







MAU COMPLEX UNDER SIEGE

Values and threats

A presentation by:

UNITED NATIONS ENVIRONMENT PROGRAMME KENYA WILDLIFE SERVICE KENYA FORESTS WORKING GROUP EWASO NGIRO SOUTH DEVELOPMENT AUTHORITY

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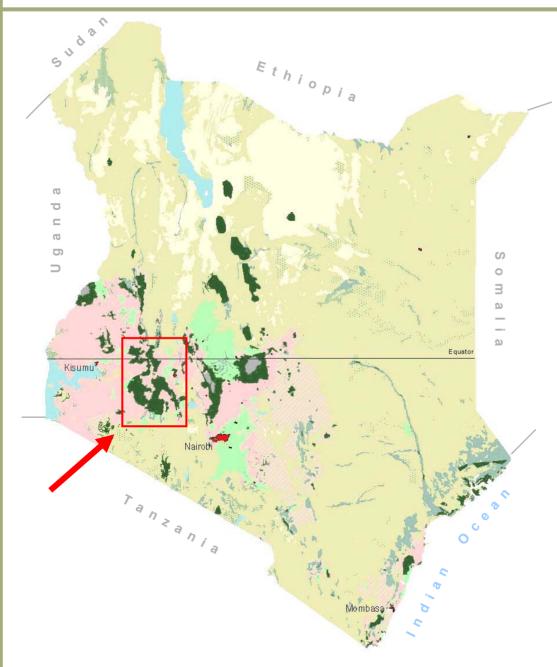


Introduction: Location and extent









The Mau Complex covers some 400,000 ha, as large as Mt. Kenya and the Aberdares combined.

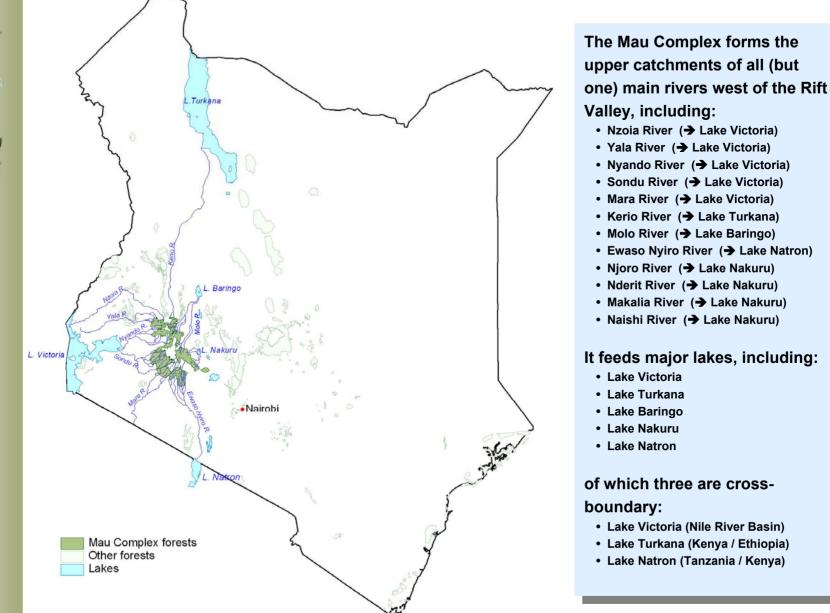
It is the largest forest of Kenya.

As a montane forest, it is one of the five main "water towers" of Kenya, with Mt. Kenya, the Aberdare Range, Mt. Elgon and the Cherengani Hills.





