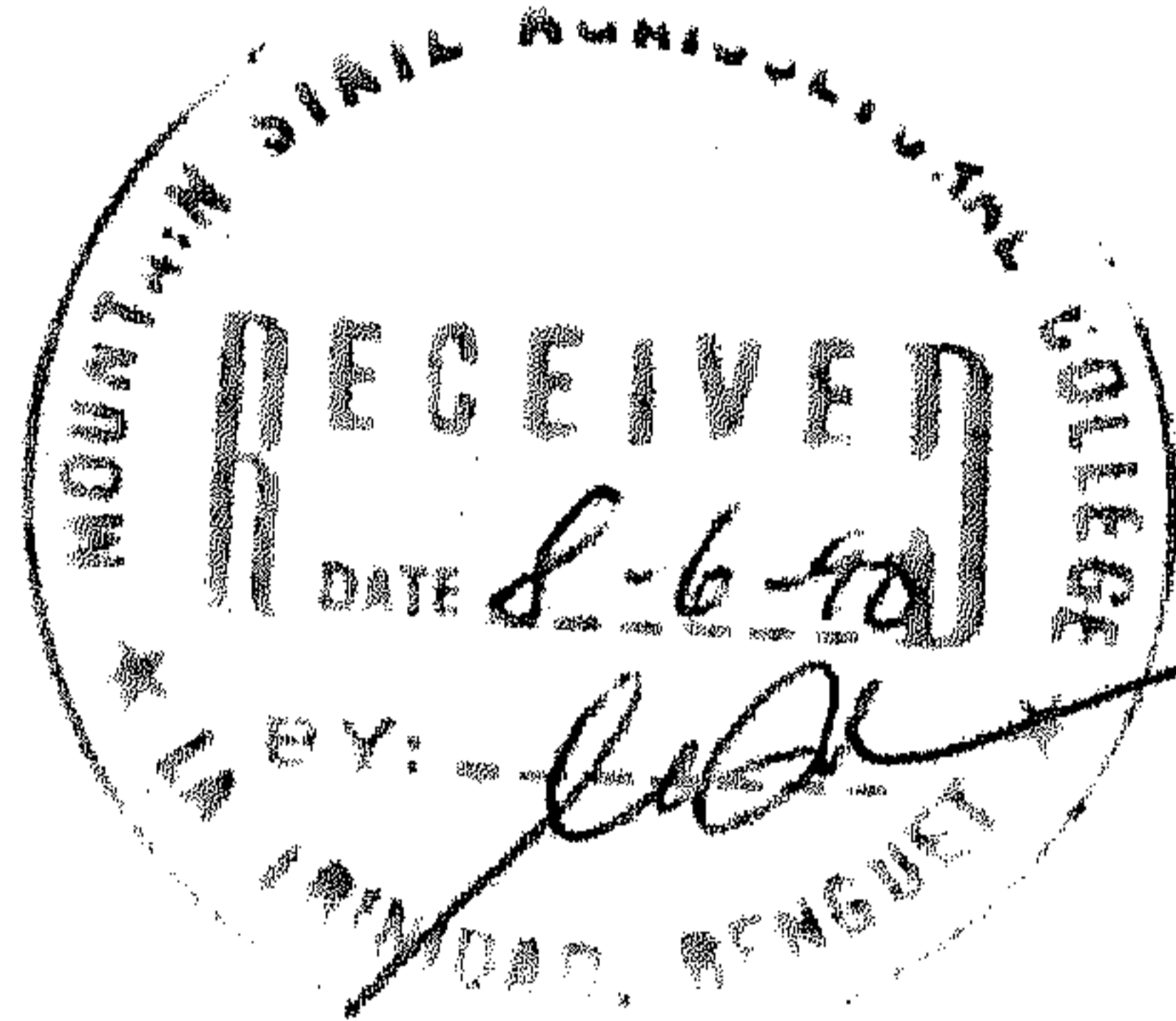
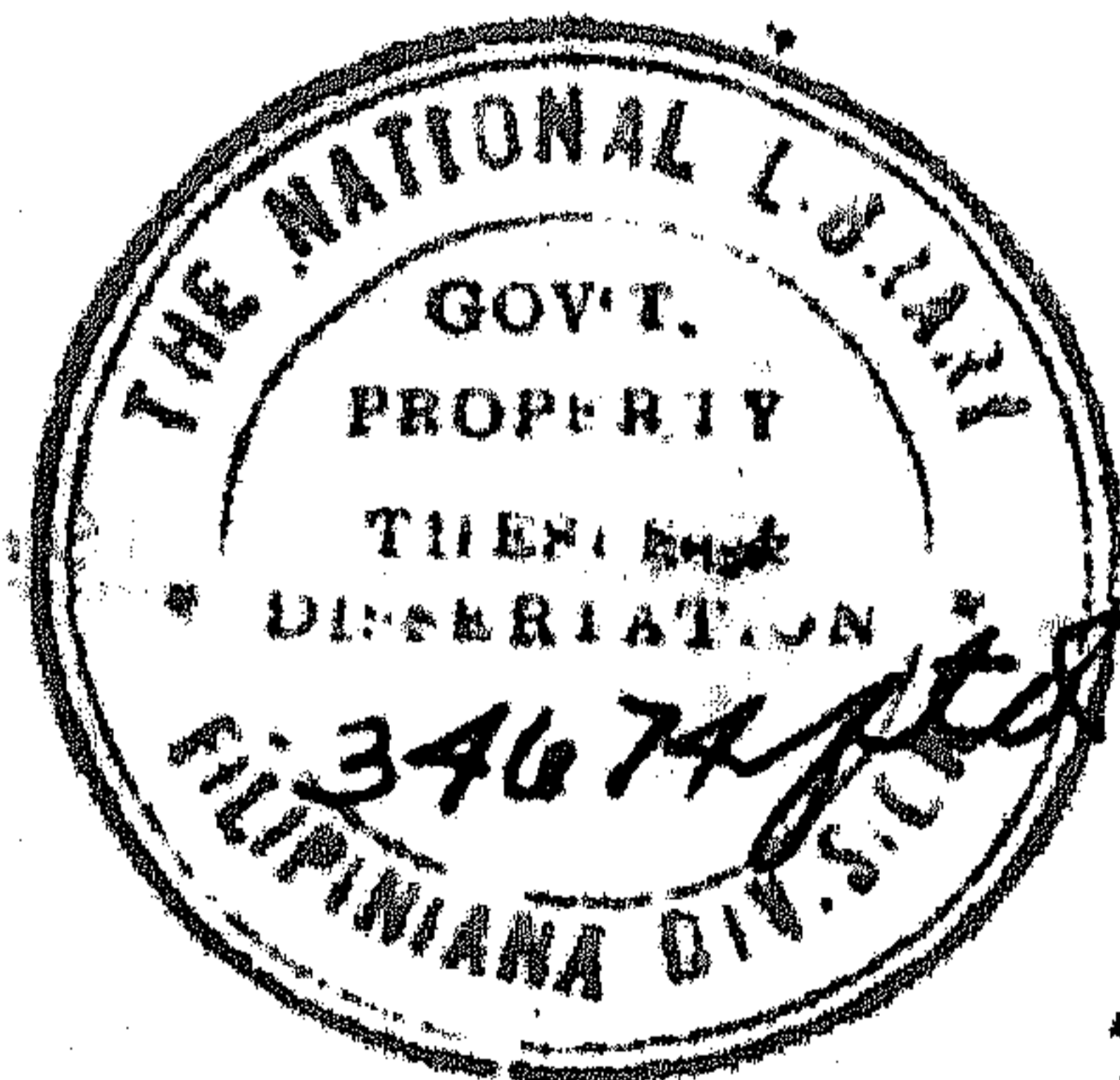


