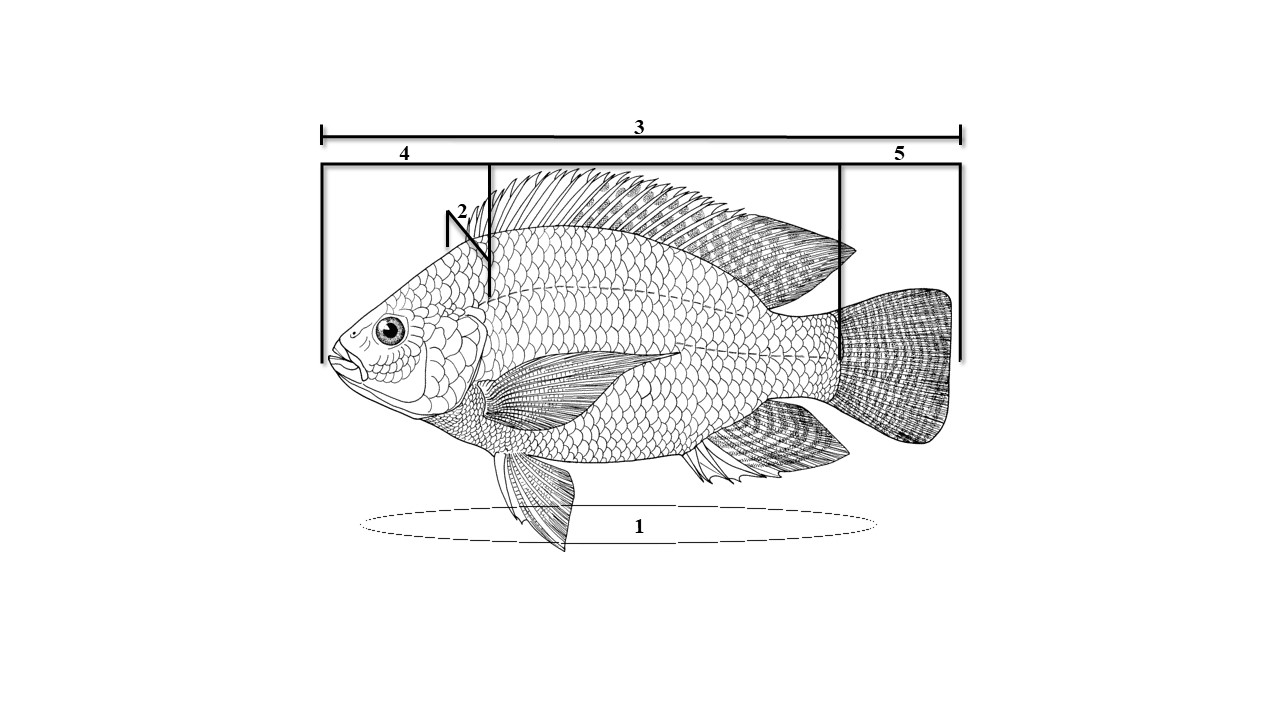
|  |  |  |  |
| --- | --- | --- | --- |
| Morphometric trait attributes; 1st to 5th rank (Max score = 5.0) | | | |
| Trait variable | Trait measurement | Trait variable | Trait measurement |
| 1.1. Size – Grade I | Total weight 375-600gm | 1.2. Size – Grade II | Total weight 250-375gm |
| 1.3. Size – Grade III | Total weight 100-250gm | 1.4. Size – Grade IV | Total weight <100gm |
| 2.1. Width – Fat | Body Width 4.05 - 4.4cm | 2.2. Width – Medium | Body Width 3.60-4.05cm |
| 2.3. Width – Slim | Body Width 2.90 - 3.60cm | 2.4. Width – Skinny | Body Width 1.80- 2.90cm |
| * 1. Length – Long | Total length 23 – 28cm | Body Length – Medium | Total length 19 – 23cm |
| * 1. Length – Short | Total length 10 – 19cm | Body Length – Stumpy | Total length <10cm |
| 4.1. Head Size – Large | Head length 7.50 – 90cm | 4.2. Head – Medium | Head length 6.50 – 7.50cm |
| 4.3. Head – Small | Head length 3.50 - 6.50cm | 4.4. Head – Very Small | Head length 2.20 – 3.50cm |
| 5.1. Tail – Large | Caudal fin 3.35 - 4.30cm | 5.2. Tail– Medium | Caudal fin 3.35 - 2.95cm |
| 5.3. Tail – Small | Caudal fin 1.75 - 2.05cm | 5.4. Tail – Very Small | Caudal fin 1.15 – 1.75cm |

## Table 3. Morphometric traits’ dictionary



## Figure 3, 4; Interview picture aids (source: adapted by author from WorldFish, 2017; Hassanien et al. 2011; Kosai et al. 2014; Rocha et al. 2012;)

Hassanien, H.A., Kamel, E.A., Salem, M.A., Dorgham, A.S., 2011. Multivariate analysis of morphometric parameters in wild and cultured Nile tilapia Oreochromis niloticus. J. Arab. Aquac. Soc. 6, 424–440.

KOSAI, P., Sathavorasmith, P., Jiraungkoorskul, K., Jiraungkoorskul, W., 2014. Morphometric characters of Nile tilapia (Oreochromis niloticus) in Thailand. Walailak J. Sci. Technol. 11, 857–863.

Rocha, D. N., Simões, L. N., Paiva, G., & Gomes, L.C., 2012. Sensory, morphometric and proximate analyses of Nile tilapia reared in ponds and net-cages. Rev. Bras. Zootec. 41, 1795–1799.