

Pastoralist preferences – Results from a survey study in four counties









The purpose of the survey

- To make a comparative study of coping behaviour and the relationship between land tenure and capacity for climate adaption in four semi-arid, pastoralist regions in Kenya.
- What coping/adaptation and fodder management strategies are used by the pastoralists in the region?
- What do pastoralists prefer when it comes to the tradeoff between tenure security and flexibility?
- Is it more important to have secure tenure rights, even if it involves a fragmented and privatized landscape with long migration routes?

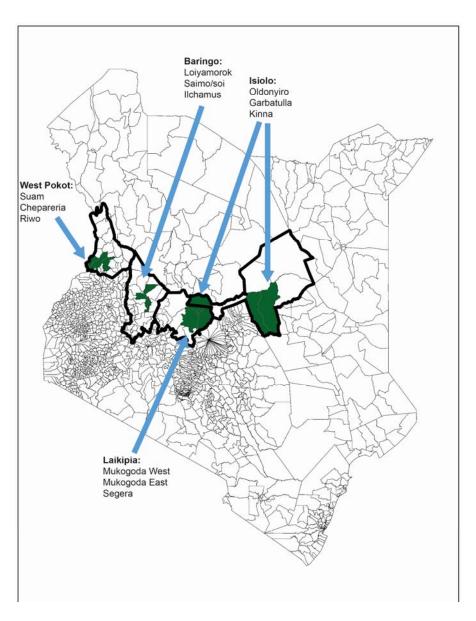


The case study areas

- The four Kenyan counties chosen as case study areas are: West Pokot, Baringo, Laikipia and Isiolo.
- Are all dominated by semi-arid land where pastoralism is or has been the dominating livelihood.
- Transition towards a more sedentary, privatized and commercialized agro-pastoralism land use practices are in different phases and has taken different forms.



The four counties, and surveyed wards





The survey

- Where made in the form of personal interviews in all four counties.
- Focus group meetings were held in November 2018.
- Pilot study in April/May 2019, 122 responses.
- Final survey implementation in the spring of 2020, 491 responses.







The survey execution

- Data was collected through face-to-face interviews by trained local enumerators and encoded on tablets.
- Enumerators eight for each county were university students from Kenyan universities with fluency in the local languages.
- Barely finished before Kenya stopped domestic travel due to Covid-19.
- Sample size: about 120-130 respondents per county.



Sections of the survey

- Questions about land ownership and how tenure rights have changed.
- Questions about the importance of attributes of the choice experiment section.
- Choice experiment section.
- Questions about livestock and livestock health.
- Questions about coping/adaptation and fodder management techniques.
- Demographic questions

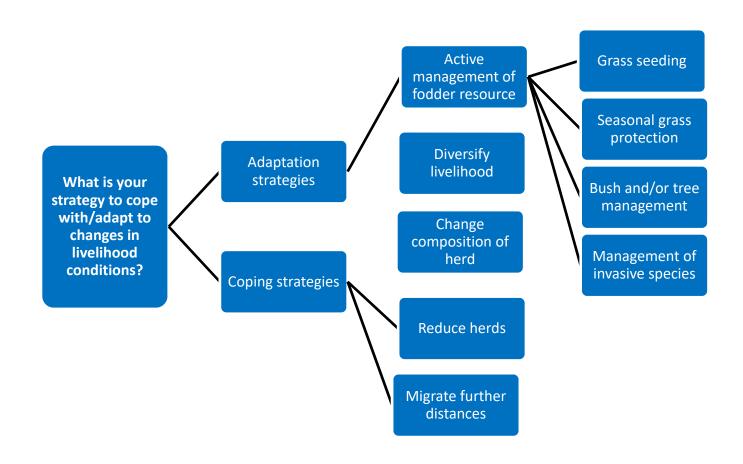


Summary statistics

| County | Ward | No title deed | Group title deed | Private title deed | Insurance | Distance (drought, km) | N | |
|------------|---------------|---------------|---------------------|-----------------------|-----------|------------------------------|----|--|
| Isiolo | Garbatulla | 100.00% | 0.00% | 0.00% | 2.00% | 31.9 | 50 | |
| Isiolo | Kinna | 94.87% | 0.00% | 5.13% | 7.69% | 85.5 | 39 | |
| Isiolo | Oldonyiro | 87.50% | 0.00% | 12.50% | 21.88% | 31.5 | 32 | |
| Laikipia | Mukogodo East | 17.50% | 80.00% | 2.50% | 12.50% | 58.1 | 40 | |
| Laikipia | Mukogodo West | 25.00% | 65.00% | 10.00% | 2.50% | 69.9 | 40 | |
| Laikipia | Segera | 100.00% | 0.00% | 0.00% | 2.50% | 6.4 | 40 | |
| Baringo | Saimo/soi | 46.43% | 53.57% | 0.00% | 0.00% | 43 | 28 | |
| Baringo | Ilchamus | 100.00% | 0.00% | 0.00% | 0.00% | 14 | 52 | |
| Baringo | Loiyamorok | 97.50% | 2.50% | 0.00% | 0.00% | 63.1 | 40 | |
| West Pokot | Suam | 100.00% | 0.00% | 0.00% | 0.00% | 82.2 | 30 | |
| West Pokot | Chepareria | 4.76% | 71.43% | 23.81% | 1.59% | 50.7 | 63 | |
| West Pokot | Riwo | 0.00% | 96.77% | 3.23% | 3.23% | 64.1 | 31 | |

