

Abundance and microhabitat use of rodent species in crop fields and bushland in Ethiopia
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Online Supplementary figures and table



Fig. S1. Photographic view of the study area and its surrounding landscape structures of Adiazab'o in Klte-Awla'elo district ($13^{\circ}39'14.4''\text{N}$ and $39^{\circ}34'19.4''\text{E}$) in eastern zone of Tigray regional state, Northern Ethiopia. (Photo: Kiros Welegerima 2018).

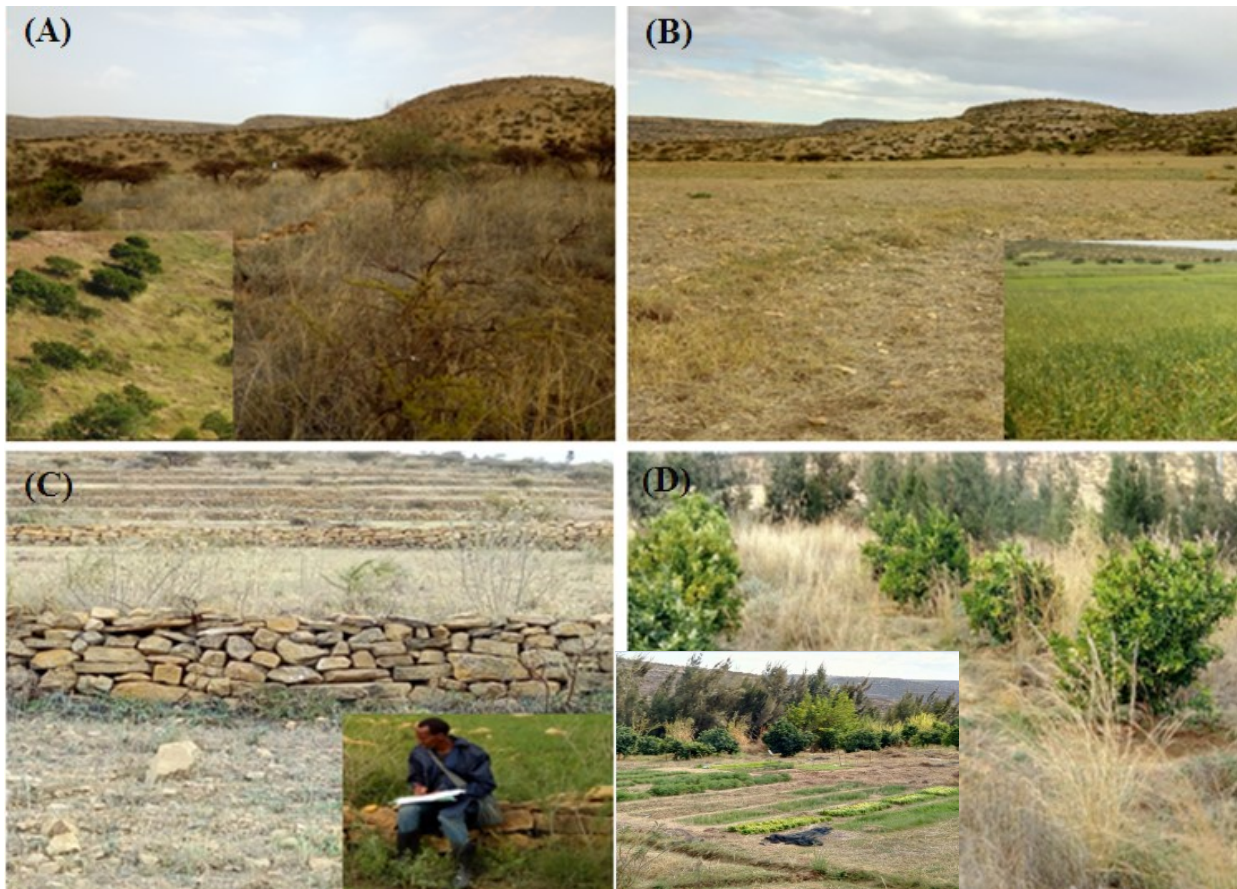


Fig. S2. Description of the four habitat type from left to right, A) Bushland, B) Crop field with low stone bunds, C) Crop fields with high stone bunds and D) Irrigated crop field. (Photo: Kiros Welegerima, 2018).



Fig. S3. The three focus species of the study, (a) *Arvicanthis niloticus*; (b) *Mastomys awashensis*; (c) *Stenocephalemys albipes* recorded during the study. (Photo: Kiros Welegerima, 2018).

Table S1. Numbers of individual rodent species across habitat type, grid/line transect and rainy/dry season during the entire study.

