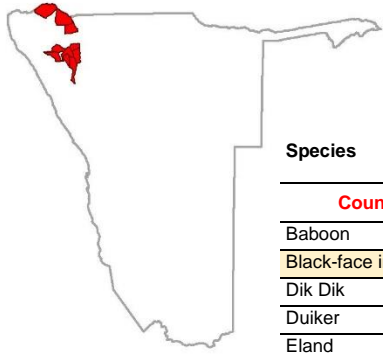


# FULL MOON WATERHOLE COUNTS IN NORTHERN KUNENE

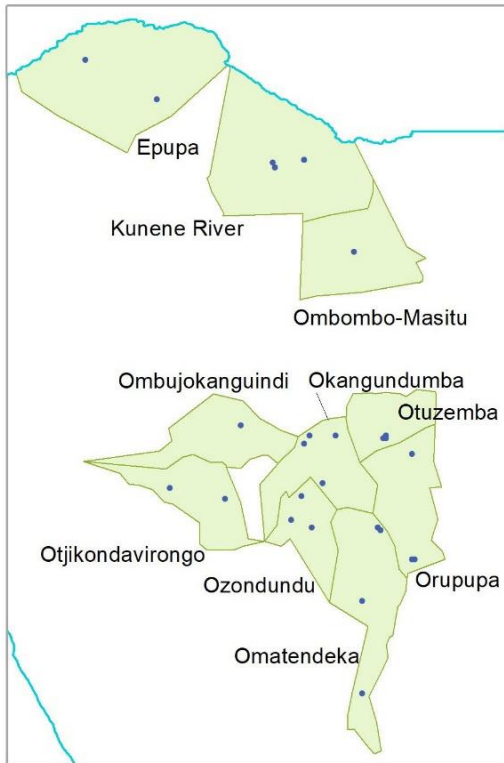
2020

## Animals counted at waterholes



Species	Kunene River			Ombujokanguindi		Okangundumba		Ozondundu				Otuzemba		Orupupa		Omatendeka		Otjikondavirongo			Ombombo-Masitu		Epupa		Total		
	Okombine	Okozondjendje	Ombahu	Okapangekua	Okatumba Dam	Epunguwe	Okahua	Omunuandjai	Ojite	Okarumbu	Okomuhana	Ojomatamba	Okatuzembona	Omkungu	Okaturukira	Ojondeka	Okavare	Okondundu	Ojomumbonde	Okovanatje	Okozondjupa	Ondama	Ombombo	Oheura	Ojomazera	Otjimborombonga	Total
<b>Count days</b>	3	3	3	3	3	3	4	3	3	2	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	
Baboon				66						172		57		42			123	92	149		27						728
Black-face impala	277	23	109	72								113	41	122	13		10	50							355	292	1,477
Dik Dik				3								3		3	2												13
Duiker	10	3	2	5								5		4										15	22	66	
Eland												6															39
Elephant						4	3	1	68	47	26		1	13	44								15				222
Gemsbok												2	3				84										90
Giraffe	7															61	62										130
Honey badger																				3	2						5
Hyaena																				1			2	1	1	2	31
Jackal				1					5			2		1	2	1	22	1									36
Klipspringer				10										3													13
Kudu	47	39	13	54	80					126		153	47	46	355		19	55	3		3	23	62	21	26	24	1,196
Leopard										2																	2
Lion																	10										10
Ostrich					79		1	13		22		5	8		12	11	3										154
Springbok				189		44		41							38	67	798				10						1,198
Steenbok	2		3								3																25
Vervet monkey				12								1															13
Warthog														4				6									10
Zebra (2 species)	6									204		352	30	63	28	40	942	3		19	48						1,735

**Primary count focus:**  
To derive estimates for two species: elephant and black-faced impala; species which are not well represented in road transect counts.