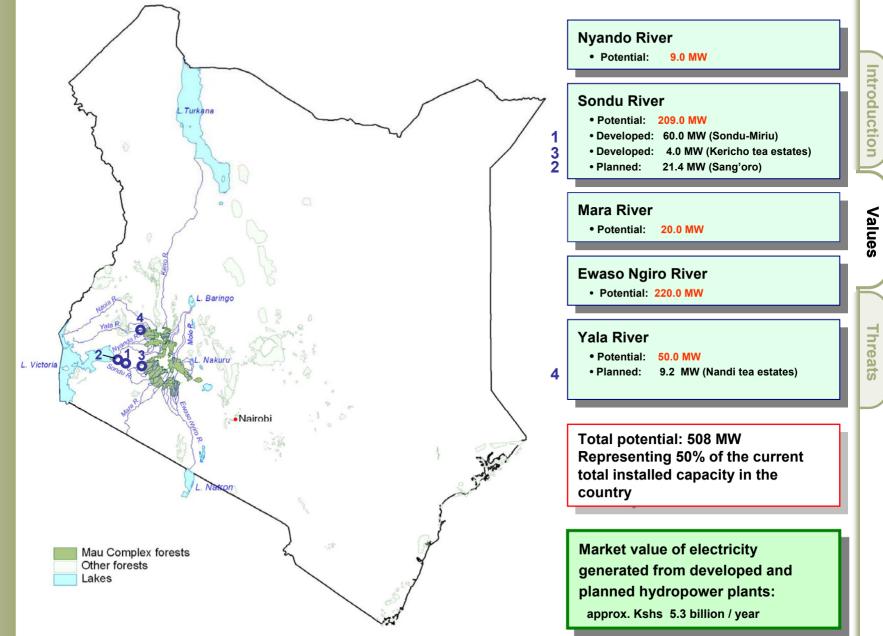
Mau Complex: critical water catchments



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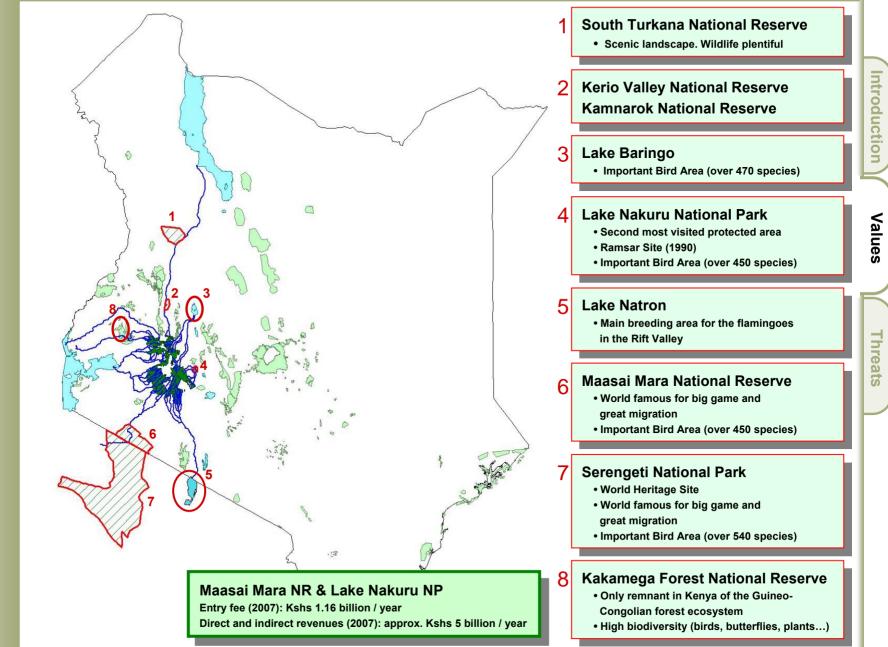


Mau Complex: catchments with high hydropower potential





Mau Complex: key to major conservation areas



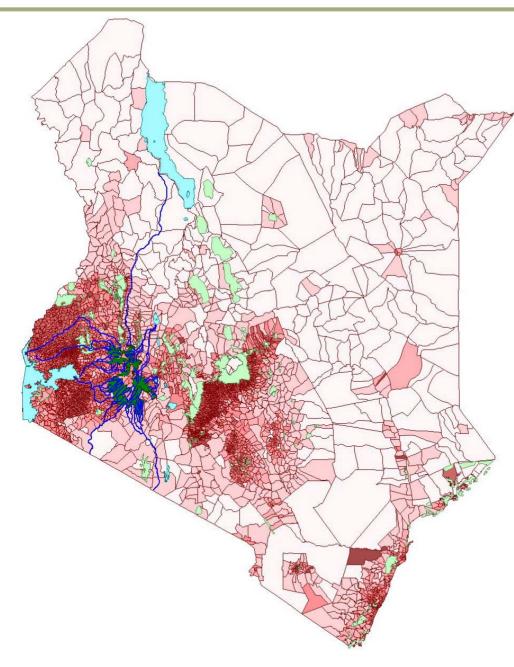


Values: Key to people's livelihood



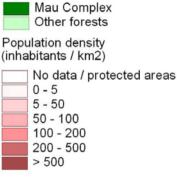






A large majority of Kenya's population lives in Lake Victoria basin. This region is crossed by major rivers flowing from the Mau Complex. Some 5 million people live in the sublocations crossed by these rivers.

In addition the Mau Complex provides environmental services essential to crop production (continuous river flow, favourable micro-climate conditions) as well as many products (medicinal plants, firewood and grazing).



