

# References, Appendices & Glossary

# References

## A

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# Comparable Estimates from Eastern & Southern Africa

REGION	COUNTRY	INPUT ZONE	YEAR	TYPE	ESTIMATE	95 % CL
<b>EASTERN AFRICA</b>	Kenya	Kerio Valley	2006	AT	205 ±	0
			2015	AT	311 ±	0
		Laikipia-Samburu Ecosystem	2006	AT	5,447 ±	0
			2015	AT	6,365 ±	0
		Masai Mara National Reserve	2006	AT	1,655 ±	0
			2015	AT	876 ±	0
		Masai Mara Outside	2006	AT	461 ±	0
			2015	AT	532 ±	0
		Mwingi National Reserve	2006	AT	0 ±	0
			2015	AT	0 ±	0
	Nasolot and S. Turkana	2006	AT	285 ±	0	
		2015	AT	351 ±	0	
	South Kitui National Reserve	2006	AT	0 ±	0	
		2015	AT	0 ±	0	
	Tsavo National Park	2006	AT	9,021 ±	0	
		2015	AT	9,504 ±	0	
	Tsavo (Outside)	2006	AT	1,335 ±	0	
		2015	AT	1,612 ±	0	
Tanzania	Katavi National Park	2006	AS	4,102 ±	1,615	
		2015	AS	3,128 ±	1,944	
	Rukwa Game Reserve	2006	AS	1,200 ±	902	
		2015	AS	122 ±	131	
	Mkomazi Game Reserve	2006	AT	41 ±	0	
		2015	AT	59 ±	0	
	Moyowosi-Kigosi Game Reserve	2006	AS	9,541 ±	3,657	
		2015	AS	1,645 ±	2,389	
	Natron Landscape and West Kilimanjaro	2006	AT	70 ±	0	
		2015	AT	200 ±	0	
Ruaha Rungwa Ecosystem	2006	AS	35,409 ±	11,507		
	2015	AS	14,284 ±	6,123		
Sagara Nyamagoma Ecosystem	2006	AS	4,635 ±	3,028		
	2015	AS	503 ±	592		
Selous Mikumi Ecosystem	2006	AS	70,406 ±	24,843		
	2015	AS	14,040 ±	3,252		



REGION	COUNTRY	INPUT ZONE	YEAR	TYPE	ESTIMATE	95 % CL
<b>Eastern Africa</b> CONT.	<b>Tanzania</b> CONT.	Loliondo Game Controlled Area	2006	AT	88 ±	0
			2015	AT	0 ±	0
		Serengeti Ecosystem	2006	AT	1,630 ±	0
			2015	AT	6,087 ±	0
		Lake Manyara	2006	AT	36 ±	0
			2015	AT	104 ±	0
	Tarangire National Park	2006	AT	1,119 ±	0	
		2015	AT	3,282 ±	0	
	Ugalla East	2006	AS	1,353 ±	837	
		2015	AS	146 ±	278	
	Ugalla Game Reserve	2006	AS	4,133 ±	1,778	
		2015	AS	659 ±	549	
	<b>Uganda</b>	Kidepo Valley National Park and Karenga Wildlife Community Area	2006	AT	454 ±	0
			2015	AT	621 ±	0
Murchison Falls Conservation Area		2006	AS	516 ±	635	
	2015	AS	1,352 ±	900		
Queen Elizabeth Conservation Area	2006	AS	2,959 ±	1,476		
	2015	AS	2,904 ±	1,800		
<b>TOTALS</b>	Totals for Eastern African Sites	2006		156,101 ±	27,964	
		2015		68,687 ±	7,896	
	Total Difference for Eastern African Sites	9		-87,414 ±	29,057*	

REGION	COUNTRY	INPUT ZONE	YEAR	TYPE	ESTIMATE	95 % CL
<b>SOUTHERN AFRICA</b>	<b>Botswana</b>	Northern Botswana	2006	AS	153,620 ±	20,818
			2015	AS	129,939 ±	12,501
	<b>Mozambique</b>	Magoé District	2006	AS	1,628 ±	794
			2015	AS	1,051 ±	720
		Niassa Ecosystem	2006	AS	12,477 ±	2,111
			2015	AS	4,441 ±	1,360
	<b>Nambia</b>	Etosha National Park	2006	AS	2,057 ±	598
			2015	AS	2,911 ±	637
		Khaudum-Kavango	2006	AS	3,848 ±	2,292
			2015	AS	4,149 ±	1,864
		Kunene	2006	AS	210 ±	157
			2015	AS	314 ±	154
	Nyae Nyae Conservancy	2006	AS	967 ±	481	
		2015	AS	2,264 ±	1,729	
Zambezi Region	2006	AS	8,725 ±	2,206		
	2015	AS	13,116 ±	3,413		
<b>South Africa</b>	Kruger National Park	2006	AT	12,427 ±	0	
		2015	AT	17,086 ±	0	
	Manyeleti Game Reserve	2006	AT	71 ±	0	
2015		AT	222 ±	0		