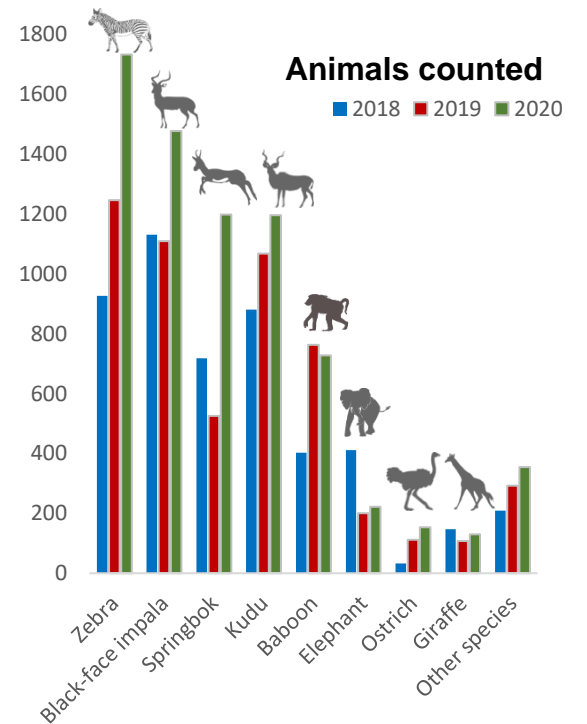
### North West Waterhole Counts

Counts were undertaken at waterholes in the escarpment zone of north west Namibia. In 2018, 18 waterholes in 7 conservancies were counted while in 2019 and 2020, the number of waterholes was increased to 26 covering 10 conservancies. Counts were undertaken over a period of 2, 3 or 4 days during which time all animals seen were counted.

Game species differ in the frequency with which they need to visit water resources with some able to acquire much of their hydration needs through foraging. Waterhole counts are therefore best suited to species (like elephants) which make infrequent discrete trips to specific water points to quench their thirst.

Estimates of animals are calculated by correcting the numbers seen over the entire count period using the number of count days, and the drinking frequency of the species. They are therefore crude estimates and should be considered a guide to the relative abundance of animals in the area. Values are influenced by several assumptions including drinking frequencies and independence of sightings.

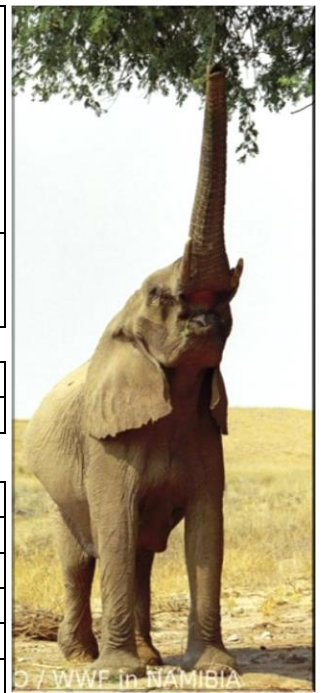
Using assumed drinking frequencies of 2 days for black-faced impala and 1.8 days for elephants, the following average estimates (over the three years 2018-2020) were calculated: Black-face impala 823; Elephant 160



### Waterhole Estimates

DF = drinking frequency (days)

Focal Species	DF	Kunene River			Ombujokanguindi			Okangundumba			Ozondundu			Otuzemba			Orupupa			Omatendeka			Otjikondavirongo		Ombombo-Masitu		Epupa		Total		
		2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2020	2019	2020	2019	2018		
Black-face impala	2	273	392	311	48	26	38							103	147	212	90	103	140	32	63	52		9			431	1	977	740	754
Elephant	1.8				27	45	97	58	47	74				3	34	34	30					7			9	14			147	121	212
<b>Other species</b>																															
Eland	4							8								11	19	4		19	25	45						46	40	45	
Gemsbok	4								13					7	7		1			84	27	77						92	47	77	
Giraffe	4	9	9			3											19	5	143	113	173						153	144	178		
Kudu	2	66	64	22	89	9	33	42	1	84	24	133	183	158	267	196	240	42	100	122	17	27	41	68	47	788	712	576			
Ostrich	4				105	95	18	4	44	5	16	17	12	4	16	20	4	18	17	12						219	149	40			
Springbok	4				252	8	113	101	15								51	21	87	887	640	733	13	32			1331	701	920		



The number of waterholes counted each year varied in some conservancies, and in 2018 waterholes in 3 conservancies were not counted

### Distribution (of a selection of species)

