

Supplementary information

Appendix SI. Sires by rut year, ID, age and weight (in kg) during spring release and number of calves sired, in Starkey Experimental Forest and Range, Oregon, USA.

Year of rut	Sire ID	Sire age (years)	Sire weight	Calves sired	Year of rut	Sire ID	Sire age (years)	Sire weight	Calves sired
1993	4168	1	128	0	1997	6443 ¹	3	210	2
1993	4169	1	109	0	1997	6305	3	221	10
1993	4185	1	115	0	1997	6306	3	186	1
1993	4191	1	106	0	1997	6307	3	206	1
1993	4173	1	104	1	1997	6309	3	-	2
1993	4182	1	121	1	1997	6313	3	206	3
1993	4183	1	118	1	1997	6314	3	214	7
1993	4192	1	101	1					
1993	4164	2	209	3	1998	4284	1	104	0
1993	4196 ¹	2	192	2	1998	4286	1	127	0
1993	4165	3	-	6	1998	4287	1	97	0
1993	4172	3	216	11	1998	4288	1	116	0
					1998	4290	1	112	0
1995	6262	1	78	0	1998	4291	1	99	0
1995	6263	1	94	0	1998	4292	1	124	0
1995	6266	1	115	0	1998	4294	1	114	0
1995	6267	1	101	0	1998	6474	2	176	0
1995	6261	1	98	2	1998	6303	2	173	2
1995	6268	1	125	2	1998	6302	3	216	5
1995	6042	2	197	0	1998	6454	3	219	10
1995	6024	3	210	1	1998	6441	4	204	5
1995	6265	3	167	0					
1995	4196 ¹	4	254	9	1999	503	1	87	0
1995	3995	4	206	8	1999	505	1	93	0
					1999	552	1	105	0
1996	6444	1	122	0	1999	551	1	83	3
1996	6445	1	108	0	1999	553	1	103	1
1996	6446	1	114	0	1999	554	1	91	1
1996	6447	1	120	0	1999	506	2	154	5
1996	6451	1	103	0	1999	6310	3	174	13
1996	6452	1	110	0					
1996	6448	1	89	1	2000	9752	1	116	0
1996	6441	2	168	0	2000	9944	1	110	0
1996	6442	1	142	0	2000	9946	1	106	0
1996	6443 ¹	2	172	1	2000	9947	1	102	0
1996	6457	3	225	4	2000	9948	1	129	0
1996	6458	3	196	12	2000	9949	1	103	0
					2000	9950	1	110	0
1997	6134	1	151	0	2000	9751	1	120	1
1997	6377	1	133	0	2000	9754	3	171	0
1997	6378	1	113	0	2000	9757	3	170	0
1997	6379	1	106	0	2000	4292	3	186	7
1997	6380	1	98	0	2000	9753	3	179	1
1997	6382	1	129	0	2000	9755	3	-	3
1997	6376	1	121	1	2000	9756	3	203	3
1997	6381	1	122	2	2000	9758	3	226	8
1997	6312	3	213	0	2000	9759	3	167	5

¹ Sires 4196 and 6443 were present during two rut years.