

Table 2 Correlation matrix between the sperm quality indices determined for *C. gariepinus*

	Wt. of Male	Wt. of Testes	Vol. of Semen	Sperm Count	% Motility
Wt. of Male					
Wt. of Testes	0.684**				
Vol. of Semen	0.679**	0.978***			
Sperm Count	0.052	0.104	0.212		
% Motility	-0.138	-0.190	-0.087	0.845***	

** P<0.01

*** P<0.001

Equations: Multiple Regression equations of semen, gonad and somatic parameters of *C. gariepinus*

Vol of Semen = - 0.219 + 0.000102 Wt_of_Male + 0.356 Wt_of_Testes (Equation 1)

$r^2 = 95.7\%$ (Adjusted = 94.9%), P = 0.000

% Motility = 39.0 + 7.4 Vol of Semen + 9×10^{-10} Sperm_Count - 11.6 Wt_of_Testes (Equation 2)

$r^2 = 79.2\%$ (Adjusted = 73.5%), P = 0.000