morrow, pers. comm.
1362	Knuthenborg (DK)	2009-12-11	501	n.a.	own data
1436	Perth, WA (AU)	2017-08-14	510	n.a.	C. Morrow, pers. comm.
1457	Colchester (GB)	2013-04-13	498	99	own data
1457	Colchester (GB)	2020-01-04	495	n.a.	own data
1556	Sosto (HU)	2015-02-02	508	75	own data
1616	Hilvarenbeek (NL)	2015-03-01	500	n.a.	L. Versteegen, pers. Comm
1625	Augsburg (DE)	2016-02-18	516	99	own data
1647	Bewdley (GB)	2016-01-28	500	103	own data
1647	Bewdley (GB)	2017-09-08	501	95	own data
1659	Dortmund (DE)	2014-04-21	514	n.a.	own data
2000	Salzburg, AT	2020-06-03	503	97	own data
2073	Amneville (FR)	2016-07-03	497	96	own data
2093	Krenglbach (AT)	2020-01-28	511	n.a.	own data
Male offspring					
140	Copenhagen (DK)	1976-12-21	515	n.a.	Eriksen, 1977
157	San Diego-WAP, CA (US)	1998-06-09	490	n.a.	Patton et al., 1999
159	San Diego-WAP, CA (US)	1998-09-05	525	n.a.	Patton et al., 1999
902	Budapest (HU)	2008-10-22	495	n.a.	own data
967	Münster (DE)	2000-08-11	497	76	own data
1051	San Diego-WAP, CA (US)	1999-03-02	509	n.a.	Patton et al., 1999
1340	Arnhem (NL)	2012-09-22	481	91	own data
1340	Arnhem (NL)	2016-05-30	502	n.a.	own data
1353	Hamilton (NZ)	2010-03-12	512	n.a.	C. Morrow, pers. comm.
1353	Hamilton (NZ)	2016-06-28	500	n.a.	C. Morrow, pers. comm.
1357	Hamilton (NZ)	2009-04-30	505	n.a.	C. Morrow, pers. comm.
1358	Auckland (NZ)	2002-01-06	514	n.a.	C. Morrow, pers. comm.
1362	Knuthenborg (DK)	2008-02-06	499	92	own data
1416	Madrid (ES)	2009-04-29	509	118	own data
1436	Perth, WA (AU)	2010-05-01	508	n.a.	C. Morrow, pers. comm.
1436	Perth, WA (AU)	2015-02-14	517	n.a.	C. Morrow, pers. comm.
1457	Colchester (GB)	2017-02-03	510	91	own data

1458	Colchester (GB)	2014-07-11	495	108	own data
1460	Amneville (FR)	2017-03-07	508	n.a.	own data
1462	Peaugres (FR)	2012-09-18	500	78	own data
1462	Peaugres (FR)	2015-03-11	487	100	own data
1462	Peaugres (FR)	2018-05-07	510	77	own data
1474	Münster (DE)	2013-05-23	495	107	own data
1474	Münster (DE)	2017-05-20	510	97	own data
1501	Cabarceno (ES)	2013-09-26	502	n.a.	own data
1501	Cabarceno (ES)	2015-11-15	484	n.a.	own data
1542	Copenhagen (DK)	2013-03-27	*136	90	own data
1542	Copenhagen (DK)	2015-01-24	516	82	own data
1542	Copenhagen (DK)	2017-10-16	521	102	own data
1542	Copenhagen (DK)	2020-04-15	510	138	own data
1556	Sosto (HU)	2016-10-12	510	n.a.	own data
1556	Sosto, HU	2019-01-18	512	n.a.	own data
1578	Erfurt (DE)	2018-12-29	523	97	own data
1578	Erfurt (DE)	2020-11-28	522	100	own data
1626	Augsburg (DE)	2016-02-06	507	94	own data
1659	Dortmund (DE)	2020-01-08	502	78	own data
1686	Krenglbach (AT)	2019-09-29	500	n.a.	own data
1999	Salzburg (AT)	2015-09-05	497	102	own data
2000	Salzburg (AT)	2015-04-04	506	96	own data
2006	Bewdley (GB)	2016-03-25	497	101	own data
2067	Copenhagen (DK)	2018-01-03	517	83	own data
2067	Copenhagen (DK)	2020-05-05	*395	112	own data
2074	Amneville (FR)	2014-12-01	510	80	own data

In these white rhinoceroses with unknown gestation lengths, the days when the 1000 ng/g faecal threshold was reached were determined, and the hormone values were included in the mean \pm SEM pregnancy profile calculation.