Habitat	Rainy season							Early dry season							Total/ habitat
	AN		MA		SA			AN		MA		SA			
	Method		Method		Method			Method		Method		Method			
	Grid	LT	Grid	LT	Grid	LT	/season	Grid	LT	Grid	LT	Grid	LT	/season	
BL	-	-	9	7	27	12	55	2	-	11	9	53	17	92	147
CRL	-	8	2	-	11	2	23	-	-	-	-	-	-	-	23
CRH	-	3	5	3	11	5	27	-	1	4	1	5	3	14	41
IF	-	-	-	-	-	-	-	-	8	5	1	3	2	19	19
Total							105							125	230

** *S. albipes* = SA, *M. awashensis* = MA and *Arvicanthis niloticus* = AN, Bushland = BL, Crop fields with low stone bunds = CRL,

Crop fields with high stone bunds = CRH, Irrigated crop field = IF, Grid and Line Trap =LT.

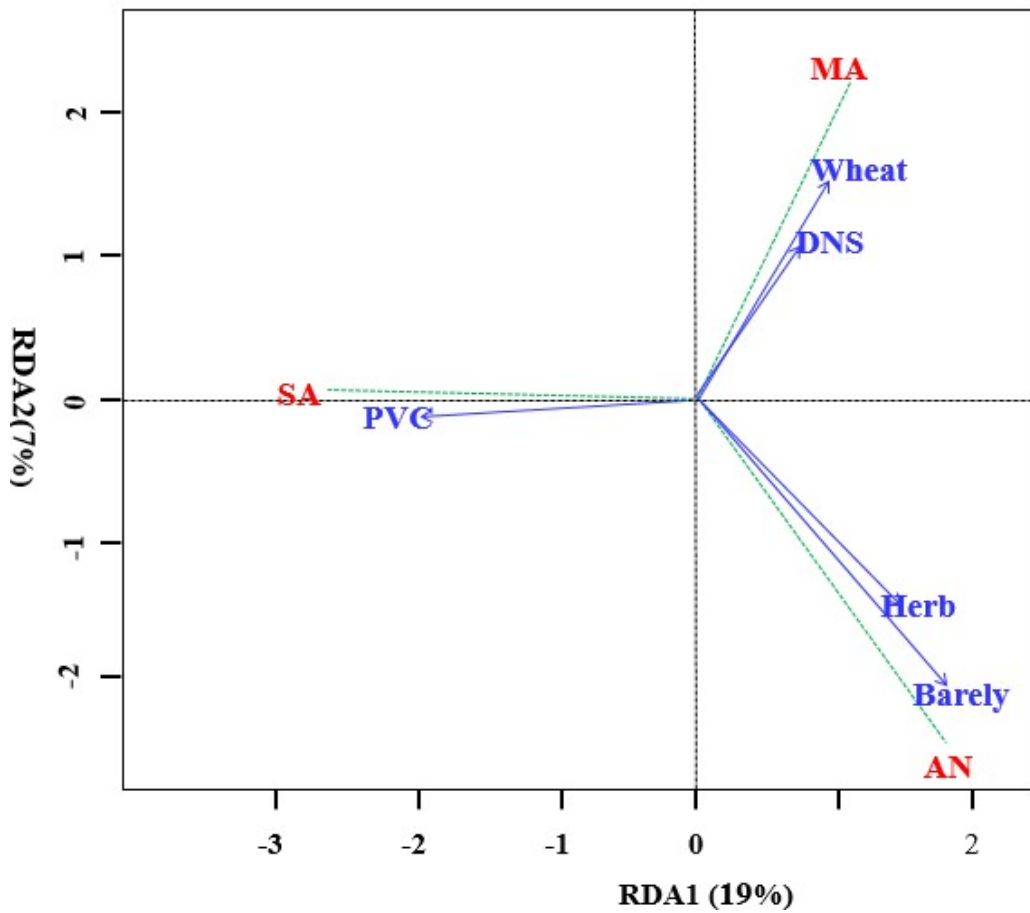


Fig. S4. RDA axes summarizing microhabitat variations and the position of each rodent species relative to these variables when data from both seasons was pooled. Arrows correspond to the contribution of each variable on the three rodent species and represented by *S. albipes* = SA, *M. awashensis* = MA and *A. niloticus* = AN, Percentage vegetation ground cover = PVC, Distance nearest shrub = DNS, Barley, Herb & Wheat.

Table S2. RDA result calculated for the microhabitat variables to the overall variation in microhabitat use by the three rodent species at Klte-Awla'elo, Tigray. (Percentage vegetation ground cover = PVC, Distance nearest shrub = DNS, Wheat, Herb & Barley.).

Global RDA (environmental variables)	R^2	R^2_{Adj}	<i>P value</i>
PVC	0.069	0.065	0.001***
Barley	0.049	0.042	0.001***
Herb	0.023	0.014	0.007**
Wheat	0.019	0.014	0.014**
DNS	0.021	0.016	0.007**

This table summarizes the contribution of the significant microhabitat variables, which quantifies the contribution of each variable. *** $P < 0.001$; ** $P < 0.01$.