

Implementation report format

The format below follows the structure of the *CITES Strategic Vision: 2021-2030* and aims to collect information to enable the Strategic Vision indicators to be monitored.

CITES vision statement

By 2030, all international trade in wild fauna and flora is legal and sustainable, consistent with the long-term conservation of species, and thereby contributing to halting biodiversity loss, to ensuring its sustainable use, and to achieving the 2030 Agenda for Sustainable Development.

Article VIII, paragraph 7 (b), of the Convention requires each Party to submit to the CITES Secretariat a report on legislative, regulatory and administrative measures taken to enforce the provisions of the Convention.

The report format allows Parties to present information in a standard manner, so that it can be easily collated, with three main objectives:

- i) To enable monitoring of the implementation and effectiveness of the Convention;
- ii) To facilitate the identification of major achievements, significant developments, or trends, gaps or problems and possible solutions; and
- iii) Provide a basis for substantive and procedural decision-making by the Conference of the Parties and various subsidiary bodies.

The questions of the implementation report follow the structure of the *Strategic Vision 2021-2030* and its indicators that are mapped against the Sustainable Development Goals and the Kunming-Montreal Global Biodiversity Framework to ensure synergies and consistent reporting.

Information on the nature and extent of CITES trade should be incorporated into the annual report [Article VIII paragraph 7 (a)], whereas the report provided under Article VIII paragraph 7 (b) should focus on measures taken to implement the Convention.

The report should cover the period indicated in [Resolution Conf. 11.17 \(Rev. CoP19\)](#) which urges that the report should be submitted to the Secretariat on 31 October of the year before each meeting of the Conference of the Parties (CoP). The reason for setting the report to be due a year in advance of the following CoP is to allow information to be collated so it can be considered by the Standing Committee in advance of CoP, and enable publication of the Strategic Vision indicators in advance of CoP.

Reports should be prepared in one of the three working languages of the Convention (English, French, Spanish).

Parties are *strongly* encouraged to prepare and submit their reports in electronic form and to **answer at a minimum all questions in bold**. This will facilitate timely integration of information from Parties into publication of the Strategic Vision Indicators. If reports are only provided in hard copy, resources will be needed at the Secretariat to make an electronic copy, and this is not good use of Secretariat resources.

The completed report should be sent to:

CITES Secretariat
Palais des Nations
Avenue de la Paix 8-14
CH-1211 Geneva
Switzerland

Email: info@cites.org
Tel: +41-(0)22-917-81-39/40
Fax: +41-(0)22-797-34-17

If a Party requires further guidance on completing their report, please contact the CITES Secretariat at the address above.

Party	ZIMBABWE
Period covered in this report	2021, 2022 and 2023
Department or agency preparing this report	ZIMBABWE PARKS AND WILDLIFE MANAGEMENT AUTHORITY
Contributing departments, agencies and organizations	MINISTRY OF ENVIRONMENT, CLIMATE AND WILDLIFE

GOAL 1 TRADE IN CITES-LISTED SPECIES IS CONDUCTED IN FULL COMPLIANCE WITH THE CONVENTION IN ORDER TO ACHIEVE THEIR CONSERVATION AND SUSTAINABLE USE

Objective 1.1 Parties comply with their obligations under the Convention through the adoption and implementation of appropriate legislation, policies, and procedures.
[SDG Goals 12, 14 & 15](#)
[GBF Goal A & Targets 4, 5, 9 & 10](#)

Indicator 1.1.1: Number of Parties that are in category 1 under the national legislation project.
(Data source: National Legislation Project)

1.1.1a	Have any CITES relevant policies or legislation been developed during the period covered in this report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If 'Yes', have you shared information with the Secretariat? Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input type="checkbox"/> If 'No', please provide details to the Secretariat with this report:
1.1.1b	Does your legislation or legislative process allow easy amendment of your national law(s) to reflect changes in the CITES Appendices (e.g. to meet the 90 day implementation guidelines)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If 'No', please provide details of the constraints faced:

Indicator 1.1.2: Number of Parties subject to CITES recommendations to suspend trade.
(Data source: Notifications to the Parties and reference list of countries subject to a recommendation to suspend trade)

Objective 1.2 Parties have established CITES Management and Scientific Authorities and enforcement focal points that effectively carry out the duties required of them under the Convention and relevant Resolutions.

Indicator 1.2.1: Number of Parties that have designated at least one Management Authority, independent Scientific Authority and enforcement focal points in place.
(Data source: CITES online directory)

Objective 1.3 Implementation of the Convention at the national level is consistent with Resolutions and Decisions adopted by the Conference of the Parties.
[SDG Goals 12, 14 & 15](#)
[GBF Goal A & Targets 4, 5, 9, 10 & 15](#)

Indicator 1.3.1: Number of Parties that have implemented relevant reporting under Resolutions and Decisions of the Conference of the Parties and/or Standing Committee recommendations.

1.3.1a	Has your country responded to all relevant special reporting requirements that are active during the period covered in this report, including those in the Resolutions and Decisions of the Conference of the Parties, Standing Committee recommendations, and Notifications issued by the Secretariat (see [link to location on the CITES website where the reporting requirements are listed])? Responses provided to ALL relevant reporting requirements <input checked="" type="checkbox"/>
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	Responses provided to SOME of the relevant reporting requirements <input type="checkbox"/> Responses provided to NONE of the relevant reporting requirements <input type="checkbox"/> No special reporting requirements applicable <input type="checkbox"/>
1.3.1b	Were any difficulties encountered during the period covered in this report in implementing specific Resolutions or Decisions adopted by the Conference of the Parties? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If 'Yes', please provide details of which Resolution(s) or Decision(s), and, for each, what difficulties were / are being encountered?

Objective 1.4 The Appendices correctly reflect the conservation status and needs of species.
 SDG Goal 15
 GBF Goal A & Targets 4 & 5

Indicator 1.4.1: The number and proportion of species listed in Appendices that have been found to meet the criteria for each Appendix contained in Resolution Conf. 9.24 (Rev. CoP17) or its successors as part of the Periodic Review process or of amendment proposals

Objective 1.5 Parties improve the conservation status of CITES-listed specimens, put in place national conservation actions, support their sustainable use and promote cooperation in managing shared wildlife resources.
 SDG Goals 2, 12, 14 & 15
 GBF Goals A & B & Targets 4, 5, 9 & 10

Indicator 1.5.1: The conservation status of species listed on the CITES Appendices has stabilized or improved.
 (Data source: IUCN Red List conservations status categories)

1.5.1a (previously 3.4.1a)	Does your country have data which shows that the conservation status of naturally occurring species in your country listed on the CITES Appendices has stabilized or improved?	Yes	No	Not Applicable											
	<table border="0"> <tr> <td>Appendix I</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Appendix II</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Appendix III</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Appendix I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appendix II	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appendix III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Appendix I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Appendix II	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Appendix III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	If there are such studies that you are willing to share, please provide: Species name (scientific) Link to the data, or a brief summary Diceros bicornis Loxodonta africana Panthera Leo														
1.5.1b (previously 3.4.1b)	Do you have examples of specific examples of success stories or emerging problems with any CITES listed species? If 'Yes', please provide details: Human Wildlife Conflict (Crocodiles, lion, elephants)	Yes <input type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>											

Indicator 1.5.2: Number of CITES-listed species for which Parties have put in place actions that support sustainable use.

1.5.2 (previously 1.6.2a)	Does your country have any cooperative management plans, including recovery plans, in place for shared populations of CITES-listed species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If 'Yes', please list the species for which these plans are in place and provide a link or reference to a published plan for each species. Species Name (scientific) Link or reference to a published plan
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Loxodonta africana

Panthera leo

Giraffa Camelopardalis

**Hippopotamus
amphibious**

GOAL 2 PARTIES' DECISIONS ARE SUPPORTED BY THE BEST AVAILABLE SCIENCE AND INFORMATION

Objective 2.1 Parties' non-detriment findings are based on best available scientific information and their determination of legal acquisition is based on the best available technical and legal information.
[SDG Goals 12, 14 & 15](#)
[GBF Targets 4, 5, 9 & 20](#)

Indicator 2.1.1: Number of Parties that have adopted standard procedures for making non-detriment findings (NDFs).

	Yes	No	No information
2.1.1a (previously 1.5.2a)			
Does your country have standard procedures for making non-detriment findings in line with Resolution Conf. 16.7 (Rev. CoP17)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If 'Yes', please briefly describe your procedures for making non-detriment findings, or attach as an annex to this report, or provide a link to where the information can be found on the internet: Non-Detriment Findings for key species are done through stakeholder workshops and for lesser species in trade a simplified version is done through assessing species in trade and the wild populations. Adaptive management is done for species in trade.			
2.1.1b (previously 1.5.2b)	When establishing non-detriment findings, have any of the following guidance been used? Please tick all that apply		
	Virtual College	<input checked="" type="checkbox"/>	
	IUCN Checklist	<input checked="" type="checkbox"/>	
	Resolution Conf. 16.7	<input checked="" type="checkbox"/>	
	2008 NDF workshop	<input checked="" type="checkbox"/>	
	Species specific guidance	<input checked="" type="checkbox"/>	
	Other	<input type="checkbox"/>	
If 'Other' or 'Species specific guidance', please specify details:			
2.1.1c (previously 1.5.2c)	How often does your country review and/or change your non-detriment findings?	Case by case	<input checked="" type="checkbox"/>
		Annually	<input type="checkbox"/>
		Every two years	<input type="checkbox"/>
		Less frequently	<input type="checkbox"/>
		A mix of the above	<input type="checkbox"/>
Please describe the circumstances under which non-detriment findings would be changed: New research studies indicate a change in the population status or distribution of a species, when there is a change in trade levels of a specific species, ongoing monitoring of the species and its trade can reveal trends or issues that require adjustments to the NDF or other stakeholders can provide valuable perceptions that may lead to changes in the NDF.			

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Indicator 2.1.2: Number of written NDFs submitted and number of Parties submitting NDFs for posting in the CITES online database.
(Data source: NDF webpage on the CITES website)

Indicator 2.1.3: Number of Parties that have included the legal acquisition finding obligation in their national regulatory framework, as recommended by Resolution Conf. 18.7 (Rev. CoP19).

2.1.3		Yes	No	No informatio n
	<p>Is the legal acquisition finding obligation included in your national regulatory framework, as recommended by Resolution Conf. 18.7 (Rev. CoP19)?</p> <p>If 'Yes', please briefly include the name of the regulatory instrument, or provide a link to where the information can be found on the internet: Statutory instrument 76 of 1998</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Objective 2.2 Parties cooperate in sharing information and tools relevant to the implementation of CITES.
 SDG Goal 12
 GBF Goal B & Targets 20 & 21

Indicator 2.2.1: Number of surveys, studies or other analyses undertaken by exporting countries based on the sources of information cited in Resolution Conf. 16.7 (Rev. CoP17) on *Non-detriment findings* related to: - the population status of Appendix-II species; - the trends and impact of trade upon Appendix-II species; and - the status of and trend in naturally occurring Appendix I species and the impact of any recovery plans.

<p>2.2.1a (previously 1.5.1a)</p>	<p>Have any surveys, studies or other analyses been undertaken in your country in relation to:</p> <p>- the population status of Appendix II species?</p> <p>- the trends and impact of trade on Appendix II species?</p> <p>- the status of and trend in naturally-occurring Appendix I species?</p> <p>- the impact of any recovery plans on Appendix I species?</p> <p>Have the surveys, studies or analyses integrated relevant knowledge and expertise of local and indigenous communities?</p> <p>If there are such studies that you are willing to share, please provide:</p> <p>A brief summary of the results of the survey, study or other analysis (e.g. population status, decline / stable / increase, off-take levels etc), or provide links to published reference material.</p> <p>Species name (scientific)</p> <p>Loxodonta africana</p> <p>Panthera pardus</p> <p>Diceros Bicornis</p> <p>Manis spp</p> <p>Giraffa Camelopardalis</p> <p>Panthera pardus</p>	<p>Yes</p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>	<p>No</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Not Applicable</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>If Yes, How many?</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p>2.2.1b (previously 1.5.1b)</p>	<p>How are the results of such surveys, studies or other analyses used in making non-detriment findings (NDFs)? Please tick all that apply</p> <p>Revised harvest or export quotas <input checked="" type="checkbox"/></p> <p>Banning export <input checked="" type="checkbox"/></p> <p>Stricter domestic measures <input checked="" type="checkbox"/></p> <p>Changed management of the species <input checked="" type="checkbox"/></p> <p>Discussion with Management Authorities <input type="checkbox"/></p> <p>Discussion with other stakeholders? <input type="checkbox"/></p> <p>Other (please provide a short summary): Data on population size, distribution, and trends help determine whether a species can withstand current or proposed levels of trade. Studies on the impact of trade on the species provide insights into how current trade levels affect the species' survival and reproduction. Information on the species' habitat requirements and ecological role helps understand how trade might affect the broader ecosystem. Engaging with local communities, conservation organizations, and other stakeholders provides valuable qualitative data that complements scientific studies.</p>				
<p>2.2.1c (previously 1.5.1c)</p>	<p>Does your country have specific conservation measures or recovery plans for naturally occurring Appendix-I listed species?</p>	<p>Yes</p> <p>No</p> <p>Not Applicable</p> <p>No information</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>		

	<p>If 'Yes', please provide a brief summary, including, if possible, an evaluation of their impact:</p> <p>Zimbabwe has a rhino management plan that is reviewed annually through a stakeholder workshop. This is where a review of all the management interventions are done and future measures are discussed and recommendations made.</p>
<p>2.2.1d (previously 1.5.1d)</p>	<p>Have your <u>country</u> published any non-detriment findings that can be shared? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please provide links or examples to the Secretariat within this report:</p> <p>Reports attached to annexure.</p>

2.2.1e (previously 1.5.1e)	Which of the following [A to F of paragraph 1 a) x) of Resolution Conf. 16.7 (Rev. CoP17)] does your country use in making non-detriment findings?	Yes	No
	A. relevant scientific literature concerning species biology, life history, distribution and population trends.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B. details of any ecological risk assessments conducted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	C. scientific surveys conducted at harvest locations and at sites protected from harvest and other impacts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	D. relevant knowledge and expertise of local and indigenous communities.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	E. consultations with relevant local, regional and international experts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	F. national and international trade information such as that available via the CITES trade database maintained by UNEP World Conservation Monitoring Centre (UNEP-WCMC), publications on trade, local knowledge on trade and investigations of sales at markets or through the Internet for example.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Indicator 2.2.2: Number and proportion of annual export quotas based on population surveys.
(Data source: Quotas webpage on the CITES website)

2.2.2a (previously 1.5.3a)	Does your country set annual export quotas?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
	If 'Yes', does your country set quotas based on population survey, or by other means? Please specify, for each species, how quotas are set:		
	Species Name (scientific)	Population Survey?	Other, please specify
	<i>Loxodonta africana</i>	<input checked="" type="checkbox"/>	
	<i>Panthera leo</i>	<input checked="" type="checkbox"/>	
	<i>Panther pardus</i>	<input checked="" type="checkbox"/>	
	<i>Acinonyx jubatus</i>		
2.2.2b (previously 1.5.3b)	Have annual export quotas been set at levels which will ensure sustainable production and consumption?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
	If 'Yes', please describe how this fits into your non-detriment finding process:		
	The process begins with a scientific assessment of the species' population status and trends. Research and monitoring is done for all wildlife species. Adaptive management informs all wildlife use in Zimbabwe for all the species. The Scientific Authority sets all quotas including export quotas. These quotas are designed to ensure that the number of specimens exported does not result in negative impacts on the remaining wild populations.		

Indicator 2.2.3: Number of workshops and other capacity-building activities that bring range States together to address the conservation and management needs of shared CITES listed species.

2.2.3a (previously 1.6.3a)	Have the CITES authorities received or benefited from any of the following capacity-building activities provided by external sources?
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Please tick boxes to indicate which target group and which activity.	Oral or written advice/guidance	Technical assistance	Financial assistance	Training	Other (specify)	What were the external sources ¹ ?
Staff of Management Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>World customs organisation regional multi-stakeholder workshop, September 2022, Johannesburg, South Africa</p> <p>Cites virtual capacity development workshop: captive breeding operations, March 2021</p>
Staff of Scientific Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ETIS and MIKE online training
Staff of enforcement authorities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>China National Bamboo Research Center (CBRC); Online seminar on capacity-building for officials from parties implementing CITES September 2022</p> <p>National Academy of Forestry and Grassland Administration (NFGA), Seminar on Wildlife Conservation and CITES Implementation for Developing Countries, Online 2023</p>
Traders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NGOs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Public	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (please specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

¹ Please provide the names of Parties, and any non-Parties, involved.

2.2.3b (previously 1.6.3b)	<p>Have the CITES authorities been the providers of any of the following capacity-building activities to other range States?</p> <p>Please tick boxes to indicate which target group and which activity.</p> <table border="1"> <thead> <tr> <th>Target group</th> <th>Oral or written advice/guidance</th> <th>Technical assistance</th> <th>Financial assistance</th> <th>Training</th> <th>Other (specify)</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>Staff of Management Authority</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td rowspan="3">CITES Captive breeding ETIS and MIKE online training</td> </tr> <tr> <td>Staff of Scientific Authority</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Staff of enforcement authorities</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Traders</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>NGOs</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Public</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Other Parties/International meetings</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Other (please specify)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> </tbody> </table>	Target group	Oral or written advice/guidance	Technical assistance	Financial assistance	Training	Other (specify)	Details	Staff of Management Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CITES Captive breeding ETIS and MIKE online training	Staff of Scientific Authority	<input type="checkbox"/>	Staff of enforcement authorities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		NGOs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Public	<input type="checkbox"/>		Other Parties/International meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Other (please specify)	<input type="checkbox"/>													
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2.2.3c (previously 1.6.3c)	<p>In what ways does your country collaborate with other CITES Parties?</p> <table border="1"> <thead> <tr> <th></th> <th>Never</th> <th>Rarely</th> <th>Sometimes</th> <th>Very Often</th> <th>Always</th> <th>Further detail / examples</th> </tr> </thead> <tbody> <tr> <td>Information exchange</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>MIKE CITES</td> </tr> <tr> <td>Monitoring / survey</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>KAZA Aerial survey</td> </tr> <tr> <td>Habitat management</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Transfrontier Conservation Areas</td> </tr> <tr> <td>Species management</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td rowspan="2">Joint law enforcement activities e.g patrols</td> </tr> <tr> <td>Law enforcement</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Capacity building</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Other (please provide details)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Never	Rarely	Sometimes	Very Often	Always	Further detail / examples	Information exchange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MIKE CITES	Monitoring / survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	KAZA Aerial survey	Habitat management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transfrontier Conservation Areas	Species management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Joint law enforcement activities e.g patrols	Law enforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Capacity building	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Other (please provide details)												
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Other (please provide details)																																																														
2.2.3d (previously 2.3.1a)	<p>How many training and capacity building activities¹ has your country run during the period covered in this report?</p> <table border="1"> <thead> <tr> <th></th> <th>Without assistance from the Secretariat</th> <th>Conducted or assisted by the Secretariat</th> </tr> </thead> <tbody> <tr> <td>None</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2-5</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6-10</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>11-20</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>More than 20</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		Without assistance from the Secretariat	Conducted or assisted by the Secretariat	None	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	2-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6-10	<input type="checkbox"/>	<input type="checkbox"/>	11-20	<input type="checkbox"/>	<input type="checkbox"/>	More than 20	<input type="checkbox"/>	<input type="checkbox"/>																																								
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More than 20	<input type="checkbox"/>	<input type="checkbox"/>																																																												

¹ An activity might be a single day training e.g. for a group of staff from the Management Authority, or a longer course / project undertaken by an individual.

	Please list the Resolutions or Decisions involved: Resolution Conf. 19.2 – 2						
2.2.3e (previously 2.3.1b)	What sorts of capacity building activities have taken place? Training of Zimbabwe Revenue Authority (Zimra)/ Customs, Boarder Security and Zimbabwe Republic Police staff in Harare and in Victoria falls. The training covered the following areas; <ol style="list-style-type: none"> 1. Introduction to CITES 2. Identification of CITES timber species and trade issues 3. Institutional roles in CITES Trade 4. Trends and tactics used by smugglers in illegal wildlife trade 						
2.2.3f (previously 2.3.1c)	What capacity building needs does your country have? Please tick all boxes which apply to indicate which target group and which activity.						
	Target group	Oral or written advice/guidance	Technical assistance	Financial assistance	Training	Other (specify)	Details
	Staff of Management Authority	<input checked="" type="checkbox"/>	Interpretation of Decisions and Resolutions				
	Staff of Scientific Authority	<input checked="" type="checkbox"/>	Interpretation of Decisions and Resolutions				
	Staff of enforcement authorities	<input checked="" type="checkbox"/>	Interpretation of Decisions and Resolutions				
	Traders / other user groups	<input type="checkbox"/>					
	NGOs	<input type="checkbox"/>					
	Public	<input type="checkbox"/>					
	Other (please specify)	<input type="checkbox"/>					

Indicator 2.2.4: Number of reports shared by the Parties in compliance with the Resolutions of the Convention. (Data source: CITES Secretariat)

Indicator 2.2.5: Number of Parties sharing information relevant to the implementation of CITES (e.g. shared databases, data visualization/software, information-sharing focused tools, etc.).

2.2.5	Has your country shared information relevant to the implementation of CITES (e.g. shared databases, data visualization/software, information-sharing focused tools, etc.)?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>

Indicator 2.2.6: Number of CoP side-events where Parties present information and tools relevant to the implementation of CITES (Data source: CoP side-event schedule and descriptions)

Objective 2.3 Parties have sufficient information to enforce the Convention.
[SDG Goal 12](#)
[GBF Goal D & Targets 15 & 21](#)

Indicator 2.3.1: Proportion of Parties that are making use of the available tools. For instance, one could look at Google Analytics for the number of site visits to the CITES website, CITES Checklist, or Species+ or the number of downloads from the CITES Trade Database as a proxy for usage of shared tools.

(Data source: CITES Secretariat – Number of visits to the CITES website; number of visits to the CITES Checklist and Species+; number of downloads from the CITES Trade Database)

Indicator 2.3.2: Percentage of Parties reporting having sufficient information to enforce the Convention.

2.3.2	Do you consider that your country has sufficient information to enforce the Convention?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>

Objective 2.4 Parties have sufficient information to make listing decisions that are reflective of species conservation needs.

[SDG Goal 12](#)

[GBF Goals A & D & Targets 5, 20 & 21](#)

Indicator 2.4.1: Percentage of Parties reporting having sufficient information to make listing decisions that are reflective of species conservation needs.

2.4.1	Do you consider that your country has sufficient information to make listing decisions that are reflective of species conservation needs?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>

Objective 2.5 Information gaps and needs for key species are identified and addressed.

[SDG Goal 12](#)

[GBF Target 21](#)

Indicator 2.5.1: Number of Parties that have undertaken research (including for non-detriment findings) on their identified key species most relevant to the implementation of the Convention.

2.5.1a	<p>Has research (including for non-detriment findings) on your identified key species most relevant to the implementation of the Convention been undertaken in your country?</p> <p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please indicate how you identify key species:</p> <p>Species that are listed as endangered, vulnerable, or threatened on the IUCN Red List are prioritized. Species that are significant for local economies, such as those involved in trophy hunting or ecotourism, are also considered. For example, elephants and leopards are key species due to their role in the CAMPFIRE program. Species that play a crucial role in their ecosystems, such as keystone species, are identified. Species that are traded or have high demand in international markets are monitored closely.</p>
2.5.1b (previously 1.4.1a)	<p>Has your country undertaken any reviews of whether species would benefit from listing on the CITES Appendices?</p> <p style="text-align: right;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If 'Yes', please provide a summary here, or a link to the report of the work (or a copy of that report to the Secretariat if the work is not available online):</p>

Indicator 2.5.2: Number of Parties that currently lack information for their identified key species most relevant to the implementation of the Convention and need assistance to address them.

2.5.2	<p>Do you consider that your country currently lacks information on your identified key species most relevant to the implementation of the Convention and needs assistance to address them?</p> <p style="text-align: right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please specify for which key species and the type of assistance needed:</p> <p>As a country we lack data on the level of illegal trade drivers and markets for some wild species products such as lion products, pangolin scales and cheetah cubs. Due to limited funding we are not able to do aerial surveys for some areas outside the key elephant range areas.</p>
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GOAL 3 PARTIES (INDIVIDUALLY AND COLLECTIVELY) HAVE THE TOOLS, RESOURCES AND CAPACITY TO EFFECTIVELY IMPLEMENT AND ENFORCE THE CONVENTION, CONTRIBUTING TO CONSERVATION, SUSTAINABLE USE AND THE REDUCTION OF ILLEGAL TRADE IN CITES-LISTED WILDLIFE SPECIES

Objective 3.1 Parties have in place administrative procedures that are transparent, practical, coherent and user-friendly, and reduce unnecessary administrative burdens.
[SDG Goal 16](#)
[GBF Goal D](#)

Indicator 3.1.1: Number of Parties that have adopted standard transparent procedures for the timely issuance of permits in accordance with Article VI of the Convention.

		Yes	No	No information
3.1.1 (previously 1.2.1a)	Does your country have standard operating procedures for application for and issuance of permits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are the procedures publicly available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Indicator 3.1.2: Number of Parties making use of the simplified procedures provided for in Resolution Conf. 12.3 (Rev. CoP19).

3.1.2 (previously 1.2.2a)	Has your country developed simplified procedures for any of the following?	Tick all applicable		
		Yes	No	No information
	Where biological samples of the type and size specified in Annex 4 to Resolution Conf. 12.3 (Rev. CoP19) are urgently required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For the issuance of pre-Convention certificates or equivalent documents in accordance with Article VII, paragraph 2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For the issuance of certificates of captive breeding or artificial propagation in accordance with Article VII, paragraph 5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For the issuance of export permits or re-export certificates in accordance with Article IV for specimens referred to in Article VII, paragraph 4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are there other cases judged by a Management Authority to merit the use of simplified procedures? If 'Yes', please provide details:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Indicator 3.1.3: Number of Parties that have adopted an electronic system for the issuance of permits.

		Yes	No	No information
3.1.3 (previously 1.2.1b)	Does your country have: Electronic data management and a paper-based permit issuance system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Electronic permit information exchange between Management Authorities of some countries If 'Yes', please list countries	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic permit information exchange to Management Authorities of all countries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic permit data exchange between Management Authorities and customs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic permit used to cross border with electronic validation by customs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If 'Yes' to any of the above, please provide information on challenges faced or issues overcome:			
If 'No', do you have any plans to move towards e-permitting ¹ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>If you are planning to move towards e-permitting, please explain what might help you to do so:</p> <p>For Zimbabwe to effectively transition to a CITES e-permitting system, there is a need for a robust digital infrastructure, including reliable internet connectivity and secure servers. Training for government officials, customs officers, and other stakeholders on how to use the e-permitting system. This ensures that everyone involved is proficient in the new system. Working with CITES Secretariat and other countries that have successfully implemented e-permitting, to share best practices and lessons learned.</p>			

Objective 3.2 Parties and the Secretariat develop, adopt and implement adequate capacity-building programmes.
[SDG Goal 17](#)
[GBF Goal D & Targets 20 & 21](#)

Indicator 3.2.1: Number of Parties with training programmes and information resources in place to implement CITES, including the making of non-detriment and legal acquisition findings, issuance of permits and enforcement.

3.2.1a (previously 1.8.1a)	Does your country have information resources or training in place to support:	Yes	No
	The making of non-detriment findings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Permit officers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Enforcement officers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.2.1b (previously 1.8.1b)	Is the CITES Virtual College used as part of your capacity building work?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
		No information	<input type="checkbox"/>
	What improvements could be made in using the Virtual College for capacity building?		
	Incorporate more interactive elements such as quizzes, simulations, and local case studies to engage users and enhance their learning experience. Implement a feedback mechanism where users can provide suggestions and report issues, helping to continuously improve the platform. Foster a sense of community among users through discussion forums, peer-to-peer learning opportunities, and networking events.		

¹ e-permitting refers to the electronic (paperless) management of the permit business process, including permit application, Management Authority – Scientific Authority consultations, permit issuance, notification to customs and reporting.

3.2.1c (previously 1.8.1c)	Is the ICCWC Wildlife and Forest Crime Toolkit used in the development of capacity-building programmes, or does it form part of the curriculum of such programmes? What improvements could be made in using the ICCWC Toolkit for capacity building? A country specific needs assessment should be done for range states to identify key law enforcement activities that are identified and funded.	Yes No No information	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Indicator 3.2.2: Number of workshops and other capacity-building activities that bring range States together to address the conservation and management needs of shared CITES listed species.

See questions for indicator 2.2.3

Objective 3.3 Sufficient resources are available at the national and international levels to support necessary capacity-building programmes and ensure compliance with and full implementation and enforcement of the Convention.

[SDG Goals 15 & 17](#)

[GBF Goal D & Targets 20 & 21](#)

Indicator 3.3.1: Number of Parties meeting their obligations with regard to their assessed contributions to the Trust Fund.
(Data source: CITES Secretariat)

Indicator 3.3.2: Percentage of the total funds required to implement the work programme agreed by the Conference of the Parties that is fully funded.
(Data source: CITES Secretariat)

Objective 3.4 Parties recognize illegal trade in wildlife as serious crime and have adequate systems in place to detect and deter it.
[SDG Goal 15](#)

Indicator 3.4.1: Number of Parties where criminal offences relating to illegal trade in wildlife (such as illegal hunting/harvest and wildlife trafficking) are recognized as a serious crime.

3.4.1a (previously 1.7.3b)	Are criminal offences such as poaching and wildlife trafficking recognized as serious crime¹ in your country? If 'Yes', please explain what criteria must be met for poaching or wildlife trafficking offences to be treated as serious crimes: Zimbabwe has stringent laws and regulations to combat wildlife crimes. The Parks and Wildlife Act (Chapter 20:14) provides the legal basis for wildlife conservation and management in Zimbabwe. Offenders can be fined or be imprisoned. For example the poaching of endangered species such as elephants and rhinos has a minimum mandatory sentence of 9 years and an offender can face imprisonment of up to 20 years.	Yes No No information	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3.4.1b (previously 1.7.3a)	Does your country have law and procedures in place for investigating, prosecuting, and penalizing CITES offences as a crime? If 'Yes', please provide the title of the legislation and a summary of the penalties available The key primary legislation governing CITES offences is the Parks and Wildlife Act (Chapter 20:14). Other supporting Acts include the Forestry Commission Act, Environmental Management Authority Act. In addition to these, the Criminal	Yes No No information	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

¹ The United Nations Convention against Transnational Organized Crime defines serious crime as conduct constituting an offence punishable by imprisonment for at least four years or a more serious penalty.

	<p>procedure and Evidence Act has specific sections addressing wildlife issues. Apart from these, Statutory Instruments such as SI 76 Import and Export procedures, poaching of endangered species like elephants and rhinos can result in fines up to level fourteen, which is a significant monetary penalty. Severe offences, such as the illegal killing or trafficking of protected species, can lead to imprisonment for up to 20 years. In some cases, offenders may be subjected to both fines and imprisonment, depending on the severity of the crime. The Act also provides for the confiscation of illegally traded or possessed wildlife specimens. The regulations include;</p> <p>1) Parks and Wildlife Act 2) SI 76 Domestication of CITES Export and import trade requirements 4) SI 362 Administration of wildlife industry 5) SI114 Hunting administration 6) SI 85 Import and Export Quantities 7) SI 75 of 2020 Specially protected Animals 8) CITES Resolutions 9) CITES Decisions 10) CITES Party regulations</p>	
3.4.1c (previously 1.7.3c)	<p>Does your country have capacity to use forensic technology¹ to support the investigation of CITES offences?</p> <p>If 'Yes', please provide a brief summary of any samples from CITES-listed species that were collected and submitted to an appropriate forensic analysis facility (located in your country and/or another country) during the period covered in this report:</p> <p>If 'Yes', and your country has an appropriate forensic analysis facility for CITES-listed species, please indicate which species it applies to: Yes, we are working with local universities, local stakeholders and government Ministries for forensic technology</p>	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>No information <input type="checkbox"/></p>
3.4.1d (previously 1.7.3d)	<p>Did your authorities participate in or initiate any multi-disciplinary² law enforcement operation(s) targeting CITES-listed species during the period covered in this report?</p> <p>If 'Yes', please provide a brief summary, including any lessons learned which might be helpful for other Parties: Operation Nhaka yedu, Operation thunder</p>	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>No information <input type="checkbox"/></p>
3.4.1e (previously 1.7.3e)	<p>Does your country have a standard operating procedure among relevant agencies for submitting information related to CITES offences to INTERPOL and/or the World Customs Organization?</p>	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>No information <input type="checkbox"/></p>

¹ Capacity to use forensic technology means the ability to collect, handle and submit samples from crime scenes involving CITES-listed species to an appropriate forensic analysis facility, located either in your country or in another country(ies).

² A multi-disciplinary law enforcement operation is one that involves officers from all relevant enforcement disciplines as appropriate, for example officers from Police, Customs and the wildlife regulatory authority. It could be either sub-national, national or international in scope.

3.4.1f (previously 1.7.3f)	Does your country have legislative provisions for any of the following that can be applied to the investigation, prosecution and/or sentencing of CITES offences as appropriate?	Yes	No	No information	If yes, how many times was this used during the period covered by this report?
	General crime ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Predicate offences ²	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Asset forfeiture ³	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Corruption ⁴	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	International cooperation in criminal matters ⁵	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Organized crime ⁶	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Specialized investigation techniques ⁷	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If 'Yes' to any of the above, please explain how each is used for CITES offences? Please provide a brief summary, including any lessons learned which might be helpful for other Parties:					
3.4.1g (previously 1.7.3g)	Does your country have institutional capacity to implement the legislative provisions listed in the question above against CITES offences?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>			
If 'No', please provide a brief summary of your major capacity-building needs:					

Objective 3.5 Parties work collaboratively across range, transit and destination states, to address entire illegal trade chains, including through strategies to reduce both the supply of and demand for illegal products, in order for trade to be legal and sustainable.

[SDG Goals 15 & 17](#)

[GBF Targets 5, 16, 20 & 21](#)

Indicator 3.5.1: Number of seizures made through Parties collaboration across range, transit and destination States, to address entire illegal trade chains.

3.5.1	Have authorities in your country made seizures through Parties collaboration across range, transit and destination States, to address entire illegal trade chains?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>
If 'Yes', please indicate the number of seizures made: Five		

¹ General crime laws relate to offences such as fraud, conspiracy, possession of weapons, and other matters as set out in the national criminal code.

² Article 2, paragraph (h) of the United Nations Convention against Transnational Organized Crime defines a predicate offence as an offence whose proceeds may become the subject of any of the money-laundering offences established under the Convention.

³ Asset forfeiture is the seizure and confiscation of assets obtained from criminal activities to ensure that criminals do not benefit from the proceeds of their crimes.

⁴ Provisions against corruption include national laws to implement the United Nations Convention against Corruption covering offences such as bribery of officials, embezzlement or misappropriation of public funds, trading in influence and abuse of functions by public officials.

⁵ International cooperation in criminal matters includes legislation through which a formal request for mutual legal assistance and/or extradition of a person for criminal prosecution can be forwarded to another country.

⁶ Article 2, paragraph (a) of the United Nations Convention against Transnational Organized Crime defines an organized criminal group as a structured group of three or more persons, existing for a period of time and acting in concert with the aim of committing one or more serious crimes or offences established in accordance with the Convention, in order to obtain, directly or indirectly, a financial or other material benefit.

⁷ Specialized investigation techniques are techniques that are deployed against serious and/or organized crime when conventional law enforcement techniques fail to adequately address the activities of crime groups. Examples include controlled deliveries and covert operations.

Objective 3.6 Parties take measures to prohibit, prevent, detect and sanction corruption.
[SDG Goal 16](#)

Indicator 3.6.1: Number of Parties reporting in implementation reports of activities taken to address corruption.

3.6.1	Has your country undertaken activities to address corruption, in particular with regard to national agencies responsible for wildlife law enforcement and protected areas management? If 'Yes', please elaborate on the types of activities taken: The Anti-Corruption Commission was established to be the watchdog on corruption and related activities in the country. In addition the Head of organisations including wildlife organisations signed ethics codes of conducts on top of performance contracts which aim at prohibiting and preventing corrupt activities.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>
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Objective 3.7 Investments in building capacity of CITES are prioritized, coordinated, and their success monitored to ensure stepwise improvement through time.
[SDG Goals 15 & 17](#)
[GBF Goal D & Target 20](#)

Indicator 3.7.1: Number of capacity-building activities delivered to Parties.
(Data source: See questions for indicator 2.2.3)

Indicator 3.7.2: Number of Parties who report improvements in their implementation following targeted capacity-building efforts.

3.7.2	Can you report improvements in the implementation of CITES in your country following targeted capacity-building efforts? If 'No', please elaborate on the reasons why targeted capacity-building did not lead to improvements in your implementation:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No capacity-building <input type="checkbox"/>
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Indicator 3.7.3: Total investments into capacity-building efforts.
(Data source: Reports from capacity-building activities)

Objective 3.8 Parties take full advantage of emerging technological developments to improve the effective implementation and enforcement of the Convention.
[SDG Goal 17](#)
[GBF Goal D & Targets 20 & 21](#)

Indicator 3.8.1: Number of CITES Parties using the CITES Checklist API.
(Data source: CITES Secretariat)

GOAL 4 CITES POLICY DEVELOPMENT ALSO CONTRIBUTES TO AND LEARNS FROM INTERNATIONAL EFFORTS TO ACHIEVE SUSTAINABLE DEVELOPMENT

Objective 4.1 Parties support sustainable wildlife trade policies, especially those that increase the capacity of Indigenous peoples and local communities to pursue livelihoods.
[SDG Goals 8, 12, 14, 15 & 17](#)
[GBF Goals B & C & Targets 5 & 22](#)

Indicator 4.1.1: Number of CITES-listed species for which Parties have designed/implemented relevant sustainable wildlife management policies.

4.1.1	Has your country designed or implemented relevant sustainable wildlife management policies for CITES-listed species? If 'Yes', please indicate the names of the species:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>
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	Taxon (scientific name)	Total number of CITES-listed species covered
	<i>Panthera leo</i>	
	<i>loxodonta africana</i>	
	<i>Panthera pardus</i>	
	<i>Diceros bicornis</i>	

Indicator 4.1.2: Percentage of Parties that co-developed or otherwise supported the capacity of indigenous peoples and local communities to pursue livelihoods.

4.1.2	Has your country co-developed or otherwise supported the capacity of indigenous peoples and local communities to pursue livelihoods?	Yes <input checked="" type="checkbox"/>
		No <input type="checkbox"/>
		No information <input type="checkbox"/>

Objective 4.2 The importance of achieving CITES' aim as a contribution to achieving the relevant Sustainable Development Goals, as well as the post-2020 global biodiversity framework, is recognized.

[SDG Goals 12, 15 & 17](#)

[GBF Targets 4 & 5](#)

Indicator 4.2.1: Number of Parties incorporating CITES into their National Biodiversity Strategy and Action Plan (NBSAP), also included in the global and national Strategies for Plant Conservation under CBD programme.

4.2.1a (previously 3.4.2a)	Has CITES been incorporated into your country's National Biodiversity Strategy and Action Plan (NBSAP) or any revision of the NBSAP?	Yes <input checked="" type="checkbox"/>
		No <input type="checkbox"/>
		No information <input type="checkbox"/>
4.2.1b (previously 3.4.2b)	Has your country been able to obtain funds from the Global Environment Facility (GEF) or other sources to support CITES aspects of NBSAP implementation?	Yes <input checked="" type="checkbox"/>
		No <input type="checkbox"/>
		No information <input type="checkbox"/>

Objective 4.3 Awareness of the role, purpose and achievements of CITES is increased globally.

[SDG Goals 12 & 17](#)

[GBF Targets 4, 5 & 21](#)

Indicator 4.3.1: Number of new, unique visits to the CITES website.

(Data source: CITES Secretariat – number of site visits to the CITES website)

Indicator 4.3.2: Number of Parties with information on CITES and its requirements on their official websites.

(Data source: CITES Secretariat – number of Management Authorities with a website)

Indicator 4.3.3: Number of followers on CITES social media platforms.

(Data source: CITES Secretariat – number of followers of CITES and WWD on social media, i.e., Instagram, LinkedIn, Facebook, Youtube, Wechat and Weibo)

Indicator 4.3.4: Number of key identified hashtags (e.g. #cites, #citescop19 #worldwildlifeday, etc.) on CITES social media.

(Data source: CITES Secretariat)

Indicator 4.3.5: Number of events submitted to the World Wildlife Day website.

(Data source: CITES Secretariat)

Objective 4.4 CITES Parties are informed of international actions for sustainable development that may have a bearing on achieving the goal of CITES.

[SDG Goal 17](#)

[GBF Target 21](#)

- Indicator 4.4.1: Number of meetings/CoP where representatives of other international bodies report on relevant activities to CITES Parties.
(Data source: CITES Secretariat)
- Indicator 4.4.2: Events, documents and presentations, etc. delivered by other intergovernmental bodies and fora in meetings convened by the CITES Secretariat.
(Data source: CITES Secretariat)
- Indicator 4.4.3: Number of Notifications to the Parties issued by the CITES Secretariat relating to international actions for sustainable development that may have a bearing on achieving the goal of CITES.
(Data source: CITES Secretariat)

GOAL 5 DELIVERY OF THE CITES STRATEGIC VISION IS IMPROVED THROUGH COLLABORATION

Objective 5.1 Parties and the Secretariat support and enhance existing cooperative partnerships in order to achieve their identified objectives.
SDG Goal 17
GBF Goal D & Target 20

Indicator 5.1.1: Number of Parties which report that they have achieved synergies in their implementation of CITES, other biodiversity-related conventions and other relevant multilateral environmental, trade and development agreements.

5.1.1 (previously 3.3.1a)	Have measures been taken to achieve coordination and reduce duplication of activities between the national CITES authorities and national focal points for other multilateral environmental agreements (e.g. the other biodiversity-related conventions: CBD, CMS, ITPGR, Ramsar, WHC)¹ to which your country is party?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
		No information	<input type="checkbox"/>
If 'Yes', please give a brief description: We have specific focal point for every convention that Zimbabwe has ratified and a Director responsible for the coordination of all MEAs.			

Indicator 5.1.2: Number of Parties cooperating / collaborating with intergovernmental and non-governmental organizations to participate in and/or fund CITES workshops and other training and capacity-building activities.

5.1.2 (previously 3.3.3a)	Has funding been provided or received to facilitate CITES workshops, training or other capacity building activities to / from:	Tick if applicable	Which organizations?
	Inter-governmental organizations?	<input type="checkbox"/>	
	Non-governmental organizations?	<input type="checkbox"/>	

Indicator 5.1.3: Number of cooperative actions taken under established bilateral or multilateral agreements to prevent species from being unsustainably exploited through international trade.

5.1.3 (previously 3.5.1a)	Has your country taken action under established bilateral or multilateral agreements other than CITES to prevent species from being unsustainably exploited through international trade?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
		No information	<input type="checkbox"/>
If 'Yes', please provide details: Zimbabwe-Mozambique Transfrontier Conservation Area (TFCA), Zimbabwe-Zambia, Convention on Biological			

¹ CBD = Convention on Biological Diversity; CMS = Convention on the Conservation of Migratory Species of Wild Animals, ITPGR = International Treaty on Plant Genetic Resources for Food and Agriculture, Ramsar = The Convention on Wetlands of International Importance, WHC = World Heritage Convention.

	Diversity Cooperation, Lusaka Agreement Task Force (LATF), Southern African Development Community (SADC) his includes the SADC Law Enforcement and Anti-Poaching (LEAP) Strategy
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Indicator 5.1.4: Number of times other relevant international organizations and agreements dealing with natural resources are consulted on issues relevant to species subject to unsustainable trade.

5.1.4 (previo usly 3.5.2a)	Average number of times per year that international organizations or agreements have been consulted by CITES Authorities	Once	2-5 times	6-20 times	More than 20 times	No consultation	Optional comment about which organizations and issues consulted on
	Management Authority(ies)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Scientific Authority(ies)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Enforcement Authority(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Indicator 5.1.5: Number of implemented cooperation agreements between the Secretariat and Multilateral Environmental Agreements (MEAs), including the Biodiversity Liaison Group (BLG) and other biodiversity-related Conventions.
(Data source: CITES Secretariat)

Objective 5.2 Parties encourage the formation of new, innovative and mutually sustainable alliances between CITES and relevant international partners, where appropriate to advance CITES' objective and mainstream conservation and of sustainable use of biodiversity.
[SDG Goal 17](#)
[GBF Goal D & Target 20](#)

Indicator 5.2.1: Number of alliances between CITES and relevant international partners to advance CITES objective and mainstream conservation and sustainable use of biodiversity.
(Data source: CITES Secretariat)

Objective 5.3 Cooperation between CITES and international financial mechanisms and other related institutions is enhanced in order to support activities that contribute to CITES implementation and enforcement.
[SDG Goals 15 & 17](#)
[GBF Goal D](#)

Indicator 5.3.1: Number of Parties funded by international financial mechanisms and other related institutions to develop activities that include CITES-related conservation and sustainable development elements.

5.3.1a (previo usly 3.1.1a)	Has funding from international financial mechanisms and other related institutions been used to develop activities that include CITES-related conservation and sustainable development elements?	Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
		Not applicable	<input type="checkbox"/>
		No information	<input type="checkbox"/>
	If 'Yes', please provide brief details: Zimbabwe has received funding from the Global Environment Fund (GEF) for various biodiversity conservation projects. These projects often include components that align with CITES objectives, such as protecting endangered species and their habitat, the World Bank has supported projects in Zimbabwe that focus on sustainable natural resources management, The African Development Bank (AfDB) has funded initiatives aimed at enhancing wildlife conservation and combating illegal wildlife trade in Zimbabwe. Management, EU Fund to combat wildlife trafficking, KAZA for aerial surveys, UNEP, AEF.		

