

Table 3 Some environmental physiology of *Oreochromis niloticus*

Variables	Optimum range for tilapia species	Description
Temperature (°C)	25.0-32	< 22 °C: Reproduction stops; < 16 °C Feeding stops
Salinity (‰)	0.0-20	< 10 ‰. Fecundity decreases, however some will reproduce
pH	0.5-8.0	Strongly influenced by photosynthesis & hardness
Dissolved oxygen (mg/L)	3.0-9	Highly influenced by temperature and partial pressure of other gases
Ammonia-N (mg/L)	0.0-0.5	Influenced by pH and temperature
Hydrogen sulfide (mg/L)	< 0.01	Highly dependent on dissolved oxygen

Note: Source: Hanley, 2005