

WHITE RHINO POPULATION KRUGER NATIONAL PARK

YEAR	CALCULATED TOTAL POPULATION		AERIAL SENCUS	NUMBER SOLD	NUMBER POACHED	NUMBER REMOVED	POPULATION GROWTH	
	7%	8%					7%	8%
INTRODUCTION	6%						7%	8%
1963/4*	82			0	0	0		
1968**	104			0	0	0		
1968/9*	43			0	0	0		
1969	147			0	0	0		
1972**	176			0	0	0		
1972/3*	204			0	0	0		
1973	380			0	0	0		
SENSUS	7%	8%						
1980	620	665	598	Population growth 6.4% (1973 – 1980)				
1985	880	992	919	Population growth 7.4% (1973 – 1985)				
1990	1249	1480	1381	Population growth 7.5% (1973 – 1990)				
LIVE REMOVAL								
1997	2039	2592		10	0	10	2029	2582
1998	2176	2797		24	0	24	2152	2773
1999	2279	3004		13	0	13	2266	2991
2000	2430	3240		62	0	62	2368	3178
POACHING								
2001	2540	3443		95	4	99	2441	3344
2002	2618	3623		56	20	76	2542	3547
2003	2726	3842		79	14	93	2633	3749
2004	2824	4061		80	7	87	2737	3974
2005	2935	4305		71	10	81	2854	4224
2006	3061	4576		100	17	117	2944	4459
2007	3211	4830		98	10	108	3103	4722
2008	3328	5115		98	36	134	3194	4981
2009	3426	5396		252	50	302	3124	5094
2010	3351	5518		137	146	283	3068	5235
2011	3290	5671		107	252	359	2931	5312
2012	3144	5754		73	425	498	2646	5256
2013	2838	5637		27	606	633	2205	5004
2014	2365	5420		9	827	836	1529	4585
2015	1529	4585			290 ***			
TOTAL				1391	2424	3815		

* Introductions Natal Parks Board

** Calculated 6% population growth (sex ratio 1:1)

*** 30 April 2015

Maximum founder population in 1973 = 380

Population growth formula = $N = N_0 e^{(\lambda - \mu)t}$

N = population at present value

N_0 = population at starting value

e = logarithmic function

λ (lambda) = births

μ (mu) = mortalities

t (time) = years