



PERBANDINGAN MUTU BEBERAPA RAS MURNI ULAT SUTERA (*Bombyx mori* L.) DI PUSAT
PEMBIBITAN ULAT SUTERA
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COMPARISON OF SOME SILKWORM PURE RACES QUALITY (*Bombyx mori* L.)

IN EGG PRODUCTION CENTRE CANDIROTO, CENTRAL JAVA

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ABSTRACT

One of factor having an effect on to development success of effort experienced silk in Indonesia is available of good silkworm seed. Factor causing the happening of degradation of cocoon yield is bad seed quality. Therefore needed examination to parental silkworm coming from pure race so that characteristics owned by each race knowable clearly. The main objective of this research is to know the pure race of silkworm having the best quality, evaluated from silkworm period, rearing output, cocooning ratio, cocoon quality and filament quality. From this research result expected obtainable of scientific information about the characteristic owned by silkworm pure races in effort searching more new seed with quality utilize to support the success of development silkworm program.

This research used Randomized Completely Block Design (RCBD) with the source of variation is pure race that is race N1, N2, Bx and Ax, each race represent by 150 silkworms with 5 replications. Observation parameter is silkworm period, output rearing, cocooning ratio, normal cocoon percentage, cocoon quality and filament quality. Statistical examination result of research with the analysis varians at level 0,05, and continued with the DMRT test at level 0,05 for the variation source/treatment that is significant.

The result of the research showed that the best pure race evaluated from character silkworm period, output rearing, cocooning ratio, and normal cocoon percentage is race N1, while evaluated from character of cocoon shell percentage and filament quality covering filament length, filament weight and filament percentage, best race is Ax. Race N2 represent the best race evaluated from character fresh cocoon weight, while from character shell cocoon weight and filament thickness have not a marked difference between fourth of the pure race. As a whole race N1 give the best result, later race Ax is equal to Bx and race N2 represent the race with the worst result.

Keyword : silkworm, pure race, silkworm parental, silkworm seed, cocoon quality, filament quality

