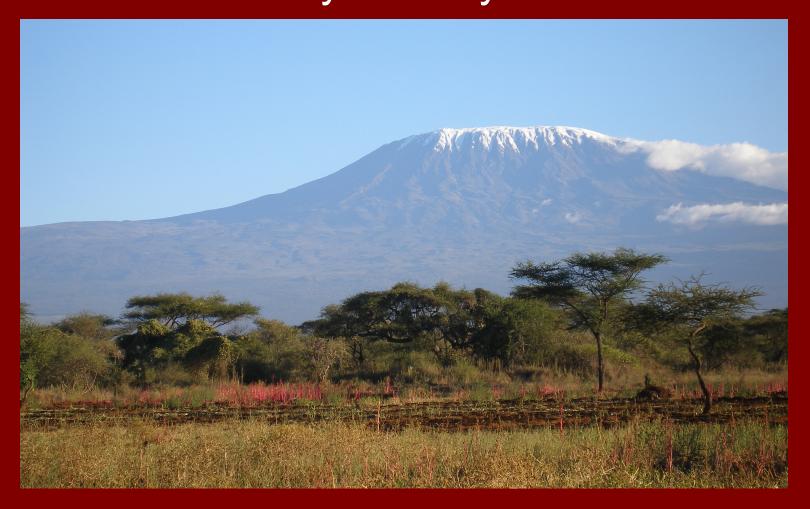
Public Health Field Study Kenya, East Africa 30 May – 5 July 2007



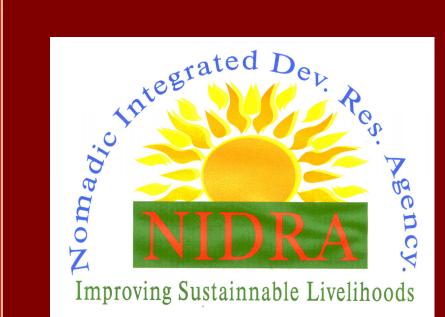


Lindsey Jones DVM – MPH Student

The School for Field Studies (SFS) in partnership with the Nomadic Integrated Development **Research Agency** (NIDRA) conducted a baseline survey to assess health indicators in the rural nomadic areas within the Oloitokitok District.



