



Philippine Association of Crab Processors, Inc.
AN ASSOCIATION FOR SUSTAINABLE CRAB FISHERIES



AFOS Foundation
For Entrepreneurial Development Cooperation



SAVING THE BERRIED BLUE SWIMMING CRAB (*Portunus pelagicus*) in the Municipality of Bantayan

¹Rodriguez, L.M., ²Novero, M.J.L., ²Patual, I.J., ¹Calicoy, ¹A., Loquinario, ¹A., Ybanez, C., and ¹Canitan, J.

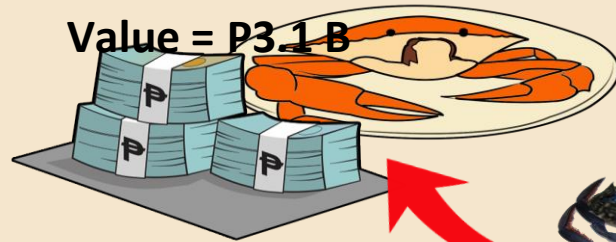
¹ Philippine Association of Crab Processors Inc.

² Municipality of Bantayan, Cebu



WHY Blue Swimming Crab?

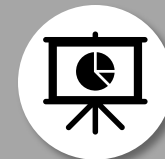
Produksyon / Crab Production = 27,
Pagkain 253MT
Value = P3.1 B



Panghanapbuhay



Pang-Eksportasyon /
Kalakalan Export =
5,372MT
Value = \$80.5M
P3.5B



WHY Blue Swimming Crab?



Source: Fisheries Statistics of the Philippines, 2017-2019; PSA, 2021; Major sources of swimmer crab into the United States in 2011



GOALS



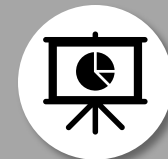
**Save Berried
Crabs**



**Supplement
Population
Loss**

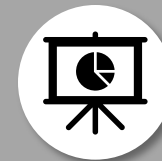


**Educate Crab
Fishing
Community**



Thai-style Hatchery

- Adapted from Thailand
- First piloted in BFAR-MSH Sinandigan Bohol on 2018
- Low-cost compared to conventional hatchery
- Hatching Tanks



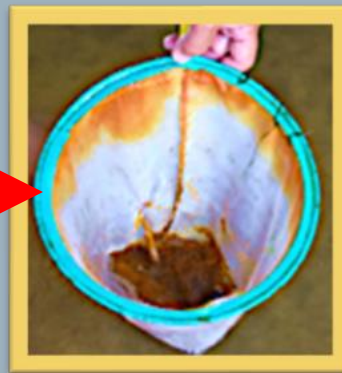
HATCHERY PROCEDURE



Collect berried crabs



Gently brush the abdomen/apron



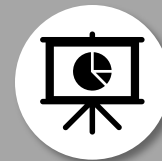
Collect using 80 μ mesh net



Aerate with filtered SW



Release in the night

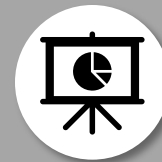


Data Collection

- Municipality of Bantayan, Bantayan, Island, Cebu



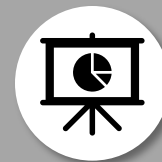
Hatchery and
Release Site
(Brgy. Guiwanon)



Crablet Abundance



Experimental Site
(Brgy. Guiwanon)



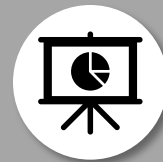
Crablet Abundance



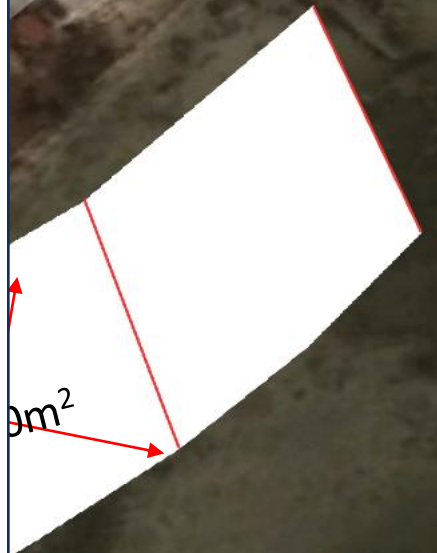
Control Site
(Brgy. Luyong Baybay)