5.3.1b (previously 3.1.1a)	During the period covered in this report, has funding for your country from international funding mechanisms and other related institutions:	Increased	<input checked="" type="checkbox"/>
		Remained stable	<input type="checkbox"/>
		Decreased	<input type="checkbox"/>

Indicator 5.3.2: Number of countries and institutions that have provided additional funding from CITES Authorities to another country or activity for conservation and sustainable development projects in order to further the objectives of the Convention.

5.3.2 (previously 3.1.2a)	Has your country provided technical or financial assistance to another country or countries in relation to CITES?						Yes	<input checked="" type="checkbox"/>
							No	<input type="checkbox"/>
						No information	<input type="checkbox"/>	
If 'Yes', please tick boxes to indicate type of assistance provided		Species Management ¹	Habitat Management ²	Sustainable use	Law Enforcement	Livelihoods	Other (specify)	Details (provide more information in an Appendix if necessary)
Country(ies)								
Mozambique		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ivory Stock Management. Permitting system administration				
Tanzania		<input checked="" type="checkbox"/>	Ivory Stock Management					
		<input type="checkbox"/>						
		<input type="checkbox"/>						
		<input type="checkbox"/>						
		<input type="checkbox"/>						

¹ Use species conservation column for work directly related to species – e.g. population surveys, education programmes, conflict resolution, etc.

² Use habitat conservation column for work that will indirectly support species conservation – e.g. habitat management, development of policy frameworks for how land is managed, etc.

**Questions that are not directly linked to the CITES Strategic Vision indicators
but provide useful information about the implementation of the Convention**

COOPERATION AND SYNERGIES

C1 (previously 1.6.1a)	<p>Is your country a signatory to any bilateral and/or multilateral agreements for co-management of shared species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please provide brief details, including the names of the agreements, and which other countries are involved:</p> <p>TFCAs, SADC Protocols, Regional elephant management plan, Eastern and Southern African Anti-Money Laundering Group</p>
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C2a (previously 3.3.2a)	How many international projects which integrate CITES issues has your country contributed towards?	Several	
C2b (previously 3.3.2b)	In addition to C2a, how many national level projects has your country implemented which integrate CITES issues?	Several	
	Have there been any efforts at a national scale for your CITES Management or Scientific Authorities to collaborate with:	Yes	No
	Agencies for development?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Agencies for trade?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Provincial, state or territorial authorities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Local authorities or communities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Indigenous or local peoples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Trade or other private sector associations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	NGOs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>
C2d (previously 3.3.2d)	Are CITES requirements integrated into?	Yes	No
	National and local development strategies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	National and local poverty reduction strategies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Planning processes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	National accounting?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ENFORCEMENT

E1 (previously 1.7.1a)	Does your country have, is are your country engaged in, or covered by:	Yes	No	No Information
	– an international enforcement strategy and/or action plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	– formal international cooperation, such as an international enforcement network?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	– a national enforcement strategy and/or action plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	– formal national interagency cooperation, such as a national interagency enforcement committee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If 'Yes' to any of the above, please specify the level of engagement and provide additional details:

Zimbabwe is actively engaged in in formal international cooperation, including international enforcement networks such as Lusaka Agreement Task Force (LATF), SADC Law Enforcement and Anti-Poaching (LEAP) Strategy and INTERPOL. Zimbabwe has a dedicated task force that brings together various government agencies, including the Zimbabwe Parks and Wildlife Management Authority (ZimParks), the Zimbabwe Republic Police (ZRP), the Environmental Management Agency (EMA), and the Zimbabwe Revenue Authority (ZIMRA). This task force coordinates efforts to investigate, prosecute, and prevent wildlife crimes.

E2a (previously 1.7.2a)	Does your country have a process or mechanism for reviewing your enforcement strategy(ies) and the activities taken to implement your strategy(ies)? If 'Yes', what do you do? We have reviews, updates, quarterly meeting, JOC meetings If 'Yes' or 'No, but review is under consideration', which tools do you find of value?	Yes <input checked="" type="checkbox"/> No, but review is under consideration <input type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>
E2b (previously 1.7.2b)	Has your country used the International Consortium on Combating Wildlife Crime (ICWC) Wildlife and Forest Crime Analytic Toolkit, or equivalent tools? If 'Yes', please provide feedback on the parts of the toolkit used and how useful the toolkit or equivalent tools have been. Please specify improvements that could be made: i. the toolkit assisted in following the source of seized exhibits and eventually facilitated successful investigations and prosecutions of the offenders ii. it assisted in following the correct protocol and due processes for the repatriation of live exhibits to source of origin via diplomatic protocols. iii. there is need to improve on issues of mutual legal assistance between range states for speedy resolve of extra territorial investigations. If 'No', please provide feedback on why not or what is needed to make the toolkit or equivalent tools useful to you:	Yes <input checked="" type="checkbox"/> No, but toolkit use is under consideration <input type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>

E3a (previously 1.7.4a)	Does your country use risk assessment to target CITES enforcement effort?	Always <input checked="" type="checkbox"/> Very often <input type="checkbox"/> Sometimes <input type="checkbox"/> Rarely <input type="checkbox"/> Never <input type="checkbox"/> No information <input type="checkbox"/>
E3b (previously 1.7.4b)	Does your country have capacity to analyse information gathered on illegal trade in CITES-listed species?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No information <input type="checkbox"/>

E3c (previously 1.7.4c)	Does your country use criminal intelligence ¹ to inform investigations into illegal trade in CITES-listed species?	Always Very often Sometimes Rarely Never No information	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
E3d (previously 1.7.4d)	Has your country implemented any supply-side activities to address illegal trade in CITES-listed species during the period covered in this report?	Yes No, but activities are under development No No information	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
E3e (previously 1.7.4e)	Has your country implemented any demand-side activities to address illegal trade in CITES-listed species during the period covered in this report?	Yes No, but activities are under development No No information	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

During the period covered in this report:		Yes	No	No Information
E4a (previously 1.7.5a)	Have any administrative measures (e.g. fines, bans, suspensions) been imposed for CITES-related offences? If 'Yes', please indicate how many and for what types of offences. If available, please attach details:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E4b (previously 1.7.5b)	Have there been any criminal prosecutions of CITES-related offences? If 'Yes', how many and for what types of offences? If available, please attach details: 22 Cases of fines	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E4c (previously 1.7.5c)	Have there been any other court actions against CITES-related offences? If 'Yes', what were the offences involved and what were the results? Please attach details: forfeiture of exhibits, and disposal order through destruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E4d (previously 1.7.5d)	How were any confiscated specimens disposed of? – Return to country of export – Public zoos or botanical gardens – Designated rescue centres – Approved private facilities – Euthanasia	Tick all that apply		
				<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

¹ Criminal intelligence is information that is compiled, analyzed and disseminated in an effort to anticipate, prevent and/or monitor criminal activity. Examples include information on potential suspects held in a secure database and inferences about the methods, capabilities and intentions of specific criminal networks or individuals that are used to support effective law enforcement action.

– Other (please specify):

Have you encountered any challenges in disposing of confiscated specimens? No

Do you have good practice that you would like to share with other Parties?

Yes through collaboration and partnerships with NGOs that have MoUs with ZimParks who provide safe quarantine centres for rescue, rehabilitation and release programs.

RESOURCES

R1a (previously 2.2.1a)	<p>Does your country have an approved service standard(s)¹ for your Management Authority(ies)?</p> <p>If 'No', please go to Question R1d.</p> <p>If 'Yes', for which services are there standards, and what are those standards? Client Charter</p> <p>If 'Yes', does your country have performance targets for these standards²?</p> <p>If 'Yes', what are your country's performance targets? Published through annual reports</p> <p>Does your country publish your performance against service standard targets?</p> <p>If possible, please provide your country's performance against service standards during the period covered in this report:</p> <p>If your country did not meet its performance targets then was this shortfall a result of:</p> <ul style="list-style-type: none"> – availability of funding? – number of staff? – a shortage of skills? <p>If 'Yes' to a shortage of skills, which skills does your country need more of?</p>	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/></p> <p>No <input type="checkbox"/></p>
R1b (previously 2.2.1b)	<p>Does your country have an approved service standard(s)⁴⁷ for your Scientific Authority(ies)?</p> <p>If 'No', please go to Question R1d.</p> <p>If 'Yes', for which services are there standards, and what are those standards?</p> <p>We have standard operating procedures covering issues on procedures on permit issuance, ecological assessments, quota setting, and production of NDFs</p> <p>If 'Yes', does your country have performance targets for these standards⁴⁸?</p> <p>If 'Yes', what are your country's performance targets?</p> <p>There are timelines and guidelines in carrying out assessments</p> <p>If possible, please provide your country's performance against service standards during the period covered in this report:</p> <p>No violation of standards during the reporting period</p> <p>If your country did not meet its performance targets then was this shortfall a result of:</p> <ul style="list-style-type: none"> – availability of funding? 	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/></p> <p>No <input type="checkbox"/></p>

¹ For example, a time frame in which you are required to provide a response on a decision to issue or not issue a permit, certificate, or re-export certificate.

² For example, 85% of all decisions will take place within the service standard.

	<ul style="list-style-type: none"> – number of staff? <input type="checkbox"/> <input type="checkbox"/> – a shortage of skills? <input type="checkbox"/> <input type="checkbox"/> <p>If 'Yes' to a shortage of skills, which skills does your country need more of?</p>																		
R1c (previously 2.2.1c)	<p>Does your country have an approved service standard(s)⁴⁷ for your enforcement authority(ies)?</p> <p>If 'No', please go to Question R1d.</p> <p>If 'Yes', for which services are there standards, and what are those standards?</p> <p>We have standard operating procedures covering issues on procedures on permit issuance, law enforcement operations including details on seizures and cooperation amongst enforcement agencies</p> <p>If 'Yes', does your country have performance targets for these standards⁴⁸?</p> <p>If 'Yes', what are your country's performance targets?</p> <p>There are timelines for reporting</p> <p>If possible, please provide your country's performance against service standards during the period covered in this report:</p> <p>If your country did not meet its performance targets then was this shortfall a result of:</p> <ul style="list-style-type: none"> – availability of funding? – number of staff? – a shortage of skills? <p>If 'Yes' to a shortage of skills, which skills does your country need more of?</p>	<p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input checked="" type="checkbox"/></p> <p>No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/></p> <p>No <input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>																
R1d (previously 2.2.1d)	<p>Please only complete this question if you answered 'No' to the first part of question R1a, R1b, or R1c, relating to the existence of approved service standards for your authorities:</p> <p>Does your country have sufficient of the following for your authorities to function effectively?</p> <table border="1"> <thead> <tr> <th></th> <th>Management Authority(ies)</th> <th>Scientific Authority(ies)</th> <th>Enforcement Authority(ies)</th> </tr> </thead> <tbody> <tr> <td>Funding?</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> <tr> <td>Staff?</td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> <tr> <td>Skills?</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> </tbody> </table>				Management Authority(ies)	Scientific Authority(ies)	Enforcement Authority(ies)	Funding?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Staff?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Skills?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Skills?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																

R2a (previously 2.2.2a)	<p>Have any of the following activities been undertaken during the period covered in this report to enhance the effectiveness of CITES implementation at the national level?</p> <p style="text-align: right;">Tick if applicable</p> <p>Hiring of more staff <input checked="" type="checkbox"/></p> <p>Development of implementation tools <input checked="" type="checkbox"/></p> <p>Purchase of technical equipment for implementation, monitoring or enforcement <input checked="" type="checkbox"/></p> <p>Other (please specify):</p>
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R2b (previous ly 2.2.2b)	During the period covered in this report, was the budget for your:		Increased	Stable	Decreased
	Management Authority(ies)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Scientific Authority(ies)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Enforcement authorities		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
R2c (previous ly 2.2.2c)	Has your country been able to use international development funding assistance to increase the level of implementation of your		Yes	No	Not applicable
	Management Authority(ies)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Scientific Authority(ies)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Enforcement authorities?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R2d (previous ly 2.2.2d)	What is the respective level of priority for enhancing the effectiveness of CITES implementation at the national level through the following activities?				
	Activity	High	Medium	Low	Not a Priority
	Hiring of more staff	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Development of implementation tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Purchase of new technical equipment for implementation, monitoring or enforcement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e-permitting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other (please specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R2e (previous ly 2.2.2e)	Does your country have an operational system (e.g. electronic database) for managing		Yes	Under development	No
	Species information		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Trade information		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Non-detriment findings		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

R3a (previous ly 2.2.3a)	Does the Management Authority charge fees for:		Tick all that are applicable	
	– Administrative procedures		<input checked="" type="checkbox"/>	
	– Issuance of CITES documents (e.g. for import, exports, re-export, or introduction from the sea)		<input checked="" type="checkbox"/>	
	– Shipment clearance (e.g. for the import, export, re-export, or introduction from the sea of CITES-listed species)		<input checked="" type="checkbox"/>	
	– Licensing or registration of operations that produce CITES species		<input checked="" type="checkbox"/>	
	– Harvesting of CITES-listed species		<input checked="" type="checkbox"/>	
	– Use of CITES-listed species		<input checked="" type="checkbox"/>	
	– Assignment of quotas for CITES-listed species		<input checked="" type="checkbox"/>	
– Other (please specify):		<input type="checkbox"/>		
R3b (previous ly 2.2.3b)	Is a fee schedule publicly available?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	If 'Yes', please provide an internet link, or a copy of the schedule to the Secretariat: Zimbabwe Parks And Wildlife Management Authority: Home			

R3c (previously 2.2.3c)	Has your country used revenues from fees for the implementation of CITES or wildlife conservation?	Entirely <input checked="" type="checkbox"/>	Partly <input type="checkbox"/>	Not at all <input type="checkbox"/>	Not relevant <input type="checkbox"/>
R3d (previously 2.2.3d)		Yes	No		
	Does your country raise funds for CITES management through charging user fees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Do your country's fees recover the full economic cost of issuing permits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Does your country have case studies on charging or using fees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	If 'Yes' to any of the above, please provide brief details:				
	Does your country use innovative financial mechanisms to raise funds for CITES implementation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	If 'Yes', please provide brief details: Source funding for monitoring CITES species, research permit fees, Auction, monitoring, partnering, PPP, Co-management				

R4a (previously 2.2.4a)	Does your country use incentive measures ¹ such as those described in document CoP14 Doc 14.32 to implement the Convention?	Yes	No		
	Due diligence	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Compensatory mechanisms	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Certification	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Communal property rights	<input type="checkbox"/>	<input type="checkbox"/>		
	Auctioning of quotas	<input type="checkbox"/>	<input type="checkbox"/>		
	Cost recovery or environmental charges	<input type="checkbox"/>	<input type="checkbox"/>		
	Enforcement incentives	<input type="checkbox"/>	<input type="checkbox"/>		
	If 'Yes' to any of the above, or if your country uses other measures, please provide a summary or link to further information:				
R4b (previously 2.2.4b)	Have incentives harmful to biodiversity been eliminated?				
	Not at all	<input type="checkbox"/>			
	Very little	<input type="checkbox"/>			
	Somewhat	<input checked="" type="checkbox"/>			
	Completely	<input type="checkbox"/>			

AWARENESS

A1 (previously 3.2.1a)	Have CITES authorities been involved in any of the following activities to bring about better awareness of the Convention's requirements by the wider public and relevant user groups?	Wider public	Relevant User Groups
	– Press conferences	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	– Press releases	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	– Newspaper articles, brochures, leaflets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	– Television appearances	<input checked="" type="checkbox"/>	<input type="checkbox"/>

¹ Defined as 'Social and economic incentives that promote and regulate sustainable management of and responsible trade in, wild flora and fauna and promote effective enforcement of the Convention'. The intent of such measures is not to promote wildlife trade as such, but rather to ensure that any wildlife trade undertaken is conducted in a sustainable manner.

– Radio appearances	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Presentations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
– Public consultations / meetings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Market surveys	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Displays	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Information at border crossing points	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Telephone hotline	<input checked="" type="checkbox"/>	<input type="checkbox"/>
– Website(s) – if so please provide link(s)	<input type="checkbox"/>	<input type="checkbox"/>
– Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>

Please attach copies of any items or describe examples:
[Zimbabwe Parks And Wildlife Management Authority: Home](#)

A2a (previously 3.2.2a)	How regularly do your country's Authorities consult the CITES website?					
	Please tick boxes to indicate the most frequent usage (decide on an average amongst staff if necessary).					
	Target group	Daily	Weekly	Monthly	Less frequently	Not known
	Staff of Management Authority	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Staff of Scientific Authority	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Staff of enforcement authorities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2b (previously 3.2.2b)	What has been your experience with using the CITES website?				Excellent	<input type="checkbox"/>
					Good	<input checked="" type="checkbox"/>
					Average	<input type="checkbox"/>
					Poor	<input type="checkbox"/>
					Very Poor	<input type="checkbox"/>
					No information	<input type="checkbox"/>
Any further comments on the CITES Website? (e.g. useful aspects, any difficulties encountered, which authorities find which functions/tools most useful, what is missing, etc):						

General feedback

Please provide any additional comments you would like to make, including comments on this format.

Item		
Copy of full text of CITES-relevant legislation if changed	Enclosed	<input type="checkbox"/>
Web link(s)	Not available	<input checked="" type="checkbox"/>
	Previously provided	<input type="checkbox"/>
Please list any materials annexed to the report, e.g. fee schedules, awareness raising materials, etc: yes		
Have any constraints to implementation of the Convention arisen in your country requiring attention or assistance?	Yes	<input checked="" type="checkbox"/>
	No	<input type="checkbox"/>
	No Information	<input type="checkbox"/>
If 'Yes', please describe the constraint and the type of attention or assistance that is required.		
Interpretation of Decisions and Resolutions		
Are there examples of good practice you would like to share with other Parties?	Yes	<input checked="" type="checkbox"/>
	No	<input type="checkbox"/>
	No Information	<input type="checkbox"/>
If 'Yes' please provide details / links: Stock pile management		
How could this report format be improved?		
It should be an online document		

Thank you for completing the report. Please remember to include relevant attachments referred to in the report when it is submitted to the Secretariat.

Republic of Zimbabwe



Enhancement and Non-Detrimental Findings for *Panthera leo* in Zimbabwe



Zimbabwe Parks and Wildlife Management Authority



October 2016

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1 INTRODUCTION

The United States Fish and Wildlife Service (USFWS) made a ruling in terms of its Endangered Species Act of 1973 (ESA) that the status of the southern and eastern African lion subspecies (*Panthera leo melanochaita*) is threatened (see <http://www.regulations.gov>). This ruling, which came into effect on January 22, 2016, now requires that the importation of all trophy lion from Zimbabwe will require an import permit. The decision whether to issue an import permit will in future be based on a Non-Detrimental Finding (NDF) that takes into consideration four main factors outlined under 50 CFR 17.22 and 17.32. These are:

- What direct and indirect impacts would occur on the wild population?
- Would issuing a permit conflict with any known programs intended to conserve the species?
- Would the purposes of the permit reduce the threat of extinction facing the species?
- What are the opinions of experts?

In addition to these factors USFWS will also take into consideration the IUCN Species Survival Commission (SSC) *Guiding Principles on Trophy Hunting as a Tool for Creating Conservation Incentives, Ver. 1.0* (IUCN/SSC 2012). This document identifies five guiding principles of a hunting program that creates “*incentives for the conservation of species and their habitats and for the equitable sharing of the benefits of use of natural resources*” and recognizes that trophy hunting can contribute to biodiversity conservation and the conservation of the hunted species.

These are:

- **Biological sustainability** i.e. the hunting program:
 - Cannot contribute to the long-term decline of the hunted species
 - It should not alter natural selection and ecological function of the hunted species or any other species that share the habitat
 - It should not inadvertently facilitate poaching or illegal trade in wildlife by acting as a cover for such illegal activities
 - It should also not manipulate the ecosystem or its component elements in a way that alters the native biodiversity.
- **Net Conservation Benefit** i.e. the biologically sustainable hunting program should be:
 - Based on laws, regulations, and scientifically based quotas, established with local input, that are transparent and periodically reviewed
 - It should produce income, employment, and other benefits to create incentives for reducing the pressure on the target species
 - It should create benefits for local residents to co-exist with the target species and other species
- **Socio-Economic-Cultural Benefit** i.e. a well-managed hunting program can serve as a conservation tool when:
 - It respects the local cultural values and practices
 - It involves and benefits residents in an equitable manner
 - It adopts business practices that promote long-term economic sustainability
- **Adaptive Management: Planning, Monitoring, and Reporting** i.e. can the hunting programme enhance the species when it is based on appropriate resource assessments and monitoring (e.g., population counts, trend data), upon which specific science-based quotas can be established. Resource assessments should be objective, well documented, and use

the best science available. Adaptive management of quotas, based on the results of resource assessments and monitoring, is essential

- **Accountable and Effective Governance** i.e. a biologically sustainable trophy-hunting program should be subject to a governance structure that clearly allocates management responsibilities. The program should account for revenues in a transparent manner and distribute net revenues to conservation and community beneficiaries, and take steps when needed to eliminate corruption and ensure compliance with national and international requirements and regulations.

To address the points raised above, a systematic review of the status of lion in Zimbabwe has been undertaken with the full cooperation of stakeholders from the Government, Private Hunting Sector, Community NGOs and research organisations to demonstrate that the lion populations in Zimbabwe are being managed sustainably for benefit of both the conservation of the species and that the management programme is also providing economic incentives for local communities to protect and expand lion habitats. In doing so this assessment addresses the following issues:

- That the Zimbabwe hunting industry is based on sound scientific information and identifies mechanisms that would arrest the loss of habitat or increase available habitat (where feasible) and ensuring adequate protection from human encroachment.
- Demonstrate that there are government incentives in place to encourage habitat protection by private landowners and communities and incentives to local communities to reduce human-wildlife conflicts.
- Demonstrate that hunting concessions are managed to ensure the long-term survival of the listed species and its habitat.
- That trophy hunting provides financial assistance to the Zimbabwe Parks and Wildlife Management Authority, including the communal CAMPFIRE programme and private sector, to carry out various wildlife management programmes. It will also highlight how local communities directly and indirectly benefit from the presence of lion in their areas.
- Finally, this document will demonstrate how the participation of U.S. hunters in the Zimbabwe hunting industry contribute to the overall management of lion within the country.

2 STATUS AND DISTRIBUTION OF LION IN ZIMBABWE

Bauer et al (2015) summarise time series data for 47 lion populations across West, Central, East and Southern Africa where regular survey data are available. Using a Bayesian state space model to estimate growth rate- λ for each population, this study concludes that lion populations are declining everywhere across Africa, except in four southern countries (Botswana, Namibia, South Africa, and Zimbabwe). The population models indicate a 67% chance that lions in West and Central Africa will decline by one half, while estimating a 37% chance that lions in East Africa will also decline by one-half over two decades. It is concluded that almost all lion populations that historically exceeded ~500 individuals are declining, *but lion conservation is successful in southern Africa, in part because of the proliferation of reintroduced lions in small, fenced, intensively managed, and funded reserves.* This statement reflects the situation in Zimbabwe where lion populations in the conservancies have flourished under sound management regimes. They have also recovered rapidly in instances where appropriate actions have been taken to arrest unsustainable practices (i.e. Hwange) and where protected areas are receiving adequate funding (i.e. Gonarezhou).

2.1 THE EXTENT OF LION DISTRIBUTION IN ZIMBABWE

The Zimbabwe Parks and Wildlife Management Authority (ZPWMA) is responsible for managing one of the largest estates in the country which constitutes approximately 5 million hectares of land or 13%

of the Zimbabwe's total land area (see Table 1 below). The bulk of Zimbabwe's wildlife occurs within the Parks Estate which includes 11 national parks, 16 safari areas, 16 recreational parks, 6 sanctuaries, 12 botanical reserves and 3 botanical gardens, all spread across the country, among other wildlife tourism related activities (Parks and Wildlife Act 2001 Chapter 20:14).

Wildlife populations also occur on the state Forest Areas, Communal CAMPFIRE areas and private conservancies dedicated to wildlife-based land use (Figure 1). Table 1 below provides a summary of these different categories, and whether they support lion populations (see Annex 1 for the details of each area).

Table 1. Summary of the National Parks Estate, CAMPFIRE, Forestry and Conservancies where lion populations are resident

Land Category		Presence of Lion				Total (ha)	Total (km ²)
		Yes (ha)	%	No (Ha)	Migratory (Ha)		
Parks Estate	National Parks	2,608,710	96	61,850	47,150	2,717,710	27,177
	Safari Area	1,745,300	92	146,600	-	1,891,900	18,919
	Botanical gardens	-	-	2,069	-	2,069	21
	Sanctuary	-	-	18,980	-	18,980	190
	Recreational	-	-	357,161	-	357,161	3,572
Forestry		436,165	47	491,701	-	927,866	9,279
CAMPFIRE		8,953,700	36	5,435,100	10,319,000	24,707,800	247,078
Private Conservancies		758,200	66	243,500	150,897	1,152,597	11,526
Matetsi Farms		-	-	-	155,627	155,627	1,556
Total Ha		14,502,075		6,756,961	10,672,674	31,931,710	319,317
Total km²		145,021		67,570	106,727	319,317	
Percentage		45%		21%	33%		

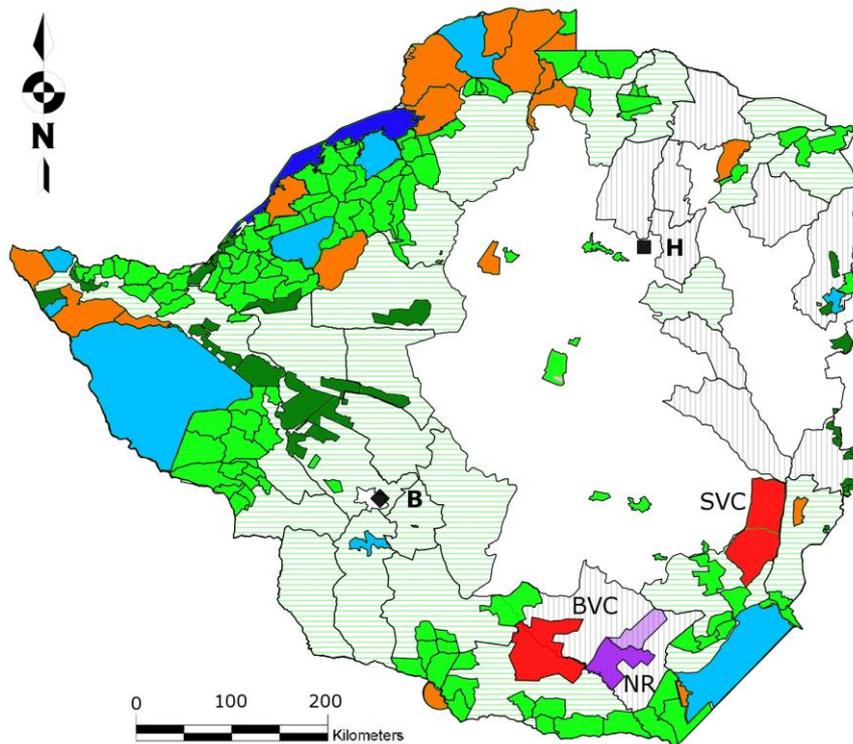


Figure 1: Map of Zimbabwe's main wildlife areas: [i] National Parks are represented in light blue; [ii] Safari areas are represented in orange; [iii] Forestry areas are represented in dark green; [iv] Community and Private wildlife areas are represented in light green; [v] Communal Land (CAMPFIRE Areas) in which sport-hunting may occur is represented by light green horizontal stripes; [vi] Communal Land in which sport-hunting does not occur is represented by grey vertical stripes. [vii] The Bubye Valley [BVC] and Savé Valley [SVC] Conservancies are represented in red. [viii] The Nuanetsi Ranch [NR] on which sport-hunting takes place is represented in dark purple (light purple represents the Nuanetsi Ranch cattle area); [ix] Lake Kariba is represented in dark blue. Harare (the capital city) is represented by a black square and letter 'H'. Bulawayo is represented by a black diamond and letter 'B'. Sport-hunting may occur in areas: ii, iii, iv, v, vii & viii (from du Preez, B. Groom, R., Mufute, O., Mandisodza-Chikerema, R. and Booth, V. (2016).

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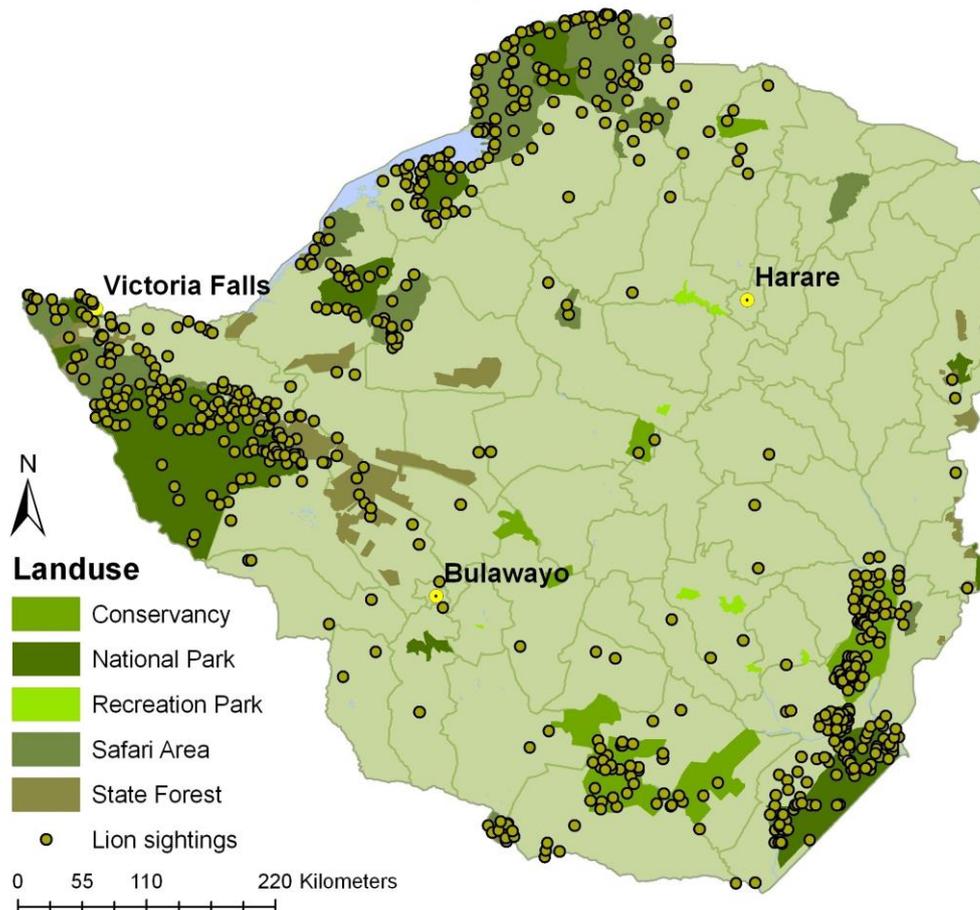


Figure 2: Range of African Lion Distribution in Zimbabwe

There are approximately 319,317 km² of land where some form of wildlife based land use is practiced in Zimbabwe. Lion occur permanently in 45% of this available range (c. 145,00km²), with the majority occurring in State protected national parks (96%) and safari areas (92%). Lion also occur permanently in 47% of the State forest areas and 66% of privately owned Conservancies. The CAMPFIRE areas comprise approximately 247,000km² and lion occur in 36% of these areas. Lion are transient in CAMPFIRE, Conservancy and resettled areas adjacent to the major protected areas, and move across the border into Zambia, Mozambique, South Africa and Botswana (Figure 2).

There are two established Transfrontier Conservation Areas (TFCAs), the Great Limpopo Transfrontier Park (GLTP) which includes Gonarezhou National Park, and the Limpopo/Shashe TFCA. Other TFCAs that are at various stages of development are the Kavango-Zambezi (KAZA), Lower Zambezi-Mana Pools, Zimbabwe-Mozambique-Zambia (ZiMoZa) and Chimanimani.

2.2 MINIMUM POPULATION OF LION IN ZIMBABWE

The minimum number lion that occur in approximately 51,642km² of land where reliable survey data are available is estimated to be c.1,917 (range 1,800 – 2,000) and is summarised in Table 2. The Western sector of the country dominated by Hwange National Park and the surrounding safari areas, forest areas, communal areas and private conservancies supports c.737 lion (or 38% of the overall population). The Southern sector dominated by the two major conservancies (Save and Bubyeye) and

Gonarezhou National Park supports c. 896 lions (48%) while the Central and Northern sectors of the country support c.284 lions (15%).

Table 2: Estimated minimum population of Wild Lion populations in Zimbabwe – September 2016 (Data compiled from a variety of reports)

REGION	AREA	AREA (km ²)	Estimated Number of Lions	Percentage
Western	Hwange NP	14,900	559	38%
	Matetsi Units 1-5	1,934	59	
	Matetsi Units 6-7 and Zambezi NP	1,585	67	
	Kazuma Pan NP	313	20	
	Kazuma Forest	240		
	Panda Masuie Forest	355		
	Matetsi ECA	1,556	15	
	Ngamo and Sikumi Forest	1,386	6	
	Gwaai Conservancy	927	22	
	Hwange Communal Land	392	2	
	Tsholotsho buffer adjacent HNP	1,275	7	
Subtotal		24,863	737	
Central	Chizarira NP	1,948	31	4%
	Chirisa SA	1,713		
	Omay	1,865	10	
	Matusadona NP	1,427	31	
Subtotal		6,953	72	
Northern	Chewore North and South	1,648	45	11%
	Dande	1,155	21	
	Hurungwe (Nyakasanga and Rifa)	1,709	32	
	Charara/Mukuti	1,692	20	
	Mana Pools	1,287	94	
Subtotal		7,491	212	
Southern	Gonarezhou National Park	5,053	125	48%
	Malilangwe	400	37	
	Bubye Valley Conservancy	3,440	450	
	Save	3,442	284	
Subtotal		12,335	896	
Overall Total		51,642	1,917	

2.2.1 Captive Breeding Facilities

Currently there are only two properties registered as captive lion breeders (Lion and Cheetah Park, and Antelope Park) and < 10 non-registered captive lion breeding operations (Table 3). Most of these centres keep lions for non-consumptive tourism and environmental education purposes with only a few keeping lions as pets. Altogether there are 345 lions held in captivity.

Table 3: Record of lions held in captivity – September 2016

Property	TOTAL
Doddieburn	13
Lion & Cheetah Park	40
Sentinel	2
Vhuka	5
Antelope Park	114
Safari Par, Maswi Lodge (Lion Encounter)	4
Mhondoro Game Park	2
Chedgelow Farm	9
Chengeta	5
Turk Mine	6
Bally Vaughan	8
Mwanga Lodge	8
Masvingo	17
Karoi	2
Oscro	10
Simply Wild	19
Sondelani	9
Ruwazi	7
Imire	2
Makado Ranch	2
Chipangali	32
Crocodile Farm, Victoria Falls	1
Kuimba Shiri	2
Pamuzinda	6
Shearwater	10
Inyathi Ecogame Park	10
Total	345

3 CONSERVATION AND MANAGEMENT

3.1 POLICY AND LEGISLATION

The Ministry of Environment, Water and Climate has a comprehensive suite of policies and legislation that provides the Zimbabwe Parks and Wildlife Management Authority (ZPWMA) with a mandate to conserve and protect all fauna and flora in the country.

The legal framework is enshrined in the National Legislation and associated Regulations that are informed by the Wildlife Policy (1992) that seeks to maintain a protected area network for the conservation of the nation's wild resources and biological diversity. Amongst others it seeks to create

economic activity to enhance rural development and encourages the conservation of wild animals and their habitats outside the protected areas.

The ZPWMA is established by the Parks and Wildlife Act of 1996 (Chapter 20:14) as amended by Act Number 19 of 2001 which came into operation on the 1st of June 2002 through a Statutory Instrument 144C of 2002. The Act provides for the:

- Establishment of a Parks and Wildlife Board;
- Confers functions and imposes duties on the Board;
- Establishment of national parks, botanical reserves, botanical gardens, sanctuaries, safari areas and recreational parks;
- The preservation, conservation, propagation or control of wildlife, fish, and plants of Zimbabwe and the protection of her natural landscape and scenery;
- Conferment of privileges on owners and occupiers of alienated land as custodians of wildlife, fish and plants;
- Giving of certain powers to environment committees (formerly intensive conservation area committees); and matters incidental to or connected with the foregoing.

The Act that was originally passed by Parliament in 1975 was unique in that it provided a legal basis for the devolution of Authority to private landowners over all wildlife on their land which resulted in the rapid development of the country's wild life industry. It also paved the way for the partial extension of this principle to the Communal Lands through the Communal Areas Management Programme for Indigenous Resources (CAMPFIRE) in the 1980s that granted Appropriate Authority Status to the communal areas to manage the wildlife resources for their own benefit.

The Act was subsequently revised in 1996 and 2001 with the latest revision paving the way for the establishment of the current Parks and Wild Life Management Authority to replace the former Department of National Parks and Wild Life Management.

The legal and regulation framework applicable to the conservation and protection of lion and all other species includes:

- Parks and Wildlife Act; Chapter 20:14 (1996) as amended in 2001.
- Environmental Management Act; Chapter 20:27.
- Forest Act; Chapter 19:05.
- Statutory Instrument 362 of 1990: Parks and Wildlife (General) Regulations, 1990.
- Statutory Instrument 76 of 1998: Import and Export of Wildlife Products.
- Statutory Instrument 40 of 1994: Parks and Wildlife Act (General) Amendments.
- Statutory Instrument 26 of 1998: Parks & Wildlife Act (General) Amendment.
- Statutory Instrument 92 of 2009: Compensation Values for Wildlife.
- Statutory Instrument 93 of 2009: Compensation Values for Trapping of Animals.
- Trapping of Animals Control Act 20:16.

A summary overview of these instruments is provided in Annex II.

3.2 THE ZIMBABWE PARKS AND WILDLIFE MANAGEMENT AUTHORITY

The Parks and Wildlife Management Authority is mandated by the Parks and Wildlife Act [Chapter 20:14] with the responsibility of conserving Zimbabwe's wildlife heritage through effective, efficient and sustainable protection and utilisation of natural resources for the benefit of present and future generations. The Authority was established to allow it to retain the revenue that it generates for

funding its operations and thereby reducing its dependence on Treasury. This entailed introducing a commercial dispensation and putting in place effective revenue generation and financial management systems.

The ZPWMA has the mandate to manage the entire wildlife population of Zimbabwe, whether on state, private and communal land. Vision, mission and core values of ZPWMA are as follows:

Vision: *To be the world leader in sustainable conservation.*

Mission: *To conserve Zimbabwe's wildlife heritage through effective, efficient and sustainable utilisation of natural resources for the benefit of present and future generations and stakeholders*

Core Values: Teamwork, Commitment, Transparency, Professionalism, Integrity, Accountability, Fairness, in harmony with nature.

While private landowners may utilise the wildlife on their land, they are still accountable to the ZPWMA for the welfare of the wildlife in terms of Statutory Instrument 26 of 1998, which, among other things, states that “*No person shall permit any person who is not ordinarily resident in Zimbabwe to hunt on any land for which he is the appropriate authority any animals other than those entered on the authority to hunt...*”

3.3 CONSERVATION STRATEGY AND ACTION PLAN FOR LION

A *Conservation Strategy and Action Plan for the Lion (Panthera leo) in Zimbabwe* was prepared in 2006 by the ZPWMA, local and international NGOs. This was in response to the proposal submitted by Kenya at the 13th Conference of the Parties to the Convention on International Trade in Endangered Species of Flora and Fauna (CITES) calling for the transfer of the lion population from Appendix II to Appendix I. The Parties recommended a detailed examination of the issues surrounding the conservation of the African lion, through a series of regional workshops.

IUCN responded to this and together with other key stakeholders, organised the first workshop in 2005 which involved the 14 West and Central African lion range states. The second workshop brought together 15 lion range states from Eastern and Southern African in January 2006 (Bauer, Chardonnet and Nowell, 2005). Each workshop included the Directors of Wildlife Conservation Departments and their technical advisors, safari operators, community leaders, non-governmental organisations involved in conservation, as well as researchers on the African lion.

The workshops came up with several recommendations which included:

- The need for African lion range States to follow up the workshops by developing and implementing national lion management plans.
- The need for a Pan African Conservation strategy to form the basis of a region wide collaboration in the conservation of the lion and which would also form the basis for the management of other wildlife species on regional scale.

Responding to the first recommendation, the ZPWMA, together with IUCN, convened a workshop in November 2006 to develop a national lion conservation strategy and action plan for Zimbabwe attended by conservation NGOs, the private sector, and Rural District Councils (RDCs), as well as ZPWMA and IUCN (*Conservation Strategy and Action plan for the Lion (Panthera leo) In Zimbabwe, 2006*).

The deliberations of this workshop identified the following issues related to lion conservation in Zimbabwe:

- Management and research including technical advice, policy formulation and management interventions
- Capacity needs as reflected by adequate human, financial and material resources
- Mitigation of human-wildlife conflict
- Socio-economic costs and benefits of long-term lion conservation
- Communication and information dissemination for key decision makers at different levels
- Framework for captive breeding of lions
- Trade and regulations to ensure non-detriment findings related to trade in all lion related products
- Regional collaboration to strengthen bilateral and regional lion conservation strategies

The analysis of these issues led to the formulation of the conservation strategy whose vision is that *Lions (are) conserved and managed sustainably for their aesthetic, cultural and ecological values, and the socio-economic development of Zimbabwe*. The immediate objective of this strategy is *to secure and where possible, restore as many viable lion populations as possible in Zimbabwe whilst mitigating their negative impacts and enhancing their value for the benefit of people through sustainable use*.

Three broad targets were identified to achieve this objective:

1. Ensure the persistence of key lion populations and other important populations including those of doubtful viability;
2. Human and livestock loss reduced, and
3. Optimize wildlife conservation-related net benefits to local communities

Table 4 summaries the progress with achieving the results identified in the strategy:

Table 4: Summary of implementation progress of the 2006 lion conservation strategy.

Output 1. Lion Management - Lion populations, their habitats and wild prey effectively conserved and managed in collaboration with local stakeholders	
Target 1.1 Establish a baseline survey and monitoring programme for identified lion populations and their range inside and outside the Parks & Wildlife Estate	Baseline surveys have been completed for the Parks Estate using monitoring protocols for key variables (populations, habitats, prey). Selected surveys undertaken of areas outside National Parks in conservancies and some communal land and forest areas.
Target 1.2 Maintain and strengthen capacity for lion conservation, management, monitoring and research within PWMA and amongst other key stakeholders	Carnivore research programmes undertaken by NGOs (Mana, Matusadona, Gonarezhou, Zambezi and Hwange NPs, Matetsi, Chirisa SA) and research institutions (Bubye and Save Conservancies) in various parts of the country. Personnel trained in data collection and capture, management, lion aging and analysis.
Target 1.3 Identify and implement best management standards and practice for all trophy hunted lion populations, ensuring their viability and sustainable, equitable and adaptively managed trophy quotas	Quota setting methodology reviewed and annual quotas and offtakes analysed considering population changes, trophy quality and levels of PAC over time. Trophy hunting database in place and in process of being refined to provide cost-effective system for collation, entry, analysis, reporting and feedback to key stakeholders in the wildlife industry (ZPWMA, RDCs, SOAZ, ZPHGA, conservation NGOs, Researchers etc.). System of fixed and optional quotas reviewed and age-based criteria for male trophy animals in place and functioning.
Target 1.4 Develop and implement a national lion captive breeding management policy	Policy in place (see discussion below).
Target 1.5 Develop and implement co-management frameworks for wildlife management	Collaborative national lion action plans to co-management lion populations in place for NW Matabeleland and SE Lowveld, including three conservancies (Bubye Valley, Save and Malilangwe).
Target 1.6 The geographic distribution range of the lion population expanded	Conservancies and neighbouring communities are working together to maintain existing geographic distribution of lion populations. Zimbabwe proactive in the KAZA and GLTFCA programmes.
Output 2. Lion Research - Information for effective and adaptive lion conservation management generated	
Target 2.1 Initiate targeted research on lion ecology, management and mitigation of conflict	Extensive research programmes focussing on lion ecology and biology undertaken in Hwange, Bubye, Save, Malilangwe, Matusadona, Chizarira and Chirisa. ZPWMA have cooperated with NGOs, such as Panthera, to develop cost-effective age determination methods for lions. Key threats to lion populations, with focus on human-lion conflict, snaring and poisoning, undertaken and continually monitored.
Output 3. Mitigation - Human-lion related conflicts minimized and, where possible, eliminated	

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

Target 3.1 Develop and establish databases on lion/human conflict	Data on Problem Animal Control (PAC) reports on lion related problems collated.
Target 3.2 Identify and implement methods to reduce and mitigate livestock losses and lion attacks on humans	Approaches to mitigate livestock losses and lion attacks on humans being tested and implemented in Hwange. Methods to mitigate lion attacks on livestock being implemented as appropriate at selected sites (e.g. Tsholotsho).
Target 3.3 Trained and properly staffed PAC Units established to conduct rapid response, restrained and precisely targeted problem animal control	PAC Units at ZPWMA field station and/or RDC levels partially established.
Target 3.4 Incidents of human-lion conflict reduced by at least 30% in 5 years while also reducing retaliatory killing	Specific awareness and education package on lion conservation and management developed and implemented in Matusadona, Hwange and Gonarezhou regions.
Output 4. Socio- Economic - The costs and benefits of long-term lion management equitably distributed	
Target 4.1 Complete an inventory of stakeholders directly affected by lion conservation	Stakeholder groups (e.g. local communities, CAMPFIRE RDC representatives, commercial safari hunting operators (SOAZ, ZPHGA), tourism operators (ZATSO) identified. Financial impacts of lion conservation and extent and magnitude of socio-economic impacts on each stakeholder group completed.
Target 4.2 Deliver appropriate training and capacity building to prioritised stakeholders	Representative stakeholder groups in some regions identified (Hwange, Matusadona, Gonarezhou). Limited training undertaken. Implement adaptive programme across four wildlife regions
Target 4.3 Agree and implement collaboratively developed area-specific lion management plans with identified stakeholder groups in each wildlife region within 5 years	In progress. Hwange NP Management Plan approved.
Target 4.4 Implement transparent mechanisms to equitably distribute lion-related/generated income to identified stakeholders (groups and/or communities)	Scale of income generated from lion conservation reviewed and use of funds to encourage protection of lion populations reach local stakeholders undertaken (see CAMPFIRE generated revenues)
Output 5. Regulations - Effective regulation of consumptive lion utilisation ensured	
Target 5.1 Implement approved policy and practice at national and local levels regarding problem animal control (PAC) of lions within 2 years	Current policy and practice regarding problem animal control of lion reviewed, at national and local levels. PAC offtakes reconciled with trophy hunting quota offtake to ensure that the overall offtake (i.e. total quota) is sustainable.
Output 6. Communication, Awareness and Information Dissemination	

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

Target 6.1 To carry out awareness programmes in 50% of the districts in Zimbabwe within the next three 3 years	Awareness programmes initiated at a national level, with professional hunters, communities and NGO community. Awareness campaigns being carried out by the Extension and Interpretation Unit in all the regions.
Target 6.2 Create lion conservation and management information units within one year	Databases established at some key research centres using dedicated external research programmes (e.g. WILDCRU).
Output 7. Regional and Trans-Boundary Collaboration	
Target 7.1 Undertake an inventory of national strategies for lion management	Done.
Target 7.2 Encourage the development of national lion conservation strategies where these are missing &/ or incomplete	National lion conservation strategies discussed at AWCF (meeting held under auspices of KAZA).
Target 7.3 Develop an integrated and harmonised lion management strategy for Transfrontier Conservation Areas (TFCAs)	Lion conservation strategies for SADC discussed at AWCF meeting held under auspices of KAZA.
Target 7.4 Implement lion conservation strategy and management plan	Strategy under review.

