

Fig. S1. Size structure of males, females and pooled samples of *Oreochromis niloticus* in Samendeni reservoir.

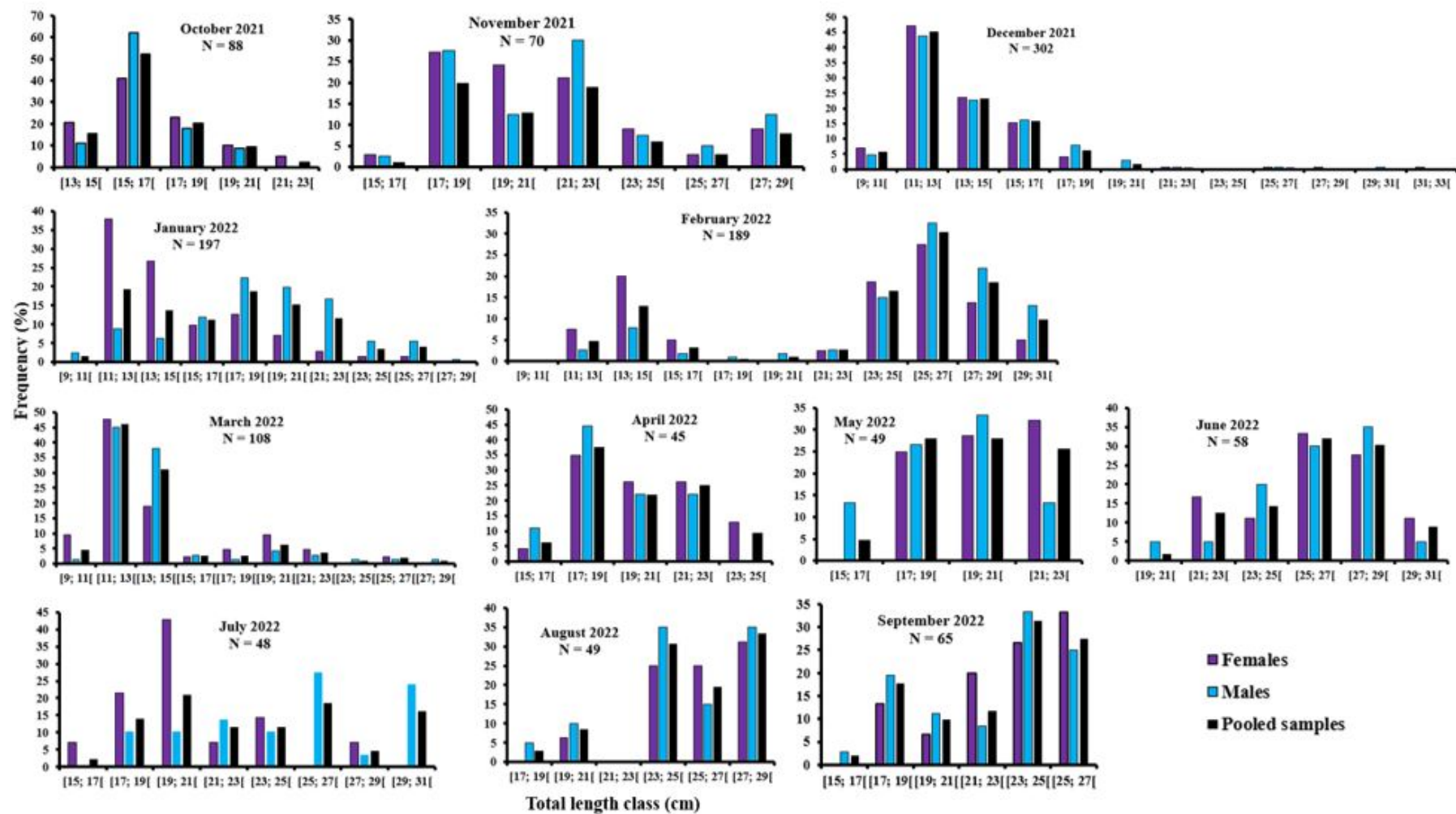


Fig. S2 Von Bertalanffy growth curve for *Oreochromis niloticus* (sexes combined) in Samendéni reservoir.

