

# Ecological outcomes of Wildlife Management

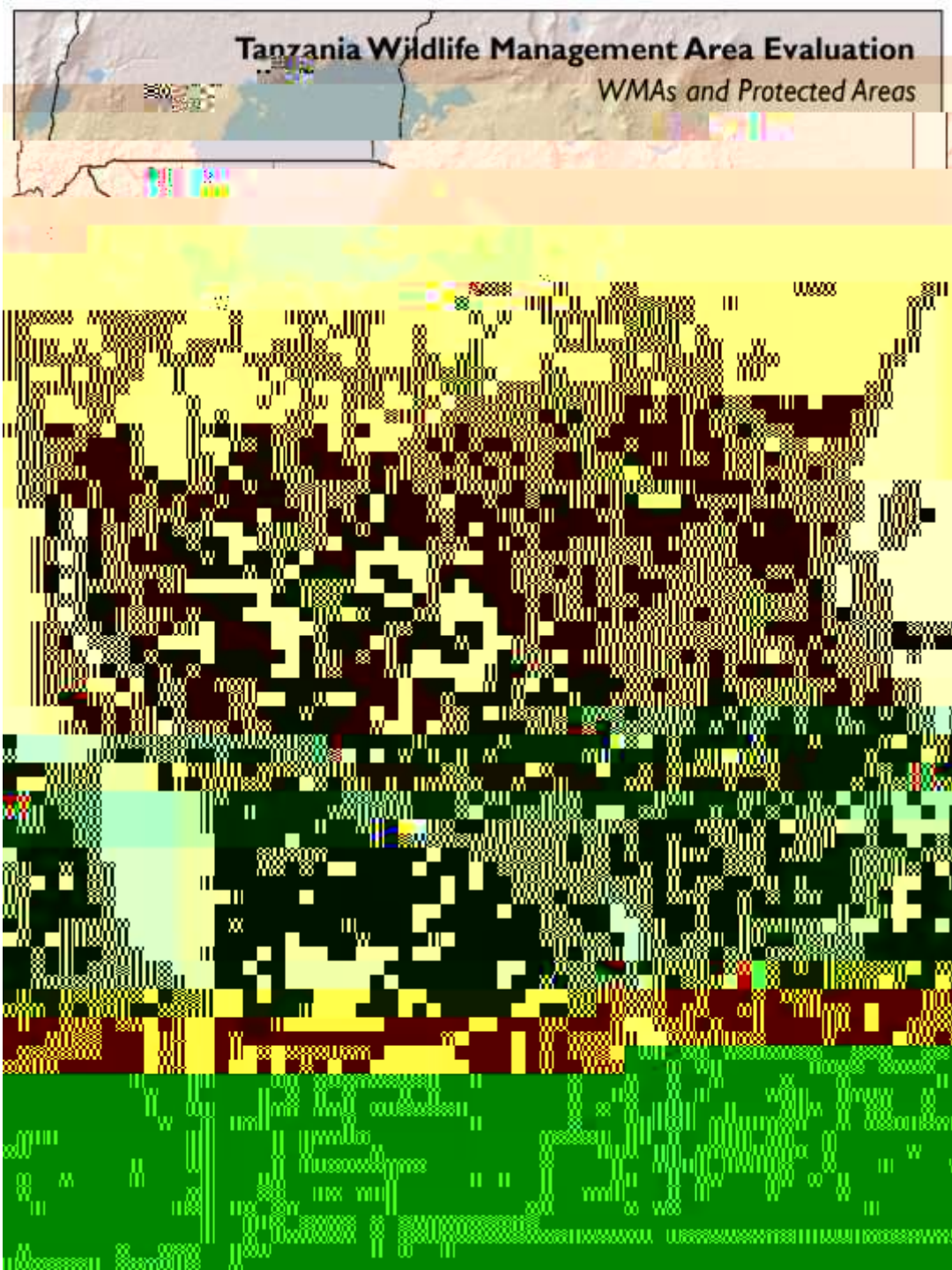
# Ecological outcomes of WMAs in Tanzania

# What are the ecological outcomes of WMAs?



# Why WMAs?

Improve wildlife conservation  
through benefit sharing with  
communities



Map from WWF-USAID  
WMA status report 2013

# Ecological outcomes of WMAs

- Methods:
  - Remote sensing (1975-2014)
  - Ground truthing 2014
  - Aerial census data before and after establishment of WMAs
  - BACI analyses
- Variables:
  - Vegetation cover/ habitat type
  - % land converted to cultivation / settlement
  - Wildlife counts    population trends
  - Livestock counts    trends over time

# Preliminary shortlist of WMAs and available data

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WMA	Aerial counts before gazettment	Gazetted	Aerial Counts available
Enduimet	2003, 1990; 1994;2004;2006	2007	2007, 2013
Makame	no	2009	2011
Burunge	2006, 2002-2004	2006	2009, 2011
Tunduru	no	2003	2006; 2009; 2011, 2013
Mbarang'andu	2006	2006	2006; 2009; 2011, 2013
Ngarambe-Tapika	no	2003	2006; 2009; 2011, 2013
Liwale	no	2003	2006; 2009; 2011, 2013

# Aerial wildlife census in 2014 & data collection on livestock numbers