Image © 2023 Maxar Technologies



Crablet Abundance



Technologies

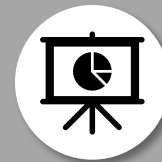


Zoea/Megalopa Abundance

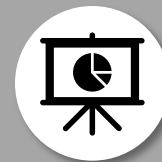
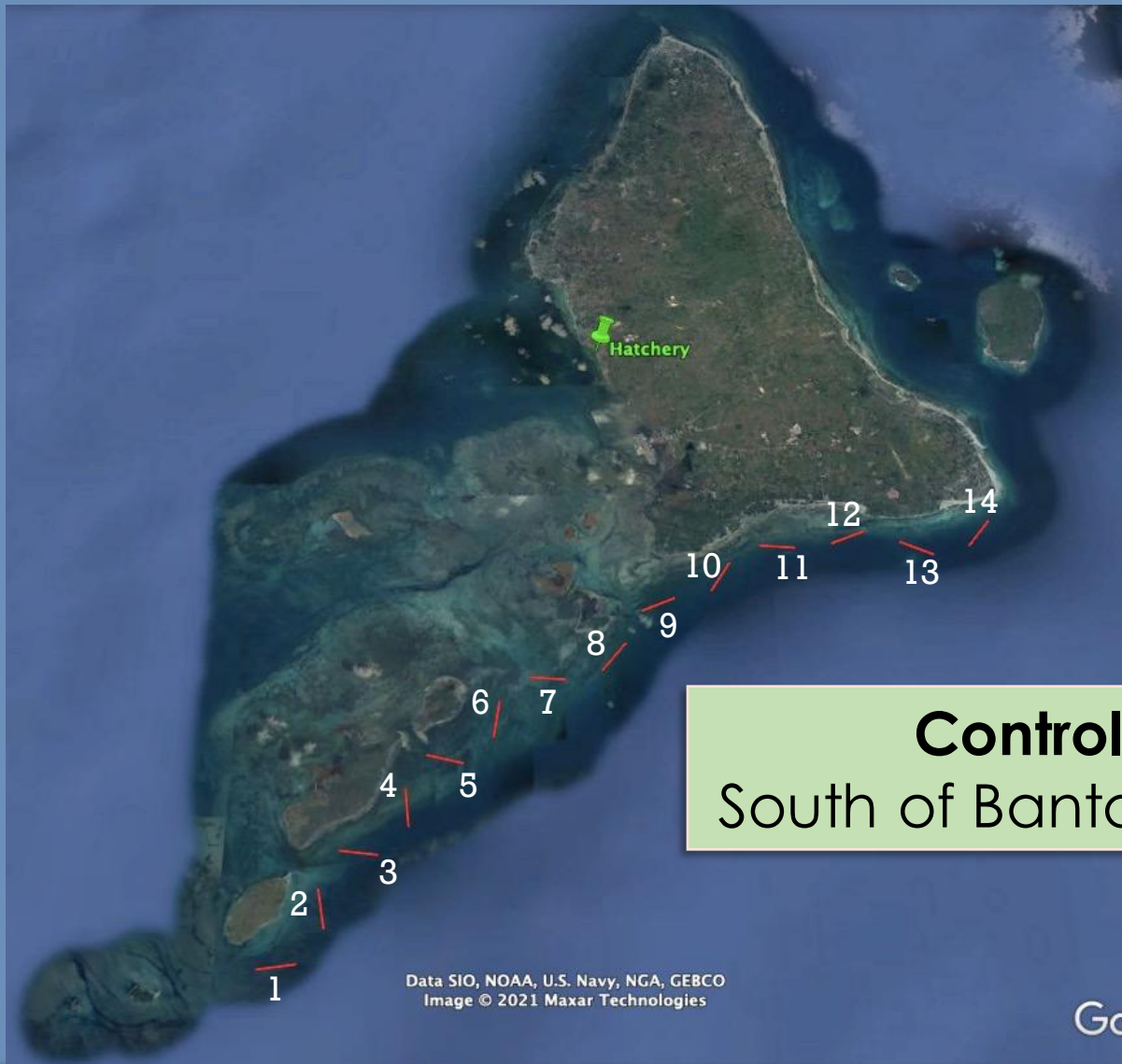
Experimental Site
Northwest of
Bantayan Island