3.3.1 National Lion Captive Breeding Policy

A target of the Conservation Strategy and Action Plan for the Lion in Zimbabwe was to develop and implement a National Lion Captive Breeding Management Policy. This was achieved in 2011 when the ZPWMA met with lion breeders, keepers and animal welfare organizations to define the purpose of breeding and keeping lions; identify and discuss issues related to breeding and keeping of lions in captivity and to chart the way forward on the breeding and keeping of lions in captivity.

The objectives of the policy are to provide a national approach and minimum standards to all aspects relating to the management of captive bred lions including the role of captive bred lions upon reaching maturity and regulate the import and export of captive bred lions. The policy also defines the measures to protect the genetic integrity of indigenous lion populations. The use and welfare of captive bred lions is monitored by a captive lion inspection team.

In terms of this policy, lions that are kept in captivity for species conservation and commercial purposes are subject to the following conditions:

1. No permit for the keeping of lions in captivity will be issued before the facility has been inspected and approved by ZPWMA as a Captive Lion Holding Facility.
2. Lions may not be allowed to breed in captivity unless the holding facility is registered as a Captive Lion Breeding Centre. If a breeding permit is not issued, it is the responsibility of the owner to ensure that the animals do not breed. If breeding occurs without a permit the owner will be fined and the animals are subject to confiscation and possible destruction by ZPWMA.
3. Lions may not be captured from the wild population and kept in captivity unless the animal is orphaned or injured and is captured with the purpose of rehabilitating the animal and returning it to the wild within as short a time as possible.
4. Captive bred lions may not be released into the wild or transferred from the facility without prior permission from ZPWMA, and are subject to an approved release plan.

No lion can be transported without the necessary internal and national permits and without being micro-chipped, and all transportation of live animals must comply with CITES Resolution Conf. 10.21(Rev. CoP 14). To safeguard the integrity of the indigenous gene pool, no import permits will be issued for non-indigenous lions. Any lion that are to be transported must be issued a certificate of health by a competent veterinarian confirming that the premises of origin has been free from anthrax, panleukopenia and canine distemper for six months, and that each predator is free from diseases such as FIV, BTB or any other disease which may threaten local populations. The animal should also have been vaccinated for rabies and treated with a broad spectrum de-wormer and acaricide.

It is an offence to export lions from Zimbabwe without a ZPWMA export permit, and all export permit will only be considered if the exporting facility holds a current permit to keep captive lions. Moreover, an export permit will only be issued if the importing facility, in the country of import, conforms to regulations laid out in this policy document.

4 POPULATION TREND DATA FOR KEY LION POPULATIONS IN ZIMBABWE

Zimbabwe has in recent years taken proactive actions to enhance the conservation of lion populations both inside and outside the protected areas. These have included implementing moratoriums on hunting, reducing quotas, implementing an age-based hunting regulation and undertaking independent monitoring programmes conducted by international research institutions. Emerging from this is evidence that by implementing appropriate regulatory, management and monitoring actions, coupled with raising awareness, the lion populations respond rapidly and recover to near

former levels. The section below summarises the data from key range areas both inside and outside the National Parks Estate to substantiate this.

4.1 LION SURVEY TECHNIQUES

The population estimates of lions in Zimbabwe are determined through carnivore spoor surveys, systematic lion collaring and call-up surveys. With the strategy to maintain the wilderness values of most protected areas, there is low road penetration in the parks estates, however all suitable roads are used as transects, and in areas of suitable substrate, spoor surveys have shown to be an effective and efficient means to assess wildlife densities (Stander 1998, Fuston et al. 2001, Davidson and Romanach 2007). Patrol reports, field observations by ZPWMA rangers and other sightings by tour operators and tourists also contribute to the knowledge of the status of lions in Zimbabwe's protected areas. Similarly, the occurrence of lion in Safari Areas is recorded by resident safari operators, including those operating in CAMPFIRE areas.

4.2 RESULTS OF REGIONAL LION SURVEYS

Lion population surveys provide indices of abundance that can be used to determine spatial distribution, as well as temporal trends in population numbers. The results of the different survey methods are used to generate information for setting sustainable lion trophy hunting quotas and for population management.

4.2.1 Gonarezhou National Park

Spoor count surveys of the Gonarezhou National Park have been conducted since 2009 using the same methodology to obtain direct estimates of lion populations to compared actual lion densities with potential density estimates (Groom, 2009, Groom et. al. 2014). Table 5 below illustrates the growth of the lion population in the Park (Groom and Watermeyer, 2015).

Table 5: Population estimates of lion in the whole of Gonarezhou National Park (extrapolated from survey area) from 2009 – 2015 (Groom and Watermeyer, 2015).

2009	2010	2011	2012	2013	2014	2015
31	45	72	64	77	116	125

As with many lion populations anthropogenic factors can be key drivers of lion population dynamics, and in areas with high human impact lion numbers may be significantly lower than those predicted by prey biomass models. This was found to be the case in the Gonarezhou National Park. Groom et. al. (2014) concluded that high hunting quotas either within or around the protected area were the most likely cause of the low lion numbers, with quotas in some areas being as high as seven lions per 1,000km² in some years. Other factors included persecution, poisoning and problem animal control, as well as disease and competition with spotted hyaenas (*Crocuta crocuta*).

Following decisions to halt lion hunting, and reducing human-lion conflict, the lion population responded and steadily increased, reaching a density of 2.5 lions / 100km² in 2014 (as compared with 0.6 / 100km² in 2009). Relative to other populations (average over Kruger NP, Hwange NP, Selous GR and Serengeti NP = 9.6 lions / 100km²) this is still low, suggesting the population could continue to increase further. Groom et. al. (2015) conclude that the lack of artificial water in Gonarezhou means that natural carrying capacity will be lower but based on prey biomass availability predictions of lion carrying capacity could support between 200 and 300 lions (Groom 2010). It is therefore still possible that the lion population in the park could at least double before reaching carrying capacity (especially because prey biomass is now greater than it was in 2010 – see Section 8.5 below).

4.2.2 Save Valley Conservancy

The African Wildlife Conservation Fund carries out an annual large carnivore spoor survey to assess population trends of the carnivores in the Savé Valley Conservancy (SVC) to aid management decisions. A standardised methodology is used to ensure consistency through time and comparability with other studies. Since 2008, the spoor surveys have been done using the same roads and the same observer. The results of these surveys are provided in Table 6 showing that the lion population has increased from 40 in 2005 to 284 in 2015 (Groom and Watermeyer, 2015, du Preez et al, 2016).

Table 6: Population estimates of lion in the whole of Savé Valley Conservancy from 2005 – 2015

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
40	50	52	76	114	143	105	130	115	182	284

The lion population has increased substantially in the last two years, and there are now an estimated 284 lions in the whole of the conservancy. This is a notable increase since the 2013 estimate of 115 lions and 2014 estimate of 182, and is perhaps a latent effect of no hunting for over several years. Of the 149 lion tracks encountered, 28% were big adult males with 53% identified as females/juveniles and 15% as young cubs (3% of tracks were unidentified). The number of lions in SVC equates to a density of 11.7 lions/100km². This is slightly higher than other population estimates of 9.6 lions/100km² (average over Kruger, Hwange, Selous and Serengeti).

4.2.3 Bubiana Valley Conservancy

After originally being eradicated by cattle ranchers in the area, 13 lions were reintroduced to the Buby Valley Conservancy in 1999, and four young males broke into the Conservancy that same year. From the original 17 animals present in 1999, the Buby Valley Conservancy lion population was estimated at approximately 280 individuals in 2009 when robust population surveys were initiated by a team from the University of Oxford Wildlife Conservation Research Unit (WildCRU), and this population has continued to grow. Today it is estimated that there are over 500 lions on the Buby Valley Conservancy (Figure 3, du Preez et. al., 2016).

The exponentially increasing Buby Valley Conservancy lion population currently exists at one of the highest densities in Africa (~0.190 lions/km²: du Preez et al. 2015, du Preez et al. 2016), greater than that of the Serengeti, Tanzania (0.10 lions/km²), Selous, Tanzania (0.080 – 0.130 lions/km²: Creel and Creel 1997), Kruger National Park, South Africa (0.096 – 0.112 lions/km²: Mills et. al. 1995), and Hwange National Park, Zimbabwe (0.027 lions/km²: Loveridge et. al. 2007). This equates to the largest contiguous lion population in Zimbabwe.

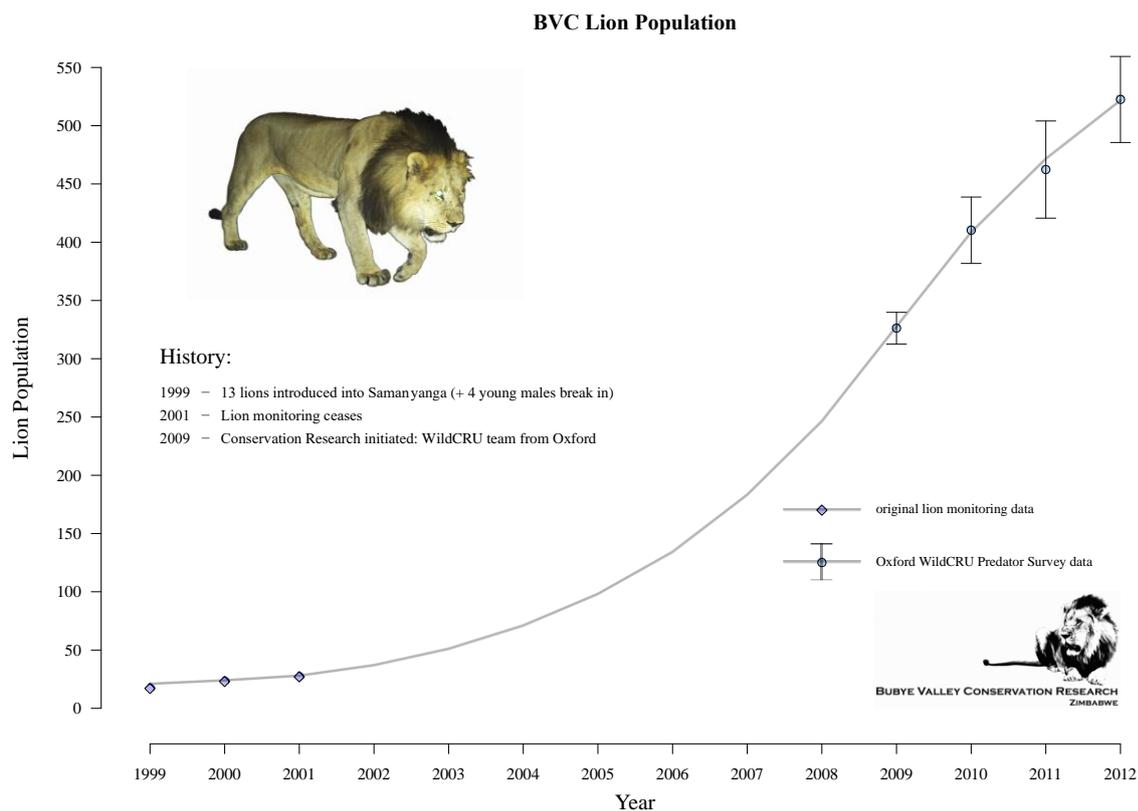


Figure 3: The Buby Valley Conservancy lion population has increased exponentially since the original reintroduction of the species to the conservancy in 1999.

4.2.4 Mana Pools National Park

In conjunction with ZPWMA, Zambezi Society and the Cheetah Conservation Project, the Wildlife Conservation Research Unit (WILDCRU) based in Oxford (U.K.) conducted a camera trap and spoor count survey of Mana Pools National Park with the objective of:

- To undertake park wide surveys to estimate population density, distribution and habitat occupancy of common predator species in Mana Pools National Park.
- To contribute to Cheetah Conservation Project Zimbabwe’s (CCPZ) cheetah monitoring protocol.
- To provide presence/absence data on all the larger mammal species.

A Facebook page was also created for the survey that was regularly updated on the progress of the survey ([Facebook.com/Mana Pools Survey 2015](https://www.facebook.com/ManaPoolsSurvey2015)).

The preliminary results of this survey identified 67 individual lions from the 267 images captured. When combined with the spoor count surveys, the population was estimated at 94 lions at a density of 4.5 lion/km² (Seymour-Smith and Loveridge, 2015),

4.2.5 Hwange National Park

The Hwange Lion Research Project undertaken by the Wildlife Conservation Research Unit (WILDCRU, Oxford University) works in association with the Zimbabwe Parks and Wildlife Management Authority. Since 1999 this project has identified over 600 lions and currently monitors approximately 15 prides and 12 male coalitions in a 5,000km² study area. This is one of the most intensive and long-term lion

projects in Africa. A key finding of this research programme has been to demonstrate that the way lion trophy hunting is managed can rapidly improve the status of lion populations by implementing a biologically sustainable system of allocating quotas. This project has also increase the understanding of human related impacts on lion populations (and vice-versa) along the park boundary. More recent research is focussed on understanding connectivity between Hwange NP and other areas such as parks in Botswana and in Zimbabwe.

This project was initiated because there was a perception that levels of sport hunting of male lions' in the hunting concessions surrounding the Hwange National Park were having a negative impact on the conservation of the population (Loveridge, et. al. 2007). Data collected between 1999 and 2004 suggest that this was indeed the case and this contributed to a suspension of sport hunting of lions in the area surrounding the Park between 2005 and 2009. This was a crucial shift in management policy for this species and an important step towards sustainable management and conservation of lions. Following the imposition of the hunting moratorium, lion densities increased (Figure 4).

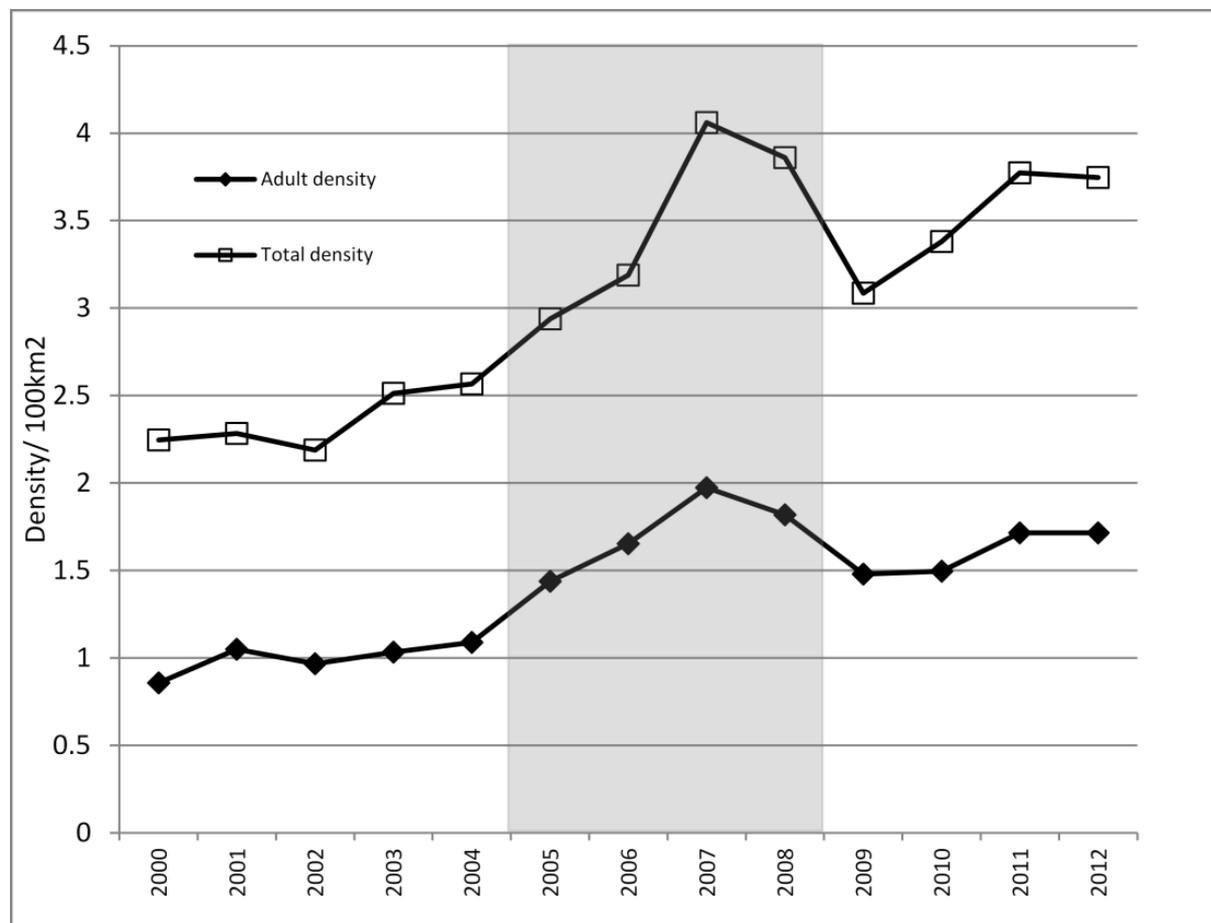


Figure 4: Lion densities in the Hwange area between 2000 and 2012

Following the lifting of the moratorium, and by implementing strict monitoring and hunting guidelines, the overall Hwange lion population has continued to show a positive trend, and is now estimated at over 550 animals.

4.2.6 Zambezi National Park and Units 6 and 7

Victoria Falls Wildlife Trust (VFWT) in collaboration with ZPWMA and the Hwange Lion Research Project has recently completed both spoor count transects and a camera trap surveys in Zambezi National Park, and Units 6 and 7 of the Matetsi Safari Area. The preliminary results of these surveys show that the lion population has increased since 2013 to approximately 67 (Rodger Parry, pers comm.).



Coalition males, Zambezi National Park, June 2016 (Photo credit: Jessica Dawson, Victoria Falls Wildlife Trust)

4.2.7 Chizarira National Park and Chirisa/Sengwa Safari Area

A survey was undertaken jointly by the Zimbabwe Parks and Wildlife Management Authority and the African Lion and Environmental Research Trust in September 2015 (Dr Norman Monks pers comm.). The survey area consisted of the 1,910 km² Chizarira National Park (a non-hunting area) and the adjoining 1,713 km² Chirisa/Sengwa Safari Area (a hunting area). No large carnivore counts using the call-up method had previously been conducted in these contiguous protected areas.

The survey method used the standardized protocol of audio broadcasts of a buffalo calf in distress. Spoor counts were not used for these surveys since previous research had shown that the call-up method was more precise, took less time, and was less costly to complete to achieve accurate results. Up to three stations were sampled nightly commencing just after sunset.

Twelve call-up sites were sampled. Response to the call-up stations by lions was low with only 2 of the 12 stations visited. The population abundance was estimated to be 31.6 (0.872 lion 100/km²), suggesting a decline of 68.4% since 2004 when estimates of lion numbers were provided to Bauer and van der Merwe, (2004).

5 CONSERVATION IN ZIMBABWE

Zimbabwe Parks and Wildlife Management Authority (ZPWMA) falls under the Ministry of Environment, Water and Climate and it was established under the Parks and Wildlife Act of 1996 (Chapter 20:14) as amended by Act Number 19 of 2001. The rationale behind the establishment of the Authority was to allow it to retain all the revenue it generates to be ploughed back into conservation. The functions of the Authority are provided for in detail in section 4 of the Parks and Wildlife Amendment Act Number 19 of 2001. The Act gives the Authority power to control, manage and maintain Zimbabwe's wildlife resources.

Its **vision** is “To be a World Leader in sustainable conservation” and its **mission** is “To conserve Zimbabwe’s wildlife heritage through protection and sustainable utilisation of natural resources for the benefit of present and future generations.”

5.1 STAFF ESTABLISHMENT

The staff strength at the beginning of January 2015 was 2,043 and ended at 2,044 on 31, December 2015 (2015 Annual Report (unpublished)). Fifty (50) rangers were recruited in 2015. The following is the staff status report as at 31st December, 2015 (Table 7).

Table 7: Summary Staff Establishment by Region

Position	Grade	HQ	VMU	Northern	Western	Southern	Central	Total
Executive	F & E	3	0	0	0	0	0	3
Department Managers/Sectional Heads	D3-D5	19	0	3	4	3	3	32
Ecologists/ Area Managers/Officers	D1-D2	11	1	19	19	13	4	67
Snr Rangers /Officers	C1-C5	29	6	64	89	49	34	271
Rangers/Clerical	B2-B5	33	12	507	461	310	197	1,520
Gen. Hands / Lodge Attendants	B1	2	2	30	66	33	17	150
TOTAL		97	21	623	639	408	255	2,043

The current remuneration levels have remained low with the lowest paid worker receiving a gross salary of \$375 per month. The last salary increase of 23% was in January, 2014. A comparison with other Parastatals within the same parent ministry, shows that the Authority has the lowest salary scales.

5.2 TRANSPORT OPERATIONS

As indicated in Table 8, the total cost of operating the Parks transport fleet was is \$1,547,172.82 (excluding insurance and licensing) in 2015. The existence of old and obsolete vehicles in the fleet increases costs as most of them require major component replacements thereby increasing vehicle downtime.

Table 8: Overall travel and fuel consumed by Region

Station	Km travelled	Fuel Consumed		Repairs & Maintenance Cost (\$)	Total Cost (\$)
		Litres	Cost (\$)		
Head Office	1,489,294	190,644	272,620	136,419	409,039
Northern	1,429,260	149,577	213,895	147,113	361,007
Southern	1,075,077	110,111	157,458	59,548	217,006
Western	1,313,263	142,012	203,077	161,120	364,196
Central	392,885	47,995	68,632	127,288	195,920
TOTAL	5,699,779	640,339	\$915,684	\$631,486	\$1,547,172.

Table 9 below summarises the status of the Authority’s vehicle fleet as of 2015. Out of the fleet complement of 316 (including tractors and motor cycles), only 70% are in sound condition.

Table 9: Number of vehicles per region

Region	Runners	Non-Runner	Total	% of Non-Runner
Head Office	41	6	47	13
Northern	53	19	72	26
Southern	30	21	51	41
Western	80	39	119	33
Central	17	10	27	37
Total	221	95	316	30

The Authority also owns three aircraft: Bell Jet Ranger and Robinson R22 Beta 11 helicopters, and a Cessna 185. The Jet Ranger is based at Hwange National Park and is used for game capture and law enforcement. The remaining aircrafts are non-operational.

5.3 LAW ENFORCEMENT

A major component of the Authority’s mandate is law enforcement. This has become increasingly more important with the escalation in illegal wildlife trade, particularly involving elephant and rhino. The Authority has an establishment of 2,146 rangers however by the end 2015, there were 1,448 rangers in post (67%). Of the 1,448 rangers in post, 1,004 are deployable for anti-poaching operations.

The level of effort of law enforcement over the last 3 year is summarised in Table 10. In 2015 there were 2,139 incursions detected, and arrest of 1,354 local and 129 foreign poachers. The number of armed contacts declined from 26 in 2014 to 23 in 2015, and number of poachers killed declined from 13 in 2014 to 11 in 2015. Recoveries made in the field included 25 rifles, 276 rounds of ammunition, 496 pieces of elephant ivory, 4 rhino horns and 5,133 wire snares.

Table 10: Detections, Arrests and Recoveries for 2013, 2014 and 2015

Year	No of Incursions	No of contacts		Number of poachers				Recoveries					Other recoveries and arrests		
				Killed		Arrested		Rifles	Ammunition	Ivory	Rhino horn	Snares	Gold	Poachers Camp	Dogs
		Armed	Visual	Local	Foreign	Local	Foreign								
2013	1842	27	344	9	0	1421	131	20	945	436	5	4415	93	264	180
2014	1571	26	362	10	3	4161	94	20	163	202	19	4864	221	186	272
2015	2139	23	356	6	5	1354	129	25	276	496	4	5133	134	339	167

5.3.1 Illegal Harvesting of Wildlife

Commercial wildlife poaching involving both local and foreign nationals continues to plague Zimbabwe, especially with respect to elephant and rhino located in the Zambezi Valley, Sebungwe, North-West Matabeleland, South-East Lowveld. The species targeted are shown in Table 11 and 12. Note that 21 lions were killed illegal between 2013 – 2015, with 6 animals killed through snaring in the area adjacent to Hwange National Park in 2015.

Table 11: Trends in wildlife poaching in the parks estate

Year	Illegally killed wildlife										
	Elephant	Buffalo	Lion	Kudu	Zebra	Impala	Warthog	Nyala	Eland	Crocodile	Waterbuc
2013	293	65	12	65	21	67	22	5	6	2	15
2014	176	44	2	34	8	65	26	2	5	3	15
2015	317	78	7	76	21	92	46		9	17	6
2016*	101	23	0	23	22	54	12	1	4	1	5
Total	807	210	21	200	72	278	106	8	24	23	41

*To September 2016

Table 12: Illegally killed wildlife 2015 in the four regions

Region	Elephant	Buffalo	Lion	Kudu	Sable	Zebra	Croc	Impala	Eland	Warthog	B/Buck	waterbuck
Central	46	30	0	16	0	6	1	28	0	17	7	
Northern	75	6	0	6	0	0	0	0	0	0	0	0
Southern	65	38	1	42	0	9	4	31	4	25	1	6
Western	131	4	6	12	1	6	12	33	5	4	1	0
Total	317	78	7	76	1	21	17	92	9	46	9	6

5.3.2 Illegal trophy hunting – the “Cecil” effect

Professional hunter Theodor Bronkhorst was arrested for allegedly illegally hunting of a lion popularly known as ‘Cecil’ with a foreign client on Antoinette and Antoinette farm in Gwayi River Conservancy (which is adjacent to Hwange National Park). The same case involved Umguza Rural District Council in alleged illegal quota transfer¹. At the time of writing, this case has not been brought before the court, and is still under judicial review².

The Authority immediately implemented the following measures in response to this incident:

- Hunting of lions, leopards and elephant in areas outside of Hwange National Parks required confirmation and authorization in writing by the Director-General of the Zimbabwe Parks and Wildlife Management Authority, and all hunts are to be accompanied by the Authority’s staff whose costs will be met by the landowner.
- Bow hunting was suspended except with confirmation and authorization in writing by the Director-General of the Zimbabwe Parks and Wildlife Management Authority.
- Members of the hunting fraternity were reminded that it was illegal for quotas to be transferred from one hunting area to another. Any case of quota transfer would be regarded as poaching, and the Authority will not hesitate to arrest, prosecute, and ban for life any persons including professional hunters, clients and land owners who were caught on the wrong side of the law.

¹ This system facilitated the transfer of a quota from one property to another has since been suspended by the Authority.

² Note: This case has been dismissed by the court on 12th November 2016.

- 2015 hunting quotas and permits for Antoinette and Antoinette farm, Railway farm 33, Umguza Rural District Council and Kusile Rural District Council were suspended.
- Professional hunters' license for Theodor Bronkhorst was suspended.

5.4 HUMAN WILDLIFE CONFLICT

The Authority is called upon to deal with human-wildlife conflict (HWC) issues across the country, and this continues to be a challenge. A total of 863 reports of problem wild animals causing threat to human life and property were received in 2015 compared to 1,637 reports in 2014 (Table 13). From these incidents, a total of 39 human fatalities by crocodiles, elephants, lions and buffaloes were recorded in 2015 compared to the 27 fatalities in 2014.

Table 13: Trends of Human and Wildlife Conflict Incidents

Year	Total Reports Received	People killed	People Injured	Cattle killed	Goats killed
2013	1 088	21	16	67	65
2014	1 637	27	24	217	129
2015	863	39	23	232	213
Total	3 588	87	63	516	407

The scale and species involved in HWC is summarised in Table 14. The authority received 200 problem lion reports and responded to 177. One person was killed by lion, and 206 livestock. The Authority elected to capture problem lion (6) rather than destroy the animals.

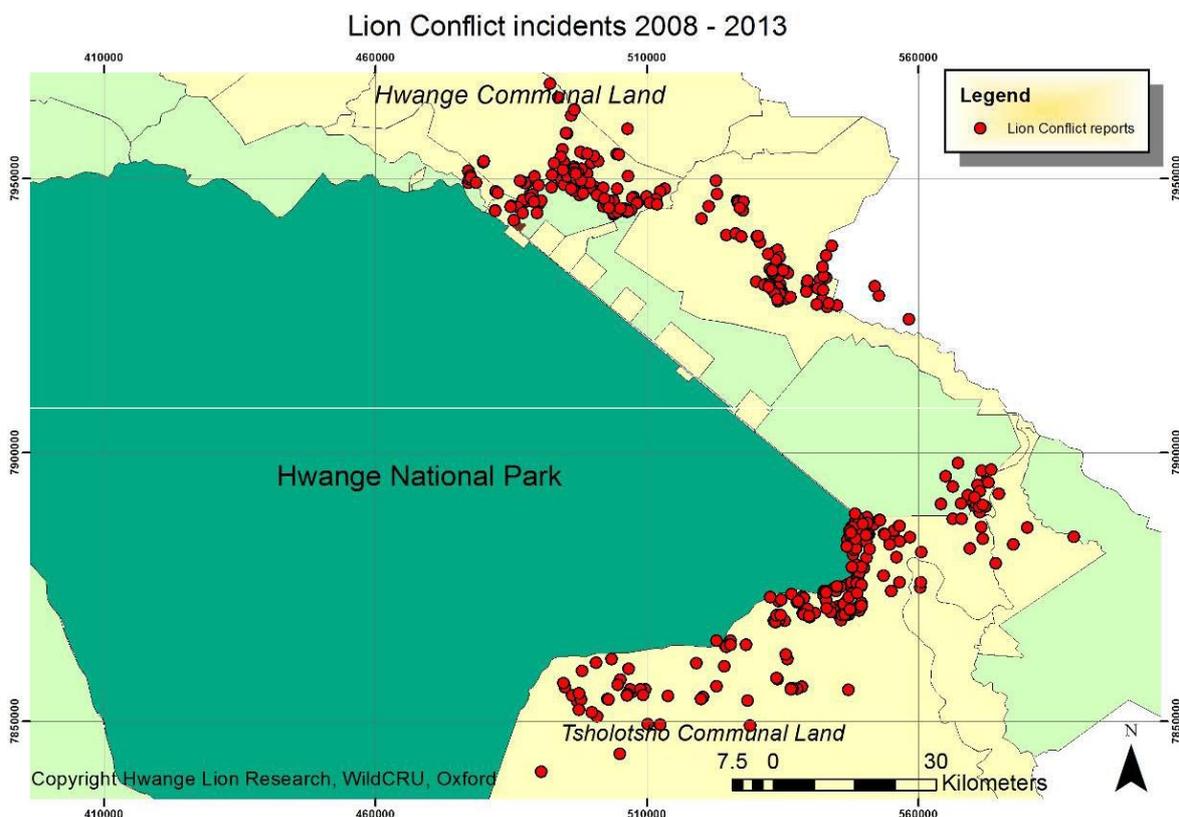
Table 14: Scale of countrywide human wildlife conflict in 2015.

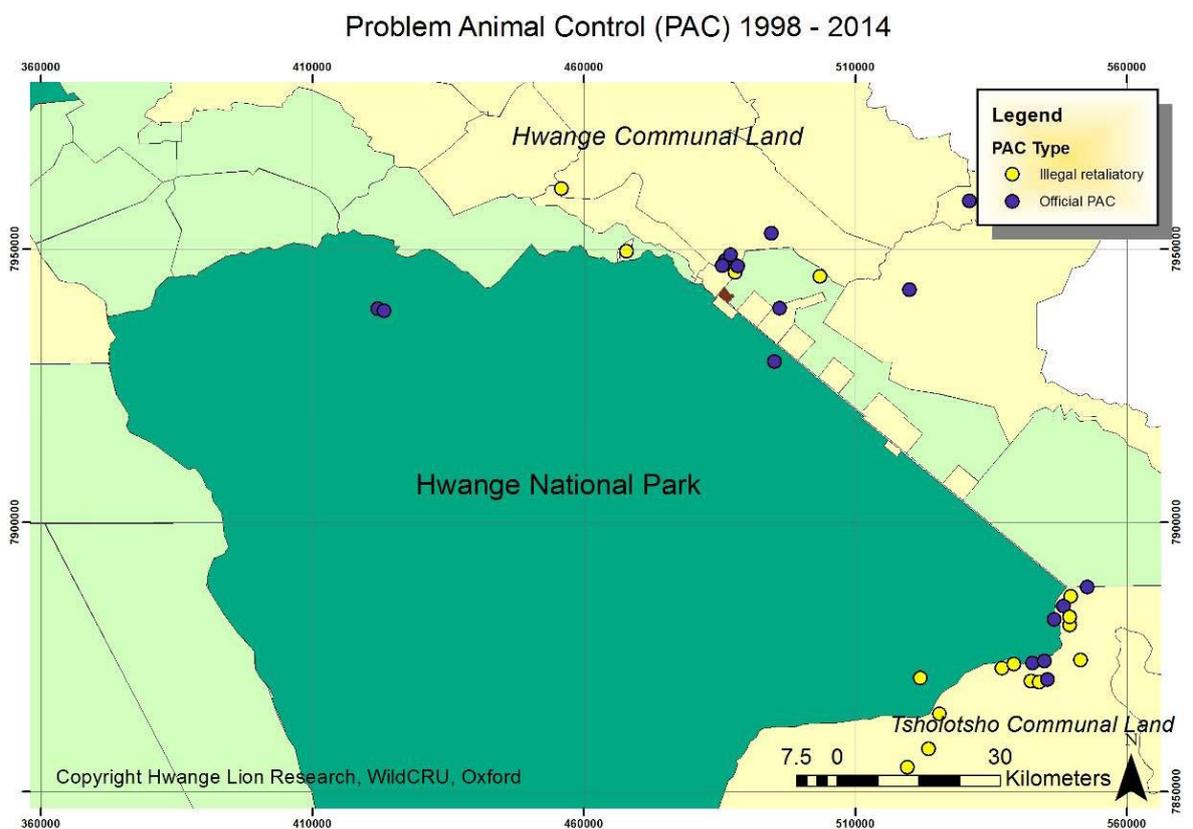
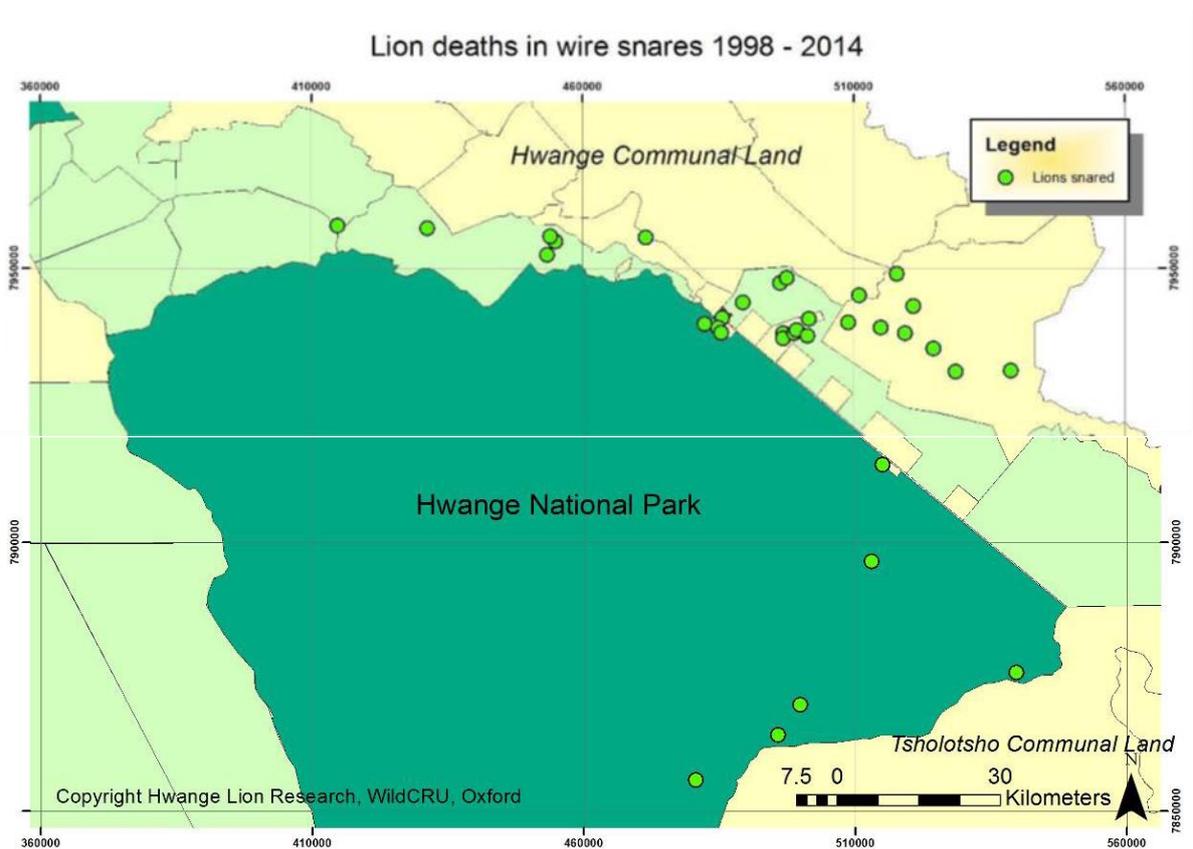
Species	Nature of problem	No of reports received	Reports attended	Number of animals eliminated		People		Livestock killed		
				Killed	Captured	Killed	injured	Cattle	Donkeys	Goats
Baboons	Damage to infrastructure, crop raiding, threat to humans	109	105	51	48	0	0		0	0
Buffalo	Threat to human life and crop raiding	46	40	0	15	2	1		0	0
Elephant	Threat to human life, crop raising, destroying property	216	177	0	38	4	5	0	0	0
Hippo	Threat to human life and crop raiding	131	87	0	34	0	0	0	0	0
Crocodile	Threat to human life and killing livestock	106	85	39	9	27	14	16	1	47
Hyenas	Killing livestock	36	18	0	7	0	0	68	2	54
Leopard	Killing livestock	19	11	0	1	0	0	32	0	33
Lion	Threat to human life and livestock killing	200	177	0	6	1	0	115	12	79
Total		863	700	90	158	34	20	231	15	213

5.4.1 Case Study of Human- Lion Conflict from Hwange National Park

The following information has been extracted from the Hwange National Park Management Plan (ZPWMA, 2016) and is provided here to illustrate the challenges facing the management of lion populations residing adjacent to communal and commercial properties. Variations of the scenario described here apply to other areas of the country where hyaenas and lions are the most problematic carnivores in the communal areas adjacent to protected areas. Hyaenas are perceived to be more of a problem than lions as they account for large numbers of livestock (cattle, goats and sheep). The data presented here has been extracted from the WildCru Lion Research project in Hwange and considers only lions.

Since its inception in 2007 a significant component of the WildCru Lion Research project has focused on understanding the ecological and human socio-economic factors of conflict between the local agropastoralist people residing in Tsholotsho and Hwange Communal Land and lions. The project developed an intensive reporting system to record conflicts and has undertaken a detailed survey to record the baseline data on human wildlife conflict at the household level. Between 2007 and 2013 a total of 1,113 conflict incidents were recorded in the Hwange area in which 915 head of stock was lost to lions.





To mitigate this conflict, the project has initiated the “Long Shields Guardian Programme” whereby communities are notified of movements of collared into their areas via cell phone who then motivate the community to take appropriate action (i.e. moving the cattle, chase the lions etc.). In 2013 alone,

1,850 warnings were passed to the “Long Shields”. In addition, the project is working on improving bomas and husbandry techniques as another way to lessen the conflict between lions and people, and although these actions may reduce the incidents of livestock marauding lions, cattle deaths still occur resulting in retaliatory killings or action on the part of National Parks to destroy the animals.

5.5 TREND IN FINANCIAL PERFORMANCE OF THE AUTHORITY

The average Income and Expenditure for the period 2010 – 2015 is shown in Table 15 that highlights the inability of the Authority to generate adequate revenue to cover both the capital and operating requirements. The average total income over this period is US\$22.4 million (range US\$16.5 – US\$29.3 million). For the period ending December 2015, the Authority generated total revenue of \$24,1million, which is 32% below the anticipated budget of \$35.5 million. This includes a government grant of \$716 000 and a donation of vehicles and equipment worth \$2,1 million from the Government of China.

The average total expenditure for the period 2010 – 2015 is US\$25.3 million (range US\$18.1 – US\$30.7 million). The Authority has thus incurred a loss of approximately US\$2.8million/year. For the year ended December 2015, the Authority incurred a loss of US\$5,4 million including depreciation.

The Authority is dependent on income from Conservation Fees (i.e. entry fees to Parks etc.) that accounted for 39% in 2015 (average 34%/year), hunting (13% in 2015) and leases (10% in 2015, Table 15).

Although individual salaries remained low, staff costs in 2015 were \$20,7 million which is 71% of total revenue raised (average 64%). This is unsustainably high and leaves very limited resources for operation (16%), marketing (1%) and administrative expenses (7%, Table 15).

The major reasons for the budget deficits in the past six years can be attributed to:

- Declining income from hunting – this has been exacerbated by the recent bans imposed on elephant trophy imports into the United States by US Fish Wildlife Service (USFWS) and the much-publicised death of *Cecil the lion* that had a negative effect on revenue generated from hunting.
- Government Grant – The Authority has not received meaningful funding from the fiscus despite requests made by management that non-revenue generating activities which are of national nature be funded by Government.
- The Authority failed to dispose of its ivory stock pile due to the continued ban on ivory trade by CITES. The ivory stock which the Authority is currently holding exceeds 80 tons.

Table 15: Statement of Comprehensive Income for period 2010 – 2015 and the year ended 31 December 2015 (extracted from 2015 ZPWMA Annual Report).

Revenue	US\$ 2015	%	Average 2010 - 2015	%
Conservation Fees Land	\$7,879,987	33%	\$6,506,508	29%
Conservation Fees River	\$1,409,160	6%	\$1,136,041	5%
Accommodation	\$1,720,640	7%	\$1,904,477	8%
Annual registration	\$507,211	2%	\$722,847	3%
Permits	\$1,476,176	6%	\$849,916	4%
Service and Facilities	\$307,692	1%	\$152,616	1%
Law enforcement (fines etc.)	\$224,657	1%	\$215,591	1%

Revenue	US\$ 2015	%	Average 2010 - 2015	%
Hunting income	\$3,256,698	13%	\$5,049,089	22%
Fishing permits	\$561,797	2%	\$941,833	4%
Leases and rentals	\$2,434,676	10%	\$1,880,258	8%
Parks product sales	\$623,084	3%	\$767,347	3%
Examinations	\$116,000	0%	\$70,873	0%
Projects	\$349,864	1%	\$248,614	1%
Other income/donations	\$2,555,729	11%	\$907,169	4%
Government grant	\$716,000	3%	\$1,141,119	5%
Total	\$24,139,371			
Expenditure				
Operational costs	\$4,801,815	16%	\$5,146,091	20%
Staff costs	\$20,766,023	71%	\$16,311,677	64%
Marketing and promotions	\$212,406	1%	\$147,334	1%
Administration costs	\$2,056,681	7%	\$2,631,019	10%
Depreciation	\$1,531,000	5%	\$1,069,138	4%
Total expenditure	\$29,367,925		\$25,305,258	
Operating surplus/deficit	-\$5,365,082		-\$2,810,962	

The Authority receives considerable support from many local and international NGOs who undertake a variety of routine management activities e.g. supply and maintain artificial game water supplies, provide logistic support to law enforcement operations. This is in addition to the support provided by hunting operators that hold concessions in the Safari Areas.

6 STAKEHOLDER INVOLVEMENT IN LION MANAGEMENT AND CONSERVATION

There are several private sector initiatives that are directly or indirectly involved with lion management and conservation both inside and outside the Parks estate. These stakeholders are represented by companies from the consumptive and non-consumptive sectors of the industry.