REGION	COUNTRY	INPUT ZONE	YEAR	TYPE	ESTIMATE	95 % CL
Southern Africa CONT.	Swaziland	Hlane Royal National Park	2006	IR	13 ±	0
			2015	IR	25 ±	0
		Mkhaya Nature Reserve	2006	IR	15 ±	0
			2015	IR	14 ±	0
	Zambia	Kafue Game Management Areas	2006	AS	959 ±	492
			2015	AS	1,876 ±	1,614
		Kafue National Park	2006	AS	6,306 ±	5,227
			2015	AS	4,813 ±	2,254
		Sioma Ngwezi	2006	AS	385 ±	371
			2015	AS	48 ±	75
		Lower Zambezi Ecosystem	2006	AS	1,477 ±	744
			2015	AS	973 ±	579
		Lower Zambezi Game Management Areas	2006	AS	45 ±	53
			2015	AS	153 ±	172
		Luangwa Game Management Areas	2006	AS	3,962 ±	1,292
			2015	AS	5,869 ±	3,086
		Lukusuzi National Park	2006	AS	0 ±	0
			2015	AS	0 ±	0
		North Luangwa National Park	2006	AS	3,235 ±	695
			2015	AS	4,673 ±	1,770
	South Luangwa National Park	2006	AS	4,459 ±	1,519	
		2015	AS	3,302 ±	1,186	
	Chete and Sekula Islands	2006	AT	0 ±	0	
		2015	AT	54 ±	0	
	Zimbabwe	Tuli, Maramani, Sentinel, Nottingham	2006	AT	82 ±	0
			2015	AT	212 ±	0
		Chewore II	2006	AS	1,673 ±	705
			2015	AS	594 ±	310
		Chewore I & III	2006	AS	4,111 ±	881
			2015	AS	2,709 ±	851
Chewore IV		2006	AS	580 ±	335	
		2015	AS	0 ±	0	
Doma Safari Area		2006	AS	336 ±	383	
		2015	AS	153 ±	175	
Mavuradonha Wilderness Area		2006	AS	13 ±	26	
		2015	AS	0 ±	0	
Mukwiche Area		2006	AS	228 ±	296	
		2015	AS	0 ±	0	
Rest of Zambezi valley	2006	AS	15,870 ±	2,224		
	2015	AS	8,200 ±	2,029		
Hwange National Park	2006	AS	44,492 ±	5,770		
	2015	AS	45,846 ±	6,244		
Matabeleland Communal areas	2006	AS	64 ±	79		
	2015	AS	2,201 ±	3,062		

REGION	COUNTRY	INPUT ZONE	YEAR	TYPE	ESTIMATE	95 % CL
<b>Southern Africa</b> CONT.	<b>Zimbabwe</b> CONT.	Matetsi Safari Complex	2006	AS	4,201 ±	1,670
			2015	AS	4,843 ±	2,968
		Ngamo & Sikumi Forest Areas	2006	AS	553 ±	496
			2015	AS	1,101 ±	993
		Binga Communal Lands	2006	AS	431 ±	373
			2015	AS	86 ±	162
		Chete Safari Area	2006	AS	971 ±	310
			2015	AS	278 ±	222
		Chirisa Safari Area	2006	AS	4,231 ±	1,260
			2015	AS	1,200 ±	755
		Chizarira National Park	2006	AS	3,071 ±	1,117
			2015	AS	747 ±	767
		Kariba Communal Areas	2006	AS	3,715 ±	1,033
			2015	AS	411 ±	364
		Lusulu	2006	AS	33 ±	63
			2015	AS	0 ±	0
		Matusadona National Park	2006	AS	1,925 ±	443
			2015	AS	669 ±	251
		North Gokwe Communal Lands	2006	AS	192 ±	172
			2015	AS	0 ±	0
		Sijarira Forest Area	2006	AS	488 ±	333
			2015	AS	16 ±	17
		Gonarezhou National Park	2006	AS	4,987 ±	1,577
			2015	AS	11,120 ±	2,709
		Mahenye Ward	2006	AS	0 ±	0
			2015	AS	332 ±	441
		Malapati Safari Area	2006	AS	5 ±	9.4
			2015	AS	0 ±	0
		Malilangwe Conservancy	2006	AT	116 ±	0
			2015	AT	272 ±	0
		Save Valley Conservancy	2006	AS	527 ±	310
			2015	AS	1585 ±	1,295
<b>TOTALS</b>		Totals for Southern African Sites	2006		309,781 ±	23,062
			2015		279,868 ±	16,524
		Total Difference for Southern African Sites	9		-29,913 ±	28,371 *