494	Hodenhagen (DE)	18.12.2000	unknown	n.a.	own data
1043	Hodenhagen (DE)	10.01.2000	unknown	n.a.	own data
1685	Krenglbach (AT)	05.11.2012	unknown	n.a.	own data
1207	Erfurt (DE)	06.01.2008	unknown	n.a.	own data
967	Münster (DE)	26.07.2005	unknown	n.a.	own data
967	Münster (DE)	02.04.2011	unknown	n.a.	own data
1251	Givskud (DK)	12.12.2006	unknown	n.a.	own data
1340	Arnhem (NL)	06.04.2010	unknown	n.a.	own data
1340	Arnhem (NL)	23.07.2014	unknown	n.a.	own data
496	Hodenhagen (DE)	29.08.2000	unknown	n.a.	own data
1686	Krenglbach (AT)	14.11.2014	unknown	n.a.	own data
1207	Erfurt (DE)	06.12.2001	unknown	n.a.	own data
1207	Erfurt (DE)	26.09.2004	unknown	n.a.	own data
1208	Erfurt (DE)	11.06.2005	unknown	n.a.	own data

GOH Rhinoceros					
Dam Stdbk#	Location	Offspring Birth	Gestation length	1000 ng Drehpunkt	Data source
Female offspring					
7	Basel (CH)	17.08.1958	478	n.a.	Lang et al., 1977
7	Basel (CH)	12.06.1964	476	n.a.	Lang et al., 1977
7	Basel (CH)	24.08.1971	481	n.a.	Lang et al., 1977
7	Basel (CH)	10.10.1975	474	n.a.	Lang et al., 1977
8	Whipsnade (GB)	29.10.1957	488	n.a.	Lang et al., 1977
15	Milwaukee, WI (US)	30.01.1967	474	n.a.	Lang et al., 1977
16	Hamburg (DE)	09.04.1967	464	n.a.	Lang et al., 1977
17	Basel (CH)	25.08.1965	475	n.a.	Lang et al., 1977
17	Basel (CH)	05.10.1969	478	n.a.	Lang et al., 1977
17	Basel (CH)	11.08.1971	476	n.a.	Lang et al., 1977
31	Berlin Zoo (DE)	13.08.1979	488	n.a.	Kloes, 1980
34	Stuttgart (DE)	16.07.1971	470	n.a.	Lang et al., 1977
43	New Dheli, DL (IN)	27.01.1971	484	n.a.	Lang et al., 1977
46	Los Angeles, CA (US)	16.02.1982	496	n.a.	Tobler, 1995
55	Planckendal (BE)	15.11.1992	476	n.a.	Anonymous, 1993
56	Basel (CH)	04.10.1988	472	n.a.	Tobler, 1995
93	Dvur Kralove (CZ)	13.09.1997	486	119	own data
110	Basel (CH)	03.03.1992	466	n.a.	Tobler, 1995
128	Kanpur, UP (IN)	01.10.1982	487	n.a.	Sabharwal, 1989
161	Oklahoma City, OK (US)	06.12.1996	473	n.a.	Stoops et al., 2014
161	Oklahoma City, OK (US)	10.05.2001	484	n.a.	Stoops et al., 2014
161	Oklahoma City, OK (US)	18.01.2006	491	n.a.	Stoops et al., 2014
168	Assam Guwahati, AS (IN)	22.02.1995	478	n.a.	Bonal et al., 1995
189	Cincinnati, OH (US)	05.01.2008	492	n.a.	Stoops, 2006
193	Munich (DE)	16.10.2004	491	94	own data
195	Nurnberg (DE)	27.08.2009	482	n.a.	own data
204	Stuttgart (DE)	13.04.2002	474	119	own data
204	Stuttgart (DE)	17.10.2006	471	125	own data
204	Stuttgart (DE)	27.10.2014	497	103	own data
204	Stuttgart (DE)	12.02.2000	*425	97	own data
241	Buffalo, NY (US)	05.06.2014	466	n.a.	Stoops et al., 2016
256	Whipsnade (GB)	16.11.2010	491	n.a.	Routh et al., 2011
269	Amersfoort (NL)	19.11.2011	481	109	own data
409	Pilsen (CZ)	02.02.2014	478	107	own data
409	Pilsen (CZ)	05.02.2017	479	n.a.	own data
498	Wroclaw (PL)	06.01.2021	478	142	own data
Male offspring					
7	Basel (CH)	1956-09-14	474	n.a.	Lang et al., 1977
7	Basel (CH)	1962-08-31	479	n.a.	Lang et al., 1977
7	Basel (CH)	1967-07-07	489	n.a.	Lang et al., 1977
7	Basel (CH)	1969-04-27	474	n.a.	Lang et al., 1977