6.1 BENEFICIARIES OF WILDLIFE BASED LAND USE

Various forms of wildlife based land use occur in Zimbabwe that benefit different segments of the community depending on the authority for the land. Table 16 summarises these broad categories. The Authority is the direct beneficiary from the use of wildlife in National Parks and Safari Areas while the Forestry Commission is the beneficiary in Forestry Areas. In terms of the Act, Communal CAMPFIRE areas are the primary beneficiaries where the income generated from hunting is shared between the Rural District Council and Community Wards (see below). Similarly, private conservancies and land owners are the primary beneficiaries.

Collectively, these different management regimes contribute to the overall conservation of the wildlife both inside and outside the Parks Estate, and is supported through the existing policy and legal framework that facilitates incentives to promote wildlife based land use.

Table 16: Direct beneficiaries from Wildlife Based Land Use

Land category	Direct Beneficiary
National Parks and Safari Areas	Zimbabwe National Parks and Wildlife Management Authority
Forestry Areas	Forestry Commission
Communal Campfire Areas	Rural District Council and Wards
Private Conservancies	Private Landowners

6.2 CONTRIBUTION OF THE PRIVATE SECTOR

A questionnaire was circulated to all safari hunting operations to gather data on:

- Area and land category where hunting takes place
- Payments in terms of concession fees
- Number of people employed
- Approximate value of investment in assets
- Approximate costs of the hunting operations
- Hunter days generated through various packages
- Indication of the prey base

Data from 18 companies that have been allocated lion on quota and offer these trophies as part of their hunting packages is summarised below (Table 17). These data indicate that

- The average hunting concession covers 1,590km² and generates \$178,488 in concession fees annually.
- Each company on average employs 109 people of which 24 are seasonal staff (22%). Law enforcement staff make up 26% of the staff complement.
- On average, each company has invested approximately \$1.3 million in fixed and moveable assets (buildings, tents, vehicles, equipment etc.).
- On average, each company incurs approximately \$1 million in expenses annually, with staff wages (24%) and operating expenses (27%) forming the bulk of these costs.
- Lion safaris contribute approximately 9% (126 hunter days) to the 3-year average number of hunter days generated (1,405) with the bulk of hunter days generated from buffalo safaris (see below for more details on the financial significance of this contribution).
- On average, each hunting area supports 2,000 large mammals, 3,000 medium sized mammals and 6,000 small sized mammals. However, there are large differences between state, forestry, CAMPFIRE and conservancies areas. State areas tend to support more large animals (buffalo, giraffe) while conservancies support greater numbers of medium and small animals.
- Observations on the status of lion populations indicates that each area supports on average 5 prides of 7 animals (i.e. 35 lions) although there is a wide variation in these numbers with more prides occurring in the conservancies than on Forest and CAMPFIRE areas. In these areas, the operators report that lion are transient/migratory rather than permanent.
- All areas report incidents of human-lion conflict, including incidents of snared animals.

Table 17: Summary of 18 hunting company statistics where lion hunting occurs

Companies (N=18)	Total	Average	
Total Hunting Area (ha)	2,872,932	159,607	
Concession fee	\$2,141,860	\$178,488	
Number people employed			
Owner/Manager	65	4	3%
Administration	59	3	3%
Camp Maintenance	308	17	16%
Safari operations	295	17	16%
Professional Hunters	82	5	4%
Skinners	59	3	3%
Trackers	138	8	7%
Law enforcement	449	28	26%
Seasonal/Casual staff	379	24	22%
Average Staff employed/company		109	
Approximate Asset Value (US\$)	\$21,557,610	\$1,347,351	
Major Expense Items			
Central Government Licenses:	\$415,700	\$25,981	3%
ZNWMA Fees:	\$1,932,472	\$128,831	13%
Community Development:	\$525,378	\$35,025	4%
Law Enforcement:	\$1,319,562	\$87,971	9%
Staff wages & Welfare:	\$3,601,439	\$211,849	24%
Administrative costs:	\$1,870,267	\$116,892	13%
Operating expenses:	\$3,986,619	\$249,164	27%
Management and Marketing costs	\$661,974	\$41,373	4%
Any other costs	\$411,693	\$25,731	3%
Overall costs	\$14,725,104	\$922,818	
Hunter days generated over 3 years			
Lion	2,137	126	9%
Leopard	4,565	269	19%
Buffalo	10,344	608	43%
Elephant	3,131	184	13%
Plains game	999	59	4%
Total Hunter days	25,294	1,405	
Prey base status			
Large mammals (Buffalo, Giraffe)	28,190	2,014	
Medium mammals (Eland, zebra, kudu, waterbuck etc.)	53,273	3,552	
Small mammals (Bushbuck, warthog, impala)	82,297	5,878	
Status of lion population			
Number of prides	71	5	
Average pride size	80	7	

Companies (N=18)	Total	Average	
Number of cubs	243	19	
Number Coalition males	89	7	
Monitoring of lion population			
Natural deaths	4	1	
Reports of Human-Lion Conflict	33	5	
Incidents of infanticide recorded	6	2	

6.3 CAMPFIRE COMMUNITY PROGRAMMES

The right to exploit and benefit from wildlife was extended to communal areas through granting of Appropriate Authority Status over their wildlife resources to Rural District Councils in 1982. The intention was to return rights of access to natural resources through legislative change, devolve responsibility and economic empowerment. The CAMPFIRE model focuses on three main criteria:

- Voluntary interest in participation by communities and their Rural District Councils (RDCs),
- Presence of wildlife populations capable of producing sustainable and economically significant revenues.
- Benefit sharing for local communities based on:
 - The number of animals harvested within a local community’s area each hunting season.
 - The extent of wildlife habitat present within a local community’s area annually.

Currently 58 Rural Districts have been granted the Appropriate Authority status to manage wildlife resources in their areas, however only 16 are actively engaged in some form of wildlife based land use (see Figure 5).

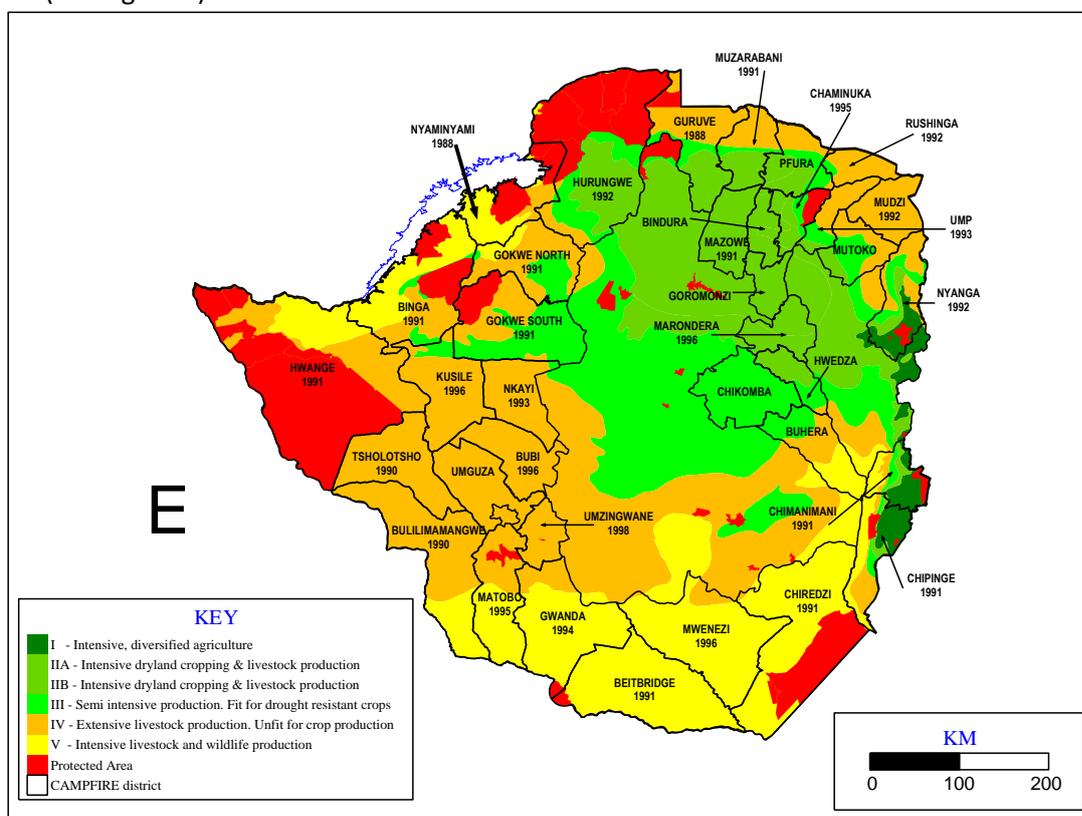


Figure 5: Map of Zimbabwe showing CAMPFIRE districts and year of establishment

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

The performance of ten key CAMPFIRE Districts is summarised below to illustrate the level of benefits that flow to RDCs, Wards and households, and the role that income from lion play in this process.

1. OVERALL QUOTA ALLOCATION, UTILISATION AND INCOME GENERATION FROM KEY SPECIES: All Districts: 2010 - 2015

	Elephant	Lion	Leopard	Buffalo	Hippo	Crocodile	Total
Quota	1,079	140	487	2050	602	471	
Offtake	655	45	193	908	270	305	
% Utilisation	61%	32%	40%	44%	45%	65%	
Total income N=6 years)	\$7,129,658	\$240,000	\$532,675	\$2,263,150	\$464,000	\$441,903	\$11,071,386
Average/year	\$1,188,276	\$40,000	\$88,779	\$377,192	\$77,333	\$73,651	\$1,845,231
Percentage	64%	2%	5%	20%	4%	4%	

The overall income generated over a 6-year period was US\$11 million. An overall quota of 140 lions (average 23/year) were allocated to the CAMPFIRE programme over which 45 (32%) were utilised (8 per year). This generated US\$240,000 or 2% of the overall income.

2. SOURCE OF CLIENTS AND GROSS INCOME TO SAFARI OPERATIONS:2010 - 2015

Origin of Clients	USA	Canada	South America	Europe	Asia	Middle East	Oceania	Africa	Total (N=6 years)
Total	880	16	54	456	82	9	51	131	1679
Percentage	51%	1%	3%	27%	5%	1%	3%	8%	
Total	\$8,624,059	\$150,987	\$543,003	\$5,201,168	\$550,062	\$781,076	\$394,208	\$567,897	\$16,812,459
Average/year	\$1,462,508	\$25,165	\$90,500	\$866,861	\$91,677	\$130,179	\$65,701	\$94,650	\$2,802,077
Percentage contribution	51%	1%	3%	31%	3%	5%	2%	3%	

Hunting clients from the USA are by far the most numerous (880 over 6 years) contributing 51% (or US\$8.6 million) of the estimated US\$16 million generated from hunting in CAMPFIRE areas from 2010 - 2015.

3. INCOME TO DISTRICTS: 2010 - 2015

	Hides (US\$)	Trophy fees (US\$)	Percentage of daily rate	Hunting concession fees	Photographic (lease fees/bed night levy)	Other (vehicle hire, grinding mill etc.)	Total	Average (N=6)
Total	\$131,741	\$10,618,127	\$1,277,525	\$862,721	\$737,613	\$731,218	\$14,358,945	\$2,393,158
Percentage	1%	74%	9%	6%	5%	5%		

The CAMPFIRE districts that benefit from hunting rely heavily on trophy fees (74%) as their primary source of income.

4. INCOME TO WARDS, VILLAGES AND HOUSEHOLDS: 2010 – 2015

Overall Income to CAMPFIRE Wards: 2010 - 2015						
	No Concessions	Area (ha)	Number Wards	Number Villages	Number Households	Gross Income
Total	26	2,288,284	62	603	56,297	\$5,946,370
Income (n=6 YEARS)	\$228,706.55	\$3	\$95,909.20	\$9,861.31	\$105.6	

Income generated at the District level is then disbursed to Wards. Since 2010, this is estimated to be approximately US\$5.9 million. The available data shows that 62 wards representing 603 villages (or 56,297 households) received the equivalent of US\$95,909/ward (or US\$105/household).

These levels of income are not sufficient to make a significant impact at the individual level, and require that the Districts and Wards channel these revenues into activities that benefit the overall community. This is achieved through supporting several communal projects such as schools, clinics, water provisions etc.

5. DISTRICT EXPENDITURE AND COMMUNITY BENEFITS: 2010 - 2015

	Administration	Law Enforcement	Compensation	Management	Social Services	Other	Total
Total	\$2,486,268	\$1,778,100	\$67,600	\$682,740	\$1,084,779	\$779,030	\$6,878,517
Average	\$414,378	\$296,350	\$11,267	\$113,790	\$180,796	\$129,838	\$1,146,420
Overall costs	\$5,014,708				\$1,084,77	\$779,039	
Percentage	73%				16%	11%	

At the District level, 73% of the revenues from hunting are channelled towards administration, law enforcement, compensation and general management while limited funds are used to support social services (16%).

6. WARD EXPENDITURE AND COMMUNITY BENEFITS

	Administration costs					Community Benefits			Other	Total
	Meetings & Admin	Wages/salaries	Compensation schemes	Management activities	Project Management Costs	Social services	Food security	Direct cash benefits		
Total	\$553,260	\$815,639	\$56,432	\$312,178	\$345,762	\$2,468,216	\$223,659	\$216,077	\$139,565	\$5,302,709
Overall costs	\$2,083,271					\$2,907,952			\$139,565	
Percentage	39%					55%				

At the Ward level, where communities are directly involved, the tendency is to channel most the income towards community benefits (55%) rather than administration which is seen to be the responsibility of the local government. This means that the bulk of the income from hunting is used to support social services such as schools, clinics, irrigation schemes etc. where the impact at the community level (village, household) is far greater (Figure 6).



Figure 6: Bhemba Clinic in Ward 2 of the Tsholotsho Communal Area (top) and Masera Secondary School (Beitbridge, bottom) that are supported by funds generated through the CAMPFIRE programme

Lessons learnt

1. Quota utilisation of lion (32%) is low in CAMPFIRE areas, equating to 8 lion/year.
2. Trophy fees from key species (elephant, lion etc.) contributed \$1,845,231/year to CAMPFIRE revenues:
 - a. Elephant (64%) and buffalo (20%) are major contributors
 - b. Lion and leopard contribute 7%
3. Income from the sale of safaris generate approximately \$2,802,077/year
 - a. Hunters from USA contribute 51% and Europe 31% of this income.
4. Income to Districts from a variety of wildlife related revenue streams is approximately \$2,510,783/year:
 - a. Trophy fees are responsible for 74% of this income, of which lion play a small role.
 - b. Fees from photographic tourism are responsible for 5%.
5. Wards receive \$5,830,244 (57%) from district trophy fees. These revenues are used to support a variety of social services that benefit a large proportion of the local community.

The cessation of import of lion (and elephant) trophies into the USA has had a significant impact on these revenue streams and consequently on the benefits reaching communities at the local level. These revenues cannot be replaced through alternative revenue streams.

7 MANAGEMENT AND ADMINISTRATION OF THE SAFARI HUNTING INDUSTRY IN ZIMBABWE

7.1 PERFORMANCE OF THE INDUSTRY

To fully account for earnings in the Hunting Sector, the Reserve Bank of Zimbabwe, in collaboration with all the relevant stakeholders, introduced the Tourism Receipts Accounting System (TRAS2) in January 2015. The TRAS2 is a web-based system which links Safari Operators, Zimbabwe Parks and Wildlife Management Authority, Taxidermists, Shipping Agents, International Marketing Agents and Reserve Bank for the purposes of authorizing hunts, capturing hunting data, monitoring hunting quota utilization and tracking hunted trophies.

On an annual basis, Exchange Control Division of the Reserve Bank of Zimbabwe attends the SCI Conventions to achieve the following objectives: -

1. To assess regional price differentials of same hunts at the SCI Convention and the reasons thereof;
2. To present Form TRAS2 systems updates to the users including international marketing agents;
3. To engage international marketing agents of sport-hunting (standardised international marketing agreements, payment arrangements and follow up on overdue export receipts);
4. To obtain relevant insights on governing of the hunting sector; and
5. To come up with an effective mechanism to fully account for export proceeds from the hunting sector.

7.1.1 Global earnings of the industry

The TRAS2 system was introduced in January 2014, and has since recorded a total of \$44.6 million (\$18.9 million in 2015 compared to \$25.9 million in 2014) as shown in Figure 7. The figures are inclusive of daily rates, trophy fees and other incidental revenue. In line with other regional

countries offering safari hunting, the market is dominated by the USA (59%) and Europe (25%) with the remainder of the market taken by the Americas (Canada, Argentina etc.), Asia, Africa, Oceania and Africa (mostly South Africa). Appendix III illustrates the distribution of total hunting revenue by country of destination (Chitauro, 2016).

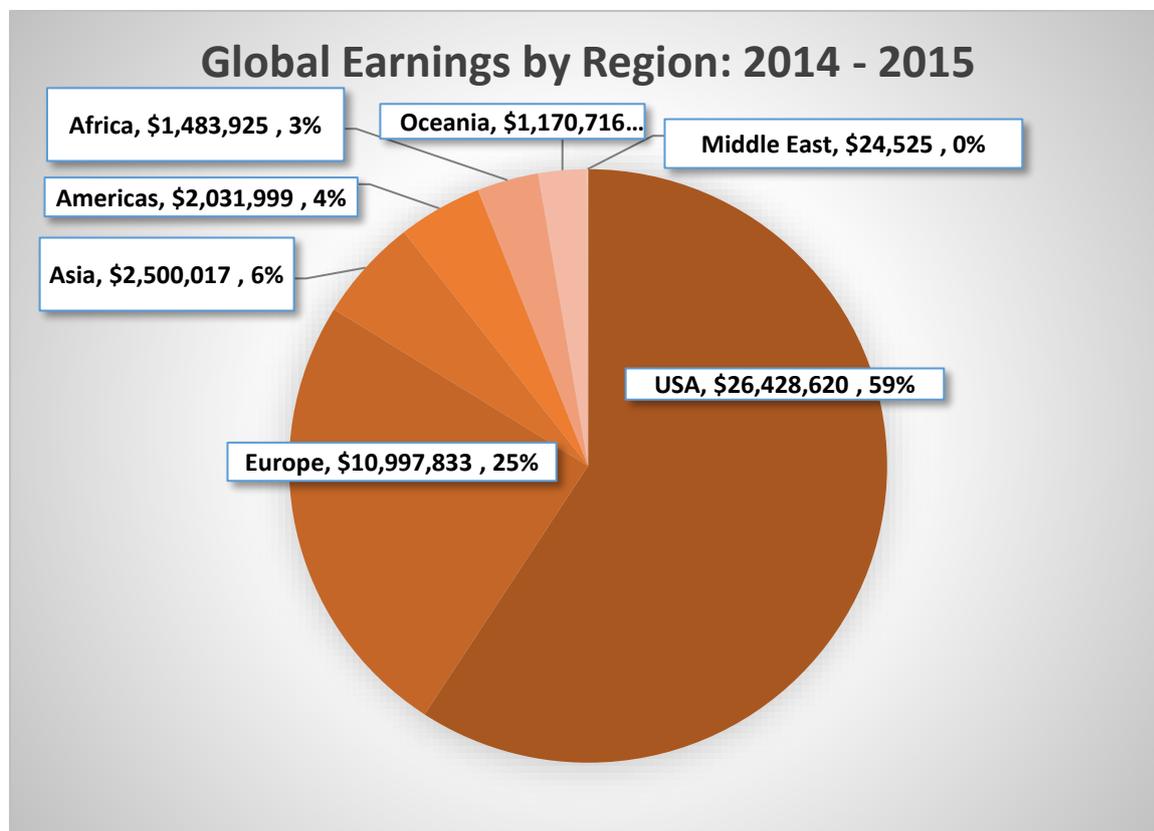


Figure 7: Breakdown of source of hunting income (2014 and 2015) from various regions in the world (adapted from Computerised Exports Payments Exchange Control System, CEPECS - TRAS2)

7.1.2 Quota allocation, Utilisation and Total Trophy Fees Earned

The total income from the sale of trophies in 2014 and 2015 is shown in Table 18. The income in 2015 (US\$8.2 million) is less than that in 2014 (US\$11.1 million) because of the import restrictions of elephant and lion into the USA.

Table 18 also provides data on the quotas allocated in 2015 and the number of level of utilisation. The complete list of species is provided in Appendix III (Chitauro, 2016). These data show that levels of utilisation for all species varies from 10 – 40% for most mammals and far less for birds etc.

Table 18: Summary of the revenue generated from the 11 most common species utilised for hunting, and the percentage utilisation in 2015 (adapted from Computerised Exports Payments Exchange Control System, CEPECS - TRAS2)

Species	2014	2015	Total	2015 Quota	Utilised	% Utilised
Buffalo	\$2,528,559	\$1,962,570	\$4,491,129	1,635	482	29%
Elephant (Tusks)	\$2,042,610	\$1,447,090	\$3,489,700	246	64	26%
Elephant (Tuskless)	\$1,444,040	\$229,860	\$1,673,900	462	113	24%

Species	2014	2015	Total	2015 Quota	Utilised	% Utilised
Lion	\$630,950	\$753,000	\$1,383,950	82	49	59%
Leopard	\$714,100	\$668,490	\$1,382,590	530	151	28%
Zebra	\$594,239	\$555,744	\$1,149,983	2,480	600	24%
Sable	\$456,615	\$309,260	\$765,875	718	78	11%
Kudu	\$341,092	\$357,963	\$699,055	2,503	289	12%
Waterbuck	\$293,903	\$256,133	\$550,036	988	156	16%
Hippo	\$310,321	\$217,470	\$527,791	303	83	27%
Impala	\$277,198	\$242,624	\$519,822	8,594	1,261	15%
Other Species	\$1,465,560	\$1,287,845	\$2,753,405			
Grand Total	\$11,099,187	\$8,288,049	\$19,387,236			

7.1.3 Total trophy fees generated by land category

The ZPWMA allocated quotes to all owners and occupiers of land in terms of SI 26. Any person utilising wildlife on these properties is required to submit a TRAS2 form to process any export of trophies and other animal products. Approximately 262 companies/properties submitted returns in 2014 and 2015. From these data, it is possible to determine the income generated from trophy fees and daily rates per company. To protect the privacy of the individual companies, these data have been arranged to show the level of income generated by different land categories from trophy fees (Figure 8),

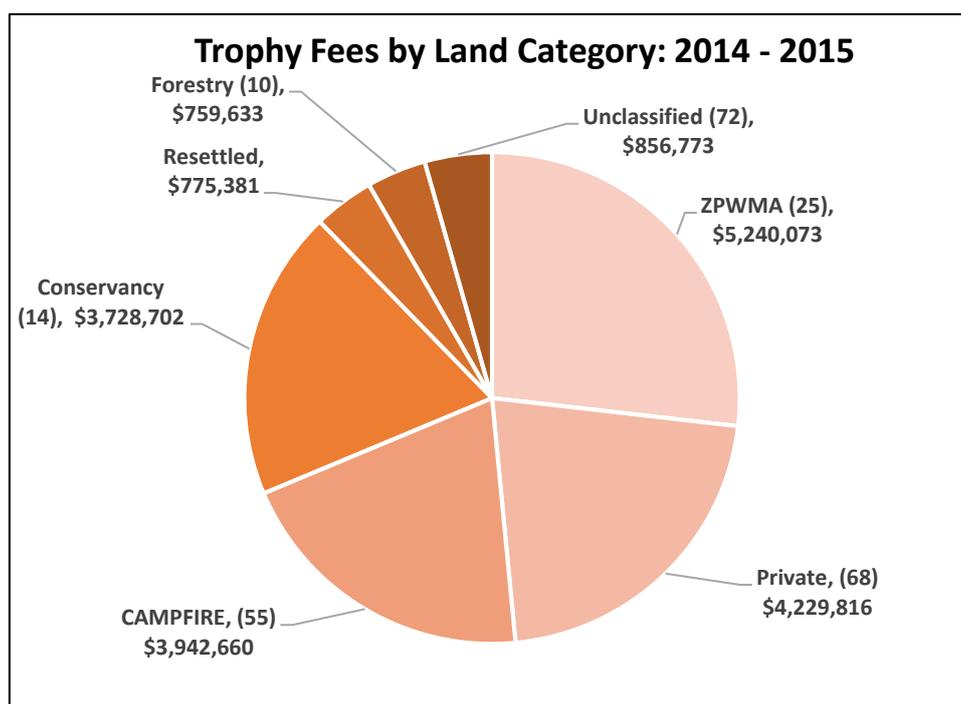


Figure 8: Hunting Trophy Fee Earnings by Land Categories (2014 - 2015). Note that from the description provided in the database, it was not possible to allocate some individual properties to a specific category. These have been recorded as unclassified (adapted from Computerised Exports Payments Exchange Control System, CEPECS - TRAS2).

Overall, approximately US\$10.7 million was generated in 2014 and US\$8.7 million in 2015 from the 62 species on offer. The ZPWMA represented by 25 properties that it either offers on tender to the private sector or operates as hunting areas itself generated the largest income from trophy fee sales

(US\$5.2 million). The 14 Conservancies accounted for US\$3.7 million while the 68 private properties are recorded as generating US\$4.2 million. The CAMPFIRE areas (N=55) generated US\$3.9 million.

Together with the income from daily rates (US\$13,190,372 in 2014 and US\$9,684,396 in 2015 (gross US\$22,874,768), extracted from Computerised Exports Payments Exchange Control System, CEPECS - TRAS2), these funds are used to pay for several operational expenses including employment, law enforcement, administration and management.

7.5 QUOTA SETTING PROCESS

The process for quota setting follows procedures agreed to by all stakeholders (ZPWMA, 2014).

- Step 1: Allocate existing quota to each block/hunting area

The starting point for implementation of age-restrictions and adaptive quota management was to allocate existing lion quotas. This quota would then be managed adaptively in line with the age of lions hunted. In future, it is envisaged that fixed quotas for lions would fall away as quotas would be based on the age of lions hunted in the previous year.

- Step 2: Hunters complete and submit return forms and photos after each lion hunt

The data would be compiled into a database by a ZPWMA representative (currently Ms Roseline Mandisodza-Chikerema, Senior Ecologist, ZPWMA). Export permits for trophies will not be issued unless completed hunt return forms (all the required photographs and the first upper premolar) is provided to ZPWMA for aging and monitoring purposes. Furthermore, because the following year's quotas will be based on the ages of the lions hunted in the current year, operators must submit their lion hunt returns and photographs soon after the hunt. At the end of the season, all the teeth would be taken to a dentist to have x-rays conducted to allow for measurement of the size of the pulp cavity.

- Step 3: ZPWMA and Panel of experts assign an age value to each lion trophy

Lion trophies will be aged by ZPWMA, with input from lion scientists and representatives from the hunting industry at a trophy aging session. This is conducted at the end of each hunting season.

- Step 4: Calculate the next years' quotas based on a points system for the ages of lions hunted

A quota setting meeting is held where lion quotas are established for each area based on the age of lions hunted in those areas the year before. This programme commenced in 2014, and so the ages of lions hunted in 2014 will affect the lion quotas in 2015. Table 19 summaries the trend in lion quota allocations since 2002 while Table 12 provides a detailed overview of the lion trophies taken in 2015.

Table 19: Summary of lion quota allocations and offtake since 2002 (Data provided by ZPWMA)

Year	Lion Allocated Quotas	Female Offtake	Male Offtake	% Utilisation
2002	126	22	49	56%
2003	138	5	11	6%
2004	155	4	9	8%
2005	108	3	20	21%
2006	124	1	17	14%

Year	Lion Allocated Quotas	Female Offtake	Male Offtake	% Utilisation
2007	117	0	9	7%
2008	90	0	17	18%
2009	111	0	9	8%
2010	98	12	30	43%
2011	121	20	38	48%
2012	101	18	27	44%
2013	101	1	34	34%
2014	101	0	37	26%
2015	82	0	49	60%
2016	81	0	33	41%

Table 20: Analysis of lion trophies taken on various properties in 2015

Hunting Area Name	Sex	Killed Wounded	Grid Ref	Date Shot	Trophy Size
Sapi Area	M	KILLED	35I0783	03/06/2015	
Matetsi Safari Area - Unit 3	M	KILLED	307551	05/04/2015	61.31
Antoinette & Antoinette Extension	M	KILLED	187159	02/07/2015	26 7/16"
Tsholotsho District Area 2-South	M	KILLED	S1926181 E02652250	27/10/2015	25 6/8 inches
Hurungwe Safari Area - Rifa	M	KILLED	35K178113	10/05/2015	24.5
Deka Tail	M	KILLED	651 480	10/04/2015	60.38 cm
Hurungwe Safari Area - Nyakasanga	M	KILLED	s15.56.457 e029.15.584	07/06/2015	26
Msaïse	M	KILLED	VN204700	14/05/2015	23
Mapari	M	KILLED	VN798124	09/06/2015	23SCI
Ngamo/Sikumi	M	KILLED	456923	09/05/2015	
Deka Safari Area	M	KILLED	278493	26/06/2015	61.5
Mbire (Guruve) South Area 2	M	KILLED	919056	09/08/2015	25.3
Bubye Valley Conservancy	M	KILLED	0194090 7625410	21/02/2015	25"
Bubye Valley Conservancy	M	KILLED	9337	29/03/2015	26"
Bubye Valley Conservancy	M	KILLED	31129	07/04/2015	25
Woodlands Farm	M	KILLED	644972	22/05/2015	25"
Bubye Valley Conservancy	M	KILLED	35K 453 159	10/05/2015	23.625
Bubye Valley Conservancy	M	KILLED	36K 908 852	25/04/2015	25"
Chewore Safari Area - North	M	KILLED	TT015643	05/06/2015	25
Bubye Valley Conservancy	M	KILLED	36K 227 593	12/05/2015	26"
Matetsi Safari Area - Unit 4	M	KILLED	4.05E+12	09/06/2015	24
Matetsi Safari Area - Unit 5	M	KILLED	865505	09/06/2015	25.25
Gunundwe	M	KILLED	822094	11/06/2015	
Bubye Valley Conservancy	M	KILLED	36K 004 971	24/06/2015	25.5625

Hunting Area Name	Sex	Killed Wounded	Grid Ref	Date Shot	Trophy Size
Bubye Valley Conservancy	M	KILLED	942 151	25/06/2015	12
Kusile District Area 1	M	KILLED	S185604.9 E0271547.4	02/07/2015	
Mokore Ranch	M	KILLED	VN110030	15/07/2015	15"
Bubye Valley Conservancy	M	KILLED	36K 229 607	29/07/2015	26"
Bubye Valley Conservancy	M	KILLED	191 623	25/07/2015	27.0625
Nyaminyami District Area 2 (Omay)	M	KILLED	657019PM	18/07/2015	24 1/8"
Matetsi Safari Area - Unit 5	M	KILLED	862 451	15/07/2015	25 8/16 inches
Matendere	M	KILLED	781021	26/07/2015	23.875
Matetsi Safari Area - Unit 1	M	KILLED	740726	13/08/2015	25
Bubye Valley Conservancy	M	KILLED	213 602	15/08/2015	15
Sango	M	KILLED	62691	23/08/2015	23.125
Sango	M	KILLED	320548	27/08/2015	
Dande Safari Area	M	KILLED	945352	13/10/2015	24in
Hurungwe Safari Area - Rifa	M	KILLED	35k062038	30/09/2015	25.25
Bedford	M	KILLED	190429	06/09/2015	
Ngamo/Sikumi	M	KILLED	456919	07/09/2015	
Bubye Valley Conservancy	M	KILLED	206 622	23/09/2015	26"
Hammond	M	KILLED	35k880103	17/10/2015	23.375
Kazuma/Panda Masuei	M	KILLED	s18.44144 & E025.64434	09/10/2015	
Nyaminyami District Area 1 (Omay)	M	KILLED	PM453354	13/11/2015	26"
Chewore Safari Area - South	M	KILLED	ST967260	25/10/2015	
Riverside Ranch	M	KILLED	35k227702	31/10/2015	24.78
Matetsi Safari Area - Unit 6	M	KILLED	18.06.55.68.25.22	03/12/2015	
Chewore Safari Area - South	M	KILLED	QN975310	06/12/2015	
Sapi Area	M	KILLED	Mtawatawa	11/06/2015	24"

7.6 POINTS SYSTEM FOR ADAPTIVELY MANAGING LION QUOTAS IN ZIMBABWE

The points system used to adaptively manage lion quotas has been developed following similar systems that have been implemented in Tanzania and northern Mozambique. The systems that are in place in Tanzania and Niassa differ slightly, but both lion quotas are set per the age of the lions harvested during the previous hunting season (Begg and Begg, 2008; Tanzania Wildlife Division 2013). The Tanzanian system is more punitive with significant quota reductions, trophy confiscation and fines for non-compliance, whereas the Niassa system is more accommodating but nevertheless can result in quota reductions if five-year-old lions are hunted. The latter was aimed at a means of accommodating the difficulty of telling five-year-old lions apart from four year olds.

After reviewing the Tanzanian and Mozambican age restriction systems and debating possible models for application in Zimbabwe, an adaptive quota management system for lion hunting based on the ages of lions hunted was agreed on in July 2013 in Harare, Zimbabwe, during a meeting hosted

by the Zimbabwe Parks and Wildlife Management Authority (ZPWMA) and an independent non-governmental conservation organisation. The approach adopted by Zimbabwe recognises four as opposed to three key age categories (Table 21).

Table 21. Proposed points system for lion age restrictions and quota setting in Zimbabwe

	≥6 years	No trophy	5 years' old	4 years' old	<4 years	Failure to submit hunt return/incomplete hunt returns
For quotas of 3/more	4	3	3	2	-3	0
For quotas of 2	4	3	3	2	0	0
For quotas of 1	6	3	3	2	0	0
Quota setting process	These points are added up and divided by 3 to yield the quota for next year					

During 2013, operators were requested to submit hunt returns and photos as a trial run to get the system up and running. In 2014 operators were requested to do the same but were informed that the age of the lions hunted in 2014 would determine their lion quotas in 2015. The 2015 lion hunt results would thus also determine the 2016 quota. The key distinction of the Zimbabwean system is that the quota will not be affected if they hunt animals that are five years old. This position was adopted after considering various the population models that suggested that the hunting animals of five years of age or older is predicted to be comparatively safe from a population perspective (Whitman et al. 2007). Moreover, after reviewing aging techniques, the consensus was that professional hunters could be distinguish between lions that are five or above. The system therefore rewards operators with increased quotas if they hunt animals of six years and older, but it does not penalize them if they hunt animals of five years. Neither are they penalised if they do not shoot a lion that they have on quota, however, the quotas will be reduced if they hunt animals younger than five years or if they failed to complete hunt returns.

Lions are aged by triangulating multiple different aging characteristics, including:

- The degree of facial scarring;
- The teeth colour and degree of wear;
- The mane development (particularly regarding the shape around the ear and the mohawk);
- Through post mortem analysis of the width of the pulp cavity of the second premolar (which becomes narrower with age).

7.6.1 Results of the Adaptive Lion Quota Management System: 2013 to 2016

In 2013, only 28% of the lions hunted were 5 years or older, in 2014 that figure had risen to 49% and in 2015 to 77.3% (Figure 5). The proportion of lions hunted that were less than 5 years of age dropped overall between 2013 and 2015 (Figure 9).

In 2015 the Zimbabwe national lion hunting quota was set at 82 lions. Of this 82, only 49 were hunted in 2015, and based on the resultant score from aging the trophies, and the fact that operators chose not to hunt lions of inadequate age (see Figures 9, 10 and 11), the recommended quota for 2016 was set at 81. In 2015 there was a marked increase in the age of lions hunted. Notably, only one lion of <4 years of age was hunted and the large majority of lions were 5 years or older (Figure 9).

As was agreed upon at the 2013 lion management meeting in Harare, the CAMPFIRE areas in which lions occur are currently exempted from the age restrictions. This approach was adopted as a means of ensuring that impoverished communities obtain the opportunity to benefit from the presence of lions, recognising the potential negative impacts the species has on the livelihoods of livestock farmers.

Using these figures and estimating the average value of a lion safari at approximately US\$ 80,000 then a 50% offtake would generate approximately US\$ 2,800,000 annually. If management costs are approximately \$150 km², then the lion safaris alone can support 18,600 km² of wildlife habitat in Zimbabwe.

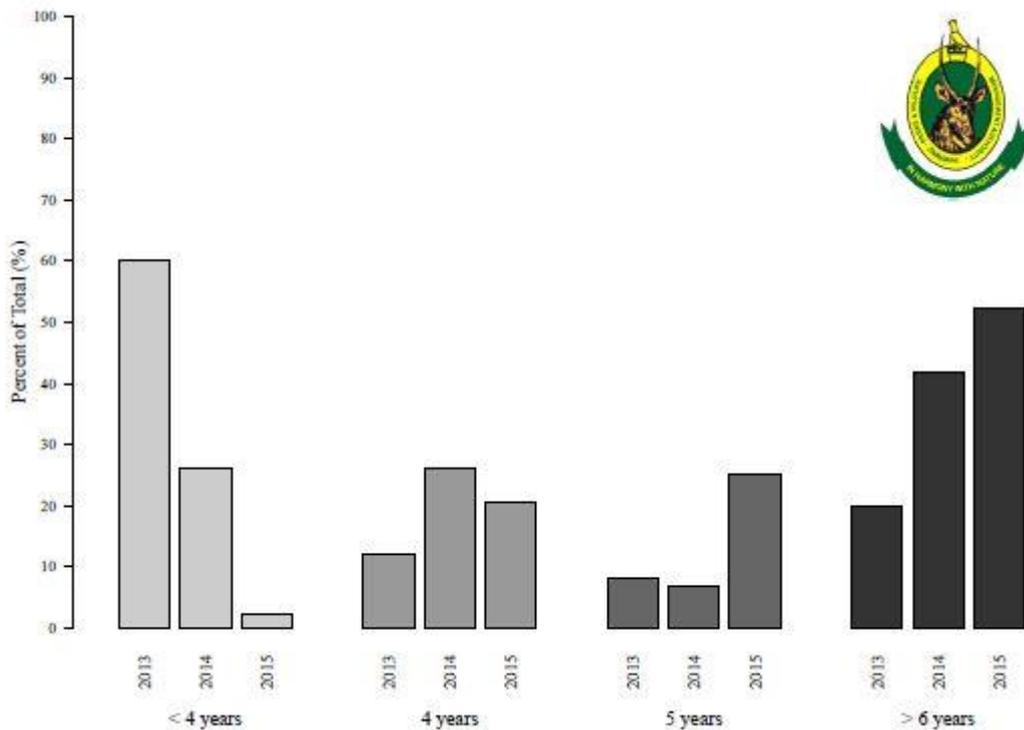


Figure 9: The percentage of lions hunted in each age class in 2013, 2014 and 2015 in Zimbabwe.

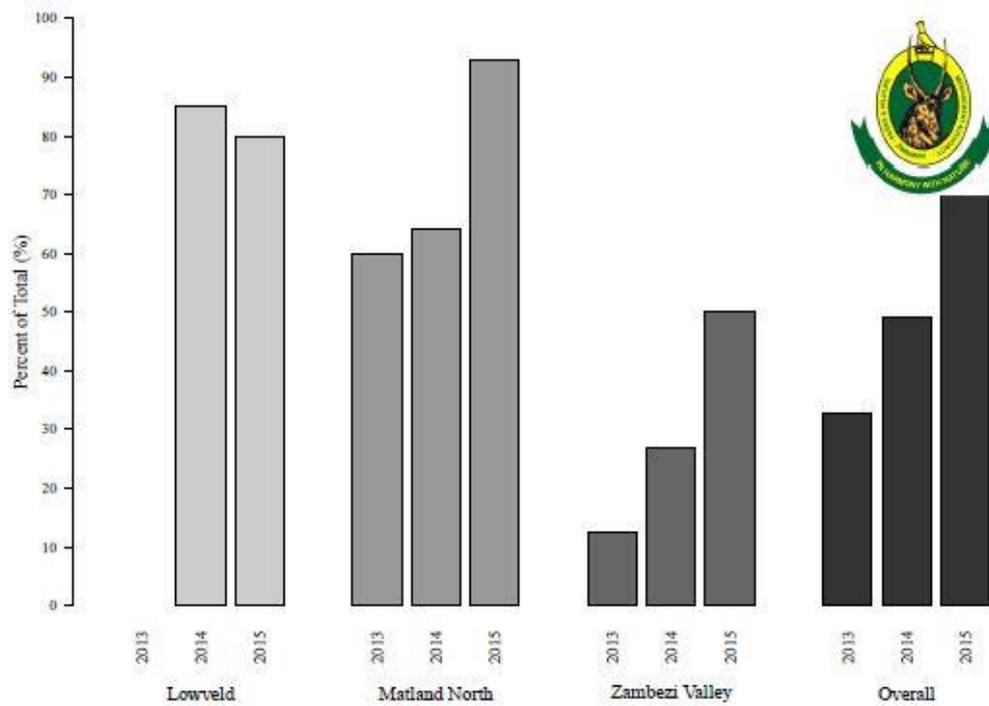


Figure 10: The proportion of lions hunted that were 5 years or older in the three main lion-hunting areas of Zimbabwe.

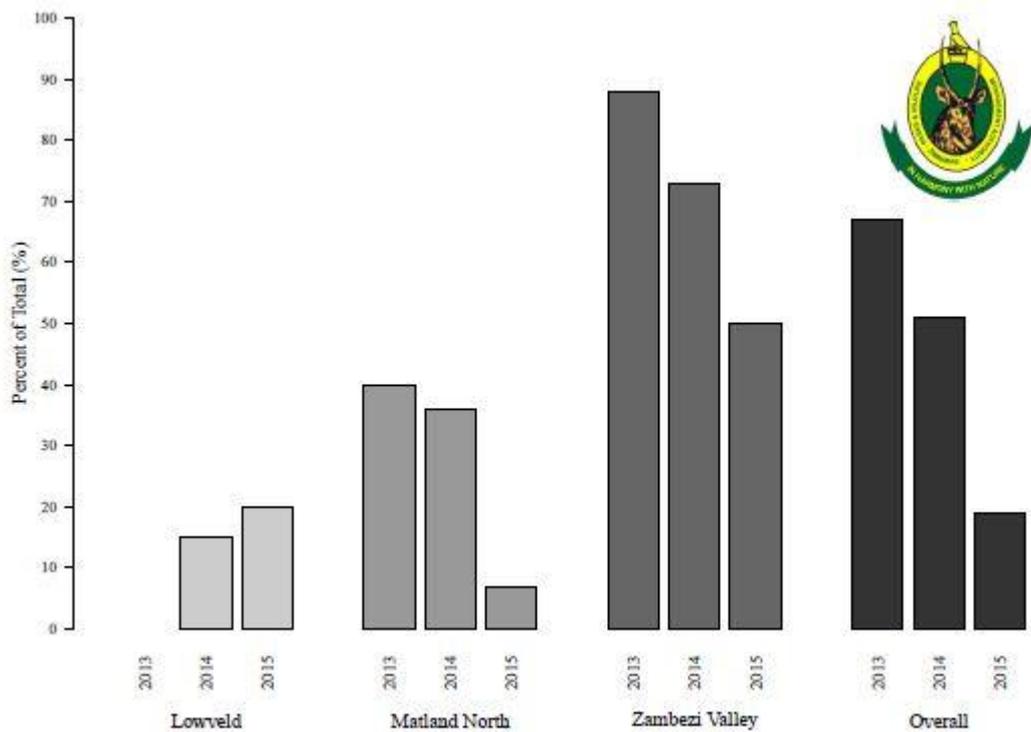


Figure 11: The proportion of lions hunted that were less than 5 years of age in the three main lion-hunting areas of Zimbabwe.

7.6.2 Case study: Safari Hunting surrounding Hwange National Park

The Hwange National Park is surrounded by hunting areas that fall under the Authority, Forestry Land, Private Land and Communal Land. The ZPWMA is responsible for setting and administrating quotas in conjunction with stakeholders for the safari areas, forestry areas, communal lands and private properties.

The Matetsi Safari Area to the north of Hwange National Park was established in the 1970s when several unsuccessful private sector mixed faming properties were expropriated, compensated and the resultant block of land turned over to safari hunting – a largely untried venture at that time on a large scale. An intensive monitoring system was set in place to gauge the effectiveness of the scheme and this continues to this day (Crossmary et al. 2013, Figure 12). The seven concessions (six given over to safari hunting) are leased on five year terms and concessionaires pay a 5 year “right to lease” fee, an annual rental, a fixed quota fee (payable if animals are shot or not) and a supplementary quota fee which allows additional animals to be bought as per need.