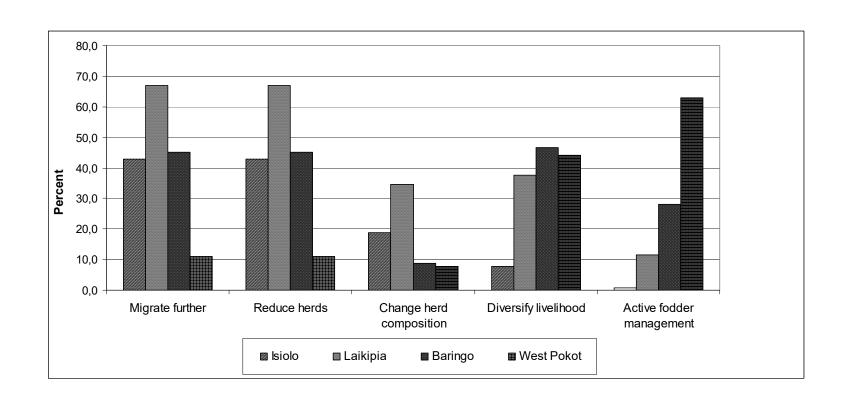


Coping/adaptation grouping of choices the respondents could select



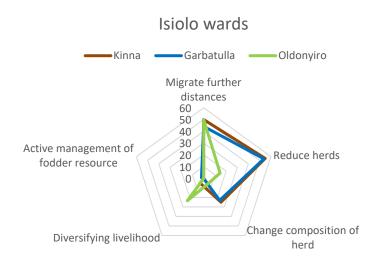


Coping/adaptation strategies on the county level.



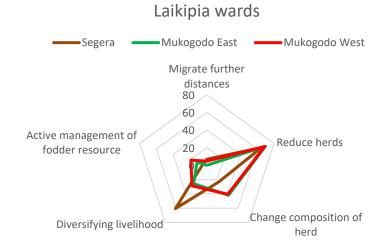


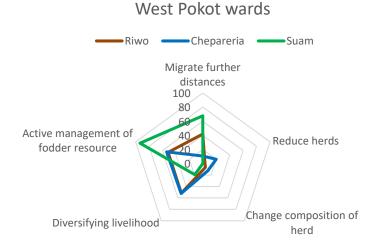
Coping/adaptation strategies on the ward level.



Loiyamorok Ilchamus Saimo/soi Migrate further distances 80 60 Active management of fodder resource Diversifying livelihood Change composition of herd

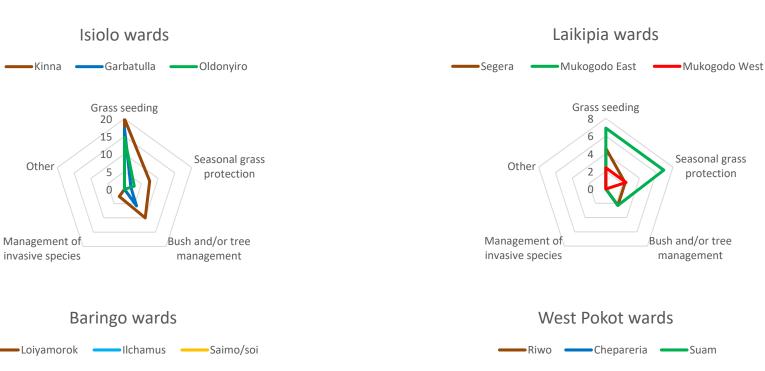
Baringo wards

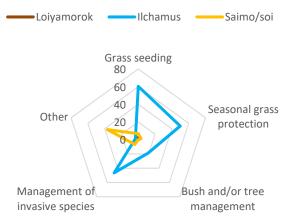


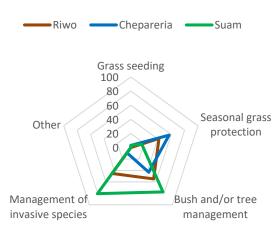




Fodder management strategies on the ward level









The choice experiment

- Respondents choose their preferred alternative from a set of hypothetical "bundles". In the survey they were defined by:
 - Type of tenure regime
 - Distance to emergency grazing grounds
 - Availability of livestock insurance
 - Cost of tenure registration and land surveying
- Makes it possible to understand the importance of these attributes.



Results from choice experiment

- There is one group of respondents about 58 % who are desperate for change and seem to prefer either a group or private title deed to their current situation.
- The second, smaller, group about 42 % has strong preference for the status quo, which could be driven by their relatively short migration distances.
- Ongoing fragmentation and informal individualization of group ranches in rural Kenya raise the question if group ranches and collective titles ultimately are sustainable long-term solutions.
- Livestock insurance is no panacea. The remaining basis risk due to underprediction is high, causing the valuation of livestock insurance to be too low relative to insurance premiums.



Thank you!