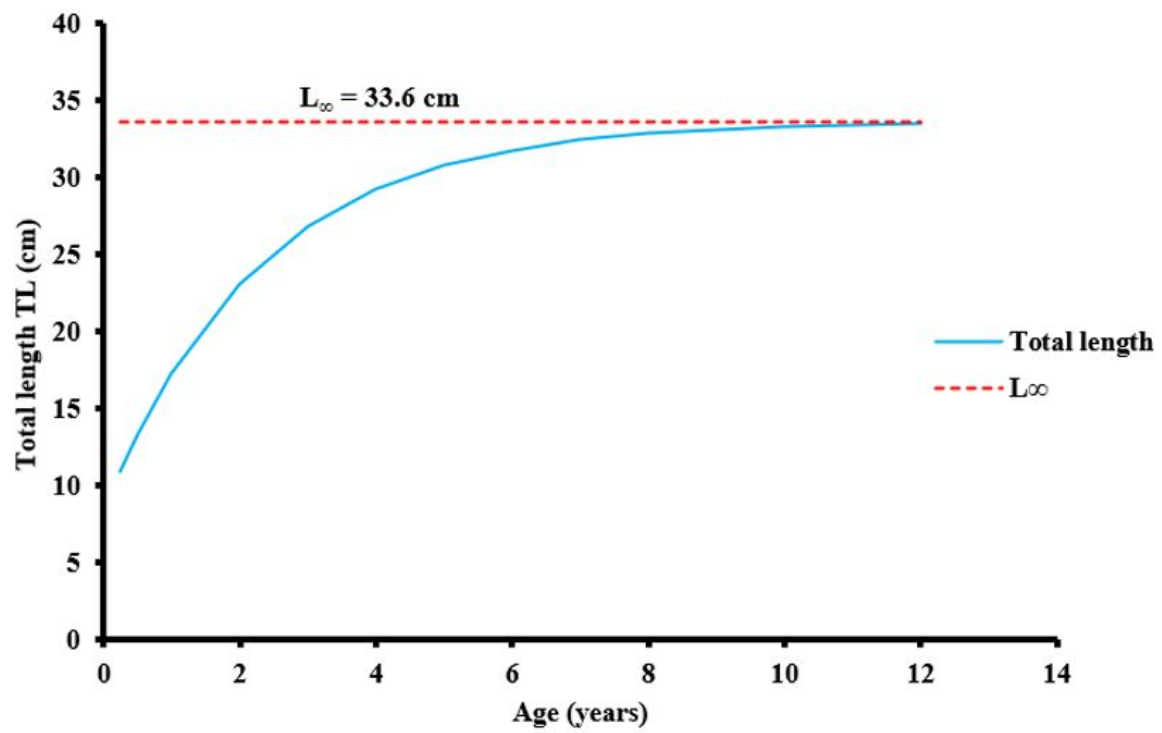


Table S1. FISAT II output of virtual population analysis of *Oreochromis niloticus* in Samendéni reservoir

Mid-length (Cm)	Catch (In numbers)	Population (N)	Fishing mortality (F)	Steady-state biomass (tons)
9	2	11393	0.002	0.01
10	25	10347	0.0275	0.02
11	118	9336	0.1344	0.02
12	131	8296	0.161	0.03
13	105	7311	0.1401	0.03
14	71	6419	0.1033	0.04
15	80	5622	0.1249	0.04
16	52	4876	0.0905	0.04
17	61	4213	0.1162	0.05
18	72	3596	0.1517	0.05
19	44	3023	0.1044	0.06
20	58	2530	0.1486	0.06
21	48	2074	0.1455	0.06
22	47	1675	0.1642	0.06
23	41	1323	0.1681	0.06
24	52	1021	0.2844	0.06
25	63	746	0.3834	0.05
26	64	512	0.5232	0.04
27	53	321	0.6311	0.03
28	34	180	0.4959	0.02
29	27	97	0.9157	0.01
30	15	37	1.337	0.01
31	3	9	0.8721	0.00
32	1	2	2.15	0.00
Total	1268	84959		0.85

Table S2. Length-based Thompson and Bell analysis for estimation of MSY of *Oreochromis niloticus*

F-factor	Yield (×1,000 kg)	Biomass (×1,000 kg)
0	0	902.53
0.1	131.771	640.734
0.2	196.182	482.492
0.3	228.047	379.814
0.4	244.053	309.462
0.5	251.076	259.137
0.6	253.336	221.854
0.7	253.264	193.423
0.8	251.438	171.206
0.9	248.783	153.482
1	246.015	139.088
1.1	242.797	127.214
1.2	239.787	117.285
1.3	236.588	108.883
1.4	233.704	101.695
1.5	230.715	95.487
1.6	228.078	90.079
1.7	225.541	85.332
1.8	222.979	81.135
1.9	220.714	77.401
2	218.551	74.059
2.1	216.369	71.052
2.2	214.446	68.333
2.3	212.61	65.863
2.4	210.735	63.61
2.5	209.101	61.546
2.6	207.537	59.65
2.7	206.041	57.901
2.8	204.501	56.283
2.9	203.161	54.782
3	201.875	53.385
3.1	200.64	52.082
3.2	199.455	50.863
3.3	198.227	49.722
3.4	197.156	48.649
3.5	196.123	47.639
3.6	195.128	46.687
3.7	194.169	45.788
3.8	193.244	44.937
3.9	192.275	44.13
4	191.431	43.364