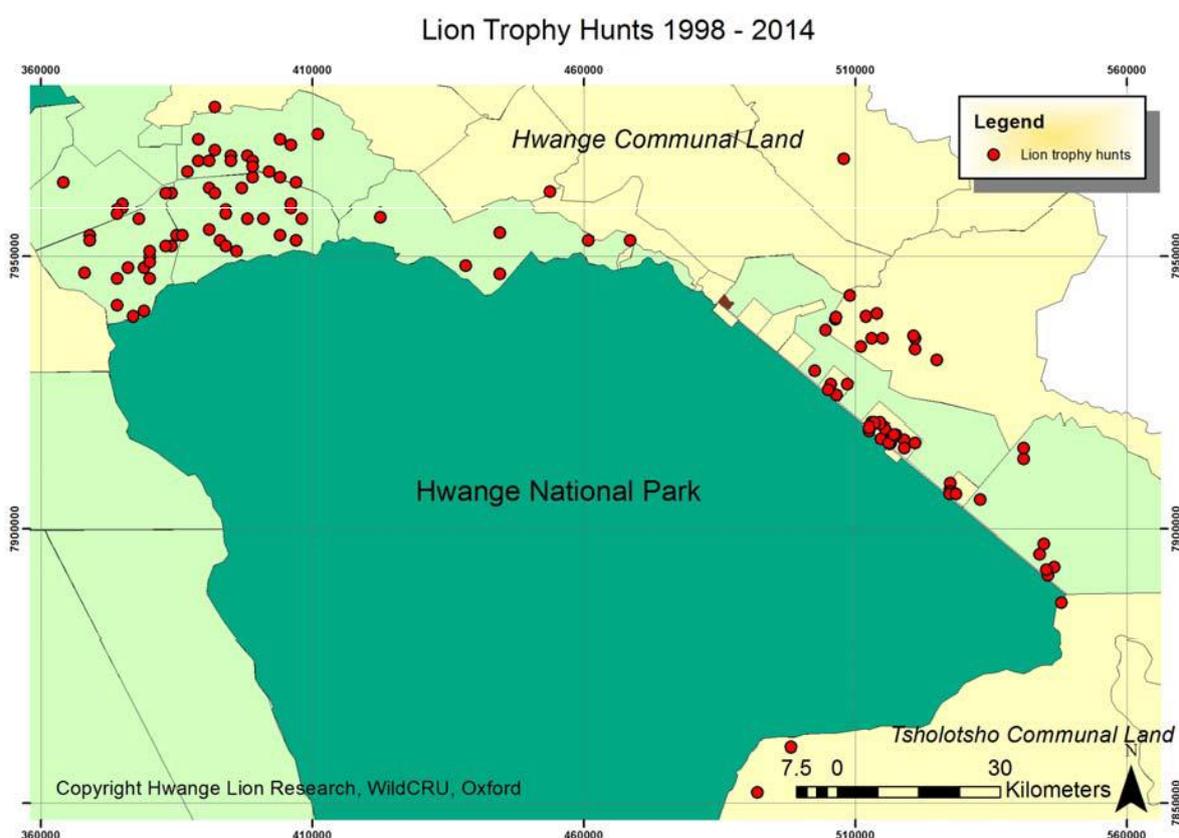


Figure 12: Record of where lion have been hunted on the land surrounding the Hwange National Park since 1998 (data extracted from the Hwange National Park Management Plan).

8 THREATS AND MITIGATION

The consensus of the scientific and animal welfare community is that the populations of lion in Africa has declined by 43% in the last two decades, with the greatest declines having occurred in west Africa. The exception to this are the populations of southern Africa, notably South Africa, Namibia, Botswana and Zimbabwe that are home to 24- 33% of the overall population has increased (Funston et. al. 2016).

Nonetheless, as is the case in other range states, the greatest threats to lion in Zimbabwe are from habitat loss, snaring and retaliatory killings where livestock are involved.

8.1 HUMAN-LION CONFLICT

The main source of illegal killing of lions is a result of Human-Lion conflict. The human population of Zimbabwe has increased since 1960 (estimated at 13 million). There is considerable pressure to convert land to agro-pastoral production, and the pressure is expected to increase. It is not unexpected therefore that the incidence of Human-Lion conflict will increase. ZPWMA records show that 200 attacks occurred on humans and 150+ on livestock (cattle, goats, sheep, dogs etc.) were killed in 2015 (see Table 13 above).

Retaliation for these livestock losses is usually done poisoning or hunting. The exact number of lions killed in this way is difficult to assess, but may number over 50/year. These indiscriminate killings pose the most significant threat to the species, and is of major concern to the management authorities. For example, the Area Manager for Hwange National Parks reported that 6 lions were killed on the Hwange National Parks boundary in 2016, and the Authority responded to several problem animal attacks on livestock.

In accordance with the Parks and Wildlife Act of 2001 when a lion attacks a human or kills livestock, it shall be eliminated. However, despite the numerous incidents reported across the country, less than 10 lions are killed through official “problem animal control” (PAC).

8.2 HABITAT LOSS

Zimbabwe supports substantial populations of lions outside of its protected areas and extensive conservancies. Moreover, despite its expanding human population, many of the protected areas are still intact however, the threat to lions from habitat loss exists in the Sebungwe and the South East Low Veld where the fragmented nature of the protected areas is compounded by an increasing human and livestock populations surrounding these areas. In these areas, habitat loss, reduction in prey populations and killing of problem lions are the major threats to long term lion survival.

Due to the large size of the protected area system in the Zambezi Valley and North West Matabeleland, threats are limited to lion range which extends into adjacent settled areas. The huge natural prey base in these protected areas, reduced killing of problem animals associated with lions preying on livestock in adjacent settled areas.

The potential and real loss of habitat and the fragmentation of range and conflicts with people in the absence of effective incentive mechanisms to maintain such habitat is probably the second greatest threat to lions after retaliatory killings. Increasing livestock numbers is reducing the available habitat in buffer areas adjacent to the protected areas, and increasing the incidents of human-lion conflicts. Lions are being more and more regarded as a liability and economic cost to rural communities. Reversing this trend is difficult under normal circumstances, and this has been made that much more difficult with the cessation of lion hunting. Integrating income from lions into rural economies, and demonstrating that lions contribute to the welfare and development of people is regarded as one strategy to mitigate against this. The involvement and empowerment of rural people in natural resource management through the CAMPFIRE programme that strives to provide economic and financial incentives through sustainable use, is one of the main driving forces behind changes in attitudes towards wildlife in communities where lion-livestock conflicts occur.

8.3 ILLEGAL TRADE IN LION PRODUCTS

Very few lions are poached in Zimbabwe (not to be confused with retaliatory killings). Records, mainly from anti-poaching reports, are for impoundment of body derivatives such as skins, teeth/claws, body

fats and bones. These may be sought after for local traditional medicinal use. Poaching mainly occurs along the boundaries of the protected areas where lions are incidentally snared as non-target prey.

The illegal trade in lions and their products (i.e. bone trade) is very insignificant. There are no records of people found in possession of illegally acquired lion specimens in Zimbabwe, and anyone found in possession of illegally acquired lion specimens is required to pay a fine US\$5000 or faces a mandatory jail sentence. On conviction for lion poaching, courts may ask the accused to pay a compensation fee of US\$20 000.

8.4 BUSHMEAT POACHING

Poaching for bushmeat is an important livelihood component of rural communities in Zimbabwe and a vast literature exists on this subject (see Lindsey et. al. 2015a and 2015b). Poverty stands as the major driver of illegal hunting, and the livelihoods of illegal hunters have been augmented considerably through revenue generated from bushmeat sales. Illegal hunters use bushmeat both for supplementing household protein and for economic gain.

Poaching for bushmeat does not seem to have impacted directly the overall lion's status in Zimbabwe, but more research is needed to fully understand its impact on lion. However, lions are often inadvertently caught in snares set for animals targeted by bushmeat poachers. Where possible, lions caught in snares are captured and treated (Figure 13).



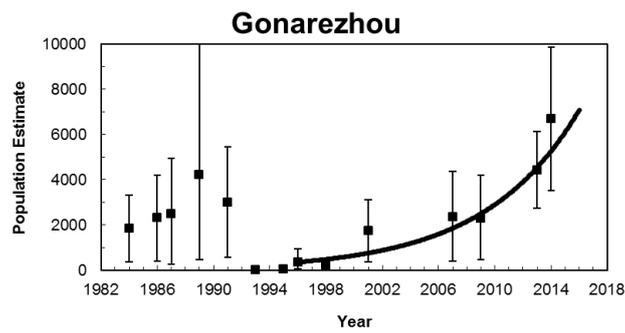
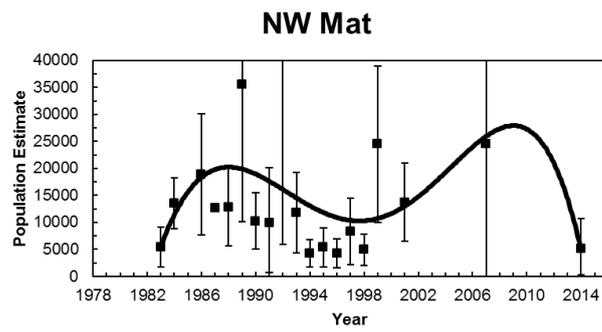
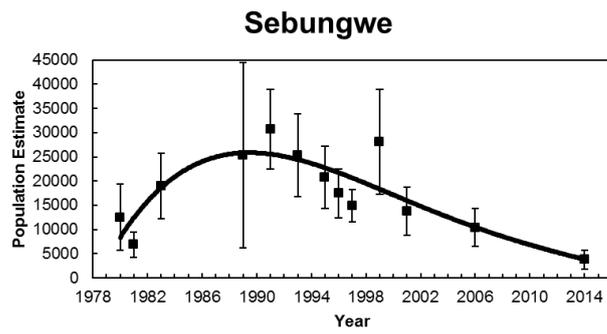
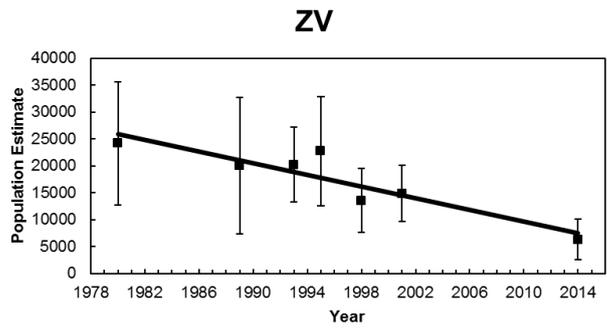
Figure 13: Young lioness being treated by the Victoria Falls Conservation Trust after a snare was removed from around the chest (Source: S. Edwards)

8.5 PREY ABUNDANCE

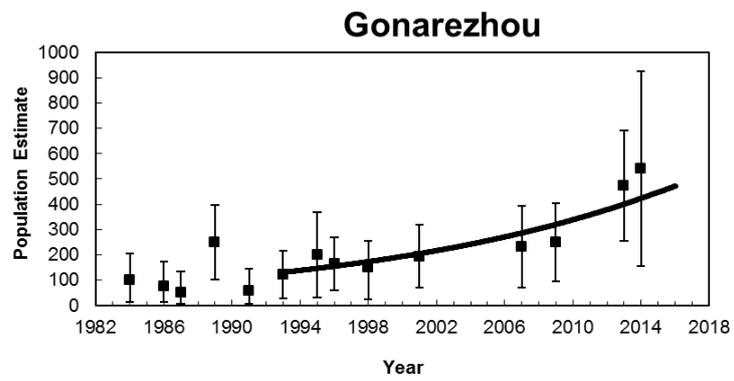
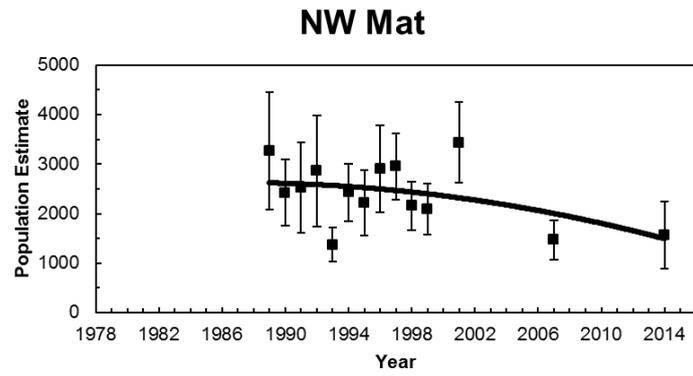
The extent to which bushmeat poaching outside of the Parks Estate is depleting lion's prey is not known. Prey abundance is still high in all protected areas where lions occur, and as abundance of prey species is highly correlated with lion density (Hayward et al 2007), data on the main prey species for lion, extracted from the 2014 aerial surveys of elephants and other large herbivores (Dunham et. al., 2015, 2015a, b, c, d) are shown in below (ZV = Zambezi Valley, NW Mat = North West Matabeleland).

The overall long term trends show that most population status of most prey species has declined in recent years. There are many possible explanations for these declines, but probably the most critical factor has been droughts, especially that experienced in 2005.

Buffalo

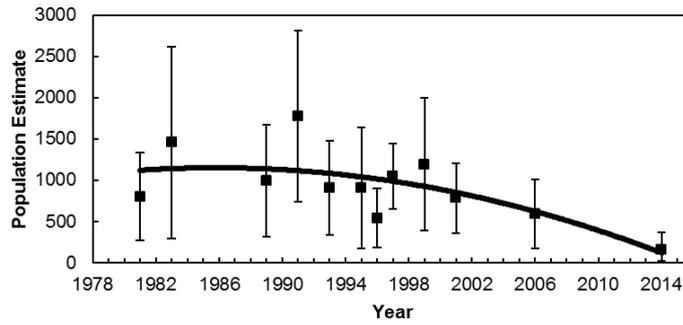


Giraffe

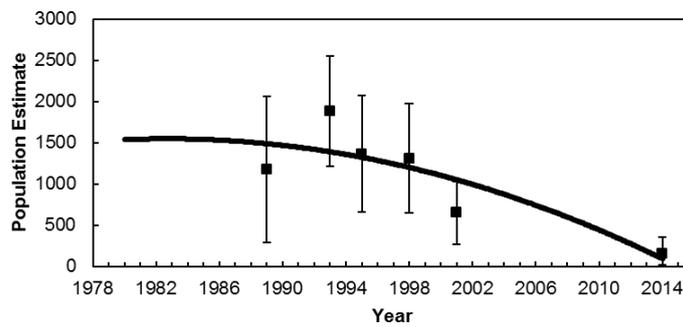


Sable

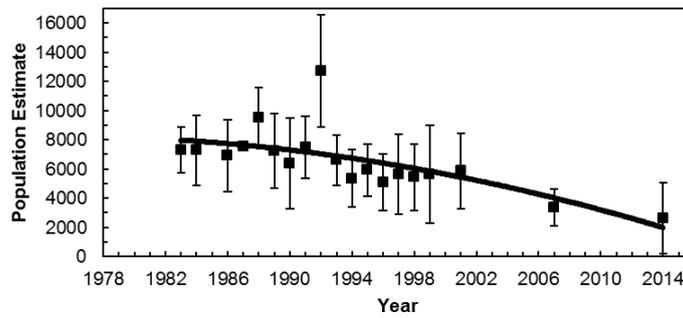
Sebungwe



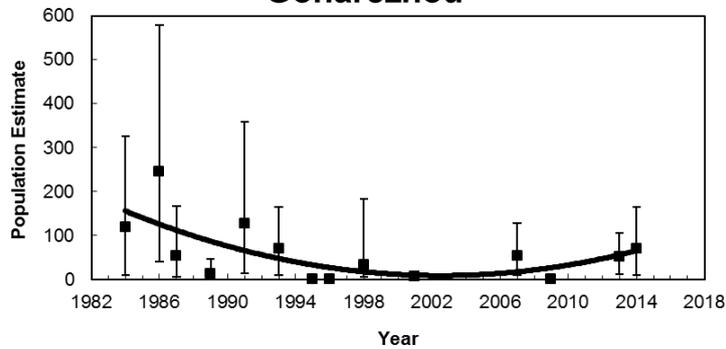
ZV



NW Mat

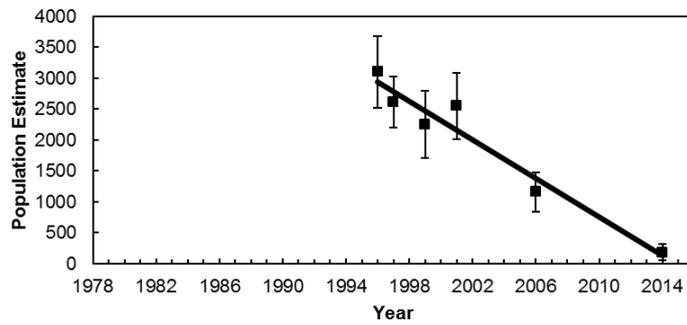


Gonarezhou

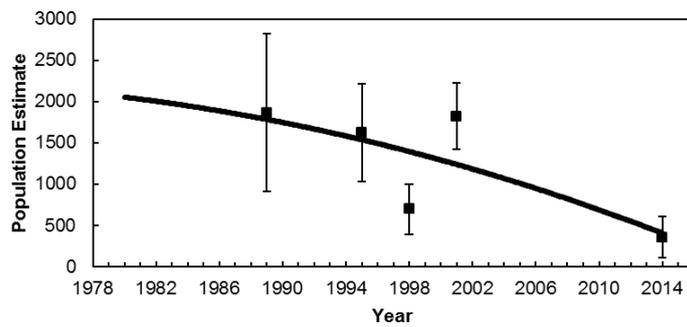


Kudu

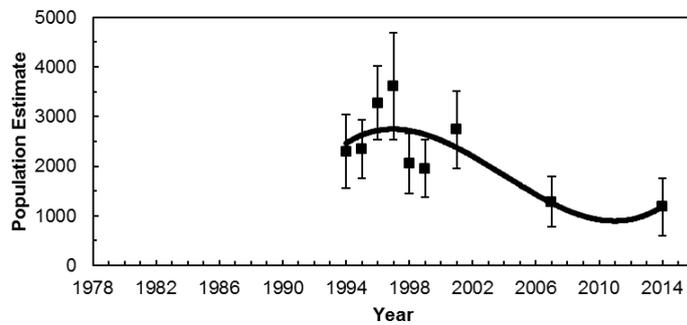
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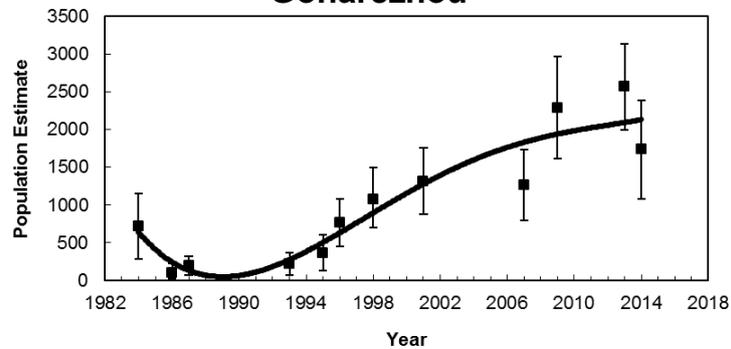
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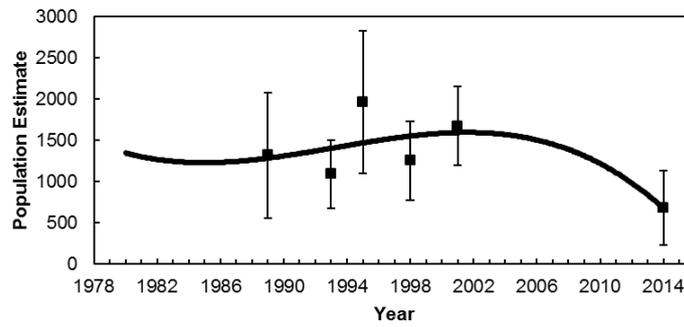


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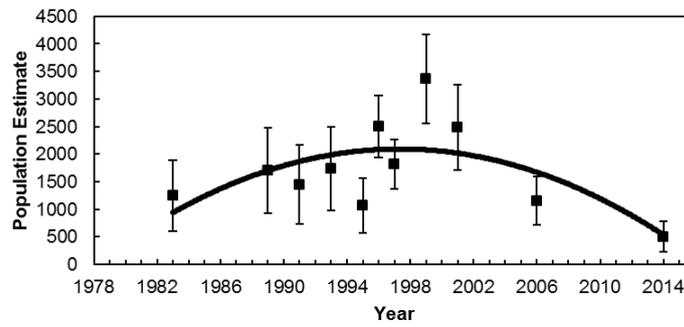


Zebra

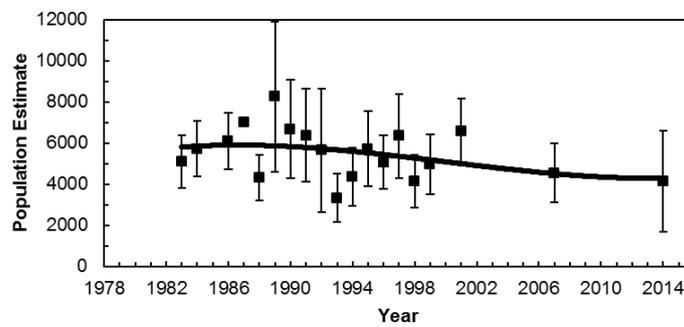
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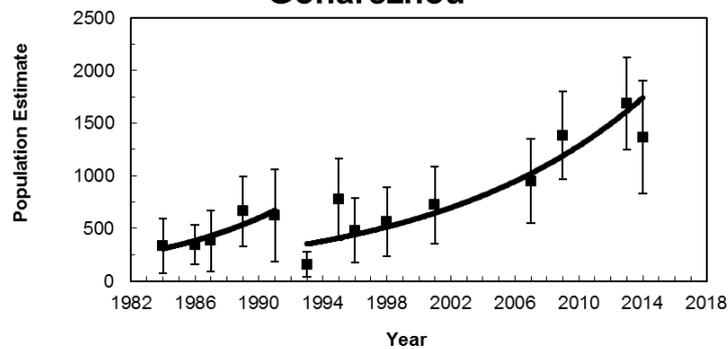
Sebungwe



NW Mat

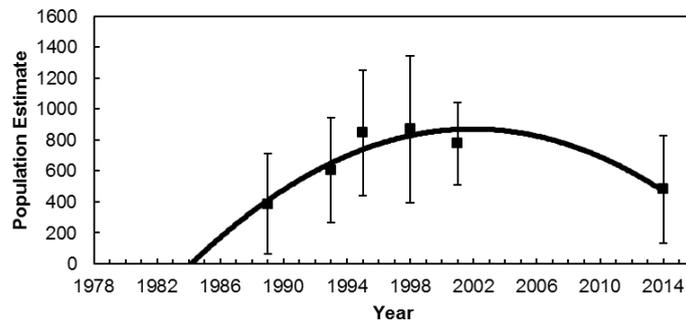


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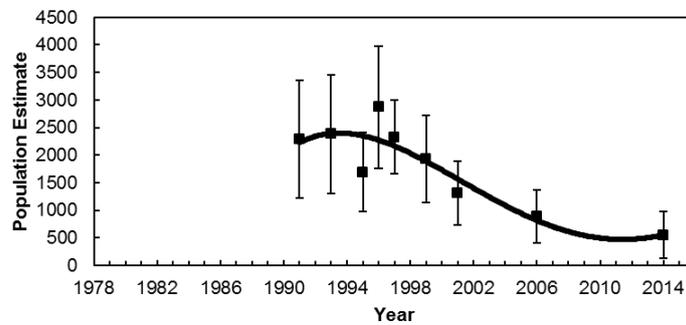


Waterbuck

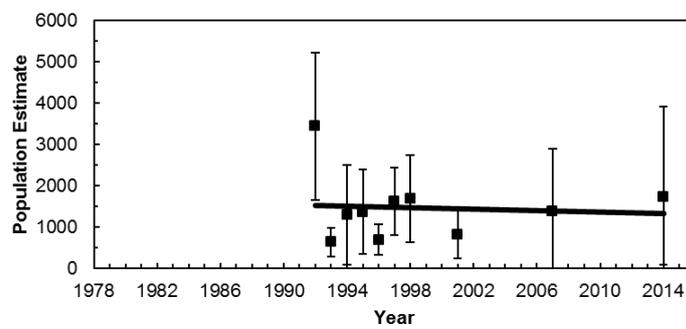
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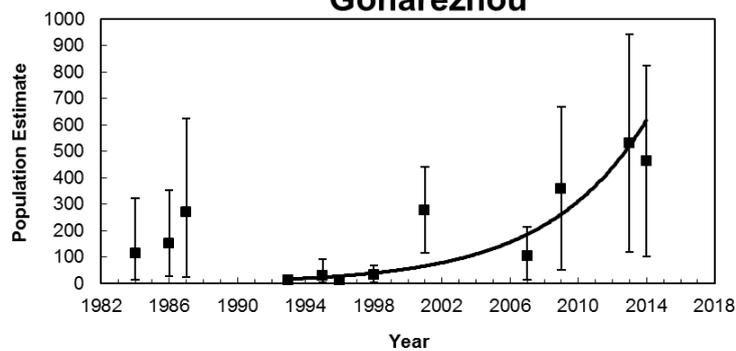
Sebungwe



NW Mat



Gonarezhou



9 ASSESSMENT OF THE ENHANCEMENT AND NON-DETRIMENT FINDINGS

The assessment of the enhancement and non-detrimental findings for lion in Zimbabwe is presented here using the “IUCN SSC GUIDING PRINCIPLES ON TROPHY HUNTING AS A TOOL FOR CREATING CONSERVATION INCENTIVES. VER. 1.0. IUCN SSC (2012)” as a guide. Zimbabwe recognises the importance of these principles to guide and manage trophy hunting as a legal, regulated conservation activity which provides a critical tool to secure a sound social, economic and ecological conservation scenario.

Biological Sustainability: Trophy hunting can serve as a conservation tool when it:

	Principle	Remarks
1	<i>Does not contribute to long-term population declines of the hunted species or of other species sharing its habitat, noting that a sustainably harvested population may be smaller than an unharvested one</i>	Considering the latest available estimate of lion population size in Zimbabwe (1,800 – 2,000), trophy hunting harvests a yearly mean of 2.7% of adult male lions. This figure has decreased since the establishment of age restriction rules on lion hunting. This low offtake is sustainable and generates significant financial and other benefits to ZPWMA, Communities and Private Sector.
2	<i>Does not substantially alter processes of natural selection and ecosystem function; that is, it maintains “wild populations of indigenous species with adaptive gene pools.” This generally requires that hunting offtake produces only minor alterations to naturally occurring demographic structure. It also requires avoidance of breeding or culling to deliberately enhance population-genetic characteristics of species subject to hunting that are inconsistent with natural selection</i>	Safari hunting in does not substantially alter natural selection or ecosystem processes. The limited quota, as further limited by age restrictions, ensures that hunting offtakes do not negatively affect natural processes. This age-based policy was adopted in part to mitigate any social or population impacts from limited safari hunting. (Whitman et al. 2004).
3	<i>Does not inadvertently facilitate poaching or illegal trade of wildlife</i>	Safari hunting in Zimbabwe does not facilitate poaching or illegal trade. Poaching and illegal trade in lion products is currently very low suggesting that the existence of licensed, regulated hunting is helping control poaching and not facilitating it. Hunting operators are in the frontlines against poaching, and are obligated through their concession lease agreements to assistance with anti-poaching. Operators spend significant resources on this, and work in close cooperation with the ZPWMA to combat all forms of illegal wildlife trade. Even where anti-poaching is not a legal prerequisite, operators fund their own anti-poaching teams and support government rangers and community scouts e.g. in Sengwa and Dande Safari Area

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

	Principle	Remarks
4	<i>Does not artificially and/or substantially manipulate ecosystems or their component elements in ways that are incompatible with the objective of supporting the full range of native biodiversity</i>	Hunting in Zimbabwe has created financial incentives for the development and retention of wildlife across Safari Areas, Forestry Areas, Communal CAMPFIRE Areas and private Conservancies thereby supporting biodiversity over 145,000km ² where hunting is a primary land use. Hunting areas on private and communal land outside of the protected areas also serve as buffer zones for many national parks and safari areas which would be converted to other land uses if these were abandoned.

Net Conservation Benefit: Trophy hunting can serve as a conservation tool when it

	Principle	Remarks
1	<i>Is linked to identifiable and specific parcels of land where habitat for wildlife is a priority (albeit not necessarily the sole priority or only legitimate use); and on which the “costs of management and conservation of biological diversity [are] internalized within the area of management and reflected in the distribution of the benefits from the use”</i>	<p>Zimbabwe has identified Safari Areas within the Parks Estates where maintaining habitats and wildlife populations is the priority. These gazetted protected areas cover approximately 17,000km² where, without safari hunting, it would be difficult to secure and maintain natural ecosystems and prey bases for lions. In addition to these areas, lion occur on 66% (approximately 11,000km²) of the land set aside as Conservancies.</p> <p>The operational and law enforcement costs incurred by hunting companies on a yearly basis ranges from US\$300,000 to US\$500,000 per hunting concession, which includes the expense of camps, salaries, anti-poaching, fuel, community assistance, etc. Many of the government’s costs of maintaining Safari Areas are transferred to the private sector through the obligations of their concession agreements.</p> <p>Revenues from hunting in communal CAMPFIRE areas are used to support a range of social services (e.g. schools, clinics, irrigation schemes etc.) while operators cover the costs of anti-poaching, maintenance and development, and contributions to communities living nearby (e.g. through boreholes, grinding mills etc.).</p>

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

		<p>In private hunting areas and conservancies, the costs and benefits of wildlife in the area are internalized and distributed within the area of management. Critically, most of the Conservancies have elected to manage and conserve endangered species, such as black rhino, and offset the costs of this by conducting sustainable hunting of lion and other key trophy species.</p>
2	<p><i>Produces income, employment, and/or other benefits that generate incentives for reduction in pressures on populations of target species, and/or help justify retention, enhancement, or rehabilitation of habitats in which native biodiversity is prioritized. Benefits may create incentives for residents to co-exist with such problematic species as large carnivores, herbivores competing for grazing, or animals considered to be dangerous or a threat to the welfare of humans and their personal property</i></p>	<p>Hunting produces direct and indirect income, employment, and other benefits that generate incentives that reduce the threats to wildlife populations. Approximately US\$44 million accrued to the country from the revenues of trophy hunting over the last two years. This could have been 5% higher if it were not for restrictions on the export of elephant and lion trophies. This revenue pays for the daily wildlife conservation work in all sectors of the wildlife industry, including research projects, surveys, anti-poaching, and other services. Of this amount, approximately 20% is paid directly to the ZPWMA which is then used to support its management activities, including anti-poaching budgets.</p> <p>Local communities benefit from hunting income through leasing the right to hunt and the sale of trophy fees in CAMPFIRE areas as well as from voluntary contributions and meat. Over the last 6 years, payments from hunting operations generated approximately US\$16 million.</p> <p>The nature of the hunting industry does not require large numbers of people to be employed. Nonetheless, the average hunting company employs approximately 80 people on a permanent basis and 20 on a seasonal basis. This equates to approximately 3,000 people who would not otherwise secure any form of employment because of the lack of opportunities in the remote areas where hunting takes place.</p>
3	<p><i>Is part of a legally recognized governance system that supports conservation adequately and of a system of implementation and enforcement capable of achieving these governance objectives</i></p>	<p>All wildlife species in Zimbabwe, including the African lion, are protected under the Parks and Wildlife Act of 1996 (Chapter 20:14) as amended by Act Number 19 of 2001 which came into operation on the 1st of June 2002 through a Statutory Instrument 144C of 2002. The Act that was originally passed by Parliament in 1975 was a unique move in Africa, if not globally, that promoted the rapid development of the country's wild life industry and lead to the partial</p>

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

		<p>extension of the principle to the Communal Lands through the Communal Areas Management Programme for Indigenous Resources (CAMPFIRE) in the 1980s. The Act provided a legal basis for the devolution of Authority through granting Appropriate Authority Status to the communal areas to manage the wildlife resources for their own benefit. The Act was subsequently revised in 1996 and 2001 with the latest revision paving the way for the establishment of the current Parks and Wildlife Management Authority to replace the former Department of National Parks and Wild Life Management. Following the introduction of the Parks and Wild Life (General) (Amendment) Regulations, 1998 (No.2), i.e. Statutory Instrument 26 of 1998, the administration of the wildlife industry experienced increasing centralisation of controls on wildlife management and utilisation on alienated and communal land.</p> <p>The Parks and Wildlife Management Authority is mandated by the Parks and Wildlife Act [Chapter 20:14], with the responsibility of conserving Zimbabwe’s wildlife heritage through effective, efficient and sustainable protection and utilisation of natural resources for the benefit of present and future generations. The Authority was established to allow it to retain the revenue that it generates to fund its operations and thereby reducing its dependence on Treasury. This entailed introducing a commercial dispensation and putting in place effective revenue generation and financial management systems. The ZPWMA has the mandate to manage the entire wildlife population of Zimbabwe, whether on state, private and communal land.</p>
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Socio-Economic-Cultural Benefit

	Principle	Remarks
1	<p><i>Is premised on appropriate resource assessments and/or monitoring of hunting indices, upon which specific quotas and hunting plans can be established through a collaborative process. Optimally, such a process should (where relevant) include local communities and draw on local/indigenous knowledge. Such resource assessments (examples might include counts or indices of population performance</i></p>	<p>Zimbabwe implements an adaptive quota setting quota system that uses inputs from monitoring data and input from a variety of stakeholders including ZPWMA field and research staff, local communities, hunting operators, and independent biologists. Quotas are set based on population estimates or trend analyses, monitoring data, hunt return data, research work and indices as may be reflected in various reports by field personnel.</p>

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	<p><i>such as sighting frequencies, spoor counts) or hunting indices (examples might include trophy size, animal age, hunting success rates and catch per hunting effort) are objective, well documented, and use the best science and technology feasible and appropriate given the circumstances and available resources</i></p>	<p>For lions, specifically, the ZPWMA together with the Safari Operators Association (SOAZ), the Zimbabwe Professional Hunters Association (ZPHGA) and invited independent scientists (such as Panthera) review the returns from the current hunting season and assign points as per the lion aging criteria.</p> <p>The overall quotas allocated and actual offtake have been reduced in recent years as a precautionary measure, including implementing moratoriums in some regions where lion densities have declined. These measures, i.e., age, population trends, maximum overall numbers and levels of utilisation has resulted in lower quotas thus underlining Zimbabwe’s commitment to sustainable hunting.</p>
2	<p><i>Involves adaptive management of hunting quotas and plans in line with results of resource assessments and/or monitoring of indices, ensuring quotas are adjusted in line with changes in the resource base (caused by ecological changes, weather patterns, or anthropogenic impacts, including hunting offtake)</i></p>	<p>Quotas are set adaptively in line with the results of monitoring trends and on regulatory compliance. If an underage lion is harvested, the quota for that area is removed in the next season to allow the population to age and to penalize the non-compliance. In this way, Zimbabwe ensures responsible and sustainable offtakes that have limited impact on the lion population.</p>
3	<p><i>Is based on laws, regulations, and quotas (preferably established with local input) that are transparent and clear, and are periodically reviewed and updated</i></p>	<p>Safari hunting in Zimbabwe is regulated through the National Parks and Wildlife Act and supporting Regulations that specify when, where and how animals are hunted. Both the professional hunters and the hunting client are licensed in terms of these regulations, and all returns are lodged electronically and tracked through the Reserve Bank TRAS-2 system. As described above, quotas are established in a transparent and participatory way.</p>
4	<p><i>Monitors hunting activities to verify that quotas and sex/age restrictions of harvested animals are being met</i></p>	<p>The monitoring of the lion hunting is carried out through the implementation of a specific database and a specific safari return form. All hunting permits issued by (and compulsorily returned to) the ZPWMA are registered on a specific database that has been developed under the auspices of the Exchange Control Division of the Reserve Bank that records all parameters related to hunting safaris, including records of lion hunting. The database is accessible to the ZPWMA who can extract reports on all lion hunting activities for all areas in the country.</p> <p>Since 2013, all professional hunters conducting lion hunting safaris are required to fill in the return form for both successful and unsuccessful safaris that</p>

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		<p>captures a broad range of general information on the safari (client name, duration, date, payments etc. For the successful lion hunting safaris, additional information related to hunting effort and success, trophy skull measures (total length and width) and specified photographs are taken of the physical features (mane etc.) and upper and lower jaws. These return forms and trophy photographs are compulsory. No CITES export permit can be issued without compliance.</p> <p>All data forms are reviewed by the ZPWMA together with a committee appointed by the SOAZ and ZPHGA to ensure the offtakes and subsequent exports are not detrimental to the survival of the species. Zimbabwe also requires that a ZPWMA ranger accompany all lion safaris both on state land and private land.</p>
5	<i>Produces reliable and periodic documentation of its biological sustainability and conservation benefits (if this is not already produced by existing reporting mechanisms).</i>	<p>The Exchange Control Division of the Reserve Bank publishes a detailed report that summarises all data related to sport hunting. This includes country of origin of clients, gross income from daily rates and trophy fees (by company), average trophy and safari values, and the contribution of key species to the overall income generated through hunting. The ZPWMA also produces annual reports that highlight the performance of the hunting industry, listing the challenges that it faces. It also submits periodic reports to CITES.</p>

Accountable and Effective Governance

	Principle	Remarks
1	<i>Is subject to a governance structure that clearly allocates management responsibilities</i>	The governance structure is described in the Parks and Wildlife Act and its subsidiary regulations that clearly provides for institutional arrangements and administration defining the management responsibilities within the relevant Government Authority.
2	<i>Accounts for revenues in a transparent manner and distributes net revenues to conservation and community beneficiaries according to properly agreed decisions;</i>	The equitable distribution of costs and benefits take into consideration the role of stakeholders in relation to the land category. Benefit sharing to communities under the CAMPFIRE programme is determined through an approved ratio that channels 55% of all income from hunting to the Ward level. This institution is monitored at the local level by the Rural District Councils that guide Ward

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		<p>Wildlife Committees with respect to community projects and services. At national level this is monitored by Ministry of Rural Development, Preservation and Promotion of Culture and Heritage</p> <p>Safari operators contribute substantially and voluntarily, over and above the prescribed fixed contribution, especially where this involves anti-poaching efforts and community developments. They provide funding, equipment and the technical expertise for repairs, transportation, and other social services (schools, boreholes). In addition, hunting companies collaborate with both ZPWMA and District anti-poaching teams to remove snares, participate in serious wildlife crime investigations and arrest poachers.</p>
3	<i>Takes all necessary steps to eliminate corruption;</i>	<p>Anti-corruption efforts in Zimbabwe are governed by the following legislation:</p> <ul style="list-style-type: none"> • The Prevention of Corruption Act (1983); • Public Service Act (1995); • The Ombudsperson Amendment Act (1997); • Anti-Corruption Commission Bill (2004); • The Criminal law (Codification and Reform) Act (2004); • Bank Use Promotion and Suppression of Money Laundering Act (2004); • Criminal Procedure and Evidence Amendment Act (2004); and • Criminal Law (Codification and Reform) Act of 2006 <p>The Zimbabwean Anti-Corruption Commission (ACC) was established after the passing of the Anti-Corruption Commission Bill in June 2004. The Commission is a signatory to the Southern Africa Development Community (SADC) Protocol as well as the African Union (AU) and United Nations Convention on Anti-Corruption.</p>
4	<i>Ensures compliance with all relevant national and international requirements and regulations by relevant bodies such as administrators, regulators and hunters.</i>	<p>The CITES Management Authority of Zimbabwe, the ZPWMA, ensures compliance of safari hunting to CITES guidelines and provisions.</p>

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11 APPENDICES

11.1 ANNEX I: SUMMARY OF NATIONAL PARKS ESTATE, FORESTRY, COMMUNAL AND PRIVATE LAND WHERE LION ARE KNOWN TO OCCUR

1. National Parks Estate

Type of Land	Name of Park	District	Area (hectares)	Presence of lion
NP	Chizarira	Binga	191,000	Yes
NP	Gonarezhou	Chiredzi	505,000	Yes
NP	Matusadonha	Nyaminyami	140,700	Yes
NP	Chimanimani	Chimanimani	17,110	No
NP	Mana Pools	Hurungwe	219,600	Yes
NP	Kazuma Pan	Hwange	31,300	Yes
NP	Hwange	Hwange	1,465,100	Yes
NP	Victoria Falls "A"	Hwange	1,904	No
NP	Victoria Falls "B"	Hwange	436	No
NP	Zambezi	Hwange	56,010	Yes
NP	Rhodes Nyanga	Nyanga	47,150	Migratory
NP	Rhodes Matopos	Matobo	42,400	No
Total Area National Parks (ha)			2,717,710	
Botanical Gardens	Pioneer Reserve	Beitbridge	38	No
Botanical Gardens	Tolo River Reserve	Beitbridge	44	No
Botanical Gardens	South Camp Reserve	Beitbridge	26	No
Botanical Gardens	Chisekera Hot Springs	Chiredzi	95	No
Botanical Gardens	Mawari Raphia Palm	Mt. Darwin	34	No
Botanical Gardens	Tingwa Raphia Pan	Mt. Darwin	290	No
Botanical Gardens	Haroni Forest	Chimanimani	20	No
Botanical Gardens	Rusitu Forest	Chimanimani	150	No
Botanical Gardens	Sebakwe Acacia Karoo	Kwekwe	60	No
Botanical Gardens	Sebakwe Great Dyke	Kwekwe	165	No
Botanical Gardens	Sebakwe Mountain Acacia	Kwekwe	53	No
Botanical Gardens	Mazowe "A"	Harare	43	No
Botanical Gardens	Mazowe "B"	Harare	3	No
Botanical Gardens	Bunga Forest	Mutare	495	No
Botanical Gardens	National Botanic Garden	Harare	67	No

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Type of Land	Name of Park	District	Area (hectares)	Presence of lion
Botanical Gardens	Vumba Botanic Garden	Mutare	200	No
Botanical Gardens	Ewanrigg Botanic Garden	Goromonzi	286	No
Total Area of Botanical Gardens and Botanical Reserves:			2,069	
Sanctuary	Maninii Pan	Chiredzi	300	No
Sanctuary	Melsetter Eland	Chimanimani	1,800	No
Sanctuary	Mbaze Pan	Nkayi	40	No
Sanctuary	Nyamanyetsi (Nyamanechi)	Guruve	2,840	No
Sanctuary	Mushandike	Masvingo	12,900	No
Sanctuary	Rhodes - Bulawayo	Matobo	1,100	No
Total Area Sanctuaries			18,980	
Safari Area	Tuli	Beitbridge and Gwanda	41,600	Yes
Safari Area	Chete	Binga	108,100	Yes
Safari Area	Chipinga (Chipinge)	Chipinge	26,100	No
Safari Area	Malapati (Malipati)	Chiredzi	15,400	Yes
Safari Area	Chinsa	Gokwe	171,300	Yes
Safari Area	Hartley (Chegutu)	Chegutu	44,500	No
Safari Area	Charara	Kariba and Hurungwe	169,200	Yes
Safari Area	Hurungwe	Hurungwe	289,400	Yes
Safari Area	Doma	Makonde	94,500	Yes
Safari Area	Umfurudzi	Shamva	76,000	No
Safari Area	Dande	Guruve	52,300	Yes
Safari Area	Chelvore (Chewore)	Hurungwe	339,000	Yes
Safari Area	Sapi	Hurungwe	118,000	Yes
Safari Area	Deka	Hwange	51,000	Yes
Safari Area	Matetsi	Hwange	295,500	Yes
Total Area of Safari Areas:			1,891,900	
Recreational	Chibwatata	Binga	6	No
Recreational	Kavira	Binga	50	No
Recreational	Lake Kariba	Binga, Nyaminyami and Hwange	287,200	Yes

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Type of Land	Name of Park	District	Area (hectares)	Presence of lion
Recreational	Ngezi	Kadoma	5,800	No
Recreational	Umfuli (Mfurudzi)	Chegutu	12,700	No
Recreational	Lake Robertson (Manyame Lake)	Chegutu, Makonde and Harare	11,200	No
Recreational	Lake Cunningham	Insiza	4,172	No
Recreational	Chinhoyi Caves	Makonde	120	No
Recreational	Manjirenji	Zaka	3,400	No
Recreational	Bangala	Zaka and Masvingo	2,700	No
Recreational	Sebakwe	Kwekwe	2,600	No
Recreational	Robert Mcllwaine (Chivero)	Harare	6,180	No
Recreational	Umzingwane	Umzingwane	1,233	No
Recreational	Kyle (Mutirikwi)	Masvingo	16,900	No
Recreational	Lake Matopos	Matobo	2,900	No
Total Area of Recreational Parks, Lakes and Dams			357,161	

Total Area National Parks (ha)	2,717,710
Total Area of Botanical Gardens and Botanical Reserves:	2,069
Total Area Sanctuaries	18,980
Total Area of Safari Areas:	1,891,900
Total Area of Recreational Parks, Lakes and Dams	357,161
Total Ha	4,987,820

2. Forestry Land

Land	Name	District	Area (ha)	Presence of lion
Forestry Areas	Fuller	Hwange	23,300	Yes
Forestry Areas	Panda Masuie	Hwange	33,500	Yes
Forestry Areas	Kazuma	Hwange	24,000	Yes
Forestry Areas	Mvutu	Hwange	2,100	No
Forestry Areas	Sikumi	Hwange	54,400	Yes
Forestry Areas	Gwayi	Lupane	144,265	Yes
Forestry Areas	Lake Alice	Lupane	39,000	No
Forestry Areas	Ngamo	Lupane	102,900	Yes

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Land	Name	District	Area (ha)	Presence of lion
Forestry Areas	Chisengu	Lupane	4,006	No
Forestry Areas	Glencoe	Lupane	2,050	No
Forestry Areas	Lionhills	Lupane	2,747	No
Forestry Areas	Martin (i)		400	No
Forestry Areas	Martin (ii)		4,400	No
Forestry Areas	Mudima		6,355	No
Forestry Areas	Nyambewa		5,484	No
Forestry Areas	Tandai		5,450	No
Forestry Areas	Tarka		4,343	No
Forestry Areas	Gwampa	Nkayi	47,000	No
Forestry Areas	Chesa	Nkayi	14,250	No
Forestry Areas	Inseze	Nkayi	35,200	No
Forestry Areas	Inseze Extension	Nkayi	8,400	No
Forestry Areas	Umgusa	Nkayi	32,200	No
Forestry Areas	Umzibani	Nkayi	2,471	No
Forestry Areas	Kavira	Binga	28,200	Yes
Forestry Areas	Mzolo	Binga	67,200	No
Forestry Areas	Sijarira	Binga	25,600	Yes
Forestry Areas	Bembesi	Binga	55,100	No
Forestry Areas	Molo	Binga	2,900	No
Forestry Areas	Mtao	Chirumanzu	8,170	No
Forestry Areas	Chirindu	Chirumanzu	950	No
Forestry Areas	Gungunyana	Chirumanzu	1,650	No
Forestry Areas	Mafungabusi	Chirumanzu	82,100	No
Forestry Areas	Mudzongwe	Chirumanzu	1,420	No
Forestry Areas	Ungwe	Chirumanzu	567	No
Forestry Areas	Nyangu	Chirumanzu	16,600	No
Forestry Areas	York	Chirumanzu	1,455	No
Forestry Areas	Banti	Mutare	2,219	No
Forestry Areas	Stapleford	Mutare	24,600	No
Rhodes Estate	Erin	Nyanga	10,700	No
Rhodes Estate	Sauerdale North	Nyanga	214	No

Land	Name	District	Area (ha)	Presence of lion
Total Forest Areas (ha)			927,866	

3. CAMPFIRE Districts

District	Natural Region	Total Area (km ²)	Area of CF Wards (km ²)	Number of Wards	CF Wards	District Pop (persons)	Presence of lion
Beitbridge	5	12,935	4,595	21	6	80,946	Migratory
Binga	3,4&5	12,308	7,930	27	21	87,802	Migratory
Bubi	4	5,547	88	12	2	36,614	Migratory
Bulilimangwe	4&5	12,574	1,530	33	10	156,641	Migratory
Chaminuka	2a,2b,3,4&5	2,752	380	26	2	94,047	No
Chimanimani	1,2a,3,4&5	3,419		28		110,836	No
Chipinge(Gazaland)	1,2a,3,4&5	5,223	408	33	2	336,893	Migratory
Chiredzi(Gaza Khomanani)	5	17,748	3,633	32	9	183,228	Yes
Chiweshe(Mazowe)	2a	4,482	375	29	5	198,319	No
Gokwe North	3,4&5	7,359	2,523	25	4	164,558	Migratory
Gokwe South	3&4	11,138	1,308	28	6	238,581	Migratory
Goromonzi	2a	2,504		26		147,126	No
Mbire (Guruve)	2a,3&4	7,810	4,215	28	14	135,637	Yes
Gwanda	4&5	10,792	2,283	23	6	112,984	No
Hurungwe	2a,3,4&5	19,895	2,793	40	9	246,902	Yes
Hwange	4&5	29,934	4,021	27	15	71,707	Yes
Hwedza	2b&3	998				69,981	No
Kusile(Lupane)	3&4	7,780	2,885	24	11	94,469	Migratory
Marondera	2a&2b	3,554		24		104,601	No
Matobo	4&5	7,278	1,233	26	4	89,281	No
Mudzi	4	4,222	1,009	18	2	109,423	No
Mutoko	2b,3&4	4,052		29		122,941	No
Muzarabani	2a,3&4	4,322	2,540	17	9	69,851	Migratory
Mwenezi	4&5	12,933		31		101,354	Migratory
Nkayi	4	5,333	2,628	23	6	113,302	Migratory
Nyaminyami(Kariba)	4&5	6,327	3,532	16	11	27,717	Yes
Nyanga	1,2b,3&4	5,738	253	37	1	128,439	Migratory
Pfura(Mt. Darwin)	2a,2b,3&4	1,771				164,362	No
Rushinga	3&4	2,408		17		75,332	No
Tsholotsho	4	7,823	5,354	20	8	111,828	Yes
UMP Zvataida	2b,3&4	2,682	619	15	2	86,302	No
Umzingwane	4	1,074				62,954	No

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

District	Natural Region	Total Area (km ²)	Area of CF Wards (km ²)	Number of Wards	CF Wards	District Pop (persons)	Presence of lion
Zivagwe	4	2,363				65,752	No
TOTAL/AVERAGE		247,078	56,135	735	165	4,000,710	

4. Conservancies

	Name of Conservancy	District	Area (hectares)	Presence of lion
Conservancies	Malilangwe	Chiredzi	40,000	Yes
Conservancies	Save	Chiredzi	344,200	Yes
Conservancies	Chiredzi River	Chiredzi	28,500	No
Conservancies	Bubye Valley	Mataberland South	374,000	Yes
Conservancies	Bubiana	Mataberland South	130,000	No
Conservancies	Gwayi	Hwange	150,897	Migratory
Conservancies	Midlands Black Rhino	Midlands	85,000	No
Other	Matetsi Farms	Hwange	155,627	Migratory
Total Area of Conservancies			1,308,224	

11.2 ANNEX II: SUMMARY OF PRIMARY LEGISLATION AND REGULATIONS

11.2.1 The Policy for Wild Life of 1992

This policy provides for Government to maintain a protected area network known as the Parks and Wild Life Estate for the conservation of the nation's wild resources and biological diversity. According to the policy, government will use the Estate to promote a rurally based wild life industry and will harmonise the management of the Estate with the efforts of neighbouring communities that are developing wild life as a sustainable form of land use. The policy vests executive responsibility for the Parks and Wildlife Estate in the Department of National Parks and Wild Life Management (DNPWLM). It provides for the following categories of protected area: National Park; Safari Area; Sanctuary; Recreational Park, Botanic Reserve and Botanic Garden.