\* Statistically Significant Difference

# Information Quality Index & Priorities for Future Surveys

COUNTRY	REGION	PROBABLE FRACTION	ASSESSED RANGE FRACTION	IQI	CHANGE ON PREVIOUS REPORT	CONTINENTAL RANGE FRACTION	PFS
Angola	S	0.67	0.13	0.09	+0.07	10.32 %	1
Botswana	S	0.91	0.56	0.52	-0.09	7.28 %	1
Congo	C	0.18	0.57	0.10	+0.09	4.82 %	1
Democratic Republic of Congo	C	0.16	0.51	0.08	-0.02	7.13 %	1
Gabon	C	0.09	1.01	0.09	+0.06	6.81 %	1
Mozambique	S	0.58	0.82	0.48	+0.16	10.23 %	1
Namibia	S	0.84	0.51	0.43	+0.04	5.24 %	1
South Sudan	E	0.55	0.42	0.23	+0.23	9.89 %	1
Tanzania	E	0.83	0.70	0.58	+0.04	12.45 %	1
Zambia	S	0.81	0.62	0.50	+0.04	5.44 %	1
Cameroon	C	0.69	0.68	0.47	+0.47	2.86 %	2
Central African Republic	C	0.40	0.89	0.35	+0.23	0.79 %	2
Chad	C	0.69	0.46	0.32	+0.21	1.96 %	2
Côte d'Ivoire	W	0.19	0.91	0.18	+0.02	0.47 %	2
Equatorial Guinea	C	0.57	1.00	0.57	+0.57	0.63 %	2
Ethiopia	E	0.47	0.84	0.39	+0.28	0.71 %	2
Ghana	W	0.74	0.50	0.37	+0.03	0.48 %	2
Kenya	E	0.74	0.80	0.59	+0.06	4.17 %	2
Liberia	W	0.08	0.45	0.03	+0.03	0.92 %	2
Mali	W	0.83	1.00	0.83	+0.29	0.81 %	2
Nigeria	W	0.17	0.56	0.09	-0.01	0.64 %	2
South Africa	S	0.69	0.92	0.64	-0.32	0.98 %	2
Uganda	E	0.65	0.79	0.51	+0.10	0.54 %	2
Zimbabwe	S	0.89	0.97	0.86	+0.01	2.59 %	2
Benin	W	0.67	0.99	0.66	-0.33	0.29 %	3
Burkina Faso	W	0.76	0.80	0.61	-0.19	0.48 %	3
Eritrea	E	0.00	1.00	0.00	-0.92	0.17 %	3
Guinea	W	0.00	0.78	0.00	-0.18	0.05 %	3
Guinea Bissau	W	0.00	1.00	0.00	0.00	0.04 %	3
Malawi	S	0.77	0.72	0.55	+0.41	0.25 %	3
Niger	W	0.00	1.00	0.00	-0.83	0.07 %	3
Senegal	W	0.07	1.00	0.07	-0.03	0.03 %	3
Sierra Leone	W	0.00	0.64	0.00	0.00	0.04 %	3
Somalia	E	0.00	0.68	0.00	0.00	0.14 %	3
Togo	W	0.00	0.65	0.00	-0.04	0.20 %	3
Rwanda	E	0.70	0.99	0.70	+0.40	0.03 %	4
Swaziland	S	1.00	1.00	1.00	0.00	0.00 %	5

# Acronyms & Abbreviations

<b>A</b>	AED	African Elephant Database
	AERP	Amboseli Elephant Research Project (Kenya)
	AESR	African Elephant Status Report
	AfESG	African Elephant Specialist Group
	AfRSG	African Rhino Specialist Group
	ARF	Assessed Range Fraction
	AS	Aerial Sample Count
	AT	Aerial Total Count
	AVIGREF	Associations villageoises pour la gestion des réserves de faune (Benin)

<b>B</b>	BGP	Big Game Parks of Swaziland
	BR	Biosphere Reserve
	BtR	Botanical Reserve

<b>C</b>	CA	Conservation Area
	CAR	Central African Republic
	CARPE	Central African Regional Program for the Environment
	CBFP	Congo Basin Forest Partnership
	CcA	Concession Area
	CEESP	Commission on Environmental, Economic and Social Policy
	CF	Classified Forest
	CFA	Central Africa Franc
	CHA	Controlled Hunting Area
	CI	Confidence Interval

CIMU	Conservation Information and Monitoring Unit (Tanzania)
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CL	Confidence limit
CMS	Convention on Migratory Species
COMIFAC	Conference of Ministers in Charge of Forests in Central Africa
CR	Community Reserve
CRF	Continental Range Fraction

