

# POTENTIAL OF DMMMSU NEWLY EVOLVED SILKWORM HYBRIDS IN THE PRODUCTION OF SILK PRODUCTS

## RATIONALE

Sericulture is an agro-based industry with economic, social and ecological potentials in line with the government's broad strategies to increase employment and generate bigger income. Profitability from sericulture is largely dependent on the production of mulberry leaves, practice of proper and effective rearing management, and the conversion of cocoons into silk products. Hence, an evaluation of the potentials of newly identified promising silkworm hybrids on productivity and profitability is hereby needed as basis for recommendations to the farmers as to the most sustainable cocoon production for higher yields and better economic benefits.

## METHODOLOGY

Descriptive method of research was utilized which included an evaluation of the productivity and profitability of the new silkworm hybrids as to cocoon yield and the quality of silk produced. Profitability is measured in terms of net income, return of investment, break-even cost, payback period, net present value, and internal rate of return.

## Productivity of DMMMSU H003, H004 & H009 (1 ha / year)



### Cocoons

Output: 611.28 kg  
Net income: Php24,116.28  
Employment: 207.14 Mondays  
ROI: 59.09 %



### Raw silk

Output: 78.17 kg  
Net income: Php95,983.11  
Employment: 137.56 Mondays  
ROI: 51.30 %



### Thrown silk

Output: 76.61 kg  
Net income: Php81,357.30  
Employment: 49.79 Mondays  
ROI: 95.84 %

## Economic advantage of DMMMSU H003 over DMMMSU 346

Sericulture production processes	Increase in output	Increase in net income (Php)	Increase in ROI (%)	Increase in employment (Mondays)
Cocoon production	95.40 kg	15,783.00	38.87	33.88
Raw silk production	8.80 kg	11,816.11	.71	15.17
Thrown silk production	6.63 kg	10,908.43	13.80	5.40
Silk fabric production	175 m	24,005.07	32.69	171.50



### Silk fabric

Output: 1,107.50 m  
Net income: Php169,616.45  
Employment: 1,085.35 Mondays  
ROI: 249.55 %



### Silk barong

Output on silk barong (cuts): 443  
Net income: 148,690.18  
Employment: 1,085.35 Mondays  
ROI: 25 %

## Recommendations

1. DMMMSU H003 is recommended for further testing at farmers' fields.
2. It supports the implementation of R.A. 9242, enjoining all government agencies to make use of the Philippine tropical fabrics as office uniforms.
3. Sericulture is a potential source of additional income & labor employment.



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