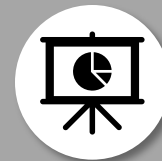
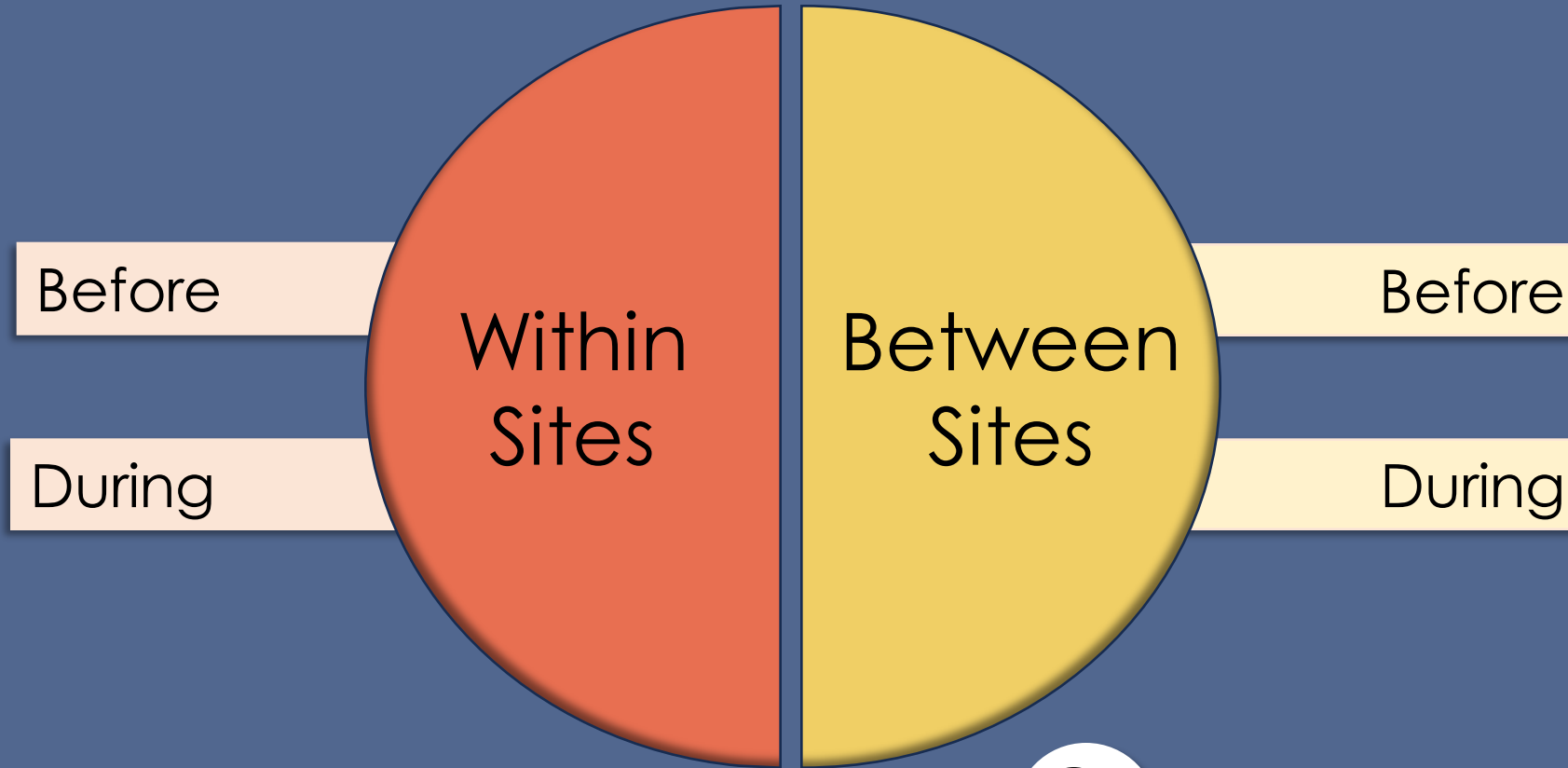
- 1km/6mins
towing
- Night
sampling



