

Table S1. Sources and data mentioned in the main document. All data from the southern hemisphere are given as hemisphere-corrected to the northern hemisphere year. n.g. indicates information that is not given in the source.

Source	Location	Time	Measure	n	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Black rhinoceros <i>Diceros bicornis</i>																
Wilhelm (1931)	Okavango, Botswana / Caprivi, Namibia	n.g.	Births	n.g.	Births are observed from January till May of the southern hemisphere.											
Roosevelt and Heller (1914)	n.g.	n.g.	Births	n.g.	"There is no regular breeding time; the calf may be produced at any season."											
Ritchie (1963)	n.g.	n.g.	Mating	n.g.	"Mating takes place at any time of year."											
Goddard (1966)	Ngorongoro Crater, Tanzania	1964–1965	Mating	12	Mating takes place at any time of the year.											
Berkeley and Linklater (2010)	Hluhluwe-Umfolozi Game Reserve, South Africa	1989–2004	Calves	159	"Conceptions were strongly seasonal, with most (73.6%) occurring during rainy seasons and the remainder during dry seasons."											
Freeman et al. (2014)	Addo Elephant Park and Nyathi, South Africa	2007–2010	Faecal hormones	422 faecal samples	Paper describes peaks in births in Jan/Feb and Sept of the southern hemisphere; data do not add up to 100% and are therefore not given here.											
Hall-Martin and Penzhorn (1977)	Addo Elephant Park, South Africa	1968–1977	Births (n)	12	0	1	1	0	1	3	2	1	2	0	1	0
Hitchins and Anderson (1983)	Hluhluwe-Umfolozi Game Reserve, South Africa	1961–1973	Births (%)	128	13	13	6	6	6	3	20	9	2	2	4	15
Garnier et al. (2002)	Save Valley Conservancy/Imire Game Ranch, Zimbabwe	1994–1999	Births (n)	21	3	1	0	1	1	1	1	3	2	4	4	0
Hrabar and du Toit (2005)	Pietermaritzburg National Park, South Africa	1986–2000	Conceptions	64	2	2	8	7	6	4	8	8	12	1	6	0
Greaver et al. (2014)	Ithala Game Reserve, South Africa	1990–2008	Births (n)	76	11	6	5	6	5	2	3	5	12	8	7	6
Species360 data	Global zoo population	1900–2019	Births (n)	704	69	47	34	34	50	55	67	69	55	83	67	74

Source	Location	Time	Measure	n	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>White rhinoceros Ceratotherium simum</i>																
Pienaar (1963)	Kruger National Park, South Africa	n.g.	Oestrus	n.g.	"There is no fixed breeding season although females in oestrus are most frequently encountered during the period July to September"											
Owen-Smith (1974)	Hluhluwe-Umfolozi Game Reserve, South Africa	1966–1971	Births/oestrus	n.g.	"Reproduction is not seasonally restricted, and births have been recorded in every month of the year. However, oestrus is apparently stimulated by a flush of green grass following a dry period."											
Penny (1987)	n.g.	n.g.	Matings	n.g.	"Matings take place all the year round, with peaks at times when there is a flush of good green grass. In South Africa, this is between October and December; further north, the peak occurs between February and June."											
Guerier (2012)	Ongava Game Reserve, Namibia	1993–2009	Conception	41	"Conception is strongly seasonal, occurring mainly (89%) during the rainy season."											
Van der Goot et al. (2015)	Lapalala Wilderness, South Africa	2011–2013	Oestrus	5 females sampled repeatedly	"Year-round monitoring showed no clear evidence of seasonality in ovarian activity."											
Condy (1973)	Kyle National Park, Zimbabwe	1962–1972	Births (n)	15	0	0	1	4	1	2	3	2	0	1	0	1
Owen-Smith (1988)	Hluhluwe-Umfolozi Game Reserve, South Africa	1968–1971	Births (%)	74	19.2	10.7	4	1.5	2.8	0	5.4	6.8	17.5	13.7	9.5	9.4
Kretzschmar et al. (2004)	Private game ranch, South Africa	1997–1999	Faecal androgen metabolites (ng/g)	5 males sampled repeatedly	56.8	36.4	89.3	110.2	89.3	82	41.7	45.2	53.4	55.9	68	56.8
Vervens et al. (2017)	Private game ranch, South Africa	2008–2016	Births (n)	562	15	12	14	35	46	61	67	86	91	78	35	22
Patton and Genade (2019)	Ziwa Sanctuary, Uganda	2010–2019	Births (n)	23	4	1	2	2	0	7	1	2	1	1	0	2
Species360 data	Global zoo population	1900–2019	Births (n)	1290	94	86	100	101	70	80	88	114	109	134	146	168
<i>Greater one-horned rhinoceros Rhinoceros unicornis</i>																
Gee (1953)	Assam, India	1938–1952	Matings	4	"Of the four cases known to me of mating in their wild state, all have occurred between the end of February and the end of April."											
Laurie (1982)	Chitwan National Park, Nepal	1972–1976	Births/Oestrus	n.g.	"Births were recorded in each month of the year; there were slight but insignificant peaks between November and February and in July and August"; "oestrus recurred ... with a slightly higher, statistically insignificant, frequency between January and June."											
Laurie (1978)	Chitwan National Park, Nepal	1972–1975	Births (n)	60	5	6	4	5	3	3	7	8	4	3	5	7
Dinerstein and Price (1991)	Chitwan National Park, Nepal	1984–1988	Births (n)	59	8	7	3	4	4	4	3	6	5	4	7	4
Subedi et al. (2017)	Chitwan National Park, Nepal	2008–2015	Births (%)	66	12.0	10.5	6.0	4.5	7.5	9.0	9.0	12.0	7.5	4.5	7.5	9.0
Species360 data	Global zoo population	1900–2019	Births (n)	415	44	32	30	16	29	32	44	33	41	40	41	33