7	Basel (CH)	1974-01-03	473	n.a.	Lang et al., 1977
8	Whipsnade (GB)	1960-08-18	488	n.a.	Lang et al., 1977
11	Mysore, KA (IN)	1968-02-13	486	n.a.	Lang et al., 1977
11	Mysore, KA (IN)	1971-04-16	484	n.a.	Lang et al., 1977
16	Hamburg (DE)	1964-08-11	462	n.a.	Lang et al., 1977
17	Basel (CH)	1963-03-09	486	n.a.	Lang et al., 1977
17	Basel (CH)	1967-12-22	486	n.a.	Lang et al., 1977
25	Assam Guwahati, AS (IN)	1974-05-23	477	n.a.	Lang et al., 1977
28	Washington	1974-01-30	487	n.a.	Lang et al., 1977
31	Berlin	1972-04-04	477	n.a.	Lang et al., 1977
31	BerlinZoo	1976-02-18	478	n.a.	Anonymous 1979
34	Stuttgart (DE)	1974-12-05	479	n.a.	Lang et al., 1977
40	Berlin TP	1985-11-23	453	n.a.	Kuckelkorn & Dathe, 1990
40	Berlin TP	1990-01-01	472	n.a.	Kuckelkorn & Dathe, 1990
55	Planckendal	1986-10-24	494	n.a.	Anonymous, 1987
110	Basel (CH)	2013-10-05	492	n.a.	own data
128	Kanpur Zoo	1984-12-06	486	n.a.	Sabharwal, 1989
128	Kanpur Zoo	1987-06-17	471	n.a.	Sabharwal, 1989
128	Kanpur Zoo	1989-06-23	474	n.a.	Sabharwal, 1989
148	Munich	2004-07-31	487	74	own data
168	Assam Guwahati, AS (IN)	1987-05-11	461	n.a.	Bhattacharyya & Gosw., 1987
168	Assam Guwahati, AS (IN)	1989-03-30	505	n.a.	Nath et al., 1993
182	Berlin Zoo (DE)	2004-02-29	494	133	own data
185	Rotterdam (NL)	1998-01-04	483	105	own data
189	Cincinnati, OH (US)	2010-10-26	489	n.a.	Stoops et al., 2016
193	Munich (DE)	2012-09-22	485	108	own data
193	Munich (DE)	2015-08-31	492	108	own data
195	Nuremberg (DE)	1999-10-08	486	121	own data
204	Stuttgart (DE)	2004-03-21	462	104	own data
204	Stuttgart (DE)	2008-08-11	468	148	own data
210	Basel (CH)	2017-01-07	492	n.a.	own data
229	Lisieux (FR)	2010-02-01	487	173	own data
274	Montgomery, AL (US)	2013-06-05	480	n.a.	Stoops et al., 2016
284	Alicante (ES)	2012-02-08	485	150	own data
407	Sostofurdo (HU)	2018-09-26	469	n.a.	own data
435	Planckendael (BE)	2015-12-12	497	n.a.	own data

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