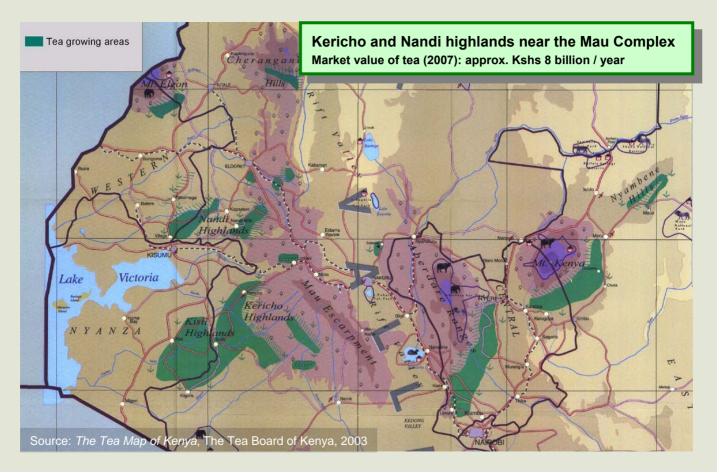




Tea growing areas are located near montane forests where conditions for optimum tea production are met: • Constant moisture

- Soil temperature between 16 and 25 °C
- Air temperature between 10 and 30 °C

The largest tea growing areas in Kenya are near the Mau Complex, in particular South West Mau forest (Kericho), Tinderet and Northern Tinderet forests .



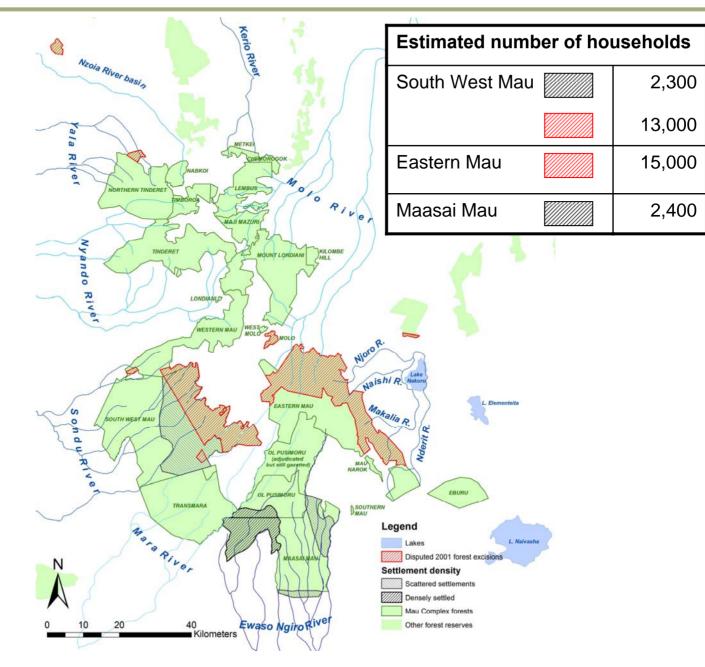


Threats: 2001 forest excisions and illegal encroachments









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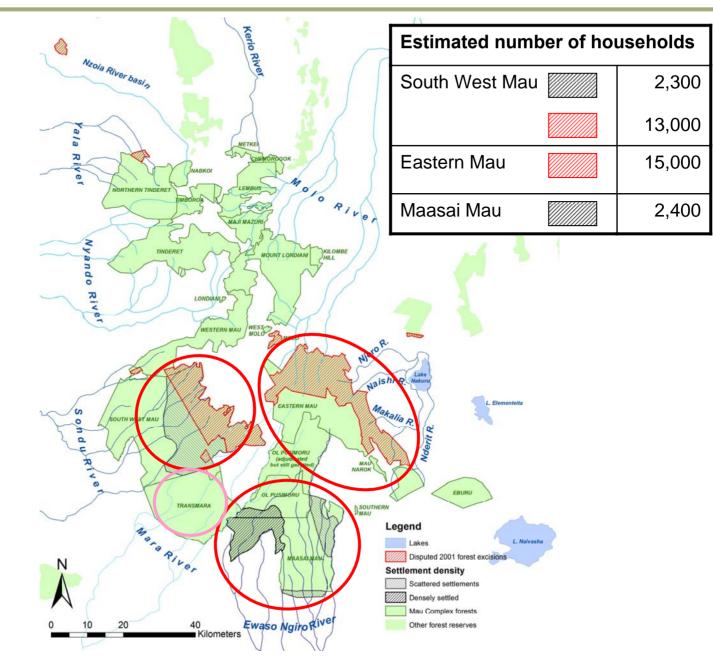


