



# SUPPORTING REVITALIZATION OF COMMUNITY BREEDING UNITS (CBU) ON CARP (*Cyprinus carpio*) CULTURE IN PASAMAN DISTRICT, WEST SUMATERA PROVINCE

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CBU Revitalization is one of the national programs of Indonesian government assistance implemented by the technical implementation unit, namely the Balai Perikanan Budidaya Tawar Sungai Gelam Jambi. Along with the community's need for protein is increasing so that the government is trying to find alternatives in improving the quality of community nutrition, especially in terms of protein needs. Carp is one type of consumption fish that has important economic value. The purpose of the CBUrevitalization activity is to build and improve facilities and infrastructure for fish hatchery units in the community so that they can increase their production. This activity is carried out from central government budget in 2023. The implementation of this activity goes through several stages, namely technical and non-technical verification, location determination, implementation of improvements and construction of hatchery unit locations, implementation of fish hatcheries according to established SOP (Standard Operational Procedure), evaluation of results and recommendations for improvement. Two group of CBU revitalization was determined in Pokdakan Mina Sukses group and pokdakan Putri Tunggal group.



Table 1. Carp production in Pokdakan Mina Sukses Bersama group cycle 1

Description	Mina Sukses Bersama		Increase (%)
	Before	After	
Female	3	3	
Male	9	28	
fecundity	686800	1000000	145,6
Fertility Rate	357143	893000	275,2
Hatching Rate	150000	530400	353,6

Table 2. Carp production in Pokdakan Putri Tunggal cycle 1

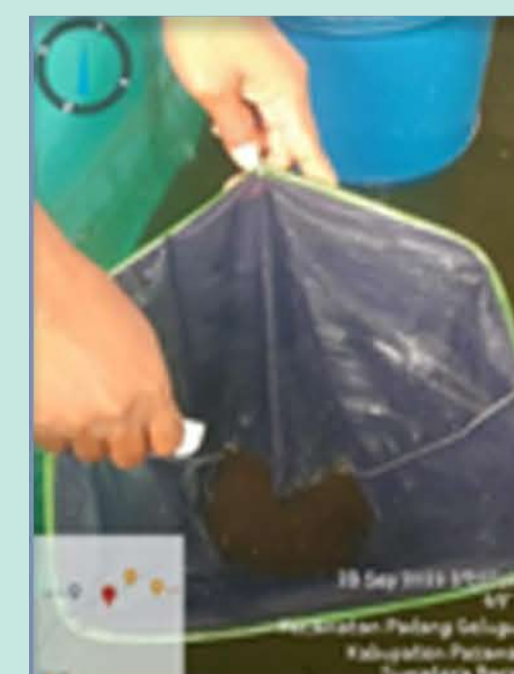
Description	Putri Tunggal		Increase (%)
	Before	After	
Female	6	3	
Male	18	28	
fecundity	630420	1000.000	158,6
Fertility Rate	340425	876.000	261,3
Hatching Rate	160000	545.000	331,5

Some activities has been done like repairing and building hatchery facilities and infrastructure including increasing the number of broodstock, feed and other hatchery facilities. Assistance in improving the technical and non-technical systems of carp hatcheries related to SOP, namely the management of broodstock and carp seed rearing. There are three production cycles by producing ready-to-sell seeds with a size of 3-5 cm in 2023 activities. Pokdakan Mina Sukses Bersama group produces a total of 1,650,000 carp seeds, while Pokdakan Putri Tunggal group produces a total of 1620,400 seeds. The average survival rate of carp seeds is around 60-75%. The conclusion of this activity is that CBU revitalization activities can increase fish seed production by improving carp hatchery production facilities and infrastructure both technical and non-technical way.



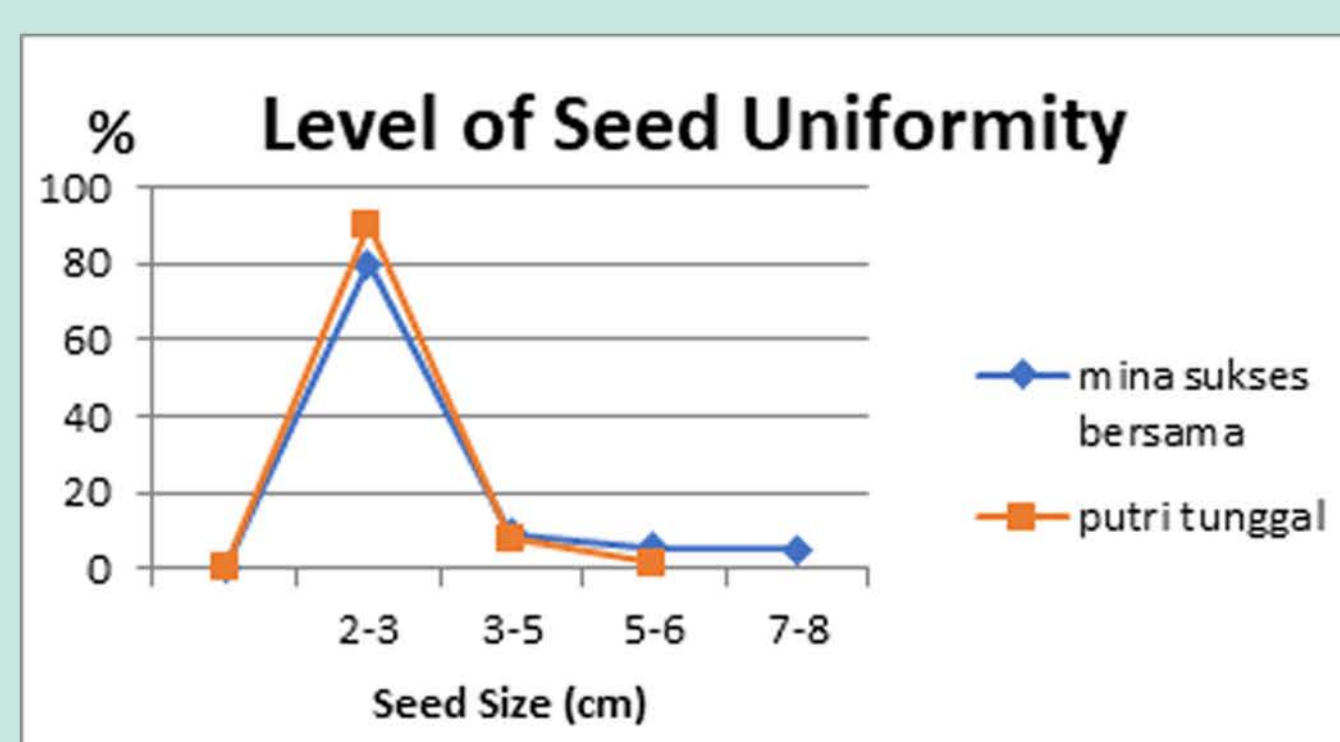
Discussion of SOPs, preparation of spawning containers and techniques for injecting hormones into goldfish broodstock

In this activity, the spawning technique is carried out semi-artificially, namely by adding hormone (ovaprim) to the female parent at a dose of 0.3 ml/kg, the ratio between the female parent and the male spawned is 1:1 (weight of the parent).



Eggs from spawning, harvesting and stocking of larvae

Preparing the right larval nursery container is one of the keys to success in producing quality seeds. Natural food is abundant and suppresses the development of pests in the pond, so that the seeds are more uniform and the nursery period is shorter.



Harvest seeds