- The objectives of the Parks and Wild Life estate will be to:
- Preserve representative samples of Zimbabwe's aquatic and terrestrial flora and fauna and their physical environments;
- Protect areas of scenic beauty and special interest;
- Preserve rare, endangered and endemic species;
- Conserve water catchments;
- Provide opportunities for public education and the advancement of scientific knowledge;

and, without prejudice to any of the above:

- Encourage public use related to the enjoyment and appreciation of these areas; and
- Generate economic activity within the Estate and surrounding areas to enhance rural development.

The policy commits the DNPWLM to an adaptive management strategy in which research and monitoring are incorporated as integral components of management. It states that where sport

hunting is an objective in a protected area, quotas will be set to the maximum sustainable level at which trophy quality can be maintained and the hunting can be marketed. In terms of the policy the emphasis of tourism in parks should be low density and high quality tourism. An EIA must be carried out for major developments such as construction of roads, powerlines, buildings or dams.

With respect to Wildlife Conservation, the Policy states that the Government of Zimbabwe aims to encourage the conservation of wild animals and their habitats outside the Parks and Wild Life Estate recognising that this is only likely to be successful if wild life can be used profitably and the primary benefits accrue to people with wild life on their land. *“Recognising that much of Zimbabwe does not consist of good arable land, Government regards wild life management in all its diverse forms as a legitimate land use which may be the most appropriate or highest-valued form of development in many areas”*. The policy also states that Government will take the necessary legal and enforcement measures to prevent the illegal use of wildlife.

Addressing community rights to natural resources the Policy states that government intends to *“transform land use in remote communal areas through its Communal Areas Management Programme for Indigenous Resources (CAMPFIRE), under which rural peoples have the authority to manage their wild life and other natural resources and benefit directly from so doing”*. Further government will *“ensure that wildlife is not undervalued to the people living with it by permitting them to use it sustainably for their own gain as they are able to do with other natural resources and agricultural products”*.

The policy states that the mechanism for communities to gain rights over wild life will be through the granting of Appropriate Authority to Rural District Councils (under the Parks and Wildlife Management Act of 1975). For this authority to be granted, the Minister will require:

1. An acceptable management plan from councils in which objectives for wild life are stated and preliminary intentions for achieving these objectives are outlined;
2. An acceptable institutional plan which outlines clearly the methods by which councils intend a) to involve wild life producer communities in district level management and b) to devolve the decision-taking process in local wild life management and the distribution of wild life benefits to producer communities;
3. The department to assist councils in managing their wild life and to coordinate the activities of NGOs who are assisting councils;
4. The approval by the department of all annual quotas of wild life killed or sold in communal lands during the interim period while councils develop their management capacity;
5. The presentation of annual reports from Councils to the Director and to their constituents detailing the year’s performance in wild life management in their district.

The policy provides for the Minister to withdraw Appropriate Authority from a council not conforming to conditions and objectives under which it was granted.

11.2.2 Wildlife Based Land Reform Policy

In 2004 there was a move to revise the Policy for Wildlife to cater for the Land Reform programme. The revised policy, known as the Wildlife-Based Land Reform Policy, has not however been formally accepted by Government. Nonetheless, it is important to summarise what was envisioned at that time since this has influenced the way the management of wildlife outside of the Parks Estate has unfolded.

The vision of this reformed policy is to ensure profitable, equitable and sustainable use of wildlife resources, particularly in areas where agricultural potential is limited. It states that *“the policy has*

been developed in the context of Zimbabwe's Land Reform Programme and is underpinned by recognition that wildlife is a viable land-use option, that it can facilitate attainment of equity objectives and that it is feasible. This policy is complemented by existing natural resources legislation and the state protected area system."

The policy also states that the key issues that were taken into consideration were:

- The State will continue to make provision for wildlife management outside the protected area system, including setting aside certain core zones for wildlife production. Wildlife should be the only permitted primary land use option in these areas.
- Outside core zones, wildlife production, amongst other land use options, will be encouraged. The most profitable and ecologically sustainable land use option must be allowed to evolve in response to changing economic influences, notwithstanding the need to ensure food security in these areas.
- The scale of wildlife operations must be allowed to vary from intensive to extensive, depending on agro-ecological settings.
- All beneficiaries of wildlife operations, whether individually or jointly, must equitably share the costs of production.
- Wildlife management responsibility and authority must be devolved to the most appropriate level for efficient resource management and production incentives must be maximized for landholders.
- Security of tenure over resources is key to successful wildlife-based land reform. These core areas should be identified.

The aims of the Wildlife-Based Land Reform Policy are listed as:

1. To facilitate the indigenisation of the wildlife sector and to ensure more equitable access by most Zimbabweans to land and wildlife resources and to the business opportunities that stem from these resources.
2. To maintain a proportion of land outside state protected areas under wildlife production.
3. To enhance diversity of land uses through wildlife production.
4. To promote secure and equitable tenure.
5. To develop and implement appropriate institutional arrangements for wildlife-based land reform.

The policy recognized that wildlife production can be at different scales, which are dependent on several factors that include the type of wildlife, management regime and ecological conditions. Three categories are highlighted in the policy:

1. Intensive production systems with captive or semi-captive species such as crocodiles and ostriches (1 – 100 hectares).
2. Semi-intensive to semi-extensive production systems with free-ranging "plains game" populations (1,000 to 10,000 hectares).
3. Extensive production systems incorporating "big game" populations (over 10,000 hectares).

The Wildlife Based Land Reform Policy promotes two land redistribution models:

1. A state leasehold approach which is based on the reallocation of leasehold leases.
 - a. This approach entails the acquisition of the entire land-holding with compensation for infrastructure, wildlife, etc.,

- b. The land will be reallocated to lessees under terms and conditions that will ensure sustainable wildlife management, on-going investment and capacity-building in that area.
2. A corporate equity model that involves transfer of shares within a land-owning company.
 - a. The transfer of shares will be in accordance with the Indigenisation goals and sound business principles;
 - b. Proposals from stakeholders must outline realistic ways in which new entrants can increase their shareholdings well beyond an initial level, over a reasonable time scale.
 - c. The proposals must make provision for immediate allocation of shareholdings to new participants.

The Policy document also acknowledges that the two approaches can be applied in combination and shall be considered on a case by case basis, and that the State may from time to time consider other approaches that meet the objectives of the Wildlife Based Land Reform Policy.

11.2.3 Parks and Wild Life Act Chapter 20:14 of 1996 as amended in 2001:

This is the pivotal Act with respect to wildlife management in Zimbabwe. The Act includes the following sections:

1. Parks and Wildlife Board
2. Parks and Wildlife Estate and Parks and Wildlife Land
3. National Parks
4. Botanical Reserves and Botanical Gardens
5. Sanctuaries
6. Safari Areas
7. Recreational Parks
8. Specially Protected Animals
9. Specially Protected Indigenous Plants
10. Indigenous plants
11. Hunting, removal, viewing and sale of animal products
12. Protection of animals and Indigenous plants on alienated land
13. Fish Conservation
14. Evidence, prevention and detection of offences and additional penalties and forfeitures
15. Inspectors, Officers, employees and advisory committees
16. General

The Act also defines the different types of land (Alienated land):

- a. "Private Land" means land the ownership of which is vested in any person other than the President.
- b. "State Land" means land vested in the President other than Communal Land or trust land vested in the President.
- c. "Trust land" means any land, other than Communal land held in trust by the President or a statutory body or by a person, whether solely or jointly with others, by virtue of his being the holder of some office in a statutory body.

The Parks and Wildlife Act of 1975 (as amended) states that the purposes of National Parks are:

1. To preserve and protect the natural landscape and scenery.
2. To preserve and protect wild life and plants and the natural ecological stability of wild life and plant communities for the enjoyment, education and inspiration of the public.

Establishment of Protected Areas: The Act enables the President to declare National Parks on State land or Trust Land if the trustees give their consent (Section 22). The Act enables the Minister acting on the authorisation of the President to acquire land for the Parks and Wild Life Estate either compulsorily or by agreement in terms of the procedures contained in the Communal Land Act and the Land Acquisition Act. The Act gives the Minister the power to manage National Parks, control entry and authorise or restrict certain activities and carry out various conservation measures. The Act provides for the provision of facilities and services for tourists in National Parks or to lease out such facilities or services. The Act allows the Minister to issue a permit for hunting in National Parks.

The Act makes provision for the establishment of Botanical Reserves and Botanical Gardens (Section 26) on State Land or Trust Land for the preservation and protection of rare or endangered indigenous plants or representative plant communities for the enjoyment, education and benefit of the public.

A third category of protected area is a Sanctuary which may be established by the President on State Land or Trust Land (Section 31) to afford special protection to all animals or a particular species of animal in the sanctuary for the enjoyment and benefit of the public. The Minister may provide tourism facilities and services in a Sanctuary or lease facilities or services. The Minister may also issue permits for hunting or the removal of game from a sanctuary for certain purposes.

In terms of the Act the President may establish Safari Areas on State Land or Trust Land as part of the Parks and Wild Life Estate (Section 36) for the preservation and protection of the natural habitat and the wild life in these areas in order that facilities and opportunities may be afforded to the public for camping, hunting, fishing, photography, viewing of animals, bird watching and similar activities. The Minister may lease sites in safari areas for various purposes and may grant hunting or other rights. Hunting or removal of wildlife in a safari area may only take place with a permit.

The fifth category of protected area provided for by the Act is a Recreational Park (Section 41), which may be established by the President for the purpose of preserving and protecting the natural features for the enjoyment, benefit and recreation of the public. The Minister may designate areas within Recreational Parks which can be alienated or leased for the provision of tourism facilities and services.

Prospecting and mining are prohibited in National Parks, Botanical Reserves, Botanical Gardens, Sanctuaries or Recreational Parks without a permit issued by the Minister and with the consent of the Minister of Mines (Section 119). The Environmental Management Act of 2002 also makes provision for land to be acquired by the State for conservation purposes. According to Section 109 the President may acquire land or set land aside for the improvement or proper management of the environment. In the absence of an agreement with the land owner the President may acquire the land in accordance with the procedures under the Land Acquisition Act. The President may set aside any area of Communal Land for the conservation or improvement of natural resources or for the protection of irrigation works or sources of water supplies provided that no such area shall be set aside until the Minister responsible for the administration of the Communal Land Act is satisfied that suitable provision has been made elsewhere for the inhabitants who will be affected by the setting aside of the area (Section 110).

Specially Protected Animals and Plants: The Act makes provision for the Minister to declare certain animals as specially protected (Section 44). In terms of the Act, no-one may hunt, have in their possession, or sell a live specially protected animal or the meat or trophy from such an animal without a permit. The trophy of any specially protected animal must be surrendered to the state if not obtained by a permit. The Act specifies the purposes for which the Minister may issue a permit for use of

specially protected animals (Section 46), but provides the Minister with some flexibility as he/she may issue a permit for any purpose which in the opinion of the Minister is in the interests of the conservation of animals.

The Act also makes provision for the declaration of specially protected indigenous plants (Section 49). No person may pick a specially protected plant without a permit, although the owners or occupiers of land or a person acting under their authority may pick a specially protected plant for cultivation, forestry, building construction or the construction of roads and other infrastructure. No person may sell a specially protected plant without a permit unless the person is a recognised dealer in specially protected indigenous plants or a member of a recognised horticultural society and the purchase is from a member of the same or other recognised society. The Act specifies the purposes for which the Minister may issue permits for the picking or sale of specially protected indigenous plants. The Act also stipulates that no person may pick or sell indigenous plants without a permit (Section 55) provided that the appropriate authority for any land may pick or sell or authorise others to pick or sell indigenous plants (Section 56). If the Minister deems it necessary for the conservation of an indigenous plant, the Minister may prohibit the picking or selling of that plant (Section 57).

Hunting and removal of animals: The Act prohibits hunting, removal of an animal or any part of an animal or the sale of an animal without a permit unless by an appropriate authority for the land (Section 59), which is the owner of freehold land, a Rural District Council on communal land, the Forestry Commission on state forests and the DNPWLM on the parks and Wildlife Estate. The appropriate authority for the land may issue permits to others to use the wild life (except for specially protected species). If the Minister deems it necessary for the conservation of an animal, he/she may prohibit the hunting or removal of such animals in a specific area (Section 60) and may serve a notice to prohibit a specific person from hunting, conducting photographic tourism, or being in the possession of a weapon used for hunting save for self-defence. The Minister does not have to give reasons for such prohibitions. The Act enables the killing of an animal without a permit for self-defence (Section 61).

The Act prohibits anyone from conducting of hunting or photographic safaris within the parks and wild life estate or on forest land without holding a professional hunter's licence or a professional guide's licence (Section 65). No person may manufacture an article from a trophy, process a trophy or sell or otherwise dispose of a trophy or an article manufactured from a trophy from an animal that has been hunted in contravention of the Act (Section 73).

If the Minister believes it in the interests of conservation, he/she may declare any animal that is not a specially protected animal as a protected animal and any indigenous plant that is not a specially protected plant as a protected plant (Section 77) on alienated land within the area of an environment committee established in terms of the Environmental Management Act of 2002 and the Rural District Councils Act of 1988. No person may, without a permit, hunt an animal or pick an indigenous plant that has been declared protected. The Minister may also restrict the extent of hunting animals or picking of indigenous plants on alienated (private freehold) land in the area of an environment committee if the Minister believes that the hunting of animals or picking of plants is unsustainable. The Minister may authorise an environment committee to reduce the numbers of problems animals on any alienated land within its area if the number of such animals is sufficient to cause excessive damage or nuisance. Section 79 gives environment committees the power to restrict hunting on alienated land if it believes that hunting is unsustainable.

The Minister may declare any person to be the appropriate authority for any waters (Section 83) and may declare controlled fishing waters (Section 84) for which the Minister may make regulations for

the control, regulation, restriction or prohibition of fishing. Unless the Minister designates areas of water where a permit is not required, no-one except the appropriate authority for that water may fish in any water without a permit. Section 87 regulates the means of fishing by prohibiting the use of explosives, firearms and poisons. Section 88 controls the introduction into any water of fish and plants that are not native to that water. No-one except the appropriate authority for a water may fish commercially and sell the fish without a permit (Section 90). The minister may ban fishing by specific persons in any area in the interests of conservation (Section 96).

Enforcement: The Act provides for the powers of conservation officials, and police officers in relation to enforcing the Act. It provides for penalties for various offences and for the Minister to make regulations on a wide range of issues and activities. The Act provides for the highest penalties to be awarded for the unlawful killing of a rhinoceros or other specially protected game specified by the Minister in an official notice and for the unlawful possession or trade in rhino horn, ivory or the trophy of any other specially protected animal specified by the Minister in an official notice (Section 128).

The Environmental Management Act of 2002 provides the Minister responsible for the Environment to regulate the use of wetlands. In terms of Section 113 of the Act the Minister may declare any wetland to be an ecologically sensitive area and may impose limitations on development in or around such area. Further, no person may without authorisation in terms of the Act:

- a. reclaim or drain any wetland;
- b. disturb any wetland by drilling or tunnelling in a manner that has or is likely to have an adverse impact on any wetland or adversely affect any animal or plant life therein;
- c. introduce any exotic animal or plant species into the wetland. Section 114 enables the Minister to serve an order on the owner, occupier or user of land under which they must take measures, construct such works or refrain from specific activities in order to protect the environment.

Biological Diversity: Further the Act enables the Minister to take such measures as may be necessary for the conservation of biological diversity and the implementation of Zimbabwe's obligations under the United Nations Convention on Biological Diversity adopted in 1992 and may, in so doing (Section 116):

- a. identify the components of the biological diversity of Zimbabwe;
- b. determine the components of biological diversity which are threatened with extinction;
- c. prepare and maintain an inventory of the biological diversity of Zimbabwe;
- d. determine actual and potential threats to the biological diversity and devise such measures as are necessary for preventing, removing or mitigating the effect of those threats;
- e. devise measures for better protection and conservation of rare and endemic species of wild fauna and flora;
- f. develop national strategies, plans and programmes for the conservation of the biological diversity of Zimbabwe;
- g. promote the integration of conservation and sustainable use of biological diversity into relevant sectoral policies, plans and programmes;
- h. require in writing any developer, including the government, to integrate the conservation and sustainable utilisation of the biological diversity in any project the implementation of which has or is likely to have detrimental effects to the biological diversity of Zimbabwe;
- i. protect indigenous property rights of local communities in respect of biological diversity with scientific knowledge;

- j. support the integration of traditional knowledge on conservation of biological diversity with scientific knowledge;
- k. prohibit or restrict access by any person to or the exportation of any component of the biological diversity of Zimbabwe.

The Minister may also take such action or measures as may be necessary for the conservation of the biological diversity of a specific locality and may:

- a. promote such land use methods as are compatible with the conservation of the biological diversity of that locality;
- b. select and manage environmental protection areas for the conservation of the various terrestrial and aquatic ecological systems;
- c. establish and manage buffer zones near environmental protection areas;
- d. prohibit or control the importation of and introduction into the wild of exotic animal and plant species;
- e. identify, promote and integrate traditional knowledge into the conservation and sustainable utilisation of the biological diversity of that locality; and
- f. determine special measures for the protection of species, ecosystems and habitats faced with extinction.

Community rights to natural resources: The Act provides for land holders to acquire rights over wildlife through the granting of “appropriate authority” status. Thus, the owners of private freehold land are deemed to be the appropriate authority over wildlife on their land (Section 2). Communities acquire rights over wildlife through Rural District Councils (RDCs). A 1982 amendment to the Act provides for the Minister to appoint an RDC as the appropriate authority for wild life on the communal land within the jurisdiction of the RDC (Section 108). The Act states that no person may hunt any animal on any land or remove any animal or part of an animal except in term of a permit issued by the appropriate authority for that land [Section 59(2)]. The appropriate authority may hunt any animal on the land, remove any animal or part of an animal from the land and may issue permits to others to hunt or remove animals from the land. RDCs are then expected to apply the guidelines contained in the 1992 Wildlife Policy to devolve the decision-taking process in local wild life management and the distribution of wild life benefits to producer communities (i.e. smaller and more localised groups of people with wildlife on their land). Further policy guidelines state that RDCs are expected to distribute a percentage of income derived from wildlife use to producer communities and to allow these communities to be responsible for several wildlife management activities. Because of the existing administrative system of local government, producer communities had to be represented by Ward Development Committees (WADCOS) and Village Development Committees (VIDCOs) which are advisory bodies to Councils.

In this way, various legal entities are granted authority over wildlife outside the Parks Estate. These authorities include private land-owners (where the land is held under an agreement of purchase or lease), forest land (such as Forestry Commission estates). For Communal Land, the Rural District Councils (RDC) may be appointed the Appropriate Authority. The Minister of Environment grants this authority, with input from the Zimbabwe Parks and Wildlife Management Authority. If appropriate authority is not granted, the authority remains vested in Central Government. This Appropriate Authority clause in the Act, paved the way for the implementation of the Communal Areas Management Programme for Indigenous Resources (CAMPFIRE)³.

Statutory Instruments: There are several statutory instruments (SI) that regulate the wildlife sector:

³ Note that the CAMPFIRE programme is about to undergo a comprehensive review that will impact on future policies.

- SI 362 of 1990: This legislation provides in sections 66-75 for the Regulation of Manufacture, Processing and Dealing in trophies.
- SI 76 of 1998: Parks and Wild Life (Import and Export) (Wild Life) Regulations specifically deals with Import and Export of wildlife products. This legislation was enacted to ensure compliance with CITES requirements for export and import of wild flora and fauna. These provide for the following:
 - Section 3 deals with the Control of Import and Export of wild life and trophies and lays down a general prohibition on the import into or export from Zimbabwe of any “wild life” or trophy of “wild life” except in accordance with either a certificate issued in terms of section 5 by the Director or Director of Customs, or an open general permit:
 - Section 5 deals with Permits and Certificates and is consistent with CITES legislation.
 - Section 15 deals with Offences and Penalties. Any person who contravenes any of the provisions of subsection 1 shall be guilty of an offence, and liable to a fine or imprisonment. To effectively ensure compliance, the Zimbabwe Parks and Wildlife Management Authority deployed a permanent team of officers based at all ports of exit and entry to assist border control officials in monitoring and inspection of all wildlife exports.
- SI 26 of 1998: The regulation provides for the monitoring of all hunting activities in the country to ensure compliance by all Safari Operators and international clients and to ensure that the TR2 Form. (Tourism Hunting Return Form) is duly completed.
- Trapping of Animals (Control) Act Chapter 20:21: The Act provides for the control, restriction and regulation of the construction, possession and use of certain traps for the purpose of trapping animals; to control the sale and disposal of certain animals, to include lions and to provide for matters incidental to or connected with the foregoing.
- SI 92 of 1992: Parks and Wild Life (Payment for Hunting of Animals and Fish) Notice, 2009: This instrument provides for compensation values of various wildlife forms to include animals and fish. It acts as an additional deterrent measure in matters where poaching cases are being dealt with in accordance with the law. The compensation value for illegal hunting of lion is USD 5 000, 00.
- SI 93 of 2009: Parks and Wild Life (Payment for Trapping of Wild Animals) Notice, 2009. This instrument provides for the payment of compensation to the state or game owners in the event that one is convicted for illegally trapping wild animals on various land categories. The compensation value for illegal hunting of lion is USD 5 000, 00.
- SI 40 Of 1994: Parks and Wildlife (Appropriate Authorities for Communal Land) Notice, 1994. This SI facilitates the granting of Appropriate Authority status to various Rural District Councils. This legislation devolved authority to Rural District Councils and gave rights to local communities to sustainable utilize wildlife and other natural resources in their areas of jurisdiction.

11.2.4 The Rural District Councils Act Chapter [29:13] 2002

The Rural District Councils Act is important in the wildlife sector as it provides for a legal entity (in Communal Lands) responsible for wildlife resources. Since the land in Communal areas is not privately owned by the communities and given that most of the communities do not constitute a legal entity, the Appropriate Authority status is conferred to the Rural District Councils (RDCs). Thus the RDCs act as custodians of the wildlife resources on behalf of the communities.

Efforts are now underway in some areas to form Community Development Trusts. There is scope for these Community Development Trusts to be used as vehicles to further devolve authority from the District level to the sub-district level, which will provide more income at a community level and therefore increase conservation support from the community as they will have a true vested interest.

The feasibility of granting Appropriate Authority to these Trusts in Zimbabwe needs to be assessed and piloted. The major challenge with these Trusts is that of financial sustainability as they do not have adequate funds to cater for their activities. Capacity-building of all Trust members is also a key requirement to ensure institutional sustainability.

In the Rural District Councils Act, there are three key terms that will be described further: Ward, Ward Development Committee and Communal Land. According to the Act, a “Ward” (an administrative unit) means a ward into which a council area is divided or re-divided. Several villages make up a ward. In the Act, a “Ward Development Committee” means a village development committee established in terms of Section 58 of the Act. A Ward Committee is made up of members who are elected from the community to represent the community in discussions/meetings with the Rural District Council. The Act further defines three different types of Wards. These are, Commercial Ward, Communal Ward and Resettlement Ward. The Commercial Ward is a large-scale commercial ward or a small-scale commercial ward. A Communal Ward is a ward consisting wholly or mainly of Communal Land. A Resettlement Ward is a ward consisting wholly or mainly of Communal Land (as in the case of the Communal Ward). It is important to establish whether in practice, the RDCs make this distinction of the wards or whether they are all considered simply just as wards.

The “Communal Land” is defined as any land that is Communal Land in terms of the Communal Land Act [Chapter 20:04]; and any other land that was within the area of a district council on the 19th August 1988.

11.2.5 The Forest Act of 1948

This Act establishes the Forestry Commission and places demarcated forests under its control. The commission is responsible for the control, management and exploitation of state forests including the leasing of timber harvesting rights. The Act also gives the Minister the power to regulate the commercial use of timber from indigenous trees on other land.

As the appropriate authority for the Forest Areas, the Commission is also responsible for the management and conservation

11.3 ANNEX III: ANALYSIS OF TOTAL REVENUE BY COUNTRY OF DESTINATION

Destination	2014	2015	Total
United States	\$14,485,835	\$11,942,785	\$26,428,620
Russian Federation	\$1,444,729	\$861,925	\$2,306,654
China	\$1,416,196	\$441,759	\$1,857,955
Germany	\$1,100,534	\$698,450	\$1,798,984
Canada	\$620,852	\$474,935	\$1,095,787
South Africa	\$513,070	\$576,035	\$1,089,105
France	\$825,975	\$158,291	\$984,266
Australia	\$671,527	\$259,136	\$930,663
Spain	\$488,616	\$321,064	\$809,680
Austria	\$519,322	\$201,073	\$720,395
India	\$302,653	\$241,741	\$544,394
United Kingdom	\$357,317	\$183,888	\$541,205
Italy	\$181,956	\$343,197	\$525,153
Hungary	\$418,824	\$104,262	\$523,086
Mexico	\$252,263	\$266,543	\$518,806

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Destination	2014	2015	Total
Norway	\$300,645	\$119,831	\$420,476
Denmark	\$132,690	\$194,435	\$327,125
Switzerland	\$171,991	\$123,828	\$295,819
Sweden	\$196,575	\$80,014	\$276,589
Ukraine	\$80,432	\$163,604	\$244,036
Czech Republic	\$104,450	\$137,456	\$241,906
Neatherlands	\$89,042	\$105,227	\$194,269
Nigeria	\$171,830	\$0	\$171,830
Bulgaria	\$21,865	\$123,469	\$145,334
Argentina	\$106,529	\$24,888	\$131,417
Finland	\$65,768	\$63,223	\$128,991
Brazil	\$56,785	\$59,886	\$116,671
Honduras	\$104,683	\$0	\$104,683
Poland	\$38,911	\$62,015	\$100,926
New Zealand	\$17,880	\$81,127	\$99,007
Mauritius	\$56,225	\$36,945	\$93,170
Chile	\$91,374	\$0	\$91,374
Belgium	\$9,340	\$80,355	\$89,695
Portugal	\$78,470	\$0	\$78,470
Columbia	\$77,944	\$0	\$77,944
Slovakia	\$69,420	\$0	\$69,420
Botswana	\$59,401	\$0	\$59,401
Pakistan	\$54,208	\$0	\$54,208
Namibia	\$20,298	\$18,862	\$39,160
Latvia	\$37,611	\$0	\$37,611
Estonia	\$12,078	\$23,586	\$35,664
Slovenia	\$20,620	\$11,200	\$31,820
Kenya	\$14,302	\$16,957	\$31,259
Dominican Republic	\$30,463	\$0	\$30,463
Belarus	\$0	\$29,430	\$29,430
Kazakhstan	\$0	\$28,460	\$28,460
Romania	\$0	\$20,112	\$20,112
United Arab Emirates	\$19,629	\$0	\$19,629
Lao Peoples Democratic Republic	\$15,000	\$0	\$15,000
Bolivia	\$0	\$11,553	\$11,553
Lithuania	\$9,164	\$0	\$9,164
Costa Rica	\$5,900	\$0	\$5,900
Qatar	\$4,896	\$0	\$4,896
Grand Total	\$25,946,088	\$18,691,547	\$44,637,635

11.4 ANNEX IV: ANALYSIS OF TOTAL REVENUE BY SPECIES

Species	\$2,014	\$2,015	Total	2015 Quota	Utilised	% Utilised
Buffalo	\$2,528,559	\$1,962,570	\$4,491,129	1,635	482	29%
Elephant (Tusks)	\$2,042,610	\$1,447,090	\$3,489,700	246	64	26%
Elephant (Tuskless)	\$1,444,040	\$229,860	\$1,673,900	462	113	24%
Lion	\$630,950	\$753,000	\$1,383,950	82	49	59%
Leopard	\$714,100	\$668,490	\$1,382,590	530	151	28%
Zebra	\$594,239	\$555,744	\$1,149,983	2,480	600	24%
Sable	\$456,615	\$309,260	\$765,875	718	78	11%
Kudu	\$341,092	\$357,963	\$699,055	2,503	289	12%
Waterbuck	\$293,903	\$256,133	\$550,036	988	156	16%
Hippo	\$310,321	\$217,470	\$527,791	303	83	27%
Impala	\$277,198	\$242,624	\$519,822	8,594	1,261	15%
Crocodile	\$284,650	\$202,705	\$487,355	211	70	33%
Eland	\$179,470	\$187,990	\$367,460	1,659	132	8%
Wildebeest	\$180,665	\$170,350	\$351,015	2,189	220	10%
Giraffe	\$158,385	\$157,410	\$315,795	880	135	15%
Nyala	\$130,840	\$117,175	\$248,015	174	38	22%
Bushbuck	\$116,011	\$94,936	\$210,947	1,082	125	12%
Warthog	\$98,975	\$89,820	\$188,795	3,060	208	7%
Hyeana	\$75,648	\$54,503	\$130,151	1,702	118	7%
Klipspringer	\$44,130	\$40,441	\$84,571	823	59	7%
Bush Pig	\$18,226	\$30,370	\$48,596	1,972	69	3%
Tsessebe	\$19,800	\$19,500	\$39,300	186	15	8%
Baboon	\$24,909	\$13,664	\$38,573	8,017	264	3%
Reedbuck	\$23,265	\$12,731	\$35,996	371	20	5%
Steenbok	\$13,790	\$15,070	\$28,860	927	31	3%
Jackal	\$9,656	\$15,889	\$25,545	2,179	105	5%
Civet	\$8,850	\$11,368	\$20,218	1,034	29	3%
Grysbok	\$9,435	\$8,585	\$18,020	632	31	5%
Eland	\$16,750	\$0	\$16,750	1,659	132	8%
Genet	\$6,020	\$14,183	\$20,203	1,136	38	3%
Duiker, Grey	\$2,774	\$12,523	\$15,297	2,005	53	3%
Duiker, Blue	\$7,991	\$0	\$7,991	-	-	-
Honey Badger	\$3,681	\$3,625	\$7,306	622	15	2%
Wild Cat	\$3,160	\$4,180	\$7,340	812	19	2%
Guinea Fowl	\$5,496	\$968	\$6,464	29,174	121	0%
Porcupine	\$4,123	\$1,473	\$5,596	857	9	1%
Serval	\$2,670	\$2,410	\$5,080	536	6	1%
Egyptian Goose	\$3,025	\$60	\$3,085	4	-	0%
Cheetah	\$2,560	\$0	\$2,560	42	-	0%
Ant Bear	\$900	\$1,651	\$2,551	39	6	15%
Francolin	\$1,166	\$609	\$1,775	22,449	109	0.5%

Non-Detrimental and Enhancement Finding: Conservation and Management of Lion

Species	\$2,014	\$2,015	Total	2015 Quota	Utilised	% Utilised
Dove	\$1,321	\$418	\$1,739	34,485	63	0.2%
Monkey, Vervet	\$885	\$800	\$1,685	3,677	15	0.4%
Ostrich	\$1,200	\$0	\$1,200	14	-	0%
Mongoose	\$508	\$690	\$1,198	279	3	1%
Sandgrouse	\$456	\$688	\$1,144	8,088	78	1%
Oribi	\$500	\$500	\$1,000	82	2	2%
Duiker, Red	\$950	\$0	\$950	-	-	-
Caracal	\$900	\$0	\$900	351	-	0%
Bushbaby	\$850	\$0	\$850	-	-	-
Bontebok	\$700	\$0	\$700	-	-	-
Waterfowl	\$0	\$400	\$400	40	2	5%
Springhare	\$60	\$120	\$180	-	-	-
Gemsbok	\$105	\$0	\$105	6	-	0%
Hyrax	\$75	\$20	\$95	371	1	0.3%
Duck	\$29	\$20	\$49	10,779	13	0.1%
Aardwolf	\$0	\$0	\$0	-	-	-
Blesbok	\$0	\$0	\$0	40	-	0%
Rabbit	\$0	\$0	\$0	252	-	0%
Hare	\$0	\$0	\$0	138	3	2%
Lichtenstein's Hartebeest	\$0	\$0	\$0	5	-	0%
Red Hartebeest	\$0	\$0	\$0	7	-	0%
Grand Total	\$11,099,187	\$8,288,049	\$19,387,236			

**ZIMBABWE PARKS AND WILDLIFE MANAGEMENT
AUTHORITY**



**A NON-DETRIMENT FINDING FOR
AFRICAN ELEPHANT IN ZIMBABWE**

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1.0 SPECIES BIOLOGY AND LIFE HISTORY CHARACTERISTICS

1.1 Taxonomy

Class	Mammalia
Order	Proboscidea
Family	Elephantidae
Species	<i>Loxodonta africana</i> (Blumenbach, 1797)
English	African elephant (The Savanna species)
Shona	Nzou
Ndebele	Indlovu

The African elephant is the world's largest terrestrial animal with a distinctive trunk or proboscis. The trunk is an extension of the upper lip and is used for a variety of purposes which include breathing, grasping objects, feeding and drawing water. The incisors grow into tusks and are used as tools for a variety of purposes including digging, moving objects and as weapons. Some elephants however are tuskless. The distinctive large ears are used to control body temperature. The adult male African elephant can reach a shoulder height of 4m (13 ft) and weigh up to 7,000 kg (15,000 lb). African elephants are found in different habitats in Zimbabwe. They are keystone species due to their impacts on the habitats and the environment. Due to their large body sizes, their impact on the environment is huge. Elephants are herbivorous consuming a wide variety of plant species. The diet consists mostly of leaves, branches from bushes or trees to grasses, fruit and bark. African elephants can consume as much as 150 to 300 kg of dry and wet weight of food and about 40 to 50L (11 gallons) a day. They also travel long distances in the dry season in search of food but generally stay near water sources. Elephants have a very complex social structure organized around a system of family groups led by a matriarch. The family units vary in sizes but generally range from 10 to 70 individuals. Calves are born every 2, 5 to 9 years at the onset of the wet season. The calves are born with a shoulder height of 85cm and weighing around 120 kg. Males become sexually mature at 9 years and females at 14 -15 years. The gestation period for elephants is 22 months. Young elephants wean after 6 to 18 months but may continue for longer periods of up to 6 years. Males leave family groups at puberty. The species lives up to around 70 years.

1.2 Role of the species in the ecosystem

African elephants due to their large body size, substantial food requirements, their ability to change vegetation structure and species composition, and their importance in nutrient cycling and seed dispersal, are keystone species for both forest and Savanna ecosystems. At low densities, elephant impacts promote species richness and biodiversity. In wooded areas, at low densities, elephants open up thickets creating pathways for other species and promoting growth of grasses.

At higher densities, thickets are destroyed and trees are knocked down, encouraging the growth of grasses and changing the species composition of the ecosystem. Changes in vegetation composition involving a reduction in woody cover, and even changes to open grassland, can result from the high elephant density. Elephants can transform savanna into grasslands. Impacts of localized over-abundance of elephants are evident in most of Zimbabwe’s protected areas.

2.0 SPECIES RANGE

There are two sub-species of African elephant found in Sub-Saharan Africa. The Savanna elephants (*Loxodonta africana*) are found predominantly in Eastern and Southern Africa, while forest elephants (*Loxodonta africana cyclotis*) occur primarily in the Congo basin of Central Africa. At the continental level, the size of the elephant range is 3,335,827km² and this is approximately 22% of African continent (Fig.1). Elephants occur in 37 range states of sub-Saharan Africa. Southern Africa has the largest extent of elephant range of any region, and accounts for 39% of the species total range area. Central and Eastern Africa have 29% and 26%, respectively of the continental total, while West Africa accounts for only 5%.

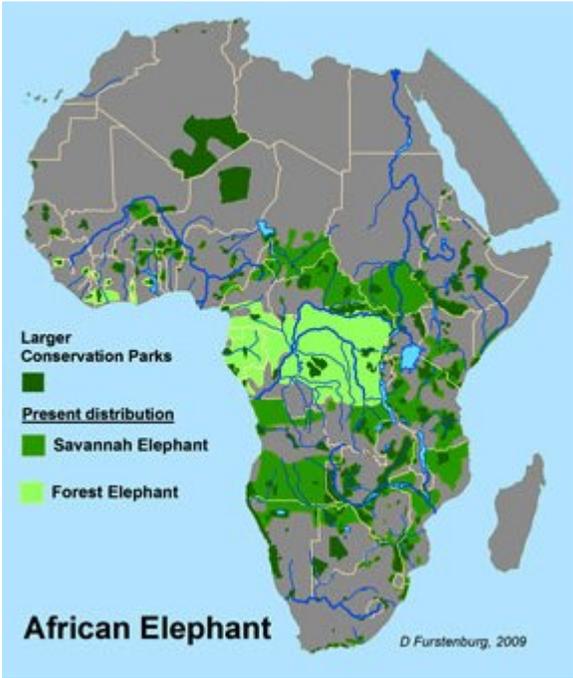


Figure 1: Distribution of African Elephant

The elephant range in Zimbabwe consists of four major sub-regions commonly referred to as North West Matabeleland, Sebungwe, Zambezi Valley and South East Lowveld. This major range stretches across all land tenure categories which include Parks and Wildlife Estate; Indigenous forest areas managed by Forestry Commission, Communal land and privately owned farming areas. With the exception of Sebungwe region, all areas of major distribution are contiguous with elephant ranges in neighbouring countries such as Botswana, South Africa, Zambia, Mozambique and Namibia. The estimated total elephant range in Zimbabwe is 78,750km², of which 43, 650 km² is the Parks and Wildlife Estate. Over 90% of Zimbabwe’s elephants are found in the Parks and Wildlife Estate (Figure 2; Table 1).

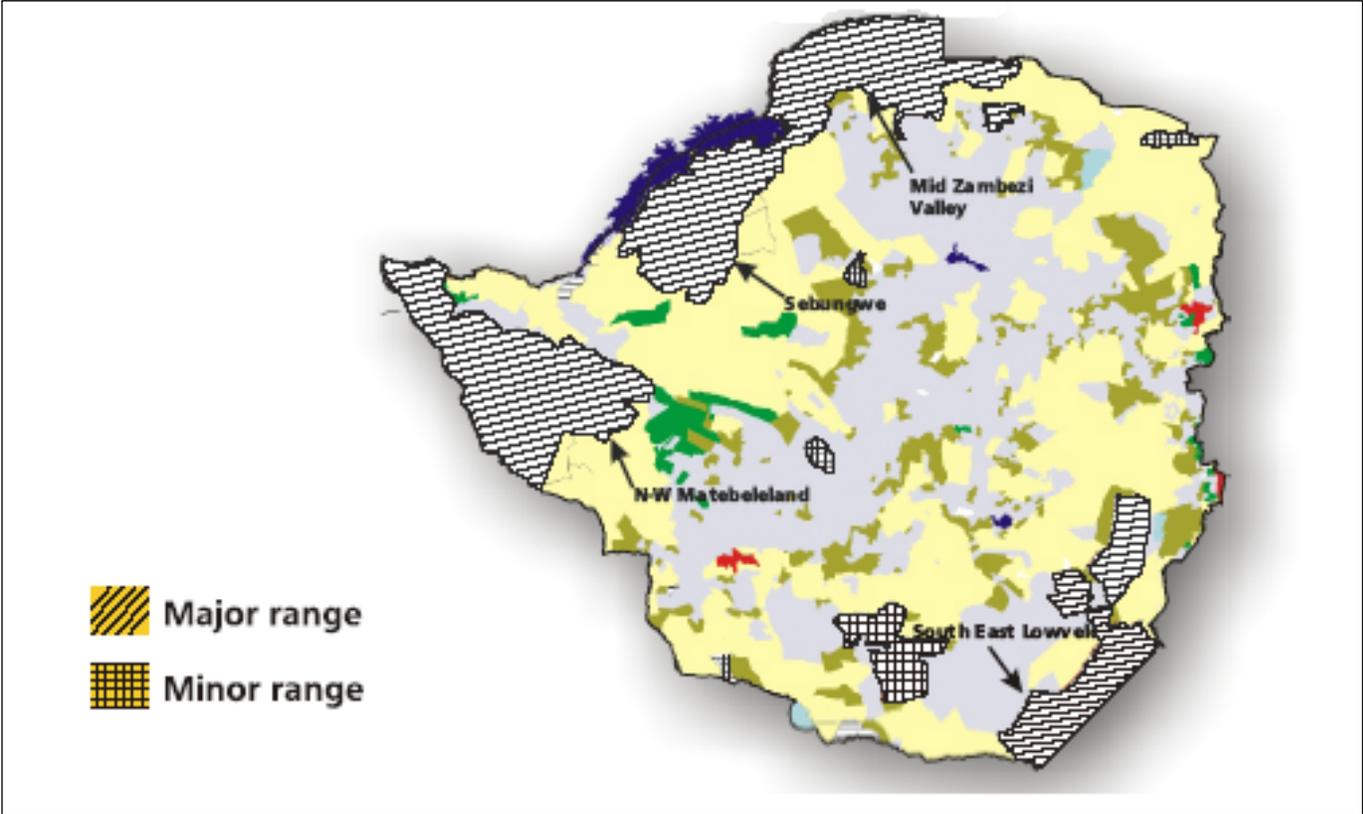


Figure 2: Major elephant geographical ranges in Zimbabwe

In addition to the main part of its range, within the four sub-regions identified above, the elephants in Zimbabwe are also found on privately-owned game farms and conservancies, isolated protected areas of national parks estate and in some isolated communal areas. For example in the Tuli Circle Safari Area, the range extends into the neighbouring country.