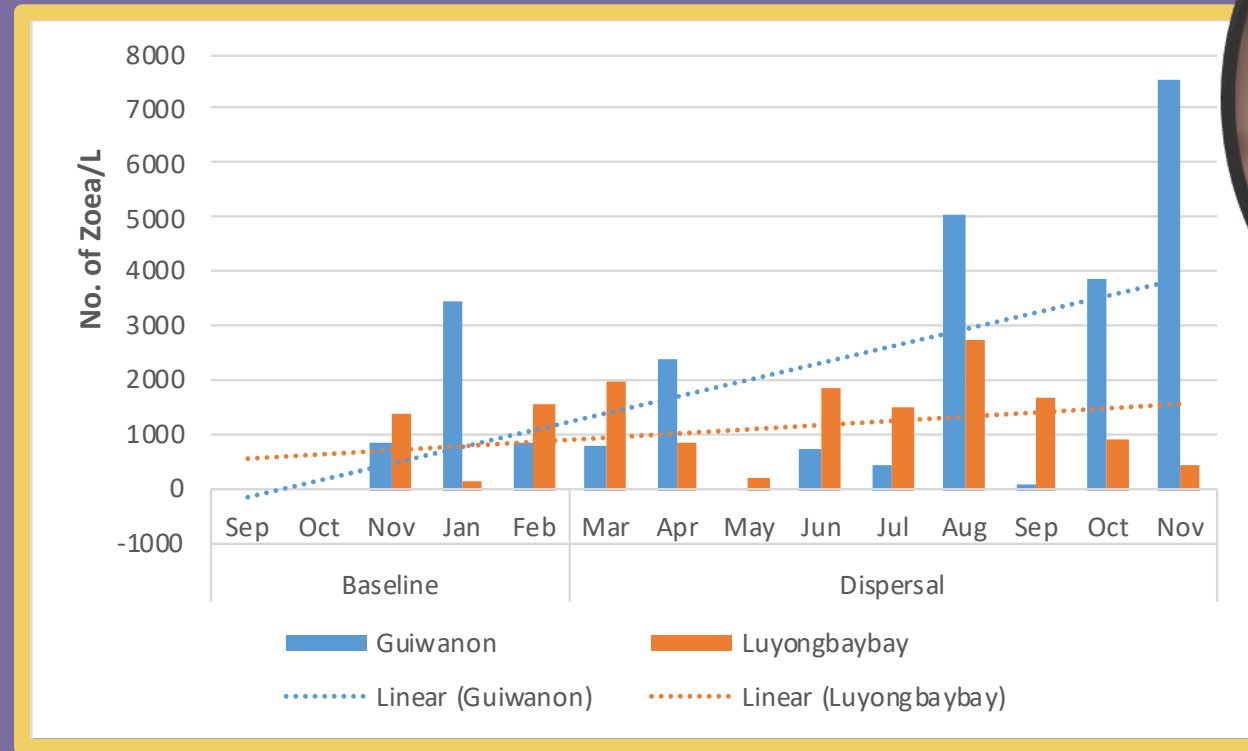
Zoea/Megalopa Abundance



ANALYSIS OF ABUNDANCE



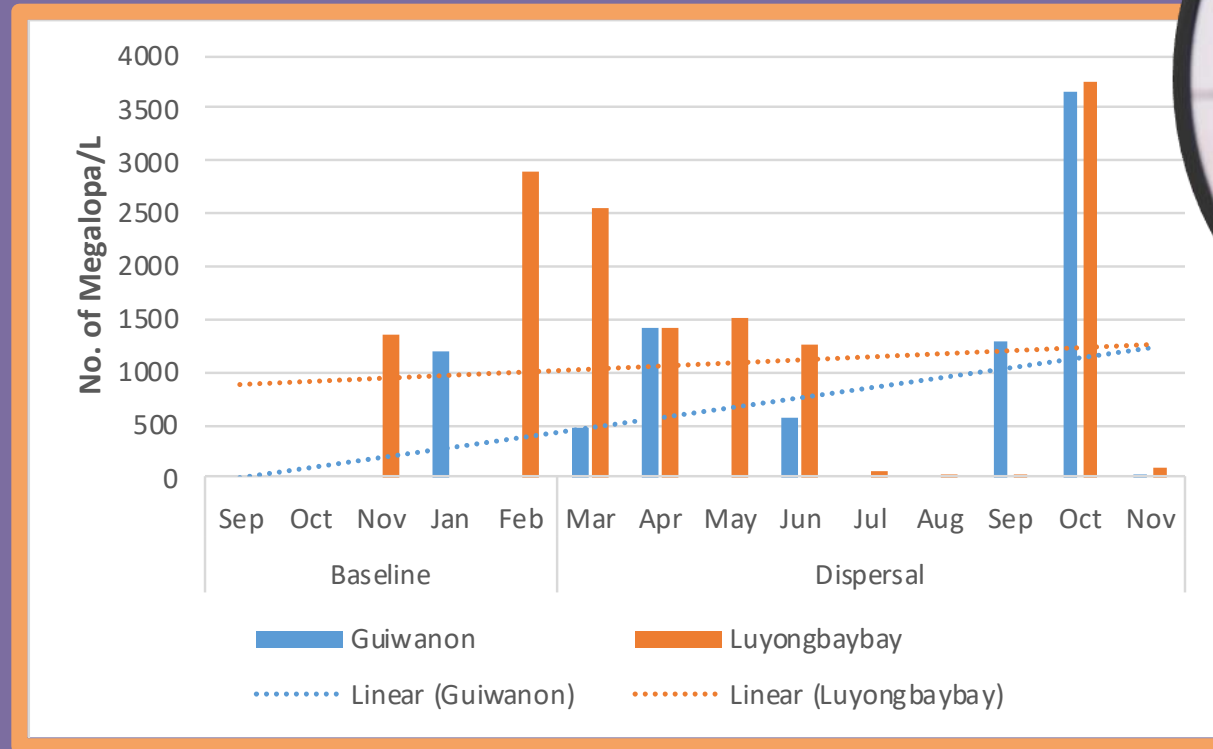