Threats: 2001 forest excisions and illegal encroachments









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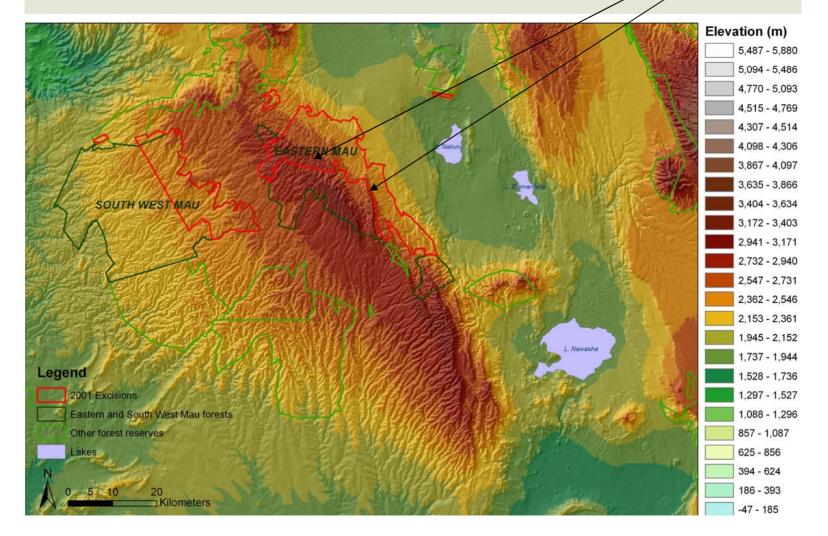
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Eastern Mau FR: 2001 excision affects the top of the Mau

In 2001, the Government excised over 67,000 hectares of forest reserve land, mainly in the Mau Complex. The largest excisions affected Eastern Mau Forest Reserve and South West Mau Forest Reserve where 35,301 ha and 22,797 ha respectively were excised representing 54.3 % and 27.3 % of these forests. The excision in Eastern Mau covers parts of the <u>summit of the Mau escarpment</u>.

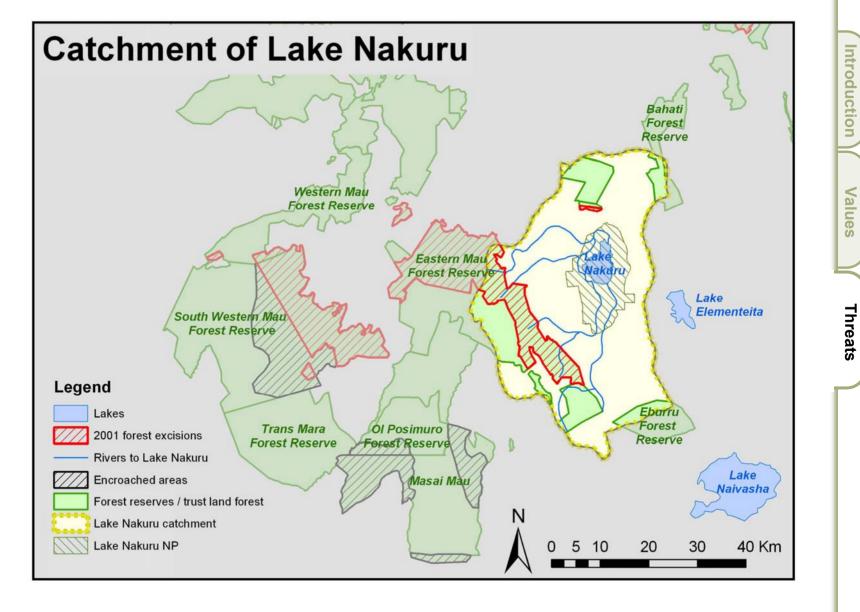


















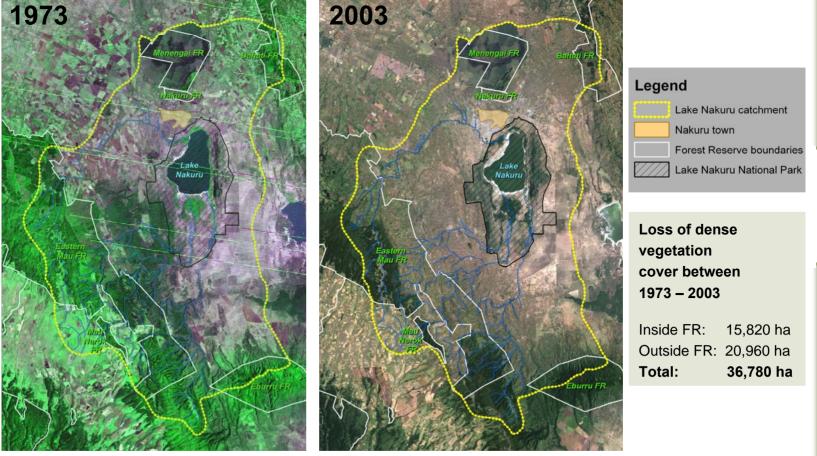
Eastern Mau FR: 2001 excisions affect Lake Nakuru