Table 1: Approximate range (km²) of elephant in Zimbabwe

REGION	Parks Estate	Communal Land	Forest Areas	Private Land	TOTAL
Matabeleland North	19,400	3,100	2,300	1,200	26,000
Sebungwe	6,200	8,400	400	-	15,000
Zambezi Valley	12,000	500	-	-	17,000
Gonarezhou	5,250	-	-	-	5,250
Subtotal	42,850	12,000	2,700	1,200	63,250
Other Areas (Minor range)	800	8,200	-	6,300	11,500
TOTAL	43,650	20,200	2,700	7,500	78,750

Source: K.M. Dunham and C.S.Mackie, 2002

As shown in Table 1, the elephant range in Zimbabwe is very large approximately, 78,750 km². The range is neither restricted nor fragmented, nor declining in accordance with the CITES criteria of assessing viability and sustainability of the range of a species.

The vegetation types in the major elephant range are shown in Table 2:

Table 2: Vegetation types in the major elephant range

REGION	BROAD VEGETATION TYPE	VEGETATION COMMUNITIES
Matabeleland North	Woodland	<i>Baikiaea</i>
	Savanna woodland	<i>B. boehmii J. Globiflora</i>
	Tree Savanna	<i>C. mopane</i>
		<i>Acacia L. Nelsii</i>
	Thicket	<i>Commiphora C. Combretum</i>
	Shrub	<i>C. mopane</i>
Grassland	<i>Lodetia</i>	
Zambezi Valley	Thicket	<i>Commiphora C. combretum</i>
	Savanna woodland	<i>B. spiciformis J. Globiflora</i>
		<i>B. bohemia J. globiflora</i>
		<i>J. globiflora</i>
		<i>C. mopane</i>
Tree Savanna	<i>Parinari</i>	
Sebungwe	Woodland	<i>Baikiaea</i>
	Savanna woodland	<i>B. boehmii J. Globiflora</i>
		<i>J. globiflora</i>
		<i>C. mopane</i>
	Tree Savanna	<i>Adansonia-sterculia-kirkia</i>
		<i>Terminalia sericea</i>
		<i>Acacia spp-Albizia-Bolusanthus</i>
Thicket	<i>Commiphora C. Combretum</i>	
Gonarezhou	Savanna Woodland	<i>B. boehmii – J. Globiflora</i>
	Tree Savanna	<i>Terminalia sericea</i>
		<i>Commiphora – C. Combretum</i>
		<i>Adansonia-sterculia-kirkia</i>
Shrub	<i>C. mopane</i>	

Most of the elephants occur on land that is marginal for agriculture, in agro-ecological region IV and V (Table 3, Figure 3). These regions are characterized by low, erratic rainfall, limited surface water, and inherent low soil fertility. Under these conditions, herbivore carrying capacity in the ecosystem is limited. Localized elephant over-abundance is a principal factor in the modification

of habitats in the protected areas in Zimbabwe including: Hwange National Park, Chizarira National Park and areas on the Zambezi escarpment.

Table 3: Protected areas and their agro-ecological regions in Zimbabwe

Natural Region	Annual Rainfall	Parks and Wildlife Estate (km²)	Total Area of Natural Region	% of protected area in Natural Region
I	Above 1000 mm Reliable	500	7,050	7,1
II	750 to 1000 mm Reliable	250	58,750	0,4
III	650 to 750 mm Erratic	5,450	72,900	7,5
IV	450 to 650 mm very erratic	25,100	147,700	17,0
V	below 450 mm unreliable	18,400	104,500	17,6
TOTAL		49,700	390,900	12,7

Source: ZPWMA Annual Report, 1997

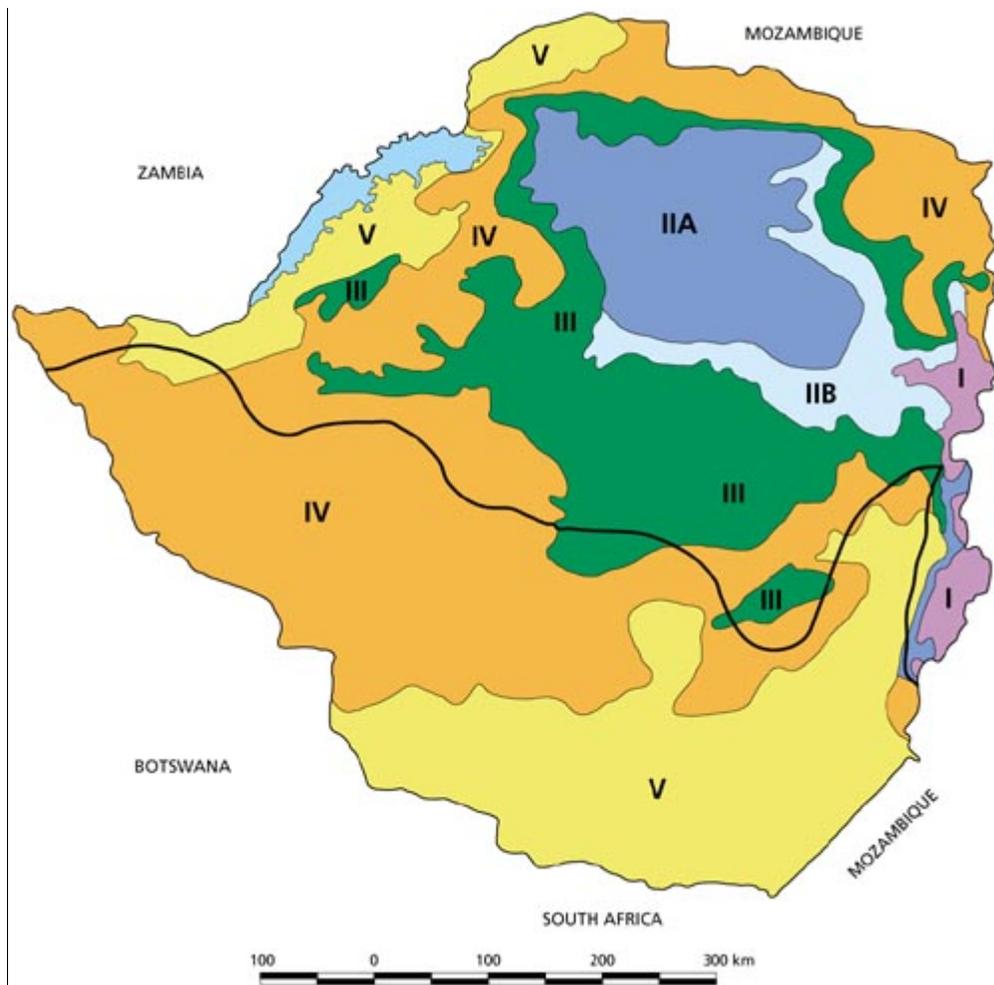


Figure 3: Zimbabwe Agro-Ecological Regions

3.0 POPULATION STATUS, TRENDS

3.1 Overview

In Zimbabwe, elephants have been regularly censused by the Zimbabwe Parks and Wildlife Management Authority in collaboration with the World Wide Fund for Nature and recently with the Frankfurt Zoological Society. The census utilises sample aerial strip and block count techniques. These techniques have been scientifically validated and are used throughout the elephant range in Africa. Elephant population estimates and or abundance indices are also derived from surveys which include, water-hole, road strip, walking transects, visitor observation reports and ranger based monitoring.

Trends in Zimbabwe's elephant population show a steady increase from 46 000 in 1980, 64 000 in 1995, 68 000 in 1998 and 89 000 in 2001. The last complete national survey of elephants and large herbivores covering all the sub-regions of the elephant range was conducted in 2001. Subsequent aerial surveys have been conducted for selected areas within the elephant range in 2005, 2006, 2009 and 2013. It is evident that elephant populations are regularly surveyed but with varying frequencies due to budgetary constraints and other factors such as inadequate equipment and technical support. In 2001, the national elephant population was estimated at 88 123 with a 95% confidence interval of $\pm 8\%$. An estimate of $\pm 1\ 000$ elephants was present in the areas within the minor range giving an estimate of 89 000 elephant in 2001. A steady increase in elephant populations have been observed in all the areas where the surveys have been carried out in the period after 2001.

3.2 North West Matabeleland

The largest elephant sub-population is found in North West Matabeleland (Fig 1) in an area also commonly referred to as the Hwange-Matetsi Complex. This area includes protected areas managed by the Zimbabwe Parks and Wildlife Management Authority, indigenous forestry areas managed by the managed by the Forestry Commission including private and communal lands. The elephant population is contiguous with the Botswana sub-population. The survey results for the period 1980 to 2001 showed a growing population despite a total off-take of 11 956 elephants from population controls in the region between 1980 and 1989 (Booth *et. al*, 1997). In 2001, the elephant population in this sub-region was estimated at 49,310 \pm 12.3% (Dunham and Mackie, 2001). The average elephant population density was 2.9 elephants per km² in 2001. To date, this area has the highest elephant density than any other protected area in Zimbabwe. After 2001, the area was surveyed in 2006. The 2006 aerial survey however did not cover the entire Hwange Matetsi complex due to survey aircraft problems. The results from the 2006 survey estimated the elephant population at 25 087 elephants. In 2007, the sub-region was also surveyed. There were also technical problems related to the aircraft which delayed the start of the survey and the survey could not be completed due to the onset of the rains that affected elephant movements as well. The results from the 2007 survey estimated the elephant population at 39 765 (Dunham, Chimuti et al, 2007). It should be noted that this estimate is only for limited area within the sub-region that was surveyed. The results of 2007 therefore do not reflect the total population estimates of the sub-region. All the results from the surveys conducted since 2001, show a growing trend in the elephant population in North West Matabeleland.

Overall carcass ratios from the aerial surveys from 1995 to 2006 were generally low, less than 8% indicating a low mortality in the population for the period under review. The slight increase in carcass ratio in 2006 was due to the drought induced mortality in 2005 which significantly affected Hwange National Park population (Dunham, Chimuti et al, 2007).

Hwange National Park does not have perennial natural surface water supplies and depends on artificial supplies over most of the dry season. Water hole counts have been conducted annually in Hwange National Park. This method gives an index of abundance of elephants in the area. Results from the waterhole counts indicate a growing elephant population.

3.3 The Mid-Zambezi Valley

The Mid-Zambezi region is a significant part of the major elephant range in Zimbabwe. This population occupies largely the Parks and Wildlife Estate between Lake Kariba to Kanyemba and forms a larger part of a larger population that Zimbabwe shares with the Lower Zambezi National Park in Zambia and the Magoe in Mozambique. Selected areas within this sub-region were surveyed in 2001, 2003, 2005, 2006, 2010 and 2011. The survey which covered the entire sub-region was conducted in 2001. Coordinated surveys in this region were undertaken in 2003 and 2005 with the support from the African Wildlife Foundation as through the Zambezi Heartland project. In 2003, the elephant population of the Zambezi Heartland was 23 221 (95% confidence interval (CI) 11.4%) (Dunham, 2004). The 2003 aerial survey was not completed due to logistical constraints related to strong winds and only 8% of the survey was completed (Dunham 2003). In 2005, the population estimate was 30 209 +/- 21%, the highest ever for the region indicating that the population was increasing (Chimuti et. al, 2006).

Historically, this sub-population was subjected to high levels of illegal elephant killings (336 animals) during the period 1990-1999 when armed poachers switched from rhino to elephant poaching. The trend in poaching declined in 2000 when most of the notorious poachers were arrested or killed during the armed contacts with parks rangers.

Population reduction exercises were conducted during the period 1980 to 1992 when 5 190 elephants were culled (Booth et. al., 1997). The carcass ratio for the period 1995 to 1999 were also relatively high compared to the period post 1999. Recorded off-takes were low during the period 2000- 2006 with the exception of relatively high levels of drought induced mortalities in 2005 (Chimuti et. al, 2006).

In Mana Pools, annual waterhole counts have been conducted since 1995 in partnership with the Wildlife and Environment Zimbabwe and this methodology gives an index of abundance. The reports indicate a growing elephant population in the Middle to Lower Zambezi.

3.4 Sebungwe

The Sebungwe, unlike other elephant populations in Zimbabwe, this sub-region is largely closed being isolated by Lake Kariba, human settlement and areas of communal and commercial agriculture (Fig 1). Within the sub-region, protected areas are relatively small occurring in a mosaic of communal lands. In 2001, the elephant population was estimated at 13 989. The average density in Chizarira National Park in 2001 was 2.4 elephants per km². The population estimate of 15 024 +/- 14.2% from the 2006 survey is the highest count achieved in the Sebungwe region (Dunham et. al., 2006).

Due to fact that the area surrounded by human settlements, there are high levels of human elephant conflicts reported in the area. Aerial survey reports also reflect a high carcass ratio in the area.

3.5 South East Lowveld

The South-East Lowveld elephant sub-population is centred on Gonarezhou National Park, Save Valley Conservancy and surrounding communal lands. Gonarezhou National Park has been regularly surveyed and the population trends show a steady increase. The elephant population estimate for Gonarezhou National Park was 6516 in 2007, 9123 in 2009 and in 2013 estimated at 10151 (Dunham et al, 2013). The incidence of elephant poaching in Gonarezhou National Park is negligible, the elephant population is increasing.

The Save Valley Conservancy has been conducting annual aerial surveys since 2002. The population estimates for Save Valley Conservancy from the 2013 aerial survey is 1 538 elephants. Malilangwe and Chiredzi River Conservancies hold relatively small elephant populations and are part of the South-East Lowveld sub-population and have an estimate of 200 and 70 elephants respectively (South East Lowveld: Aerial Survey Report 2013). In Buby Valley Conservancy, there is an estimate of 540 elephants and this is a growing population (South East Lowveld; Aerial Survey Report 2013). In Buby Valley Conservancy there are no recorded cases of elephant poaching as this is a closed system.

The Save Valley Conservancy through funding from the United States Fish and Wildlife Service developed a management programme which includes the removal of approximately 60 elephants annually so as to maintain a population density of 0.3 elephants per km² with the objective of reducing elephant impacts on woodlands, and inter-specific competition, and also allowing continuous flow of benefits to conservancy members and surrounding communities. This programme is on-going and was last conducted in 2011 in the Save Valley Conservancy.

3.6 Survey Methodology

Zimbabwe has a standardized process to conduct elephant population censuses. The primary objective of aerial surveys is to provide precise estimates of the number of elephants in a region. Secondary objectives include determining the spatial distribution of elephants, estimating the number and distribution of elephant carcasses and estimating the numbers and spatial distribution of other herbivores. The methods used are technically robust and are identical to those used in previous surveys for comparability during analysis of results. Elephants and other large herbivores in all land tenure categories are surveyed from the air in the dry season from August to September. Fixed wing aircraft are used to conduct sample surveys flying transects and in hilly areas, block count techniques are conducted. In order to maintain uniformity and comparability in the surveys over different years, MIKE Standards for aerial surveys are used (Aerial Survey Standards for the MIKE Programme Version 2.0, 2012).

In previous years, aerial census techniques that were used in Zimbabwe were initially developed in East Africa (Jolly 1969; Norton Giffiths, 1978) and were been refined over the years in Southern Africa. In addition to counting live elephants, elephant carcasses are also counted to gain knowledge of mortality in the population. Carcass ratios (as percentages) are calculated from the counts. A carcass ratio of less than 8% is normal for a population which is stable or growing (Douglass- Hamilton & Hillman, 1981).

The validity of the Zimbabwean census techniques was confirmed by Dr. I Douglas- Hamilton (1995) who conducted independent surveys of Gonarezhou in 1995 and produced a similar estimate to the one obtained by the then Department of National Parks and Wildlife Management (DNPWLM) ELESMAF funded survey. He also confirmed that techniques used in Zimbabwe were satisfactory, and similar to aerial sample counts used throughout Africa (Douglas-Hamilton, 1995). A review by Price Waterhouse 1995 also established the validity of estimates obtained elsewhere in the country over a period of 15 years.

Elephant numbers throughout the four major geographical ranges in all land tenure categories including hunting areas have been regularly censused by the Zimbabwe Parks and Wildlife Management Authority (ZPWMA) and Wild Wide Fund (WWF) Southern African Regional Programme Office (SARPO) under a collaborative agreement dating back to 1989. Since 2008, the Authority has collaborated with the Frankfurt Zoological Society in conducting aerial surveys in Gonarezhou National Park. Organisations that have supported the programme include USAID (1989 to 2001), EU through the Elephant Survey and Mapping (ELESMAF) project (1992 to 1995), the African Wildlife Foundation (2003 to 2005), and the US Fish and Wildlife Services (2006) including the Frankfurt Zoological Society in Gonarezhou National Park since 2008.

There are four major elephant geographical ranges in Zimbabwe and these are North-West Matebeleland, Mid Zambezi Valley, Sebungwe and South East Lowveld (Figure 1). These ranges

cover all different land tenure categories in Zimbabwe which include Parks Estate, privately owned land, communal lands, and the indigenous forest areas managed by the Forestry Commission of Zimbabwe. The total area in the elephant range that was surveyed in 2001 was approximately 66. 641 km²

Table 4 shows elephant population trends for the four major elephant ranges in Zimbabwe from 1980 up to the year 2001. Table 5 shows trends in elephant populations in Gonarezhou National Park, an area that has been surveyed regularly in the period under review.

It is evident that there is a steady increase in population estimates from 1980 to date in most of the areas in the elephant range.

Table 4: Elephant population trends per region (1980 to 2001)

REGION	1980	1983	1989	1993	1995	2001
North-West Matabeleland	20 444	25 888	27 411	27 841	30 985	49 310
Sebungwe	11 126	9 302	12 946	10 742	11 796	13 989
Zambezi Valley	10 152	9 907	13 029	14 361	16 842	19 297
Gonarezhou	4 704	3 985	5 286	5 241	4 156	4 992
TOTAL	46 426	49 082	58 672	58 185	63 779	88 123

Source: Aerial Survey Reports: KM Dunham et al, 1980, 1983, 1989,1993,1995,2001.

There is an increasing trend in elephant population estimates since 1980 as shown in Table 4 above. Generally, Zimbabwe’s elephant population has increased from less than 4 000 in the early 1900s to over 89 000 in 2001 (Cumming and Jones, 2005). This is an indicator of remarkable conservation success by any standards. Currently, IUCN characterizes Zimbabwe’s elephant population as follows: Definite 47 366, Probable 3,775 Possible 3,775 Speculative 45,375 and the elephant range as approximately 76 930km² (IUCN Elephant Database, 2014).

Table 5: Trends in Elephant Population Estimates in Gonarezhou National Park

Year	GONAREZHOU NATIONAL PARK			
	2001	2007	2009	2013
Elephant population estimate	4992	6516	9123	10151

Source: Aerial survey reports (Dunham et. al. 2013)

As shown in Table 5, the increasing trends in elephant population in Gonarezhou National Park clearly demonstrate good and sustainable management practices which have been able to sustain hunting in adjacent areas such as Malipati Safari area, Chiredzi CAMPFIRE areas namely

Chibwedziva, Sengwe, Mahenye and Gonakudzingwa. On average 40 elephant bulls are harvested outside Gonarezhou National Park annually.

Elephant numbers throughout the four major geographical ranges in Zimbabwe were regularly censused by the Zimbabwe Parks and Wildlife Management Authority (ZPWMA) and Wild Wide Fund (WWF) Southern African Regional Programme Office (SARPO) under a collaborative agreement dating back to 1989. Systematic aerial sample techniques are used to conduct these elephant surveys. Organisations that have supported the programme include USAID (1989 to 2001), EU through the Elephant Survey and Mapping (ELESMAF) project (1992 to 1995), the African Wildlife Foundation (2003 to 2005), and the US Fish and Wildlife Service (2006).

The elephant population in North West Matabeleland is contiguous with the Botswana elephant population > 140 000 elephants and is thus part of the largest single population of elephants in Africa. During the ELESMAF project (1992 to 1995) aerial surveys were synchronised in terms of timing and the results show that there was no evidence of any large scale cross border movements during the dry season when these surveys were conducted.

Through the Trans-Frontier Conservation Areas (TFCA) initiative, Zimbabwe is jointly monitoring the status and distribution of the elephants with regional counterparts. The Trans-frontier initiatives include such as the Kavango-Zambezi (KAZA), the Great Limpopo Trans-frontier Park, the Greater Mapungubwe, the Zimbabwe-Mozambique –Zambia (ZIMOZA) Trans-frontier Conservation Area and the Mana Lower Zambezi Trans-frontier Conservation Area.

Zimbabwe is currently collaborating with regional countries in the preparation for the Pan African Elephant Aerial Survey or “Great Elephant Census” in the dry season of 2014 whose results will be available by the end of 2014.

4.0 THREATS

At the turn of the century the continental African elephant population stood at more than 1 million elephants. Today, the continental population is estimated at just a quarter of a million, marking a dramatic decline of this species both in terms of its former range as well as its population size and; a number of factors can be attributed to this development. These factors include but are not limited to the following:

“Elephant poaching data showed that following a period of relative stability in the 1990s, there had been a major surge in the illegal trade since 2009. There had also been a shift in the dynamic of the illegal trade, from many shipments to an increasing number of very large-scale seizures, as well as a shift in illegal trade routes. These trends likely indicated the involvement of organized

crime. The data also indicated that there was a high correlation between poaching and poverty levels, poor governance and demand for ivory” (IUCN; African Elephant Summit Summary, 2013)

4.1 Poaching (Illegal killing and Trafficking)

In Zimbabwe, despite the threat of poaching in some areas, the elephant populations have continued to increase in all the protected areas as indicated in Tables 4 and 5. Illegal off-takes remain at a low level. The major threat to the survival of viable populations is habitat loss and fragmentation outside protected areas due to the expansion of human settlements and agriculture. The protected areas within the Sebungwe region (Fig 1), for example, are relatively small (less than 10,000 km²) and surrounded by communal lands. The existence of a hard edge between such protected areas and communal lands leads to serious human/elephant conflicts. Healthy and viable populations inside protected areas are depended on the existence of suitable habitats in communal areas.

Elephant poaching in Zimbabwe is relatively low but trends have been increasing in recent years. Table 5 below shows total estimates of the number of elephants poached in Zimbabwe from 2009 to 2013. During the national aerial surveys, elephant carcasses are counted. The carcass ratios are calculated as the proportion of dead elephants expressed as a percentage of the estimate of the live elephants. Carcasses are classified according to MIKE Standards. Elephant carcasses are used to give estimates of mortality over preceding years. The data from the records suggests that there has a low mortality which can be attributed to be from illegal off-takes.

Illegal harvesting of elephants remains one of the greatest challenges the Authority continues to face. Elephant poaching is being experienced on state, communal and private land. Traditionally poaching has been perpetrated by foreign poaching syndicates but of late we have seen an increased involvement of locals. The main causes of commercial poaching include greed and the availability of ready markets. Table 6 shows the number and trends in elephants poaching and law enforcement results in parks estate since 2011. In 2013, elephant poaching was highest due to cyanide poisoning to death of 105 heads in Hwange National Park. Thirty five (35) people were convicted for the incident and they received between nine and sixteen years jail terms.

The conviction rate for the period under review (2011-2014 February) is 69% of locals and 95% of foreigners arrested. The high conviction rates indicate the level of understanding and appreciation of the elephant value by judiciary. Elephant poaching and illegal possession of elephant products are classified as an economic crime which carry a mandatory sentence of not less than nine years on conviction. The provision of a mandatory imprisonment of not less than nine years crimes as provided for in the General Laws Amendment Act (No.5) of 2010 ensures deterrent sentences for poaching. In addition to the successful arrests and prosecutions of elephant poachers, the Zimbabwe Parks and Wildlife Management Authority raised awareness among law enforcement agencies, the judiciary and private sector in efforts to build partnerships and prioritize elephant poaching and

ivory smuggling. Combined operations within and outside protected areas were enhanced with remarkable success. The Table above reflects achievements of joint law enforcement teams in arresting and prosecuting elephant poachers.

Table 6: Poaching Elephants and People arrested for possession of elephant ivory

YEAR	No of elephants poached	Armed Contacts	Poachers Killed		Recoveries			Arrests		Conviction	
			Local	Foreign	Rifles	Ammunition	Ivory	Local	Foreign	Local	Foreign
2014	29	8	2	1	3	10	54	8	3	1	0
2013	293	27	9	0	20	945	436	88	6	40	5
2012	212	44	5	3	34	631	350	96	12	61	12
2011	223	43	6	6	57	956	266	87	0	87	0
Total	757	122	22	10	114	2542	1106	271	21	188	17

(ZPWMA Records, 2014)

Trends in elephant poaching are shown in Table 6. The 2013 figure includes the 105 elephants that were poisoned in Hwange National Park. It is however important to note that although the trends in poaching have increased in recent years, the impact of poaching on the national elephant population is not significant.

The Government of Zimbabwe reacted swiftly to the unprecedented elephant poisoning incident in Hwange National Park in 2013. A private sector driven fund raising initiative was set up which has to date managed to mobilize 23 vehicles, communication and field equipment for enhanced law enforcement. The ZPWMA has increased manpower level for Hwange and other protected areas through a massive recruitment drive. The police and the judiciary also actively collaborated with the ZPWMA in apprehending all 35 poachers that were involved in the elephant poisoning. Other strategies included awareness campaigns, collaboration with universities and research institutions, enhanced intelligence gathering, vehicular and aerial surveillance and patrols including clean up and decontamination of affected areas and other measures. Aerial surveillance was a collaborative effort using ZPWMA and private sector aircrafts.

4.2 Habitat loss and fragmentation

The elephant population is under threat due to habitat loss and fragmentation. Habitat loss is exacerbated by the fact that Zimbabwe is not able to cull due to pressure from animal rights groups and inadequate funding. Habitat loss is more severe in Hwange National Park where there is a need to provide artificial water supplies. Until 1989, in order to conserve elephant habitat and to maintain biological diversity, the then Department of National Parks and Wildlife Management continually tried to reduce elephant densities in protected areas to levels not exceeding 1 elephant

per square kilometre. These targets were based on models of elephant woodland interactions. Since no population reduction exercises were conducted since 1992, most protected areas now severely overstocked with elephants, with densities exceeding 3 elephants per square kilometre in some areas (Dunham et al 2002).

Viable elephant populations in the state protected areas and indeed the success of the Trans-frontier Conservation Areas initiatives are dependent on the maintenance of suitable habitat in the communal land. As both human and elephant populations are increasing, human/elephant conflict is also on the increase resulting in continuous increase in the number of elephants killed protecting crops of poor rural farmers. The inherent dangers are the emergence of an increasing illegal off-take of elephants

4.3 Drought and Fire

Zimbabwe is also prone to persistent droughts which result in elephant die offs such as the 1982-1983, 1991- 1992 and 1995-1996 droughts. Fire is also one of the key factors responsible for significant habitat modification. The Authority allocates a significant annual budget allocation for fire management but this task is made increasingly difficult as elephants together with fire influence habitats to change from woodland to grassland with a high fuel load.

4.4 Land Use Conflicts

4.4.1 Human Encroachment in Protected Areas

The demand for land appears to be increasing particularly for communities living adjacent to the parks and wildlife estate. There have been cases of illegal settlements in Gonarezhou National park, and Chegutu and Charara Safari areas. Relatively small areas within the Sengwa and Chirisa Safari Areas have been de-gazetted for community resettlement.

4.4.1 Mining in Parks Estate

Zimbabwe has abundant mineral resources. In some of the protected areas, mining activities are currently being undertaken both legally and illegally. Legal mining is currently being done in non-elephant range areas areas such as Umfurudzi Safari Area, Ngezi Recreational Park, Matobo National Park and Mupfure Recreational Park as of December 2013. Illegal mining of gold is being done in Chimanimani National Park and Chewore Safari Area. New applications for Mining or Prospecting projects are currently suspended in all Parks Estate. There are however some established mines in Gwayi and Sinamatella with the NW Matabeleland sub-region of the elephant range.

4.5 Human Elephant Conflicts

Human / elephant conflict is also on the increase in most of the areas adjacent to the major elephant range. The Table 8 below indicates the extent of human elephant conflict in four Hot Spot Districts for the period 2009 to 2011.

Table 7: Human Elephant Cases for 4 Hot Spot Districts (2009 to 2011)

District	Number of cases	Humans killed	Humans injured
Binga	36	8	0
Mbire	6	5	1
Hwange	289	2	1
Tsholotsho	41	0	0
Total	372	15	2

It is important to note that not all incidences of human elephant conflicts are reported as CAMPFIRE staff lack the capacity to attend every report. The ZPWMA is always called to assist with problem animal control (elephant, lion and crocodile) in communal areas.

In addition to the loss and injury to human life communities adjacent to wildlife areas suffer the following;

- Destruction of crops which affects both the quality and quantity of harvests and impacting negatively on food security;
- Destruction of property;
- Depletion of water sources;
- Destruction of water infrastructure;
- Reduced grazing land;
- Restricted access to essential commodities such as firewood;
- Loss of opportunities to carry out other activities due to time spent guarding crops and property.

The Zimbabwe Policy for Wildlife (2000) provides guidelines on how to manage human elephant conflicts. In cases where wildlife including elephants pose a threat to human life they are removed however the impact of this form of problem animal management is very insignificant on the national elephant population (Zimbabwe Policy for Wildlife, 2000).

5.0 ELEPHANT UTILIZATION: LEGAL HARVESTING

5.1 Overview

African elephants are used for both consumptive and non-consumptive purposes. Apart from trophy / sport hunting, other uses include photographic safaris, research and educational purposes. Consumptive utilization of the African elephant in Zimbabwe is mostly in the form of trophy hunting. Sport / Trophy hunting contributes to the conservation of elephant through generation of revenue which is ploughed back into conservation. The revenue generated is also used for local community rural development programmes. Local community support for wildlife conservation is related to the level of benefitting from conservation and participation in decision making on wildlife conservation matters.

5.2 Sport Hunting

Hunting areas in the Parks and Wildlife Estate are established in terms of the Parks and Wildlife Act Chapter 20:14 as Safari Areas managed by the Zimbabwe Parks and Wildlife Management Authority. Other hunting areas are indigenous forest areas managed by Forestry Commission, communal areas adjacent to the parks estate where CAMPFIRE takes place managed by Rural District Councils and, private game ranches and conservancies managed by private property owners. In terms of the Parks and Wildlife Act Chapter 20:14, the Ministry of Environment, Water and Climate through the ZPWMA has the national mandate to set and approve wildlife hunting quotas, regulate as well as monitor utilization of wildlife in all land tenure systems in the country.

On private land, hunting rights are allocated to landowners who in turn negotiate private hunters on a one on one basis. The ZPWMA has a regulatory role over the management and utilization of wildlife on all land in Zimbabwe irrespective of land ownership or entitlement.

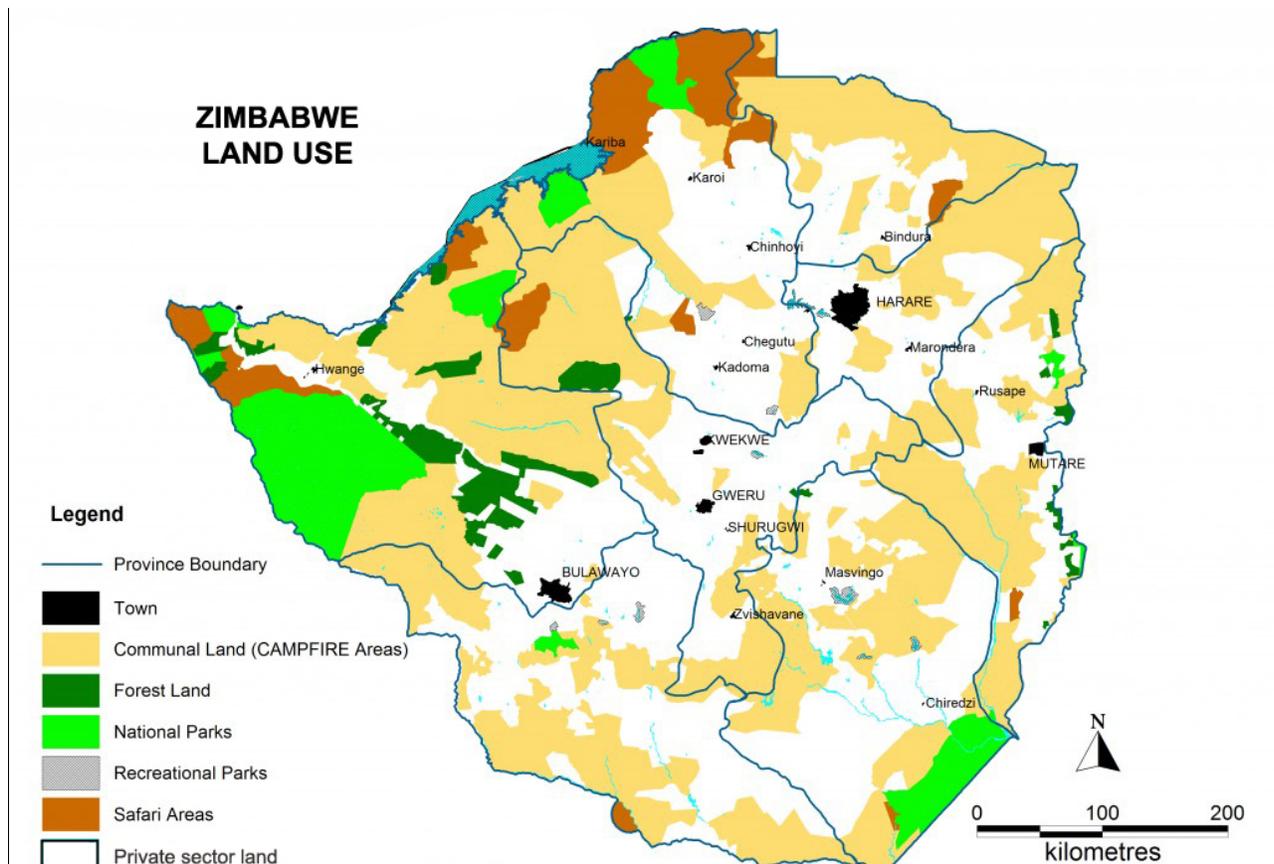


Figure 4: Geographical Location of Safari Areas in Zimbabwe

5.3 Control of Hunting Rights

Hunting concessions within the Parks Estate are awarded to operators through public auctions which are conducted by certified auction houses. The current policy is that the Authority leases out State hunting concessions to pre-qualified Zimbabwean Safari Operators through an auction system for a period of five (5) years which can be renewed for another five (5) years [bringing the maximum to (10) ten years]. The ten year period is provided for in the Parks and Wildlife Act: Chapter 20:14 under Section 37. Concessions are therefore not awarded on an annual basis.

On communal lands, Rural District Councils apply for Appropriate Authority Status to manage and utilize wildlife through several activities which include sport hunting. The Right to hunt in communal land is also allocated through a tender system with proceeds accruing to communities.

All Safari operators are required to submit returns on utilization of the previous year's quota as well as a completed Tourism Return Form with details of hunts before approval of the following year's quota.

5.4 Quota setting

Trophy hunting of elephants is undertaken through a strictly regulated quota system. Quotas are issued each year to approved landholders by the Zimbabwe Parks and Wildlife Management Authority and non-detriment findings are conducted for all exports. Policies and legislation related to utilization of the African elephant are strictly adhered to and implemented. In areas where there is a decline in trophy quality, a hunting moratorium can be imposed to allow the population to recover as was the case with African lions North West Matabeleland from 2004 to 2008. Quotas are also reduced in areas where there is a decline in trophy quality. All the off-takes for the African elephant in Zimbabwe are sustainable. Key factors that Zimbabwe considers when setting quotas are shown in Table 8.

Quotas for Zimbabwe are set using the triangulation process throughout the country (Fig 5). The quota setting process is participatory involving private landowners, Zimbabwe Parks and Wildlife personnel and CAMPFIRE or local community wildlife managers. Quotas are set so as to have a representative number of animals that can be safely removed during a hunting season without inflicting biological damage to the population. The aim of quotas is to ensure that the utilization of wildlife is sustainable. Data on genetic drift, estimated population, disease outbreak, trophy size, age of animal hunted, habitat status and illegal off take is used to safeguard sustainable quotas. The thrust of wildlife management in parks estates is an adaptive management approach which emphasizes scientific research and monitoring.

Table 8: Some key factors considered in quota setting

Factor	Comments
Environment	Effects of droughts and other environmental factors are considered when setting quotas (for example die- offs in an area)
Population estimates and indices of abundance	Population estimates for African Elephants are determined using; aerial surveys, waterhole counts, road strip counts and field based ranger monitoring. Population estimates are used to determine annual quotas
Trophy size and quality	Data on hunt returns is captured into a database that is analyzed to determine future off-takes basing on trophy quality and trends i.e. the lower the trophy quality, the quota is adjusted accordingly. Hunting success rate is also required to determine quotas. A hunting moratorium can be imposed in an area with declining trophy quality.
CITES National Export Quotas	Zimbabwe has an Annual CITES National Quota of 1000 tusks of 500 sport hunted elephants. Allocation of quotas at national level does not exceed this limit.
Size of hunting area	Hunting quotas are allocated according to the size of any given property.
Management Systems in place in hunting areas	The following factors are also considered when setting quotas: <ul style="list-style-type: none"> ❖ Existence of game fences or open access systems ❖ Anti-poaching efforts ❖ Game water supply ❖ Translocations and reintroductions ❖ Diseases
Illegal offtakes	Illegal off-takes from poaching are also considered when setting quotas in an area. Quotas are adjusted accordingly in order to ensure that harvests are sustainable
Trade	Very strict export and import regulations and trade monitoring systems are in place. Analysis of export data is used to set annual quotas.
Monitoring	The Scientific Authority through an adaptive management process and ongoing rigorous resource monitoring programmes, uses all the data and information to ensure that quotas are sustainable. The monitoring programmes include the following: Off-takes/Harvests, Legal & Illegal harvest & Trade; Ranger based monitoring, Hunt returns, Live sales & Translocations; Natural mortalities, Trophy quality, Hunting regulations Biological: Population estimates & densities, Distribution patterns, Habitat quality, Local ground counts, Hunting success rate, Environmental variations, Diseases

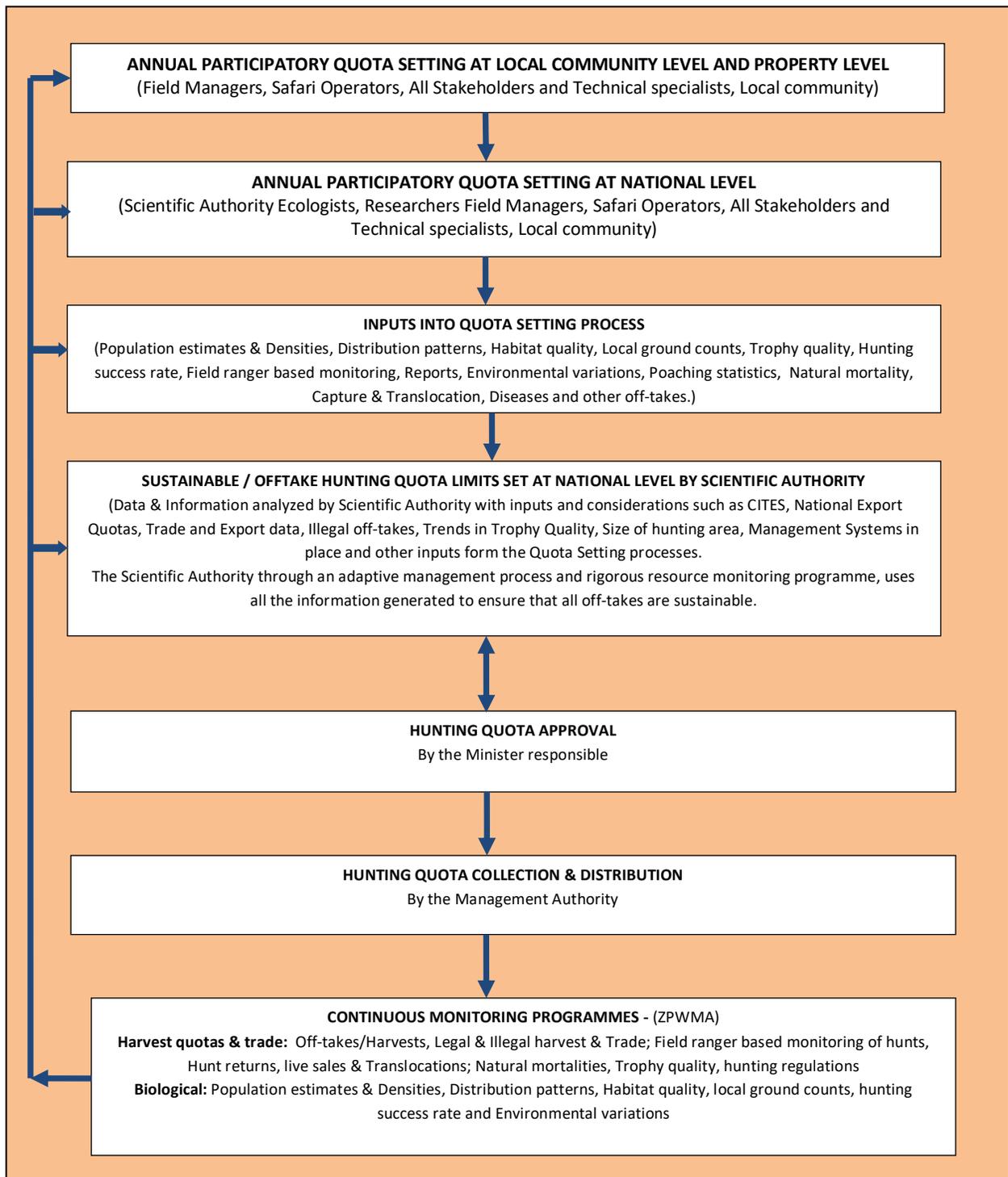


Figure 5: Multi-stakeholders Participatory Quota Setting and Monitoring

5.5 CITES National Export Quota

Zimbabwe has a CITES National Export Quota of 1000 tusks from 500 sport hunted elephants per annum. The main policy approach that guides the determination of quotas of all hunting areas is that the quota levels should enable Zimbabwe to be a hunting destination whereby animals of internationally acceptable trophy quality are hunted. Viable and sustainable population areas are offered to high-fee paying sportsmen.

5.6 Elephant Utilization in selected Safari Areas

Table 9 shows the elephant utilization in Concession Areas of Hurungwe Safari Area and also shows that sport hunting is carried out within set and approved quotas.

Table 9: Elephant Quota utilization in Hurungwe Safari Area

Year	Makuti		Rifa		Nyakasanga		Sapi		Sugar Estates	
	Quota	utilised	Quota	utilised	Quota	utilised	Quota	Utilised	Quota	Utilised
2009	7	5	5	5	7	5	5	2	2	2
2010	7	7	5	5	8	8	3	3	2	1
2011	7	3	6	6	9	8	1	1	2	1
2012	7	0	5	4	3	2	6	3	2	2
2013	7	1	5	5	4	3	3	2	2	2

In a comparison done on the weight of ivory from the offtakes in the five hunting areas (Makuti, Rifa, Nyakasanga, Sapi and Sugar Estates) in the Zambezi Valley for the period 2009 to 2013, it was found that trophy quality was generally decreasing in all the Concession areas especially in the Makuti Safari Area (Figures 6 & 7). This could be attributed to several factors which include over-hunting and poaching of the segment of the elephant population that can be hunted. As discussed in Section 3.3 the elephant population is increasing in all the sub-regions of the elephant range.