RESULTS



Zoa Abundance (ind/L)



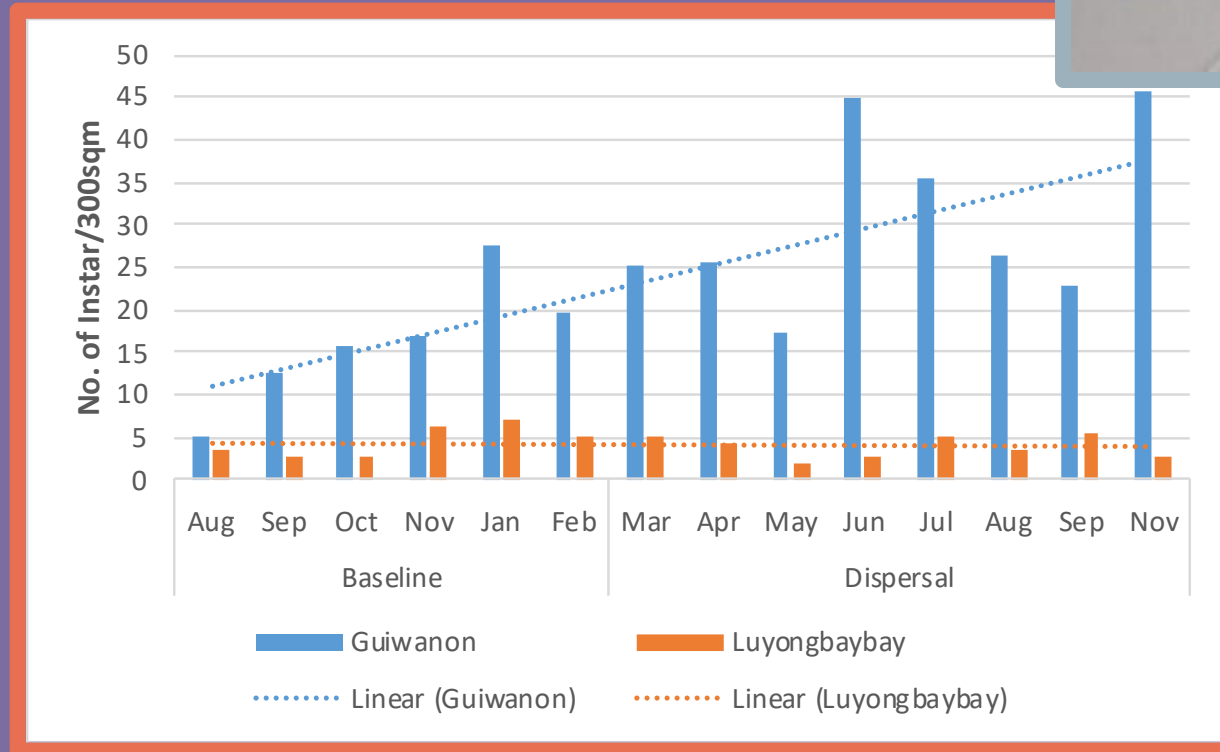
RESULTS



Megalopa Abundance (ind/L)