The 2001 excision in Eastern Mau impacts tremendously on the catchment of Lake Nakuru. Between 1973 and 2003, 36,780 hectares of dense vegetation cover were lost in the catchment of Lake Nakuru, representing a loss of 49 % of its total dense vegetation cover. Boreholes are already drying (Egerton University) and rivers becoming seasonal (Njoro).

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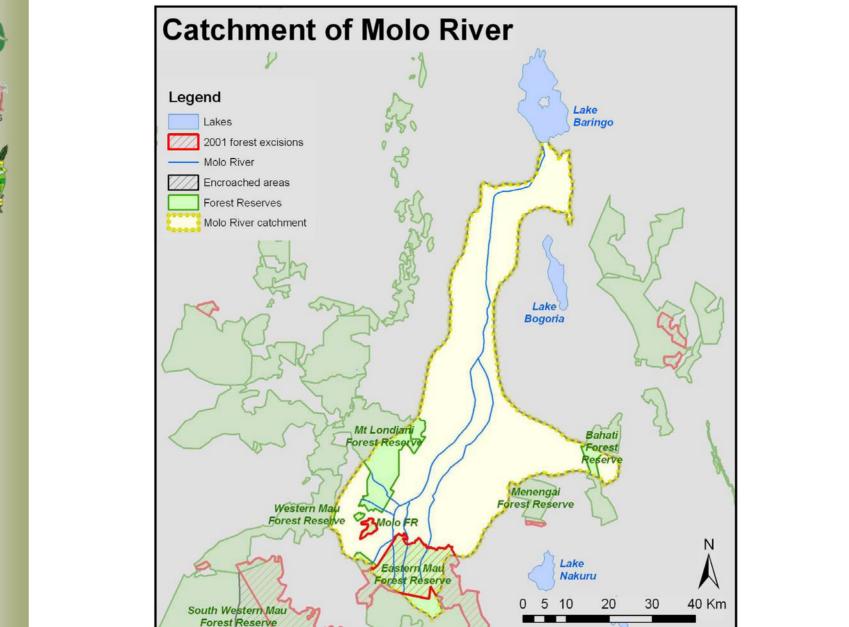


Sources

- Landsat MSS and ETM images. False colour composition
- Forest boundaries: KIFCON project, Forest Department



Eastern Mau FR: 2001 excisions affect Lake Baringo



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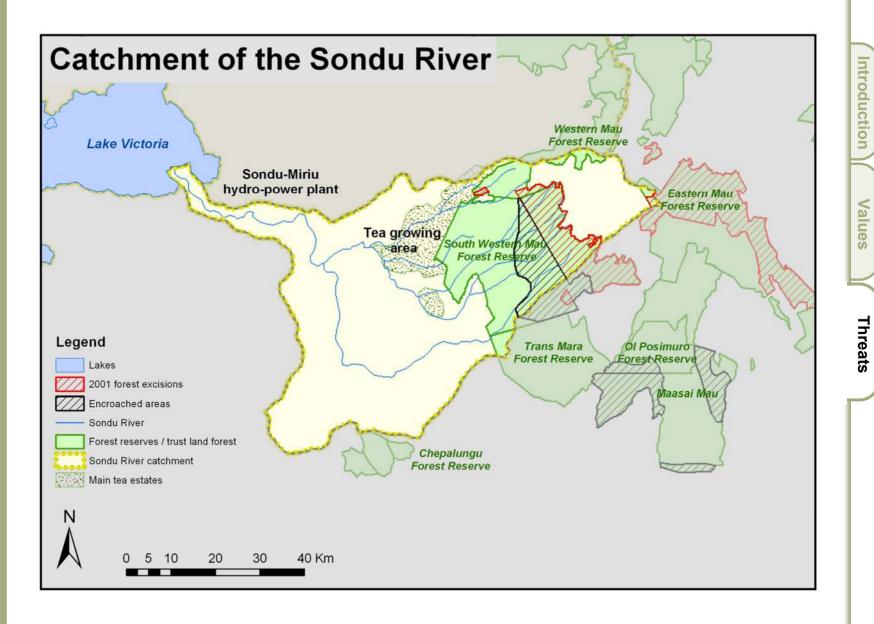
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South West Mau FR: 2001 excisions & illegal encroachments







