

AMBON (Antimicrobial Agents by Ozone and Silver Nanoparticles) : The Effectiveness of Antimicrobial Activity of Ozone and Silver Nanoparticles Against Milkfish Larvae

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JUSTIFICATION



Consumption of the most cultivated seafood



Previous Research

The solution that has been done is by providing sufficient and good quality feed, but doesn't inhibit the growth of microbes in milkfish larvae



Ozone and Silver Nanoparticles

BIBLIOGRAPHY

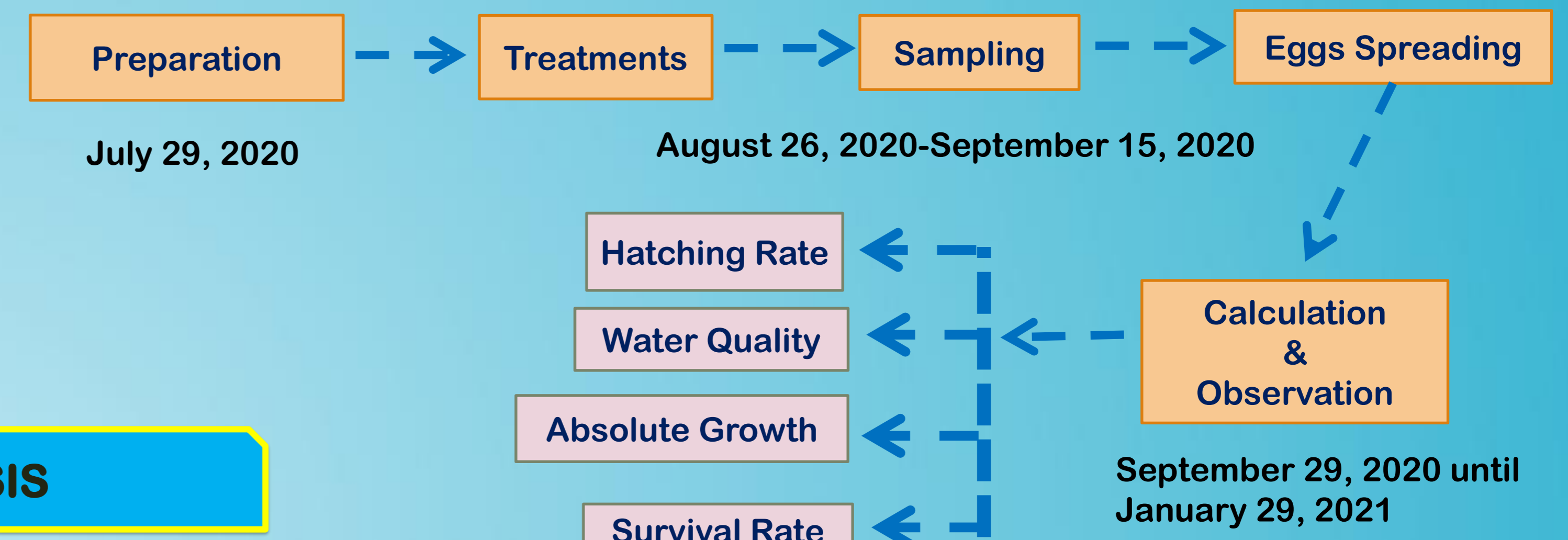
WATER QUALITY	OPTIMUM (SNI (6148.3.2013))
Temperature	28°C - 32°C
Salinity	30 ppt – 35 ppt
pH	7,0 – 8,5

RESEARCH STRATEGY

The strategy used in this study is a quantitative research strategy to examine the reduction in mortality rates of bandeng fish larvae caused by bacteria. Data is collected using instruments or measuring instruments, then analyzed by statistics or quantitatively.

In this research combines quantitative and qualitative research methods in accordance with scientific rules to achieve research objectives.

RESEARCH PROCEDURES & TIME TABLE



RESEARCH PROBLEMS

- How is the effectiveness of AMBON (Antimicrobial agents of Ozone and Silver Nanoparticles) against milkfish larvae?
- What are the characteristics of ozone and silver nanoparticles against maintenance media of milkfish larvae?

