# ITM 4 Impact – Tanzania

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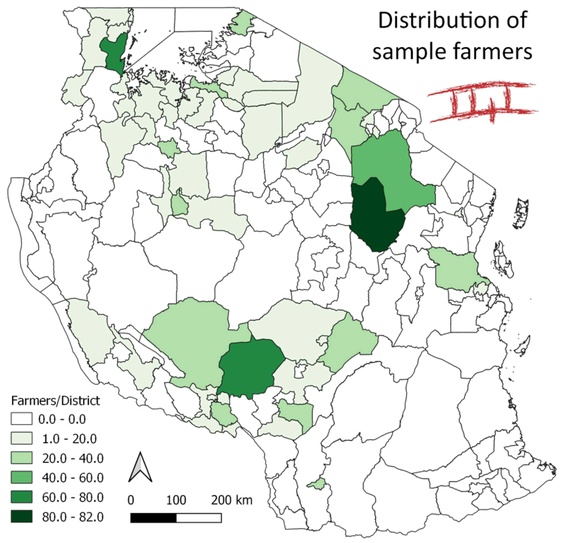
Impact of ITM (East-Coast-Fever vaccine)
on cattle-keeping households has not been quantified.
Interviewed 994 pastoralist and dairy-oriented cattle keepers,
varying ITM-status (“long-term”, “just-started”, “no ITM”)
helped by vaccinators
to determine differences in indicators of animal health,
livestock and farm productivity and household livelihoods.
RHoMIS’ standardised and efficient approach is ideal for
measuring outcome variables and efficiently characterising
farming systems.
Details on cattle herd and management were increased.




| **Significance of coefficient estimates** [p values] | Livestock productivity | Total income | PPI score | Food availability | HDDS lean ssn |
|---|---|---|---|---|---|
| Intercept | 0.155 | **0.002** | 0.477 | 0.580 | 0.732 |
| Dairy – pastoralist | **0.001** | 0.906 | 0.730 | 0.744 | **0.011** |
| ITM status (long-term –just-started) | **0.062** | 0.166 | 0.175 | **0.000** | 0.806 |
| TLU (log) | 0.423 | 0.112 | 0.614 | 0.864 | 0.926 |
| Hh size (log) | 0.541 | **0.000** | **0.000** | 0.516 | 0.332 |
| Hhh age (log) | **0.000** | 0.107 | **0.000** | 0.241 | **0.000** |
| Feed cost (log) | **0.020** | **0.027** | **0.000** | 0.139 | **0.000** |
| Off-farm inc y/n | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** |
| ProdSys * ITM status | 0.109 | 0.440 | **0.090** | 0.462 | 0.228 |
| Adj $R^2$ | 0.110 | 0.220 | 0.306 | 0.089 | 0.178 |
| p-value | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| DF residuals | 536 | 536 | 536 | 536 | 536 |

- Productivity effects differed considerably by production system, but ITM had effect
- Income and poverty were hardly affected by system or ITM
- Food availability strongly affected by ITM (and off-farm income)
- HDDS affected by system and off-farm

- Effects of technical intervention vary considerably by indicator

Poster presentation from the RHOMIS Users’ Group Workshop – held at Wageningen, the Netherlands, on 20-22 of November 2018.