

OFT- 8

Title	Assessment of Different Insect Control Methods in Nursery & Rearing pond
Problem area	High mortality of Fingerlings
Important Causes	Due to high infestation of harmful aquatic insect like Ranatra, Notonecta etc.
Thematic area	Fish seed Production
Production System	Nursery & Rearing pond.
Micro farming situation	High density stocking of spawn & Fry with minimal insect control measure.
Technology for testing	Use of 3ft diameter light trap @ 1 piece per decimal water area for consecutive 4 days in an interval of 20 days.
Objectives	To assess the effect of light trap in control of aquatic insect in nursery & rearing pond
Hypotheses	Use of 3ft diameter light trap @ 1 piece per decimal water area for consecutive 4 days may control aquatic insect in nursery & rearing pond
Existing practice	Application of Kerosene oil @ 0.25 – 0.5 lit per decimal water area before stocking.
Intervention plan	<p>Farmers Practice = Application of Kerosene oil @ 0.25 – 0.5 lit per decimal water area before stocking.</p> <p>Technology Option I = Application of Soap - Oil Emulsion (soap 72 gm + oil 224 ml) per decimal water area before stocking.</p> <p>Technology Option II = Fixing & use of 3ft diameter light trap @ 1 piece per decimal water area for consecutive 4 days in an interval of 20 days</p>
Source of technology	CIFRI.
Design	RBD
Critical inputs	Kerosene oil, Detergent, H.S diesel, Light Trap
Unit size / Plot size	0.04 ha.
Replications	6
Unit cost	Rs. 500/-
Total cost	Rs. 9000/-
Monitoring indicators	% of control of insect, B.C ratio.

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Technology option	No. of trials	Yield component			Disease (%)	Cost of Culture (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		% of inset control	% of survival	Yield /lakh /ha					
Farmers Practice = Application of Kerosene oil @ 0.25 – 0.5 lit per decimal water area before stocking.	10	42.4	62.5	1.87	Nil	82400.00	103820.00	21400.00	1.25
Technology Option I = Application of Soap – Oil Emulsion (soap 72 gm + oil 224 ml) per decimal water area before stocking.	10	76.2	71.1	2.16	Nil	87820.00	116300.00	28480.00	1.32
Technology Option II = Option I + Fixing & use of 3ft diameter light trap @ 1 piece per decimal water area for consecutive 4 days in an interval of 20 days	10	87.32	78.54	2.41	Nil	92200.00	131300.00	39100.00	1.42
SEM±									
CD at 5%									

Results: Control of insect in Option- II is 106.46. % higher than farmers practice . Survival of fingerlings in Option- II is also Better than other. Technology Option –II shows highest production & net return

Thematic area: Nutrient management

Problem definition: Poor growth rate of fish fry in Nursery pond

Technology assessed: Assessment of different Methods of IMC Fry production.