The School for Field Studies Environmental Field Studies Abroad



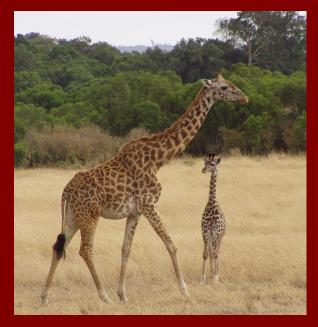
Loitokitok District



Amboseli & Tsavo West







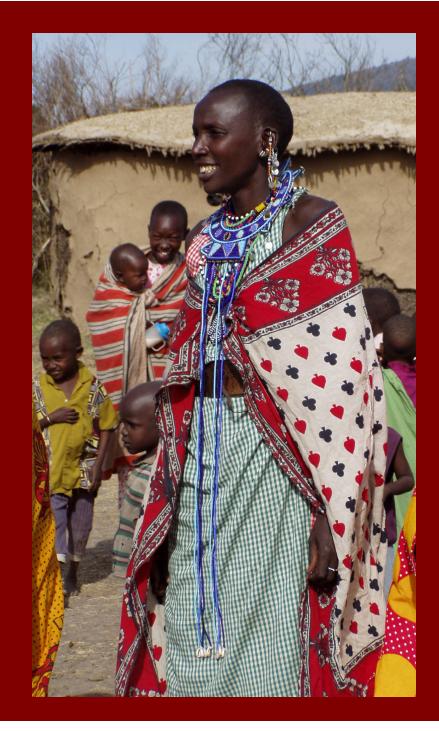


Diverse MPH Field Study Team



The Maasai





Transition to Agro-Pastoralism



Course Work for Cultural Integration



Community Service – Health Clinics

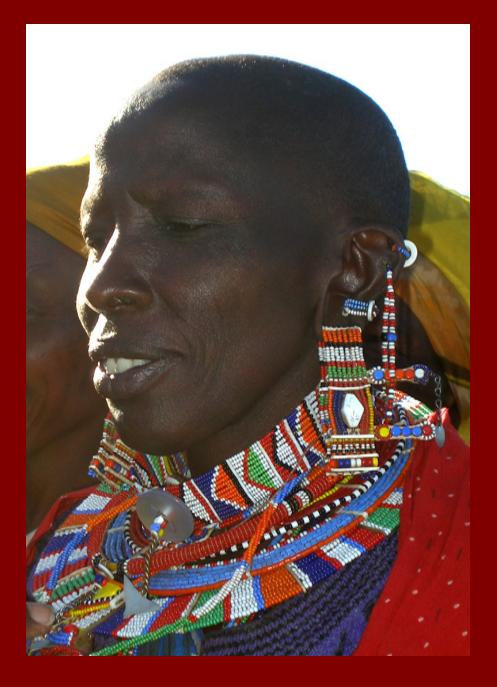


Baseline Survey of Health Indicators

Rural Nomadic Communities Loitokitok District Kenya

Improving SFS/NIDRA 2007 Livelihoods

- Group ranches in the Loitokitok District are undergoing rapid landuse changes, from traditional Maasai pastoralism to a more agro-pastoral lifestyle.
- These changes have brought about new environmentally related health problems for the Maasai.
- Five year PH program to address assess of need.



Methodology

Design

- 2 stage 30x30 cluster sampling
- Randomization used to pick households
- Three surveys
 - Household survey 300 surveys taken
 - Mortality survey Every household
 - Childhood survey Children
 - 6 59 months & 60 115 cm
 - Anthropometric data
 - Immunization data
 - 955 children were surveyed



Areas Evaluated

- Nutrition
 - Malnutrition
 - Acute
 - Chronic
- Health Status
 - Immunization
 - Healthcare Source
 - Morbidity & Mortality
 - Child Delivery Location

- Water & Sanitation
 - Source
 - Treatment
 - Rubbish Disposal
- Food Security & Assets
 - Income
 - Food Supply
 - Reg. for Relief Food
 - Weather Conditions
 - Land
 - Crops
 - Livestock

Field Work – Data Collection



Household Livestock Holdings and Sales

 94.7% of households surveyed currently have animals (N = 300)

Animal	Number of Households with Livestock in a Normal Year		Number of Households with Livestock This Year		Number of Households who have Sold Animals in the Last Four Weeks	
	n	%	n	%	n	%
Cattle	225	75.0	220	73.3	96	32.0
Milking Cows	204	68.0	213	71.0	7	2.3
Goats	241	80.3	259	86.3	94	31.3
Sheep	203	67.7	216	72.0	38	12.7
Chickens	118	39.3	136	45.3	20	6.7
Turkeys	1	0.3	1	0.3	2	0.7
Pigs	0	0	1	0.3	1	0.3

Sahiwal Cattle



Goats & Fat-tailed Sheep





"Preventative Medicine"



Main Issues Faced

- Lumpy Skin Disease
 - Cattle
 - Pox virus
- Contagious Caprine
 Pleural Pneumonia
 - Mycoplasma
- Enterotoxemia
 - Sheep
 - Clostridium
- Tape & Lung Worms
- Liver Flukes
- Rabies

- Brucellosis
- RVF
- FMD
- MCF



Veterinary Work

- Advise in outbreaks (80% wait)
- Economic state too low for more than spot vaccination of cattle



- Deworm livestock dose given by farmer usually too low
- AI cattle 90% dairy, not high demand
- Main antibiotics used: LA 200, Penicillin, Sulfas
- Deworm & rabies vaccinate dogs
 - Government funded, too sporadic for cover



Further Research on Livestock:

- Quality of livestock health to improve body condition, production, and disease prevention in order to benefit the health of community
- The best way to have compliance with the Maasai is to address the improvement of their herds!





Lindsey Jones ljones@vet.k-state.edu