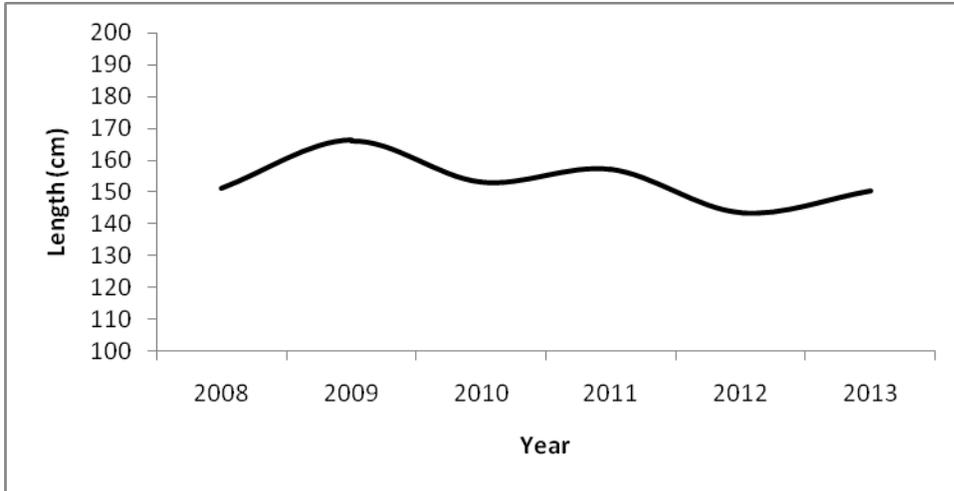


Figure 6: Trends in elephant trophy size (2008 to 2013)

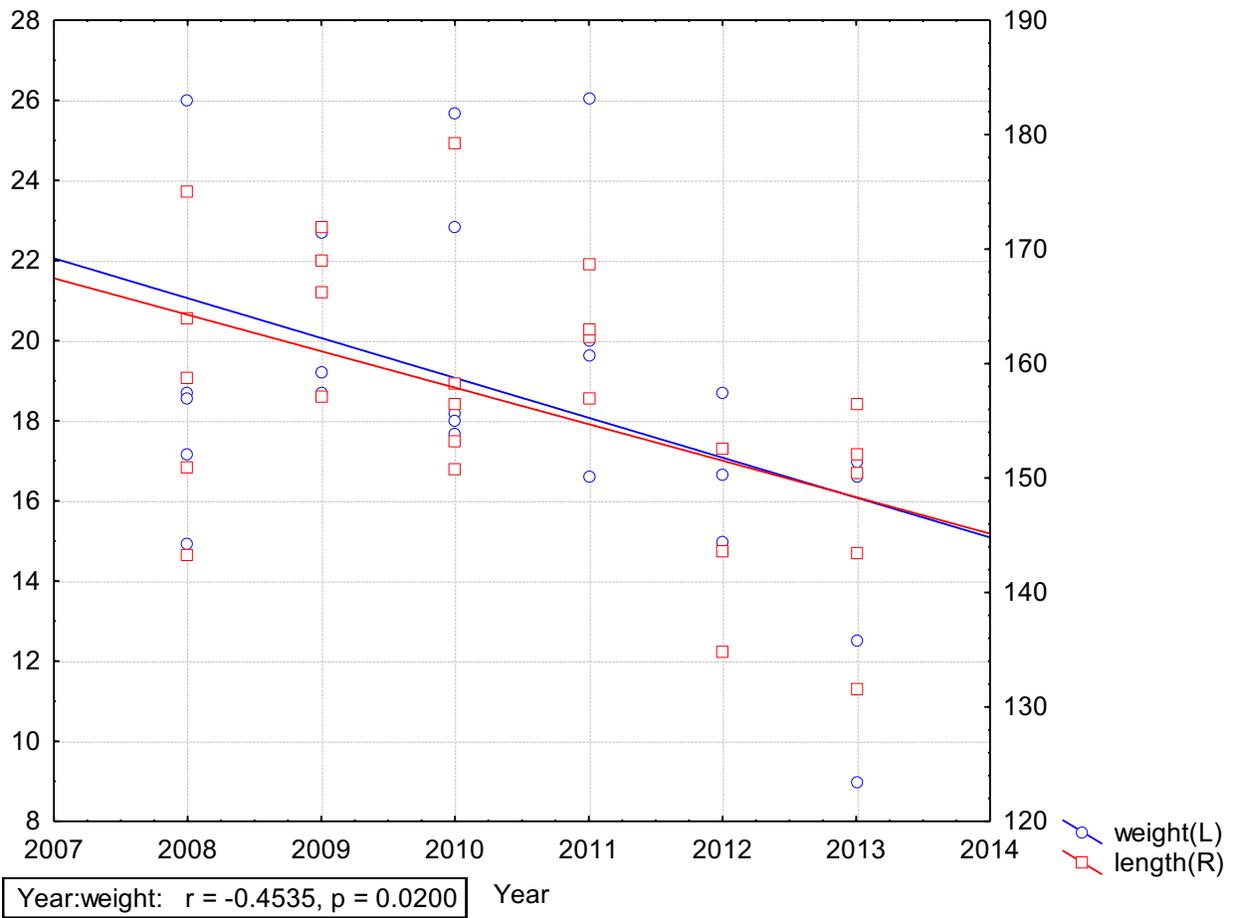


Figure 7: Relationship between trophy length and trophy weight in Hurungwe Safari Area.

In other areas, there is no significant change in trophy quality, for example, in the South East Lowveld from 2007 to 2011 as shown in Table 10.

Table 10: Elephant Sport Hunting Quota Utilization and Trophy Size in South East Lowveld (2007 – 2011)

AREA	2007			2008			2009			2010			2011		
	QA	O	TS	QA	O	TS	QA	O	TS	QA	O	TS	QA	O	TS
Sengwe 1	2	1	55LBS	2	1	56LBS	2	1	54LBS	3	2	59LBS	3	2	70LBS
Sengwe 11	4	0		4	2	49LBS	4	3	46LBS	4	1	65LBS	4	3	68.5LBS
Malipati Safari Area	5	5	52.5LBS	5	5	52.5LBS	5	4	5.5LBS	6	5	56LBS	6	5	75.5LBS
Malipati Communal Area	2	2	58LBS	3	2	56LBS	3	2	56LBS	3	2	59LBS	3	2	80LBS
Chitsa	4	1	45LBS	4	0	45LBS	4	3	44LBS	4	3	51.5LBS	4	1	53LBS
Chibwedziva	5	23	56.5LBS	5	5	42.5LBS	5	5	50LBS	5	5	61.5LBS	5	4	69.5LBS
Naivasha	6	0	47LBS	5	4	56LBS	5	3	56LBS	5	4	54LBS	5	5	64LBS

(ZPWMA, 2012)

KEY: AQ-Allocated Quota; O- Offtake; TS-Trophy Size

5.7 Exports of Elephant Trophies from Zimbabwe

Exports of specimens of African elephant mostly include sport hunted trophies, skins, other parts and a few live exports of only four specimens in 2012. Figure 8 shows trends in exports of sport hunted elephant trophies from Zimbabwe. In the period 2008 to 2011, there was a steady increase in the number of elephant trophies exported. From 2011 to 2013, there was a decline in exports due to the introduction of a new requirement in the export regulations that only trophies harvested in the previous and current year could be exported. Trophies harvested in earlier periods could not be exported with effect from 2011.

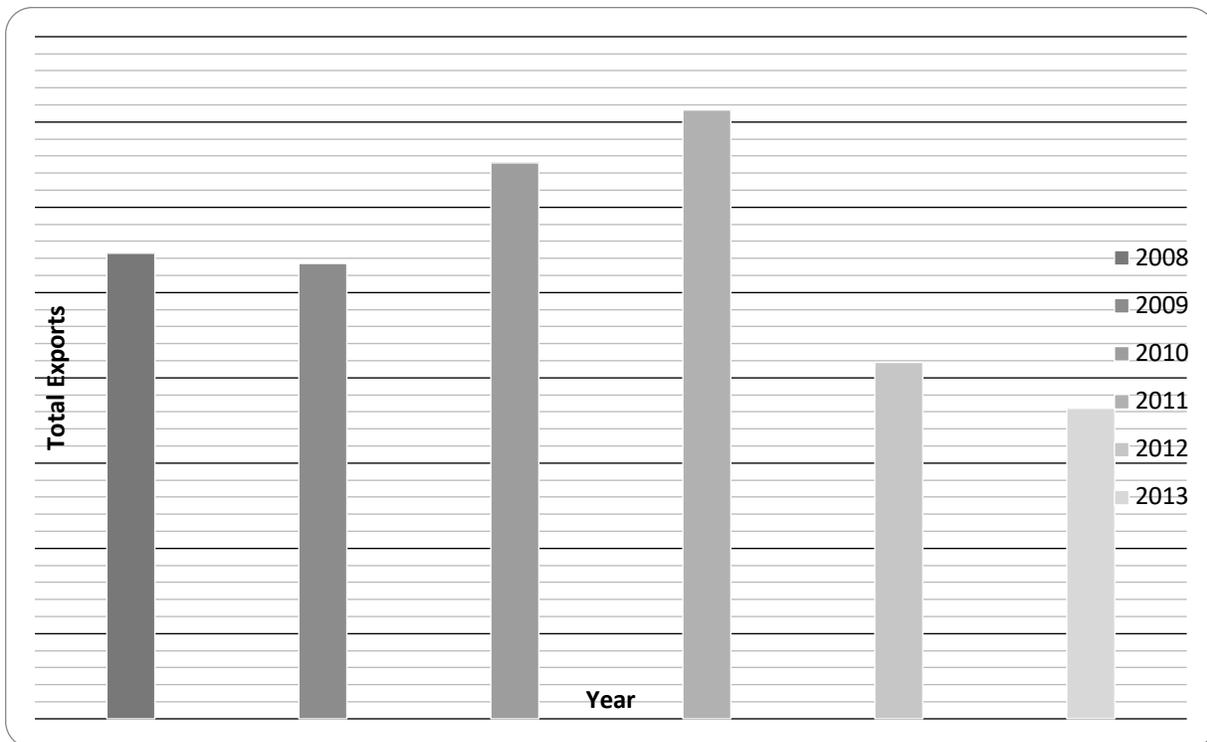


Figure 8: Export of sport hunted elephant trophies from Zimbabwe (2008 – 2013)

Source: (TR2 Database ZPWMA 2014)

The ZPWMA has a comprehensive system to monitor off-takes from the elephant population. All field stations report on a monthly basis, animals killed through all forms of off-take. Safari operators are required by law to submit returns to the ZPWMA of all the animals taken through a Tourism Hunt Return Form (TR2). All elephants killed through Problem Animal Control (PAC) and recreational hunting are considered as part of the annual off-take quota to ensure that the off-takes are sustainable. Trophies taken on PAC cannot be exported.

5.8 Other Off-takes

Some elephants are taken in communal areas during problem animal management but the off-takes are other very low and insignificant. In addition to problem elephant management, other elephant off-takes are for training of ZPWMA staff and professional hunters on how to handle dangerous game and again the numbers are very low and insignificant.

Private properties have approved Elephant Management Plans but apply for annual sport hunting and management quotas. For example, Save Valley Conservancy has an approved Elephant Management Plan for its closed elephant population. The elephant population is increasing in this

closed system. On this private property, culling is done on an annual basis as a management tool to control the elephant population. On average 60 elephants are harvested during this exercise. The last culling was done in 2011. The meat was distributed to the local community.

6.0 MANAGEMENT MEASURES

6.1 Legal and Policy Framework

Zimbabwe's National Legislation is very comprehensive to ensure long term survival of the African elephant. Zimbabwe has a full range of national legislative and administrative measures needed to effectively implement all aspects of the Convention on Trade In Endangered Species of wild flora and fauna (CITES) and related Resolutions and Decisions of the Conference of Parties. Zimbabwe's legislation is in Category 1 of CITES and therefore meets all the requirements of CITES implementation.

The African elephant is a species whose conservation is regulated through a national policy and legal framework and regulations which include:

- Parks and Wildlife Act; Chapter 20:14 (1996) as amended in 2001
- Environmental Management Act; Chapter 20:27
- Forest Act; Chapter 19:05
- Statutory Instrument 362 of 1990 : Parks and Wildlife (General) Regulations, 1990
- Statutory Instrument 76 of 1998 :Import and Export of Wildlife Products
- Statutory Instrument 40 of 1994 : Parks and Wildlife Act (General) Amendments
- Statutory Instrument 26 of 1998: Parks & Wildlife Act (General) Amendment
- Statutory Instrument 92 of 2009; Compensation Values for Wildlife
- Statutory Instrument 93 of 2009; Compensation Values for Trapping of Animals
- Trapping of Animals Control Act 20.16
- The Policy and Plan for Elephant Management in Zimbabwe
- Elephant Management in Zimbabwe
- Tourism Hunt Return Forms (TR2)
- Code of Ethics for Hunting in Zimbabwe

The Parks and Wildlife Act Chapter 20:14 as defines six categories of Protected Areas under the jurisdiction of the ZPWMA. The six categories are National Parks, Safari Areas, Recreational Parks, Botanical Reserves and Gardens and Sanctuaries and in total cover about 13% of the country (5 million hectares). The same Act recognises any land that is being used for wildlife conservation and designates the legal occupant of that land as Appropriate Authority. On communal lands, Appropriate Authority is accorded to the Rural District Council. Appropriate Authority is the legal right to utilize and manage wildlife on the property under community jurisdiction. In addition to the Parks and Wildlife Estate there are other wildlife areas under Government agencies such as (Forestry Commission, Cold Storage Commission, Agricultural Rural Development Authority and Ministry of Agriculture) and Communal land, Conservancies and Private land. Approximately 29% of the total land mass of Zimbabwe is under one form or another of wildlife management as a land use category.

6.2 Elephant Management Plan

Zimbabwe has a national management plan and policy for African elephant (*Loxodonta africana*) – Elephant Management in Zimbabwe and The Policy and Plan for Elephant Management in Zimbabwe. The plan was officially approved by the Minister of Environment and Tourism in 1997. Zimbabwe also implements the following plans, The African Elephant Action Plan, SADC Protocol on Wildlife Conservation and Law Enforcement (1999), SADC Protocol on Forestry (2002) and the SADC Elephant and Rhino Security Plan. In addition to the above, all the protected areas have specific aspects of elephant monitoring programs that are being implemented and reviewed on an annual basis. Information on the status of elephants is derived from surveys which include, aerial, water-hole, road strip, walking transects, visitor observations /sightings and ranger based monitoring. Through the Monitoring of the Illegal Killing of Elephants (MIKE) program in Chewore and Nyaminyami, Zimbabwe has also regularly been monitoring the status of the elephant populations including poaching. The MIKE program is providing valuable information on elephant poaching and has assisted the Authority in taking proactive action in anti-poaching and other law enforcement efforts. These efforts have resulted in successful arrests, recoveries and prosecutions of poachers. Statistics from the MIKE program have enabled the Authority to collaborate with the Zimbabwe Republic Police, other law enforcement agencies, and protected area stakeholders such as the Forestry Commission, conservancies and safari operators. Deterrent sentences of 9 to 16 years have been meted out for elephant poaching. In addition, to the national elephant management plan there are area specific elephant management plans such as in Save Valley, Malilangwe and Buby Valley Conservancies.

Through the Trans-Frontier Conservation Areas (TFCA) initiative, Zimbabwe is jointly monitoring the status and distribution of the elephants with regional counterparts. The regional plans also strongly interact with the national management plans through shared databases, elephant monitoring platforms such as the MIKE Regional Database and the Elephant Trade Information

System (ETIS). Please find attached a copy of Zimbabwe's Elephant Management Plan and The Policy and Plan for Elephant Management in Zimbabwe, Parks and Wildlife Act Chapter 20:14 as amended.

The Zimbabwe Parks and Wildlife Management Authority is the only legal agency, in terms of the Parks and Wildlife Act Chapter 20:14 and is responsible for administering the management plan. The Authority supervises the implementation of the plan outside protected areas including communal areas, Conservancies, Forestry Commission area and private land.

There is adaptive management of the elephant population in Zimbabwe. Aspects of the Elephant Management Plan are reviewed through annual stakeholder consultative national workshops where Government Departments, NGOs, Local Communities, Safari Operators and the private sector participate. Regular reviews are also done in compliance with Resolutions from the relevant Meetings of Conference of Parties of the Convention on International Trade in Endangered Species of wild flora and fauna (CITES) and regional protocols. Zimbabwe is part of the SADC Protocol on Wildlife and Law Enforcement Co-operation, which meets regularly to review the implementation of the protocol. This protocol primarily addresses issues of rhino and elephant management including cross border poaching and joint surveys (Rhino And Elephant Security Group of Southern Africa, 2000).

The Elephant Management Plan recognizes that elephants comprise an important component of Zimbabwe's wildlife and cultural heritage and its goal to conserve elephants at levels which promote the goals of biodiversity conservation while ensuring sustainable use and contribution to national development. The document also reviews the past history of elephant management in Zimbabwe and outline future strategies. The primary focus is to maintain biodiversity through the conservation of ecosystems, species and ecological processes. The elephant is only one member of a whole complex of species which must be conserved but there is no doubt that elephants have a huge impact on the environment. With a certain level of impact, they may increase the heterogeneity in the structure and species composition of their habitats but when their impacts are so great as to make the habitat uniform(that is, remove all trees and keep all shrubs' pruned ' to a certain height) then the reverse is probably true. Of course there are different outcomes in different habitats, but the Parks and Wildlife Management Authority of Zimbabwe has decided to take a conservative stand and rather err on the side of caution. Thus it is preferred to keep elephant populations at densities which are likely to maintain or facilitate the regeneration of woodland and other vegetation including ecosystem functions and processes.

The Elephant Management Plan has specific objectives that are designed to address specific management issues with measurable goals, specific management actions and outcomes and expected impacts. The three major objectives of Zimbabwe's Elephant Management plan are:

- Maintaining at least four demographically and genetically viable populations,
- Maintaining numbers and densities below levels which will not compromise biodiversity

- Maintaining or increasing elephant range at or above the 1996 level.

Zimbabwe also has areas with micro management plans which feed into the national Elephant Management Plan. The areas are Forestry Commission, Conservancies such as Malilangwe, Save Valley and Buby Valley.

By adopting the principle of adaptive management, the Authority believes that, with continued monitoring of large mammal populations and vegetation, it is sensitive to changes in the status of either in order to make the appropriate responses. Zimbabwe has since 1980 been carrying out annual scientific aerial surveys in order to monitor populations of large mammals and especially elephants. The results of previous surveys are presented in the Elephant Management in Zimbabwe documents and enclosed Aerial Survey Reports. A vital part of the elephant management program in Zimbabwe is law enforcement. This activity has become increasingly difficult due to high levels of funding required for human resources, equipment for law enforcement research and monitoring. The Zimbabwe Parks and Wildlife Management Authority strictly enforces CITES regulations, and keeps tight controls on the trade in wildlife and wildlife products, as part of the country's ongoing commitment to elephant conservation. Currently the Authority is in the process of planning a national aerial survey in the dry season of 2014, the results of which will be availed before the end of 2014. The Authority has been unable to conduct national aerial survey due to severe resource constraints. Allocation of quotas in hunting areas is based on a consultative process that involves ZPWMA authorities, hunters, safari operators, local communities, land owners, researchers, and NGOs. The participatory approach ensures that the quotas allocated for each hunting area are sustainable.

The Elephant Management in Zimbabwe document interacts with other policies and plans such the approved Rhino Policy and Management Framework (2011-2016), approved Lion Conservation Strategy and Action Plan, approved Zimbabwe Policy for Wildlife, approved Wildlife Based Land Reform Policy, approved Wildlife Resources Outside the Zimbabwe Parks Estate: A Management Policy Framework, National Conservation Action Plan for Cheetahs and African Wild Dogs in Zimbabwe, Environmental Management Act Chapter 20:27, Forest Act Chapter 19:05 and approved National Environmental Policy and Strategies. All concession plans are guided by Protected Area Management Plans of specific areas and the Parks and Wildlife Act Chapter 20:14..

At the regional level, Zimbabwe together with other African elephant range States, is implementing the African Elephant Action Plan through CITES. Within Southern African Development Community (SADC), Zimbabwe is implementing the Regional Elephant Management Strategy through the Trans-frontier initiatives such as the Kavango-Zambezi (KAZA), Great Limpopo Trans-frontier Park, Greater Mapungubwe, Zimbabwe, Mozambique, Zambia Trans-frontier Conservation Area and Mana Lower Zambezi Trans-frontier Conservation Area.

Zimbabwe's Elephant Management Plan is clear testimony of the country's intention to effectively protect the country's elephant population but its implementation is constrained by lack of resources just like any other Southern African elephant range State. Most of the elephant conservation has been funded by elephant hunting. The Zimbabwe Parks and Wildlife Management Authority does not receive any funds from the Government fiscus hence depends on revenues from sport hunting and assistance from donors.

The Zimbabwe Parks and Wildlife Management Authority is currently conducting research elephant diet, impacts on vegetation, game water supply and population dynamics. Collaborative research is also conducted through local universities and in partnerships with NGOs.

6.3 Management of Hunting

Hunting areas in Zimbabwe are established in terms of the Parks and Wildlife Act Chapter 20:14 as amended which designates specific areas as hunting areas which are State Safari areas managed by ZPWMA, Forestry areas managed by Forestry Commission, Communal areas adjacent to national parks and safari areas where CAMPFIRE takes place, private game ranches and conservancies managed by private property owners in terms of the Parks and Wildlife Act Chapter 20:14. ZPWMA regulates and monitors all utilization of wildlife in all land categories in the country.

All hunts in State Concession Areas are monitored by Parks Rangers whose duties are to record all the details of offtakes for entries into regional Hunt Return Databases that feed into a national database. The Rangers also record other details and sightings including quality of habitat. The information is considered during the quota setting process. On some private conservancies and concession areas, wildlife surveys are conducted on an annual basis. Annual quotas set will therefore be based on these annual surveys for such concessions. Where surveys are not done on an annual basis, quotas are set based on the adaptive management approach as well as use of historical information/data such as the quality of trophies, hunting effort and hunting success rate. A decline in the trophy quality would automatically indicate a need to adjust quotas downwards or even impose a moratorium.

6.3.1 Control of Concessions where several outfitters hunt in the same area

- A hunting permit specifying area and animals to be hunted is issued;
- Each hunting bag is allocated specific days which are not allowed to overlap and restrict the hunting effort;
- Every hunt is accompanied by a Parks ranger who records all the animals hunted;
- There are penalties for shooting the wrong sex animals (Statutory Instrument 56 of 2012);

- All hunters are required to complete the Tourism Return Form 2, which has to be acquitted with Parks and Wildlife Management Authority and Reserve Bank of Zimbabwe before trophies are exported out of the country;
- A copy of all TR 2 forms is submitted to Parks for recording and analysis.
- In all these hunting areas, ZPWMA remain responsible for all management issues.

6.4 Hunting Revenue

In Zimbabwe a foreign hunter buys a bag which may or may not include an elephant. If an elephant is included, the amount paid increases. The amount declines depending on key species in the bag such as leopard and buffalo. A foreign hunter pays to the operator who then pays to the Authority relevant trophy fees where applicable.

A hunting permit is only issued to the hunting operator or a private land holder or to communities with Appropriate Authority Status. The foreign hunter only pays for the daily rates and trophy fees to the particular operator they will be hunting with. Both the daily rates and trophy fees vary with the area being hunted, type of animals in the hunting package and the target market of the operator. The daily rate is paid for services received in camp which include accommodation, food and beverages, professional hunter services etc. The hunter also pays government levies which are 2% Zimbabwe Tourism Authority levy on daily rate and 4% on trophy fees.

For areas where several outfitters hunt the same area, animals are packaged into bags which are auctioned every year and hunters pay the highest bid price at the auction subject to a reserve price.

The Zimbabwe Parks and Wildlife Management Authority, which is the Government's Agency responsible for managing all wildlife in the country ploughs back all the money into managing conservation and protection of the Parks Estate, which includes the range areas for elephants.

Communities are provided for through the Communal Areas Management Programme for Indigenous Resources of Flora and Fauna. Some of the revenue that accrues to Rural District Councils under this program is ploughed back into wildlife conservation activities in CAMPFIRE areas. Proceeds are used directly for elephant conservation, provision of game water supplies, wildlife monitoring and anti-poaching programs on communal land as well as community development programmes in the form of schools, clinics, roads and other infrastructural development projects.

The centralised command and control approach to law enforcement to protect the elephant is unlikely to work as proved in most parts of Africa. The long-term solution is to ensure greater return of elephants to the community. Conservation of elephants will be achieved as a by-product of the quest for sustainability.

6.4.1 Revenue generated from the Parks Estate

Hunting concessions under the Zimbabwe Parks and Wildlife Management Authority are allocated to Zimbabwean private operators through an auction system. The total value of Safari hunting in this category is derived from the right to hunt (auction bid price), trophy fees, and hunting lease fees (concession fees). The later is calculated as 30% of the total trophy fees of animals on the allocated quota. Besides leasing out hunting concessions to private safari operators the Authority also fully manages some concessions to raise revenue for conservation, to train Parks staff in hunting operations and to get a full appreciation of the operations of the sport hunting industry. All this revenue is paid directly to Zimbabwe Parks and Wildlife Management Authority hence contributes wholly to the conservation budget of the Authority.

6.4.2 Revenue generated from communal lands

As with Parks Estate, the Rural District Councils also lease out hunting concessions under their jurisdiction to private operators and the major revenue in this category is also derived from trophy fees and hunting lease fees (concession fees). The hunting fees are also calculated as 30% of total trophy fees for animals on the quota. It is noteworthy that revenue from elephant hunting contributes approximately 60% of total earnings by Rural District Councils. Safari hunting contributes more than 90% of revenues earned in CAMPFIRE Program.

6.4.3 Revenue generated from gazetted Forestry land

All hunting revenue in this land category is generated from trophy fees and daily rates paid directly to the Forestry Commission as it conducts its own hunting operations. This revenue contributes wholly to the conservation budget of the Forestry Commission, a Government agency managing state protected indigenous forest areas as is the case with hunting revenue generated by the Zimbabwe Parks and Wildlife Management Authority.

6.4.4 Revenue from Privately Owned Areas

As in the above land category, hunting revenue comes from trophy fees and daily rates as the land owners are also the hunting operators. The Authority only receives administration fees for processing quotas, hunting permits, export permits, registration fees and fees paid for assistance offered in surveys. The ZPWMA Rangers who accompany the hunts are also paid daily fees.

6.4.5 Other Benefits from Elephant Trophy Hunting

- Most of the meat from hunting in communal areas is availed to rural communities where they provide much needed protein.

- On State land, hunting takes place in areas that are not suitable for conventional agriculture due to high temperatures, rugged terrain, low rainfall and are far from tourism routes. Without hunting, such areas would be prone to poaching due to absence of human activity. Furthermore hunting brings accessibility to such remote areas in terms of roads, airstrips, and water development etc thus making the areas have economic, environmental and social benefits.
- Meat from the other hunting categories is largely sold as supplementary feed to crocodile farmers and other wildlife breeders in the country.

6.4.6 Multiplier Benefits from Elephant Trophy Hunting

Besides direct benefits from safari hunting such as cash and employment, indirect benefits arise from the multiplier effect in downstream activities for example taxidermists, freight companies, and ivory manufacturers. Hunting concessions employ locals as skimmers, cooks, trackers, guides and drivers.

6.5 Elephant Protection Strategies

6.5.1 Resources Available For Law Enforcement and Fire Management

A total of 1,346 of the 1,437 recruited rangers were available for deployment against a field ranger establishment of 2,200. The current ranger complement is able to cover 29,120km² giving a variance of 33, 110.km² from the total Parks area of 62, 230km².

As at 31 December 2013, the Authority had a total of 103 vehicles for field law-enforcement duties and only 69 vehicles were operational. Ideally the Authority should have 150 vehicles dedicated for law enforcement duties. Thirteen (13) of the vehicles were received from donors. The Authority also bought 7 vehicles and 2 boats. 38 radios and 3 repeater links were also procured. Due to financial constraints, the Authority is not able to procure all of its transport (vehicle and fuel) requirements including field equipment and patrol kits. The rangers for field patrols are also not adequate. Table 11 below shows the ranger staffing levels, vehicles and boats status in the Authority in 2013.

Table 11: Status of Rangers, Vehicles and Boats in 2013

Park Regions	Rangers			Vehicles		Boats	
	Ideal	Actual	Available	Ideal	Available	Ideal	Available
Central	382	395	158	25	7	10	3
Northern	568	425	168	50	8	14	6
Southern	436	260	218	25	14	11	4
Western	814	357	351	50	17	10	4
Total	2200	1437	1346	150	69	45	17

6.5.2 Implementation of Urgent Measures to curb Elephant Poaching and Trafficking

Following the adoption of Urgent Measures to halt and reverse the trends in illegal killing of elephants at the high level African Elephant Summit held on 2-4 December 2013 in Gaborone, Botswana, the Government of Zimbabwe has implemented the following:

Urgent Measure 1

- a) Zimbabwe has adopted a zero tolerance initiative to poaching, illegal ivory trade and trafficking. The Parks and Wild Life General Laws Amendment number 5 of 2011 provides for a 9 years jail term for anyone found in possession of elephant ivory or for the killing of an elephant through whatever means. On a second and subsequent conviction the law provides for an eleven years jail term up to a maximum of 20 years in prison to the offender.
- b) Statutory instrument 45 of 2014, Parks and Wildlife Management Authority (Tariff of Fees) By-laws, 2014 provides for the value of raw elephant ivory pegged at US\$180 per kilogram and such value is used in the preparation of expert assessment the value of the recovered or intercepted ivory. This assessment forms the basis of docket preparation and will assist in determination by the courts as the offence will already be classified as serious.
- c) Statutory Instrument 57 of 2012 Parks and Wildlife (Payment for Trapping of Wild Animals) Notice, 2012, place the value of a live elephant at US\$50 000 which value will form the compensation that a sitting magistrate will recover from the accused person in the event of a successful trial and subsequent conviction.
- d) Statutory Instrument 56 of 2012 Parks and Wildlife (Payment for hunting of animals) Notice, 2012, place the value of an elephant at US\$50 000 which forms the value of compensation which will be paid out by the accused to the complainant in the event of a successful trial and subsequent conviction.
- e) The three legal instruments cited in b, c, and d above are legislative efforts to ensure that there are no loopholes depending on the circumstance that are available for an offender will to escape prosecution under the circumstances.
- f) The Criminal Law Codification and Reform Act Chapter provides for the charge of criminal abuse of office by law enforcement or public officials involved in corrupt practices related to poaching and trafficking.
- g) The Firearms Act criminalizes the use of automatic weapons such as AK47 assault rifles that are currently utilized by poachers to further their illegal activities. The same Act further criminalizes a person for mere possession of ammunition and arms of war which effectively attracts a jail term of up to 5 years in prison for such related offences.
- h) The Customs and Excise Act makes it an offence to anyone caught smuggling elephant ivory out of Zimbabwe and import of such into Zimbabwe.

Urgent Measure 2

- a) The Zimbabwe Environmental Management Act criminalizes the administration of poison such as cyanide which is used by poachers to kill elephants. Through the same Agency of the Zimbabwe Government, sample collection from poisoned sites is being handled by professionals in this unit who have laboratories for testing such poisons and hazardous substances which results are used in any trial that is related to elephant poisoning. The Act was implemented during trial of accused persons involved in elephant poisoning leading to the conviction of poachers who poisoned elephants in Hwange National Park in 2013. Most of the offenders were given sentences of up to 18 years in prison.
- b) Awareness workshops that targeted the judiciary, the prosecutors, law-enforcement agencies and other stakeholders involved in the fight against elephant poaching were held and this resulted in significant improvements in the expeditious preparation of dockets and finalization of cases with a marked improved in convictions in the various courts around the country.
- c) Task force teams at all level of Government in the law enforcement units have been put in place at national, provincial as well as district level. These units deal with poaching related matters in their areas of policing. Stakeholders in the private sector are assisting with the provision of scarce resources that are needed to combat poaching and ivory trafficking.
- d) The use of helicopters and other aircrafts in the fight against poaching has also increased and this has assisted with deployments and detection of poachers in the field.
- e) Cross border collaboration with law-enforcement agencies with neighbouring countries such as Botswana, South Africa, Zambia and Mozambique in information sharing on poacher movements and dealing with immediate incursions has tremendously helped in detection of cross-border poaching and trafficking incidents.

Urgent Measure 3

- a) Elephant poaching has been elevated to the level of National security in the Government of Zimbabwe. All security organs of the state are now playing a role in the fight of elephant poaching.
- b) The Zimbabwe Republic Police Support Unit in collaboration with the Zimbabwe Parks and Wildlife Management Authority carries out anti-poaching activities at all levels. The Minerals and Border Control Unit of Zimbabwe Republic Police Criminal Investigations Department is a specialized unit that investigates and prepares wildlife cases for court.
- c) The Air-force of Zimbabwe plays a major role upon request in the provision of services and equipment in the fight against poaching.

Urgent Measure 4

- a) Within the Zimbabwe's National Joint Operations Command (JOC) structure, elephant and rhino poaching have been elevated to a higher level of National Security Threat thereby making it a priority area of focus.
- b) The same structures of the JOC committees have been activated both at national, provincial and district levels for effective monitoring of poaching situation on the ground.

Urgent Measure 5

- a) Information of illegal killing of elephants is being submitted to the CITES MIKE Programme.
- b) The ETIS data on illegal trade is also submitted to TRAFFIC.

Urgent Measure 6

Zimbabwe is participating in various law-enforcement activities involving neighboring states and countries in the SADC region. Officers from Zimbabwe have also attended a number of workshops and training on anti-poaching and wildlife trafficking including the execution of controlled deliveries. Valuable expertise has been imparted to the officers and this has assisted in the carrying out of joint cross-border operations.

Urgent Measure 7

- a) Zimbabwe is a member of the regional wildlife enforcement network SAWEN and this has assisted in information sharing and intelligence gathering on the latest techniques in the fight against elephant poaching and ivory trade.

Urgent Measure 8

- a) The Zimbabwe Government established the Wildlife Ecological Trust who mandate is to mobilize resources for the fight against elephant poaching through whatever means. Its thrust is to source for funds and material resources that are allocated to needy areas according to the nature of threat and threat levels in each particular area.
- b) Resources in the form of funds, vehicles and field equipment have been raised for Hwange National Park.

Urgent Measure 9

- a) Public awareness campaigns for local communities are being carried out in affected areas. The awareness and outreach programmes also target school children.

Urgent Measure 10

- a) Zimbabwe has secure facilities for elephant ivory storage at the Central Ivory Stores and also a good registration and database system. The security systems have recently been upgraded to minimize risk.

Urgent Measure 11

- a) The principal law and Act which governs and regulates the purchasing, selling and exporting of worked elephant ivory and ivory products for non commercial purposes is the Parks and Wildlife Act Chapter 20:14. The Act prohibits the hunting of any animal and removal of parts of animals in any form from any land without authority. The Act provides for the protection of animals in the following designated areas, National Parks, Parks and Wild life Estates, Parks and Wild life land, Sanctuaries and Safari Areas. The Act further provides for categorization of animals into protected and specially protected animals. Of particular interest in this case is Part XII which prohibits the hunting, removal and sale of live animals and animal products.
- b) From the enabling provisions in the Act, the Minister has issued Statutory Instrument 362 of 1990 Parks and Wild Life (General) Regulations which provides in sections 66-75 for the regulation of manufacture and dealing in trophies to include worked elephant ivory.
- c) In addition there is Statutory Instrument number 76 of 1998, Parks and Wild Life (Import and Export)(Wild Life) Regulations which specifically deals with Import and Export of wildlife products.

Urgent Measure 12

- a) Zimbabwe's Communal Areas Management Programme for Indigenous Resources (CAMPFIRE) is currently under review. Several community empowerment strategies are also being implemented in areas adjacent to protected areas.

Urgent Measure 13

Zimbabwe is collaborating with Interpol at national and international levels. Elephant poaching is categorized as a serious crime attracting a heavy penalty in Zimbabwe.

Urgent Measure 14

The Government is collaborating up with the Government of South Africa through a bilateral arrangement with the University of Pretoria, whereby rhino samples are submitted through the RHODIS system for DNA analysis. It is hoped that the same process will be initiated and undertaken in the near future for African elephant samples.

6.6 Domestic Ivory Trade Controls

Zimbabwe's African elephant population is on Appendix II of CITES allowing:

- Trade in ivory carvings for non-commercial purposes

The Zimbabwe Parks and Wildlife Management Authority is fully implementing CITES Resolution 10.10 (Rev. CoP16) on Trade in elephant specimens. In addition, the following among other measures have also been adopted:

- a. Stricter Domestic Ivory Trade Controls
- b. Centralized Permitting System for Worked Ivory
- c. Control of quantities of Ivory sold to Registered Dealers
- d. Review of Dealer's Licences and Conditions
- e. Regular Inspections of Dealers Premises
- f. Deployment of Parks Officers at Ports of Exit and Entry
- g. Inspection of worked ivory tusks before Exports
- h. Revision of definition of worked ivory to comply with CITES
- i. Regular consultations bi-lateral engagements with officials in China
- j. Regular review of regulations on domestic ivory trade
- k. Reinforcement of security measures for stockpile in Government Central Ivory Stores
- l. Establishment of a comprehensive and effective stock inventory, reporting and enforcement system.

6.7 Habitat Management

6.7.1 Fire Management

In Zimbabwe, during the dry season, fires are frequent and they negatively affect the wildlife habitat. Most of these fire incidences are due to anthropogenic factors but some are from natural causes. During the year 2013, 56% of the targeted 6644.4km was achieved on fire guards whilst early block burning was at 69%. A total of 116 fire awareness campaigns were done country wide. Accidental fires burnt approximately 1 309.6 km² (2.1%) of the country's Parks Estate (Table 12). In 2012, 1198 km² (2.4%) were lost to accidental fires. There is no significance difference between the areas burnt by accidental fires in 2012 and 2013.

Table 12: Fire management and suppression measures

Park Region	Fireguard			Early burning (blocks)			Late burning (blocks)			Awareness campaigns		
	Target for 2013 (km)	Actual done 2013 (cum) km	% done (cum)	Target for 2013 (km2)	Actual done 2013 (cum) km2	% done (cum)	Target for 2013 (km2)	Actual done 2013 (cum) km2	% done cum	Target for 2013	Actual (Cum) 2013	% achieved to date (Cum)
Central	811.4	540	67	504	419.5	83	296	0	0	69	23	33
Northern	2437	1952	80	1584	1281	81	451	16	4	34	17	50
Southern	697	566	81	396	378	95	30	2	7	103	61	59
Western	2719	665	24	898	264	29	90	0	0	220	15	7
Total	6664.4	3723	56	3382	2342.5	69	867	18	2	426	116	27.23

(ZPWMA Annual Report, 2013)

6.7.2 Game Water Supply

The ZPWMA provides water for elephants and other wildlife in Hwange National Park. There are 70 boreholes in the park. Most of the boreholes are diesel powered with a few electric, solar and wind powered engines. Currently a total of 54 boreholes are working due to resource constraints (Table 13). A single diesel engine consumes approximately 500 liters a month. There private sector is assisting with maintenance, procurement of spare parts and general servicing of some of the boreholes.

Table 13: Status of working Boreholes in Hwange National Park

Area	Working	Not working	Diesel Powered	Solar powered	Windmill Powered	Electric powered
Main Camp	39	7	32	3	3	1
Robins	6	7	6	0	0	0
Sinamatella	9	1	9	1	2	1
Total	54	15	47	4	5	2

7.0 POPULATION MONITORING

(Refer to Sections 3.1 to 3.6)

8.0 CONSERVATION STATUS

8.1 Global status

8.1.1 IUCN

The African elephant (*Loxodonta africana*) is listed on the IUCN Red List of Threatened Species as Vulnerable

8.1.2 CITES

The African elephant (*Loxodonta africana*) is listed on Appendix I of the Convention on International Trade in Endangered Species of wild flora and fauna (CITES) except populations of Botswana, Namibia, South Africa and Zimbabwe with the following Annotation:

Populations of Botswana, Namibia, South Africa and Zimbabwe (listed in Appendix II):

For the exclusive purpose of allowing:

- a) trade in hunting trophies for non-commercial purposes;*
- b) trade in live animals to appropriate and acceptable destinations, as defined in Resolution Conf. 11.20, for Botswana and Zimbabwe and for in situ conservation programmes for Namibia and South Africa;*
- c) trade in hides;*
- d) trade in hair;*
- e) trade in leather goods for commercial or non-commercial purposes for Botswana, Namibia and South Africa and for non-commercial purposes for Zimbabwe;*
- f) trade in individually marked and certified ekipas incorporated in finished jewellery for non-commercial purposes for Namibia and ivory carvings for non-commercial purposes for Zimbabwe;*
- g) trade in registered raw ivory (for Botswana, Namibia, South Africa and Zimbabwe, whole tusks and pieces) subject to the following:*
 - i) only registered government-owned stocks, originating in the State (excluding seized ivory and ivory of unknown origin);*
 - ii) only to trading partners that have been verified by the Secretariat, in consultation with the Standing Committee, to have sufficient national legislation and domestic trade controls to ensure that the imported ivory will not be re-exported and will be managed in accordance with all requirements of Resolution Conf. 10.10 (Rev. CoP16) concerning domestic manufacturing and trade;*
 - iii) not before the Secretariat has verified the prospective importing countries and the registered government-owned stocks;*
 - iv) raw ivory pursuant to the conditional sale of registered government-owned ivory stocks agreed at CoP12, which are 20,000 kg (Botswana), 10,000 kg (Namibia) and 30,000 kg (South Africa);*
 - v) in addition to the quantities agreed at CoP12, government-owned ivory from Botswana, Namibia, South Africa and Zimbabwe registered by 31 January 2007 and verified by the Secretariat may be traded and dispatched, with the ivory in paragraph g) iv) above, in a single*

sale per destination under strict supervision of the Secretariat;
vi) the proceeds of the trade are used exclusively for elephant conservation and community conservation and development programmes within or adjacent to the elephant range; and
vii) the additional quantities specified in paragraph g) v) above shall be traded only after the Standing Committee has agreed that the above conditions have been met; and
h) no further proposals to allow trade in elephant ivory from populations already in Appendix II shall be submitted to the Conference of the Parties for the period from CoP14 and ending nine years from the date of the single sale of ivory that is to take place in accordance with provisions in paragraphs g) i), g) ii), g) iii), g) vi) and g) vii). In addition such further proposals shall be dealt with in accordance with Decisions 14.77 and 14.78 (Rev. CoP15).

8.2 National status

At the National level, the African elephant (*Loxodonta africana*) is not listed on list of Specially Protected Animals as is the case with rhinos due to the large and growing elephant population. It is however listed on the Schedule of Animals with high economic value as reflected in the recently gazetted Statutory Instruments and other legislative changes such penalties and compensation values for elephant poaching.

Elephants are a keystone species in any biome where they occur. They play an important ecological and biological role in ecosystems functioning, ensuring the survival and continued evolution of many species. These values are generally not measured and can go two ways. One is positive as an important habitat engineer, for example elephants can dig for water in dry areas ensuring the survival of other species. The other may be negative, as a mega-herbivore whose actions can lead to ecosystem degradation requiring restoration and intensive management.

Culturally the elephant has a symbolic importance. In traditional African culture the elephant represents power and strength. It also has a significant significance as a totem for some people in Zimbabwe and Africa at large. Furthermore in Africa rings or bracelets made from elephant hair are said to keep away evil spells.

In Zimbabwe therefore, the African elephant plays a crucial role to the country in various ways economically, culturally and ecologically.

9.0 CHALLENGES

9.1 Poaching (Illegal Harvesting of the Natural Resources)

Illegal harvesting of wildlife remains one of the challenges that the Authority continues to face. Wildlife poaching is being experienced on both State and private land, targeting high value species such elephants and rhinos. For commercial poaching the main targeted species include the rhino for its horn and elephant for ivory. Traditionally the commercial poaching has been perpetrated by foreign poaching syndicates but of late we have seen an increased involvement of locals

Subsistence poaching however mostly targets species include impala, kudu, eland and other antelopes.

9.2 Resource Constraints

To date the Authority has failed to generate meaningful and sustainable revenues from its current business and commercial activities. In the whole world conservation has never successfully commercialized profitably. Most conservation activities cannot be commercialized. Examples of such non-commercial yet core and essential conservation activities include law enforcement, fire management, problem animal control, soil erosion control, environmental education and awareness campaigns. As a result the few commercial activities that the Authority is engaged in through tourism (consumptive and non-consumptive) have not been able to raise enough funds to support operational expenditures and capital expenditure in the form of operational vehicles, radio communication equipment, patrol equipment. This situation has reduced revenue inflows and is exacerbated by poor performance of the tourism sector. Further, lack of Government support particularly to cover the afore-mentioned non-commercial but essential conservation functions can only add to the funding challenges of the Authority.

9.3 Under-capitalization and Deteriorating Infrastructure and Equipment

Since inception, the Authority had been characterized by a background of perennial under-funding from the fiscus. Conservation in general and wildlife in particular has never competed successfully for higher budget allocations when compared with other sectors such as Agriculture, National Security/Defence, Education, etc in any national budget. The creation of this parastatal was never accompanied by a capital expenditure budget allocation from central government. Such an allocation would have enabled the newly created parastatal to kick-start from a solid and durable capital springboard.

9.4 Diminishing, Limited and Low Donor Support

Since 2000, the country in general and the Authority in particular, continued to experience diminishing external support, not from the Central Government only, but also from the corporate sector and renowned environmental non-governmental organizations. A few financial resource-strapped environmental non-governmental organizations remained working on reduced areas of assistance to the Authority. The near disappearance of non-governmental support to the Authority was linked to the perceived bad publicity and related sanctions the country is receiving since 2000. The business performance of the corporate sector in the country was substantially affected by the above-mentioned adverse macro-economic environment and the sector is failing to meet its social and environmental responsibilities.

9.5 Statutory Functions of the Authority

The Authority has a statutory obligation to carry out functions such as problem animal control, fire management, law enforcement, environmental education and awareness campaigns, as its contribution to safeguarding our natural heritage, public safety and security, food security, etc. The costs of all these activities are borne by the Authority without any financial benefits at a time when the Authority is expected to be financially viable. It is noteworthy that the Parks Estate is constituted in part by some parks that do not generate revenue at all, hence the need for support from the fiscus. For example Chipinge Safari Area requires a lot of resources for Rhino protection and yet there is no tourism in that area.

9.6 Illegal Settlement into National Parks Areas

Following the land redistribution programme, the Authority witnessed a rise in the incidents where local communities are illegally settling themselves in designated wildlife areas under pretext of reclaiming their ancestral land. This is taking place in Gonarezhou National Park, Chegutu Safari Area, Chirisa Safari Area, Haroni and Rusitu Botanical Reserves, etc.

9.7 Land Use Conflicts

At landscape level there is a recent and increasing land use conflict phenomenon which is being caused by poor and or absence of regional land use planning. This problem manifests itself in form of increasing demand of mining, and incidents of human-wildlife conflicts such as crop raiding, livestock predation, loss of human life, property destruction, poaching, etc.

9.8 Striking a balance between conservation and commercialisation

The concept of sustainable utilisation of natural resources fundamentally imposes limits on the scope/scale business. For example trade regulations and limitations imposed by multilateral agreements such as CITES.

10.0 CONCLUSION

In view of the foregoing, Zimbabwe is making use of the best available scientific information on the status of the African elephant in the country to make non-detriment findings. The current harvest levels are not detrimental to the survival of the species. It is also evident that both quantitative and qualitative data is used in the decision making process. The African elephant population in Zimbabwe is growing and that current levels of trade are not detrimental to the survival of the African elephant in the wild. The species exists and is well monitored throughout its

range. In most of the areas where the elephant occurs however there is local over-abundance and severe habitat conversion.

The Government of Zimbabwe has recently revised its policies and legislation to promote wildlife conservation and to support local community development programmes. Levels of harvest and quotas for the African elephant are determined through an adaptive management approach, using baseline data, monitoring the impacts of previous harvests and responding to environmental variations. It is evident that quotas and offtake levels for the African elephant fall within very safe and sustainable limits in Zimbabwe. Protocols for monitoring are in place but significant resources are required to carry out regular national aerial surveys. Efforts by the Government of Zimbabwe through the strict management regimes and trade controls promote the conservation of not only African elephant but other wildlife species.

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