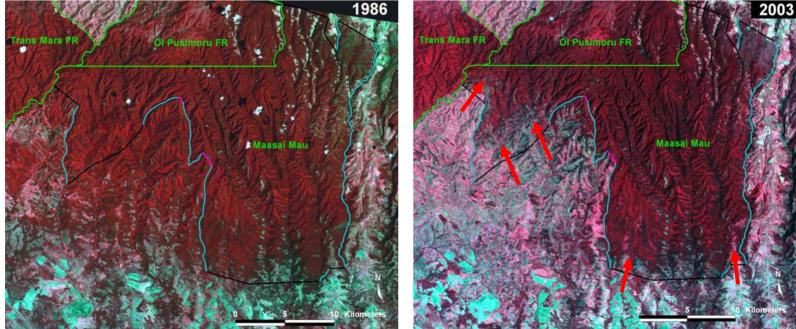


South West Mau FR: Illegal encroachments





The boundaries of the Maasai Mau Forest (46,278 hectares) were agreed upon in 1987, based on the work of the Ntutu Commission. Since the delineation, large tracks of forest were clear felled outside the boundaries. More recently, encroachments have taken place inside the forest boundaries.



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Loss of forest cover between 1986 – 2003

Inside the boundaries:	3,382 hectares
Outside the boundaries:	16,948 hectares
Total:	20,330 hectares
representing 30 % of the forest inside and	
outside the boundaries of the Maasai Mau	

River boundary

- Ridge boundary
- Straight line boundary
 - Forest-forest boundary
- Main encroachment

Sources

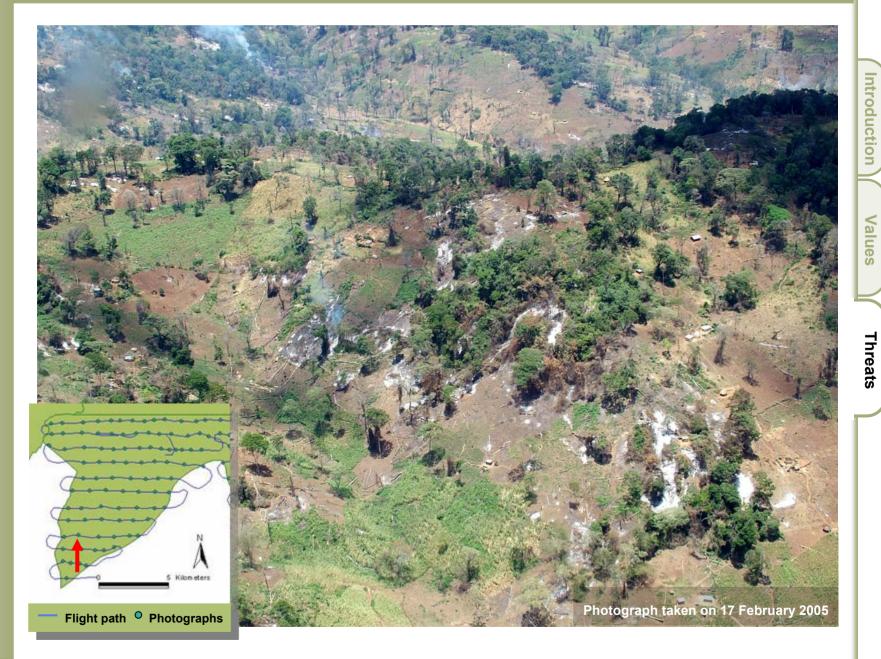
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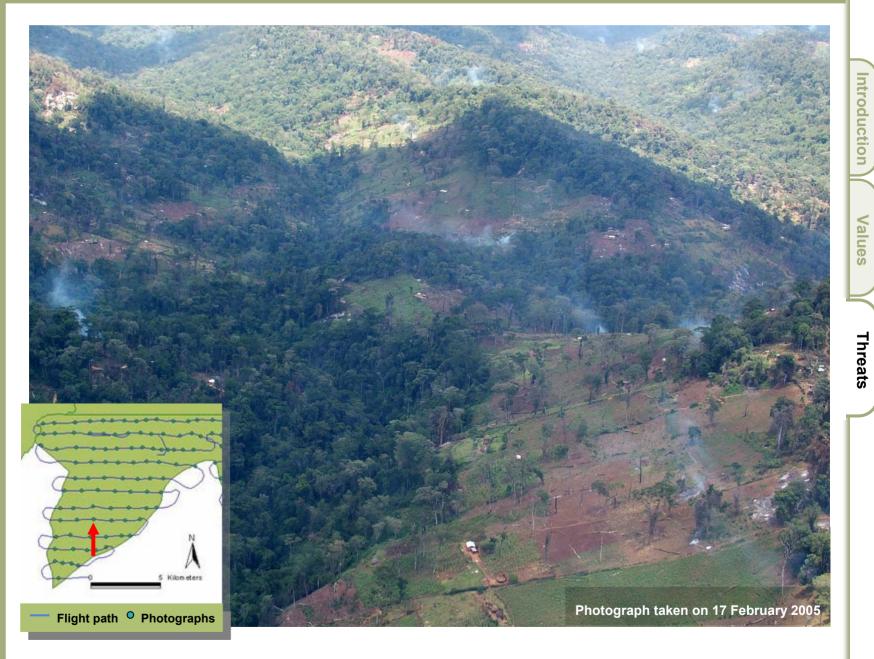










