

STATUS OF THE RHINO POPULATION IN KRUGER NATIONAL PARK AND STRATEGIC INTERVENTIONS TO SECURE THE RHINO IN SOUTH AFRICA



**UNITE AGAINST
RHINO POACHING** | **SAVE OUR RHINO**

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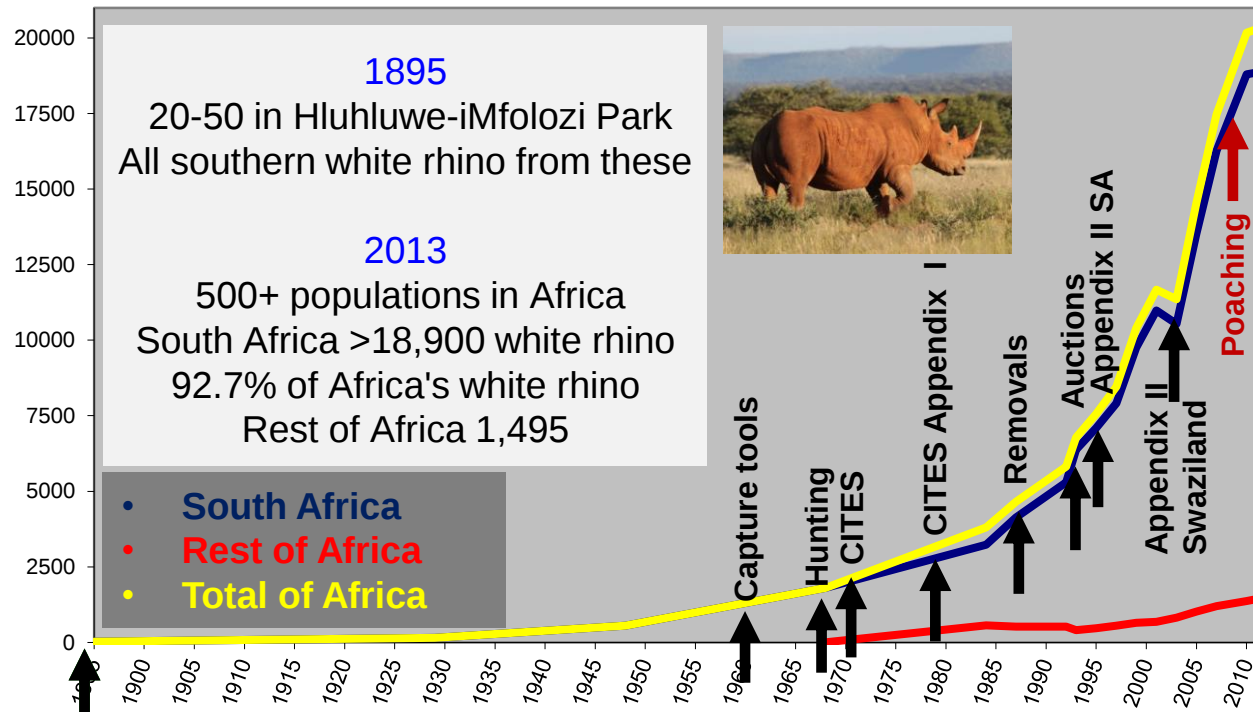


environmental affairs

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SOUTH AFRICA'S RHINO CONSERVATION SUCCESS



Country	Number	
South Africa	18933	↑
Namibia	524	↑
Kenya	394	↑
Zimbabwe	284	↓
Botswana	185	↑
Swaziland	84	↔
Zambia	10	↑
Uganda	14	↑
Mozambique	1	↓



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Checking population status

Survey $\approx 40\%$ of Kruger using blocks.

