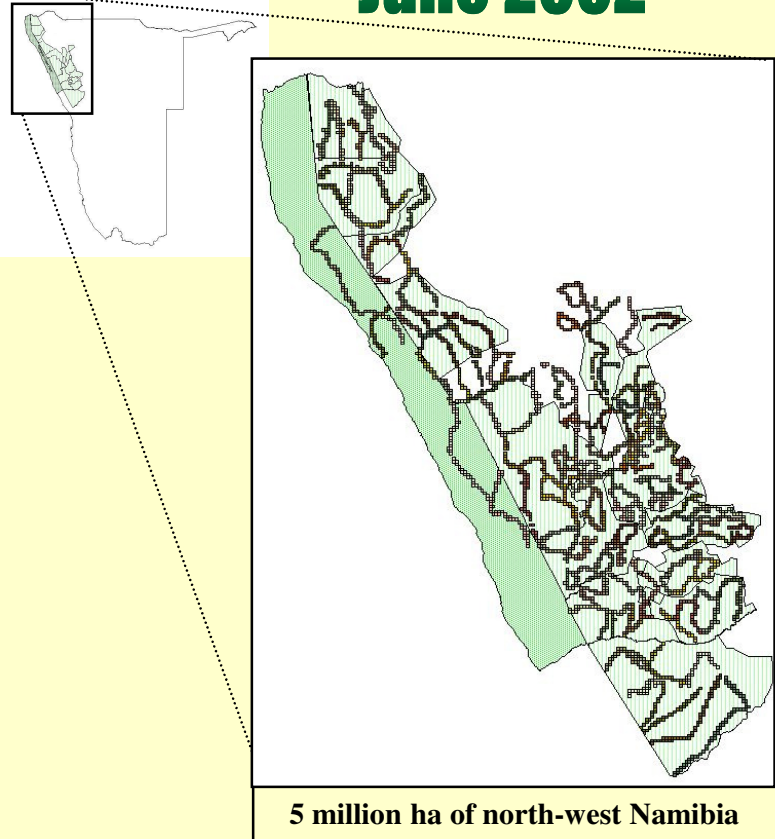


GAME COUNTS IN NORTH-WEST NAMIBIA

June 2002

Route Statistics:



Count Area	Management unit	DETAILS ON ROUTES				DETAILS ON ZONATION				Average sampling %
		Total route length	Total time taken	Number of routes	Average strip width	Area Represented	Area Excluded	% Excluded	Total Area	
Area 1	Marienfluss	288	18h40	6	0.668	2,198	760	26%	2,958	8%
	Orupembe	267	18h00	5	0.657	2,314	1,216	34%	3,530	8%
	Sanitatas	156	9h40	4	0.571	1,078	368	25%	1,446	8%
	Sanitatas gap	44	2h45	2	0.616	368	140	28%	508	7%
	Purros	339	28h	6	0.531	2,692	840	24%	3,532	7%
Area 2	Palmwag	604	49h24	11	0.532	3,562	2,248	39%	5,810	9%
	Etendeka Area	154	16h30	3	0.650	752	320	30%	1,072	11%
	Sesfontein gap	353	23h52	8	0.541	2,440	980	29%	3,420	8%
	Skeleton Coast	402	26h00	6	0.685	0	0	0	0	0
	Ehrovipuka	301	37h00	5	0.323	1,408	568	29%	1,976	7%
Area 3	Omantendeka	226	15h30	4	0.457	910	920	50%	1,830	11%
	Ozundundu	46	3H50	1	0.300	140	0	0%	140	10%
	Orupupa	114	9H20	2	0.180	736	0	0%	736	3%
	Okangundumba	123	6H25	2	0.500	414	324	28%	1,144	12%
Area 4	Doro nawas	537	28h30	9	0.612	4,344	204	4%	4,548	8%
	Tsiseb	694	28h	8	0.744	7,246	852	11%	8,098	6%
	//Huab	417	22h	8	0.447	2,170	140	6%	2,310	8%
	Sorris Sorris	236	13h05	4	0.573	1,942	300	13%	2,242	7%
	Torra	502	37h30	8	0.649	2,872	684	19%	3,556	11%
Area 5	Khoadi /hoas	501	56h	9	0.380	2,810	568	17%	3,378	9%
	Hobatere	69	9h31	3	0.296	238	10	4%	248	9%
	AL or AVERAGE	6,373		114	0.520	40,634	11442		52,482	8%

Animals actually seen during the count:

Count Area	Area 1					Area 2				Area 3					Area 4				Area 5			TOTAL	
	Marienfluss	Orupembe	Sanitatas	Sanitatas Gap	Purros	Palmwag	Etendeka Area	Sesfontein Gap	Skeleton Coast	Ehrovipuka	Omantendeka	Ozundundu	Orupupa	Okangundumba	Doro Nawas	Tsiseb	Huab	Sorris Sorris	Torra	Khoadi Hoas	Hobatere		
Baboon								19		22				3				32		1	39		116
Duiker										1								5					6
Elephant					10												2	-	10	-		2	24
Gemsbok	36	110	56	-	253	462	338	254	336	18	69	-	-	-	134	18	4	-	363	169	217	2,837	
Giraffe		1	3		31	30	41	-		23	1				1				15	9	47	202	
Jackal	1	7				8	6		1	8	3		2		3	3			19	6	9	79	
Klipspringer										3	2									9		14	
Kudu						20	54			20	-	6					18	20	35	117	7	297	
Ostrich	42	79	34	-	116	56	-	79	14	14	22	-	-	8	-	33	-	2	61	42	2	604	
Rhino																						1	
Springbok	521	1,221	298	44	1,425	2,372	1,011	621	419	52	1,099	-	65	258	505	1,325	8	2,057	1,405	117	66	14,889	
Steenbok	-	-	3	-	-	3	1	1		12	3	3	3	7	-	2	11	9	5	16	2	81	
Zebra	34	11	7	-	20	323	450	62	8	18	8	-	-	-	16	2	-	-	118	57	148	1,282	
Eland																						19	19
Cheetah					1																	1	1

POPULATION ESTIMATES

Population estimates (using statistical analysis alone)

Agreed population estimates (using local knowledge and consensus) - these tend to be conservative

	Min Pop estimate	Likely Pop estimate (excl mountains)	Factor to account for undercounting within the transect	Count Area	Area 1					Area 2				Area 3				Area 4				Area 5			TOTAL	Animals per 5000ha	
					Marienfluss	Orupembe	Sanitatas	Sanitatas Gap	Purros	Palmwag	Etendeka Area	Sesfontein Gap	Skeleton Coast	Ehrovipuka	Omantendeka	Ozundundu	Orupupa	Okangundumba	Doro Nawas	Tsiseb	Huab	Sorris Sorris	Torra	Khoadi Hoas			Hobatere
Gemsbok	15,074	35,890	2.38	Gemsbok	600	1,300	500	20	2,500	4,000	3,700	4,200	-	900	650	50	50	300	1,600	200	100	100	3,000	1,500	1,000	26,270	25
Giraffe	644	-	4.60	Giraffe	2	10	15	-	50	200	100	20	-	100	40	-	-	10	20	-	5	10	100	140	100	922	1
Jackal	840	2,963	3.53	Kudu	-	-	-	-	5	150	450	100	-	150	50	50	20	100	300	150	200	200	450	1,000	200	3,575	3
Kudu	1,578	6,787	4.30	Ostrich	400	700	250	50	850	300	50	900	-	300	200	20	50	150	800	200	50	200	500	500	10	6,480	6
Ostrich	1,926	6,262	3.25	Springbok	3,700	10,000	2,500	800	8,000	18,000	5,000	6,000	-	700	8,000	100	1,000	2,000	4,000	4,500	300	4,000	7,500	2,300	1,000	89,400	85
Springbok	94,932	237,329	2.50	Zebra	200	150	100	50	200	4,000	4,000	1,000	-	150	100	30	20	50	350	150	150	100	1,000	500	1,000	13,300	13
Steenbok	1,291	19,864	15.38																								
Zebra	4,087	12,385	3.03																								

TREND:

Comparison with last year's count

Species	2001	2002	Change (%)	NOTES ON CHANGE
Baboon	120	116	-3	Too little data
Duiker	13	6	-54	Too little data
Elephant	38	24	-37	Too little data
Gemsbok	1,628	2,837	74	Breeding cannot explain this exceptional increase. Probably also due to gemsbok coming out of the mountains
Giraffe	212	202	-5	Requires further investigation - sex/age survey would be an appropriate first step
Jackal	46	79	72	If real, could be due to increased food (rodents & birds) - too little data
Klipspringer	4	14	250	Too little data
Kudu	247	297	20	Increase due to breeding (healthy age classes) rate possibly dampened by movement into escarpment.
Ostrich	575	604	5	Would have expected a larger increase - requires further investigation (breeding & movement)
Springbok	11,701	14,889	27	Probably due to good breeding over the last season (also more habituated due to good security)
Steenbok	52	81	56	Too little data
Zebra	1,202	1,282	7	Probably due to breeding (good age classes) but the increase dampened by zebra returning to the mountains

For TREND, we use only the numbers of animals actually seen! DON'T JUMP TO CONCLUSIONS IF NUMBERS SUDDENLY CHANGE