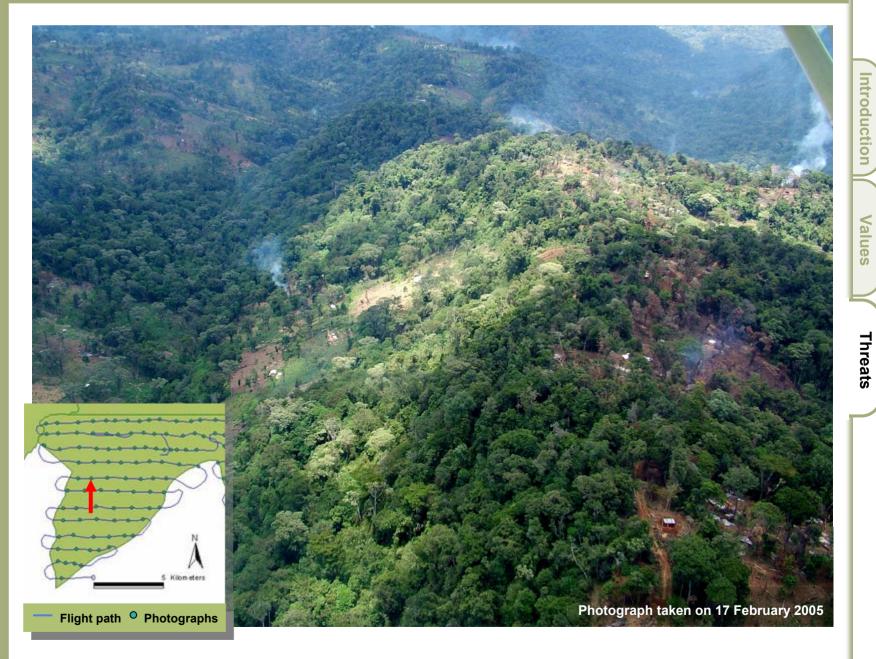




















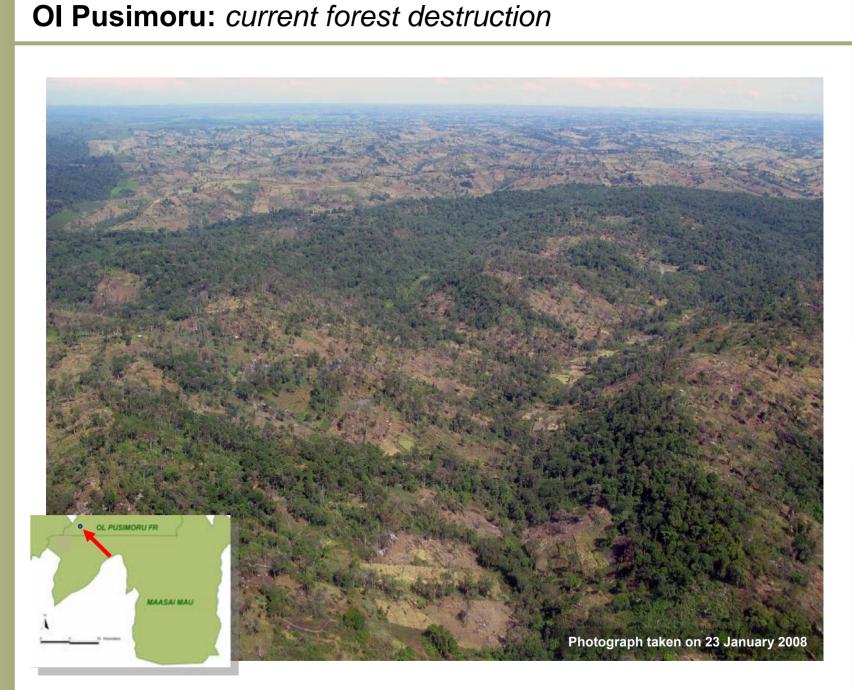












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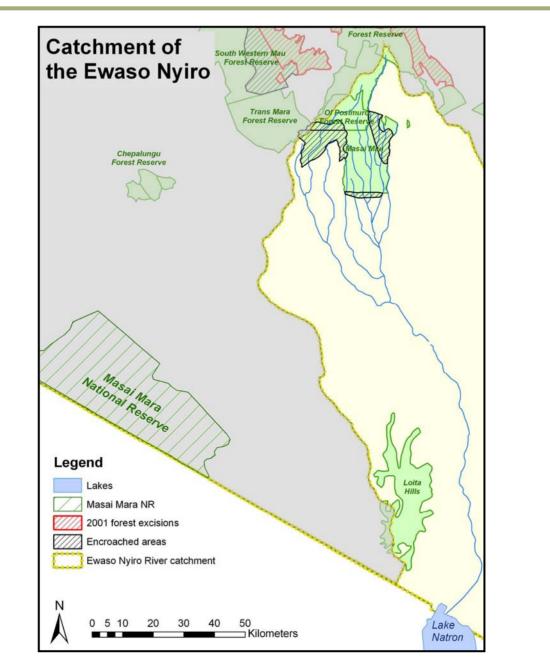


Maasai Mau / OI Pusimoru: Impacts on Ewaso Ngiro River

















Transmara FR: *Private tea estates*

