

Table 5 Leave-one-out cross validation for all specimens used in the discriminant function analysis of morphometric measurements (characters linked with mosquito body size) of females *An. arabiensis*

		Collection site	Predicted Group Membership				Total
			Kassala	New Halfa	Aroma	Wagar	
Original	Count	Kassala	35	6	7	4	52
		New Halfa	21	22	7	2	52
		Aroma	27	9	14	4	54
		Wagar	18	7	21	10	56
	%	Kassala	67.3	11.5	13.5	7.7	100.0
		New Halfa	40.4	42.3	13.5	3.8	100.0
		Aroma	50.0	16.7	25.9	7.4	100.0
		Wagar	32.1	12.5	37.5	17.9	100.0
Cross-validated	Count	Kassala	33	9	4	6	52
		New Halfa	14	29	6	3	52
		Aroma	5	4	41	4	54
		Wagar	12	3	6	35	56
	%	Kassala	63.5	17.3	7.7	11.5	100.0
		New Halfa	26.9	55.8	11.5	5.8	100.0
		Aroma	9.3	7.4	75.9	7.4	100.0
		Wagar	21.4	5.4	10.7	62.5	100.0

In cross validation, each specimen is classified by the functions derived from all specimens other than that being classified. 37.9% of original grouped cases correctly classified. 64.5% of cross-validated grouped cases correctly classified