<b>D</b>	DA	Different Area
	DC	Dung Count
	DD	Data Degraded
	DEFRA	Department for Environment, Food and Rural Affairs (United Kingdom)
	DFPN	Direction de la Faune et des Parcs Nationaux (Cameroon)
	DNFFB	Direcção Nacional de Florestas e Fauna Bravia (Mozambique)
	DRC	Democratic Republic of Congo
	DRSRS	Department of Resource Surveys and Remote Sensing (Kenya)
	DRWG	Data Review Working Group
	DT	Different Technique
	DWNP	Department of Wildlife and National Parks (Botswana)

<b>E</b>	EC	Elephant Corridor
	ECOPAS	Ecosystèmes Protégés en Afrique Sahélienne (West Africa)
	ECOWAS	Economic Community of West African States
	ELESMAP	Southern African Elephant Survey and Monitoring Programme
	EMOA	Elephant Management and Owners Association (South Africa)
	ES	Elephant Sanctuary
	ESRI	Environmental Systems Research Institute
	EWCO	Ethiopia Wildlife Conservation Organization

<b>F</b>	FFR	Fauna and Flora Reserve
	FnR	Faunal Reserve
	FR	Forest Reserve

<b>G</b>	GD	Genetic Dung Count
	GEMS	Global Environment Monitoring System
	GIS	Geographical Information System
	GMA	Game Management Area
	GmR	Game Ranch
	GP	Game Park
	GPR	Game Production Reserve
	GR	Game Reserve
	GRID	Global Resource Information Database
	GS	Ground Sample Count
	GS	Game Sanctuary
	GT	Ground Total Count

<b>H</b>	HA	Hunting Area
	HR	Hunting Reserve
	HZ	Hunting Zone

<b>I</b>	IFR	Integral Forest Reserve
	IG	Informed Guess
	INDEFOR	National Institute for Forestry Development (Equatorial Guinea)
	INR	Integral Nature Reserve
	IQI	Information Quality Index
	IR	Individual Registration
	IUCN	International Union for Conservation of Nature

<b>J-L</b>	JICA	Japan International Cooperation Agency
	KAZA TFCA	Kavango-Zambezi Transfrontier Conservation Area (Southern Africa)
	LAT	Latitude
	LON	Longitude

<b>M</b>	MET	Ministry of Environment and Tourism (Namibia)
	MIKE	Monitoring the Illegal Killing of Elephants

<b>N</b>	NA	New Analysis
	NF	National Forest
	NG	New Guess
	NGO	Non-Governmental Organization
	NIR	National Reserve
	NM	Natural Monument
	NNR	National Nature Reserve
	NP	National Park
	NP	New Population
	NPe	National Park Extension
	NPWMA	National Parks and Wildlife Management Authority (Zimbabwe)
	NR	Nature Reserve
	NRCC	Natural Resources Conservation Council
	NS	National Sanctuary

<b>O</b>	OG	Other Guess
	ORNL/ GIST	Geographic Information Science and Technology Group at the Oak Ridge National Laboratory (United States of America)

<b>P</b>	PAGEN	Partenariat pour l'Amélioration de la Gestion des Ecosystèmes Naturels (Burkina Faso)
	PF	Probable Fraction
	PFR	Partial Faunal Reserve
	PFS	Priority for Future Surveys
	PGR	Private Game Reserve
	Pk	Park
	PL	Population Lost
	PNE	Protected Natural Environment
	PNR	Private Nature Reserve
	PR	Partial Reserve
	PrP	Presidential Park
	PRP	Percentage Relative Precision
	PrR	Presidential Reserve
	PvR	Private Reserve

<b>R</b>	RA	Recreation Area
	RC	Reserve Complex
	RDBMS	Relational database management system
	RNP	Regional Nature Park
	RP	Recreation Park
	RS	Repeat survey
	RyNP	Royal National Park

<b>S</b>	SA	Safari Area
	SANParks	South African National Parks
	SF	State Forest
	SNR	Strict Nature Reserve
	SNTC	Swaziland National Trust Commission
	SR	Special Reserve
	SSC	Species Survival Commission
	Sty	Sanctuary

<b>T</b>	TAWIRI	Tanzania Wildlife Research Institute
	TFCA	Transfrontier Conservation Area
	TFR	Total Faunal Reserve
	TRIDOM	Dja-Odzala-Minkébé Tri-National Park

<b>U</b>	UNEP	United Nations Environment Programme
	UNESCO	United Nations Educational, Scientific and Cultural Organization
	USFWS	United States Fish and Wildlife Service

<b>W</b>	WA	Wilderness Area
	WCA	Wildlife Conservation Area
	WCMC	World Conservation Monitoring Centre
	WCS	Wildlife Conservation Society (United States of America)
	WP	Wetland Park
	WR	Wildlife Reserve
	WS	Wildlife Sanctuary
	WWF	World Wide Fund for Nature