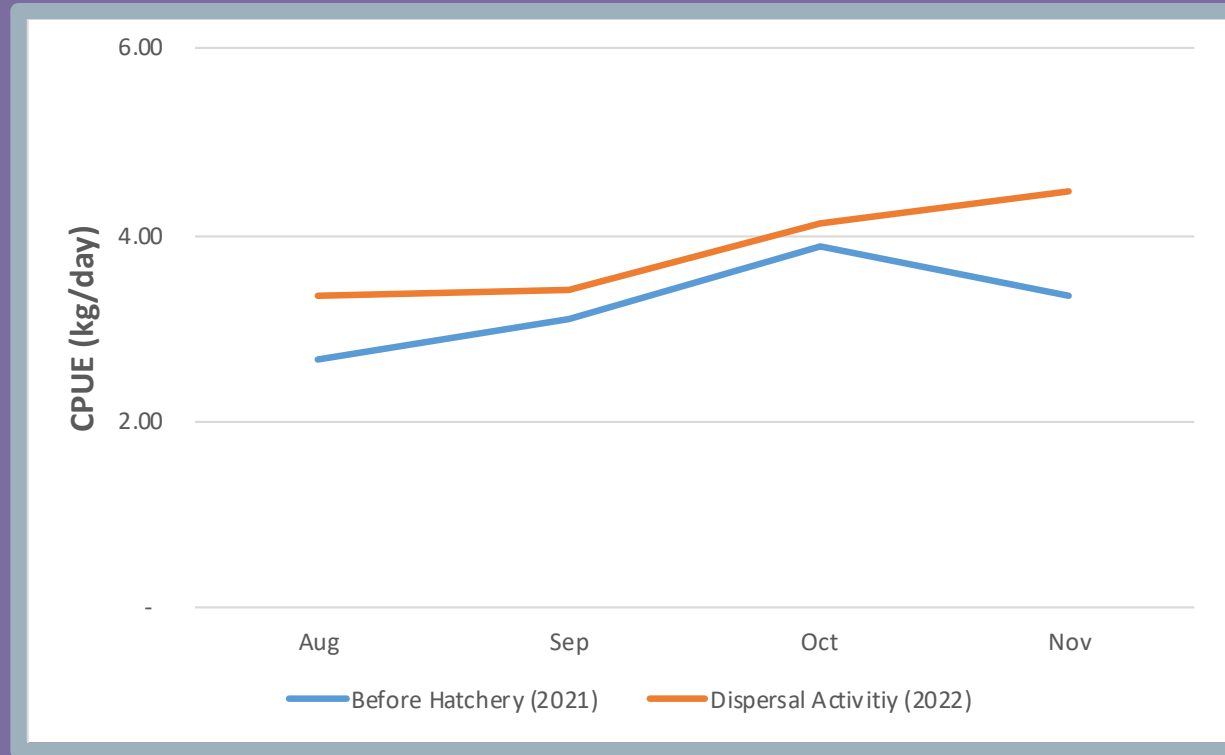
RESULTS



InstarAbundance (*ind/L*)



RESULTS



Catch Per Unit Effort (kg/day)



RESULTS

Data	Comparison between Sites (C vs E)	P-value
Instar (<i>ind/L</i>)	Baseline Months	0.118
	Dispersal Months	0.000*
	Overall	0.000*
Zoea (<i>ind/L</i>)	Baseline Months	0.806
	Dispersal Months	0.874
	Overall	0.733
Megalopa (<i>ind/L</i>)	Baseline Months	0.010*
	Dispersal Months	0.680
	Overall	0.039*



RESULTS

Data	Comparison Baseline vs Dispersal Months	P-value
Instar	Control Site	0.528*
	Experimental Site	0.000*
Zoea	Control Site	0.139
	Experimental Site	0.103
Megalopa	Control Site	0.716
	Experimental Site	0.003*
CPUE (ANOVA)	Before and During Hatchery	0.164



CONCLUSION/RECOMMENDATION

- Stock enhancement project is a good aid for population loss
- Hatchery is a supplemental strategy when resource management and governance are being strengthened.
- **HIGH AWARENESS of the coastal communities** and **STRONG policy implementation of the LGU** is the **BEST FORMULA** for sustainable fisheries resources and industry.



MEMBERS & PARTNERS