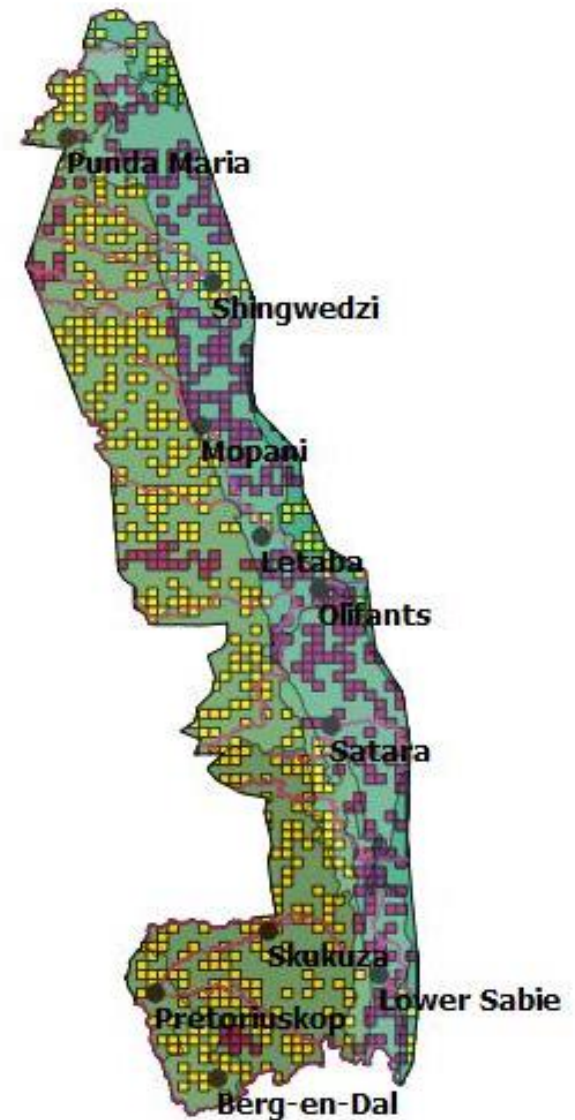
Define biases influencing estimates

Define population sizes using Jolly-Seber aerial survey estimators

Evaluate the trends in population estimates

Define optimal survey designs to detect trends

Define a survey strategy for Kruger

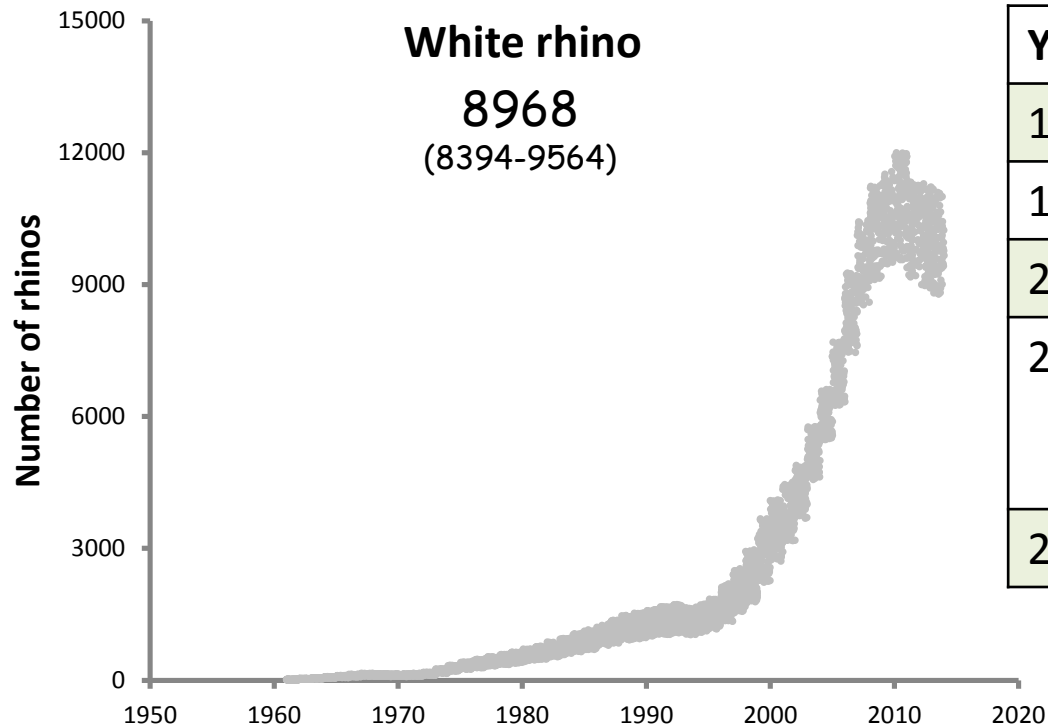


The tenuous basis of numbers

- Observer bias
 - Availability bias
 - Detectability bias
 - Capture bias
-



STATUS OF RHINOS IN KRUGER NATIONAL PARK



YEAR	POPULATION SIZE
1960	350 (Rhino introduced from KZN)
1990s	1 000
2000s	2 000
2010	8 700 – 12 200 Predicted that by 2013 there should be 7 700 to 11 200
2013	8 400 – 9 600 (survey estimate)

Stabilization is a combination of poaching, management and ecology
Management removals key to overall rhino population of South Africa



INTEGRATED INTERVENTIONS FOR SOUTH AFRICA

Compulsory interventions

Pro-active anti-poaching
Actionable intelligence
Responsive legislative framework

Interventions to increase rhino numbers

Strategic removals
Conservancies, strongholds
Conservation husbandry

Think big
Start small
Act now

Long-term sustainability interventions

Creating sustainable demand
Supply options

Game-changing interventions

Short-term disruption of organized crime
Alternative economic choices for communities

International and National Collaboration and Cooperation