

DE LA SALLE UNIVERSITY


85 1377

PERFORMANCE OF FIVE STRAINS OF SILKWORM

(*Bombyx mori* L.) REARED ON THREE

VARIETIES OF MULBERRY

(*Morus alba* L.)



SOFRONIO PEREZ KALAW

Submitted to the Faculty of the Department of Biology,
Graduate School of Education, Arts and Sciences,
De la Salle University, Manila in partial
fulfillment of the requirements
for the degree of

MASTER OF SCIENCE IN BIOLOGY

April, 1990



DE LA SALLE UNIVERSITY

ABSTRACT

This study was conducted to determine the adaptability of five silkworm hybrid strains to the prevailing temperature and relative humidity at Central Luzon State University and to compare the effect of three mulberry varieties used as food on the larval growth and cocoon weight of five silkworm strains.

Results show that $LBS_1 \times LBS_2$ generally performed better than the other strains used under the prevailing room temperature ($19-28.5^{\circ}C$) and relative humidity (51-94%).

Silkworm strain $LBS_1 \times LBS_2$ also produced the heaviest cocoon, cocoon shell and were most efficient in converting the ingested food into body mass. However, $PCNM_2 \times IUD$ registered the lowest larval mortality rate while $LBS_1 \times LBS_2$ and $LBS_2 \times LBS_1$ had the heaviest larval weight.

Among the three mulberry varieties used as food, silkworms reared on Taiwan mulberry variety had the heaviest larvae, cocoon, cocoon shell and highest conversion efficiency.