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CHEMICAL CONTROL OF GREEN MUSCARDINE (Nomuraea
rileyi) AND WHITE MUSCARDINE (Beauveria
bassiana) DISEASES OF SILKWORM

ARNOLD M. INUMPA



SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL
BENGUET STATE UNIVERSITY, LA TRINIDAD,
BENGUET, PHILIPPINES, IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE



MASTER OF SCIENCE
(Plant Pathology)

ARNOLD M. INUMPA


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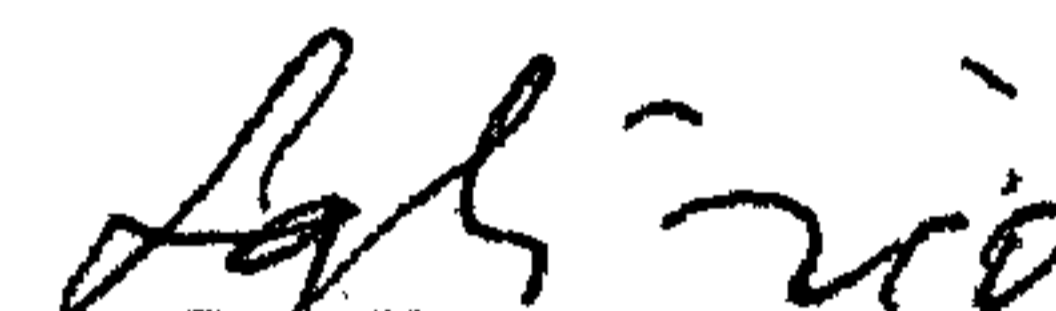
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The thesis hereto attached entitled "CHEMICAL CONTROL OF GREEN MUSCARDINE (NOMURAEA RILEYI) AND WHITE MUSCARDINE (BEAVERIA BASSIANA) DISEASES OF SILKWORMS" prepared and submitted by ARNOLD M. INUMPA in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE IN PLANT PATHOLOGY is hereby accepted.



