

# East Africa using a distributed model

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### Background

- years
- watershed
- that can sustainably be put under agroforestry

- simulation of agroforestry
- (streamflow)
- Agroforestry simulated as woodlots
- Scenarios based on increment of tree cover in agricultural land
- Accomplished in SWAT by conversion of some agricultural HRUs to woodlots
- Selection of target HRUs based on slope criteria



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Mara River Basin (area = 10,550 km <sup>2</sup> )			
enario	Lower slope threshold (%)	area (ha)	% of watershed are
<b>S1</b>	20	18,559	1.8
<b>S2</b>	15	34,321	3.3
<b>S3</b>	10	63,810	6.0
Nyangores sub-watershed (area = 692 km <sup>2</sup> )			
enario	Lower slope threshold (%)	area (ha)	% of watershed are
<b>S1</b>	20	4,420	6.4
<b>S2</b>	15	9,965	14.4
<b>S3</b>	10	19,380	27.9