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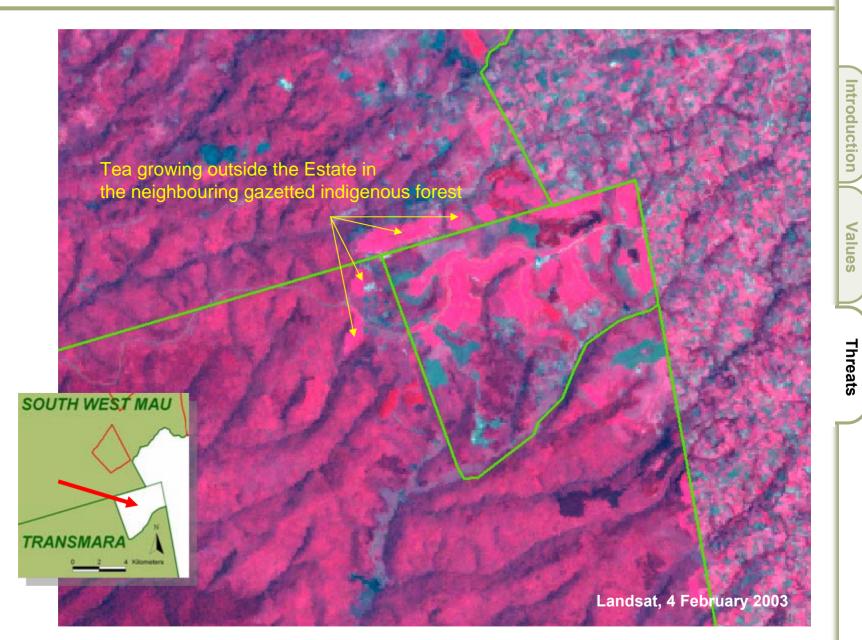


Transmara FR: Private tea estates









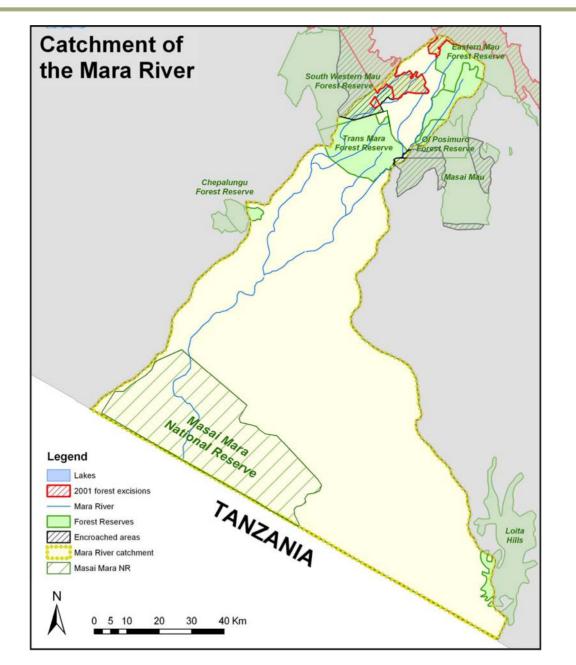


Transmara FR: Impacts on the Mara River









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