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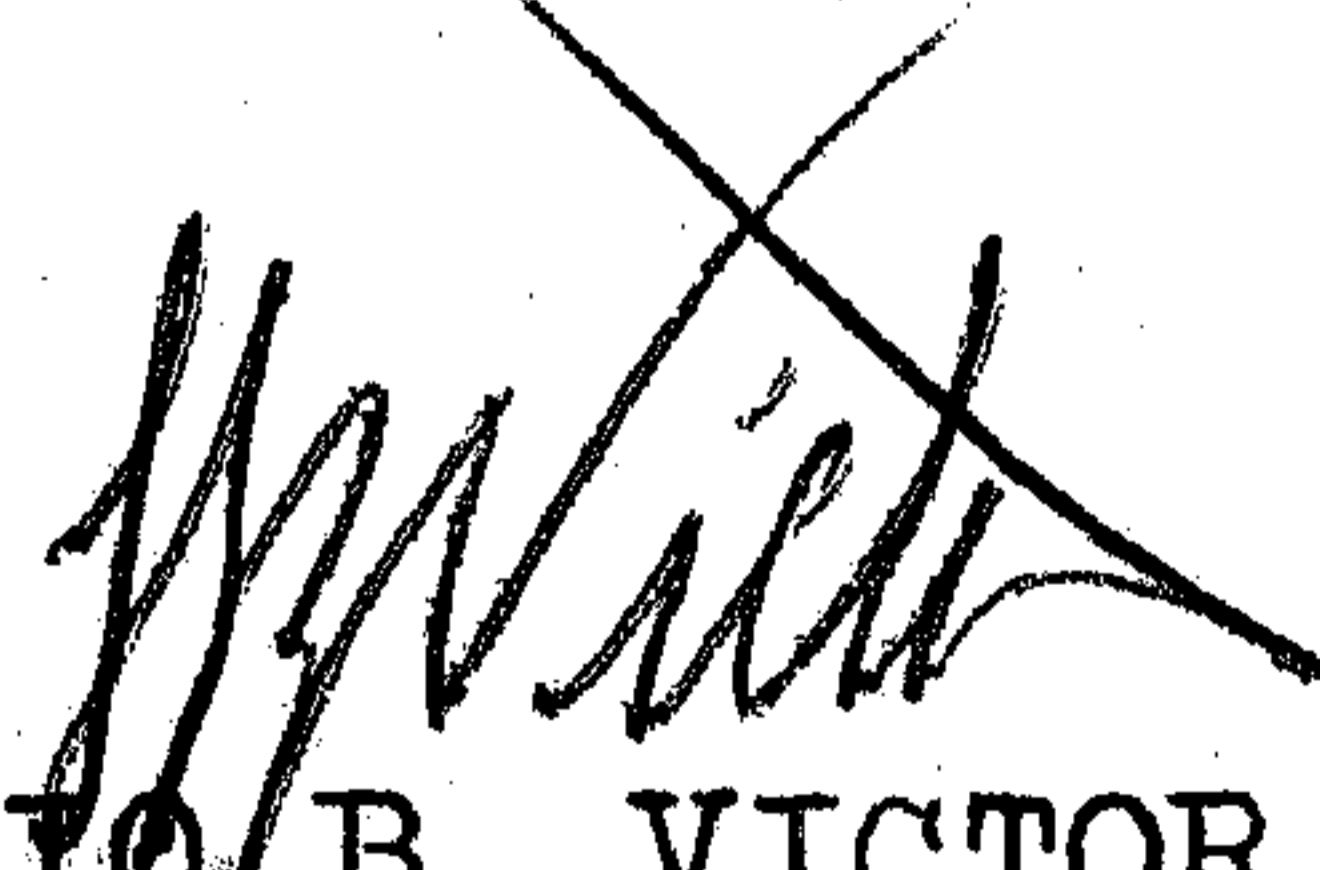

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To my beloved wife

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ARNOLD M. INUMPA

ABSTRACT

INUMPA, ARNOLD M. Benguet State University, La Trinidad, Benguet, Philippines. June 1990.

Chemical Control of Green Muscardine (Nomuraea rileyi) and White Muscardine (Beauveria bassiana) Diseases of Silkworm.

Adviser: Dr. Luciana M. Villanueva

Vondozeb, Manzate 200, Orthocide and Calcium hypochlorite were tested for their efficacy in the control of green muscardine (N. rileyi) and white muscardine (B. bassiana) diseases of silkworms and their effect on the silkworm, the cocoon quality as well as the fecundity and viability of the eggs laid.

In the bioassay tests, all the four chemicals tested showed considerable inhibitory effect against N. rileyi and B. bassiana.

Results showed that the four chemicals tested, up to 4% in proportion with the carrier lime, were non-toxic to silkworms. More interestingly, the larval duration was not affected. Likewise, the cocoon quality in terms of weight and shell to cocoon ratio was neither affected. There was also no harmful effect on the fecundity and viability of

the eggs laid by the treated worms, even up to 4% concentration.

In terms of efficacy against green muscardine (N. rileyi) and white muscardine (B. bassiana), each chemical exhibited promising results at 3% and 4% concentrations on the basis of the Pafusol's efficacy.

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