Performance of Six Bivoltine *Bombyx mori* (Lepidoptera: Bombycidae) Silkworm Strains in Kenya

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Abstract:

The economic and field performance of six *Bombyx mori* Linnaeus bivoltine strains were evaluated, namely ICIPE I, Chun-Lei X ZhengZhu (C X Z), QuiFeng X BaiYu (Q X B), Quingsong X Haoyoe (Q X H), Suju X Minghu (S X M) and 75xin X 7532 (75xin). Performance was based on larval, cocoon, pupa and shell weights, relationship of food consumption to larval weight, cocoon weight and shell weight. ICIPE I recorded the shortest larval development period in Location 1 (S1) during the short rains (SR) (26.53 + 5.05 days) and it was significantly shorter compared to that of the other strains. It also had the highest cocoon shell weight (CSW) in location 1 (S1) and location 2 (S2), 0.38 and 0.36gms respectively. ICIPE I and C X Z strains gave better performance for the parameters evaluated and are most suitable for the Kenyan conditions.

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