HYPOTHESIS

- H0: Ozone and silver nanoparticles are not effective as antimicrobials against
- H1: Ozone and silver nanoparticles are effective as antimicrobials against

RESEARCH OBJECTIVES

- To know the effectiveness of AMBON against milkfish larvae.
- To know the characteristics of ozone and silver nanoparticles against maintenance media of milkfish larvae.

OBJECTS



Sea Water



Silver Nanoparticles



Milkfish Eggs



Ozone

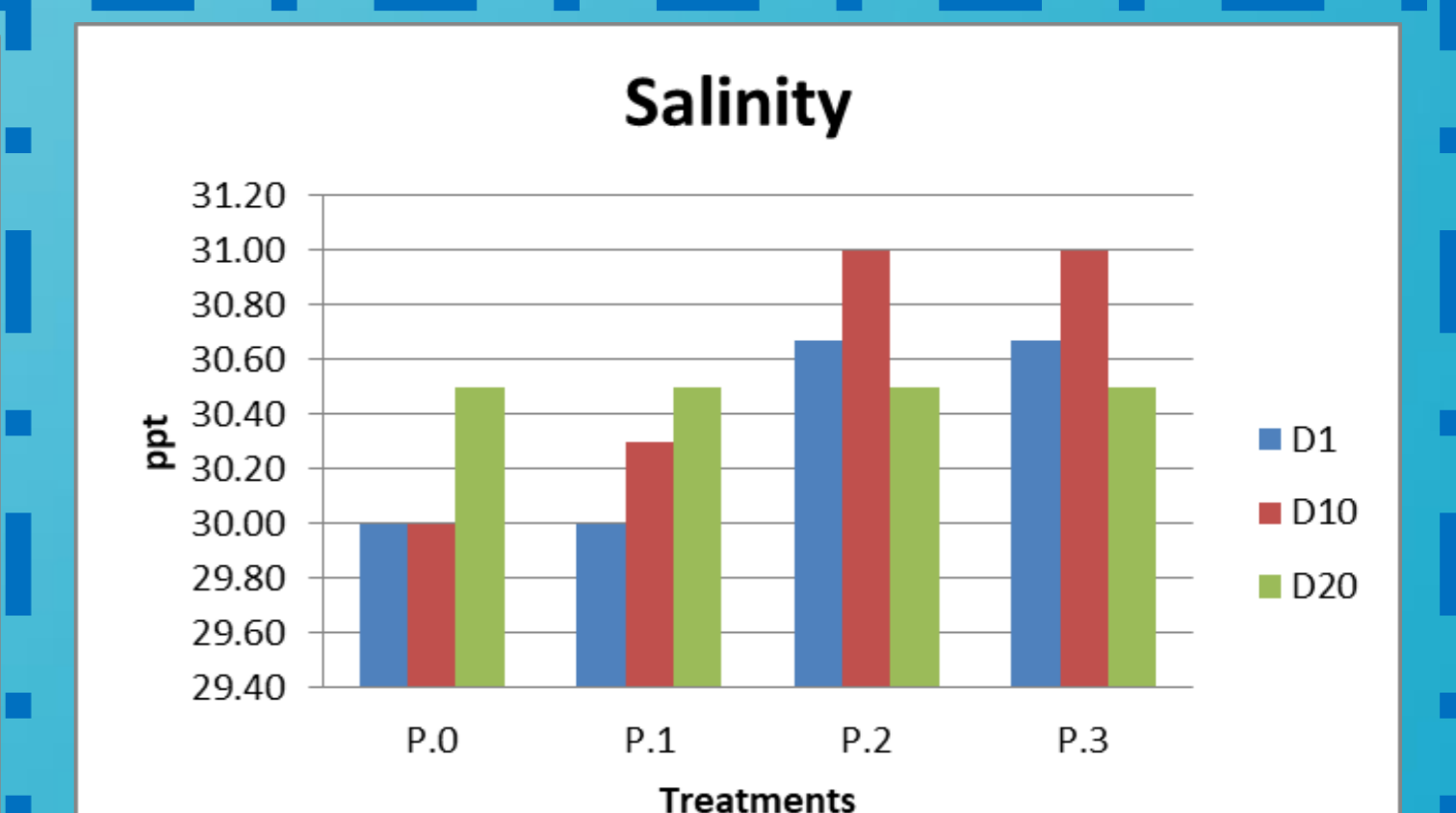
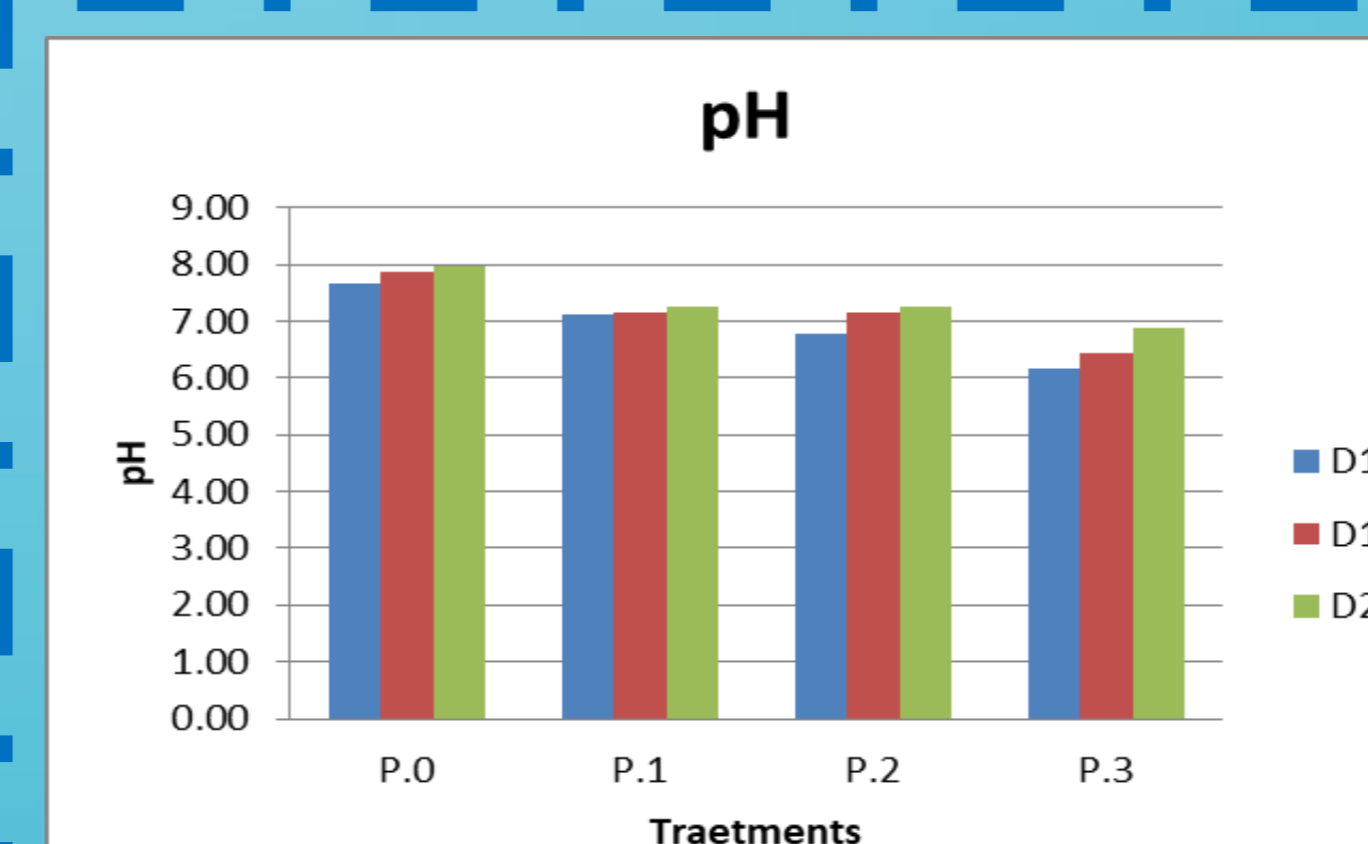
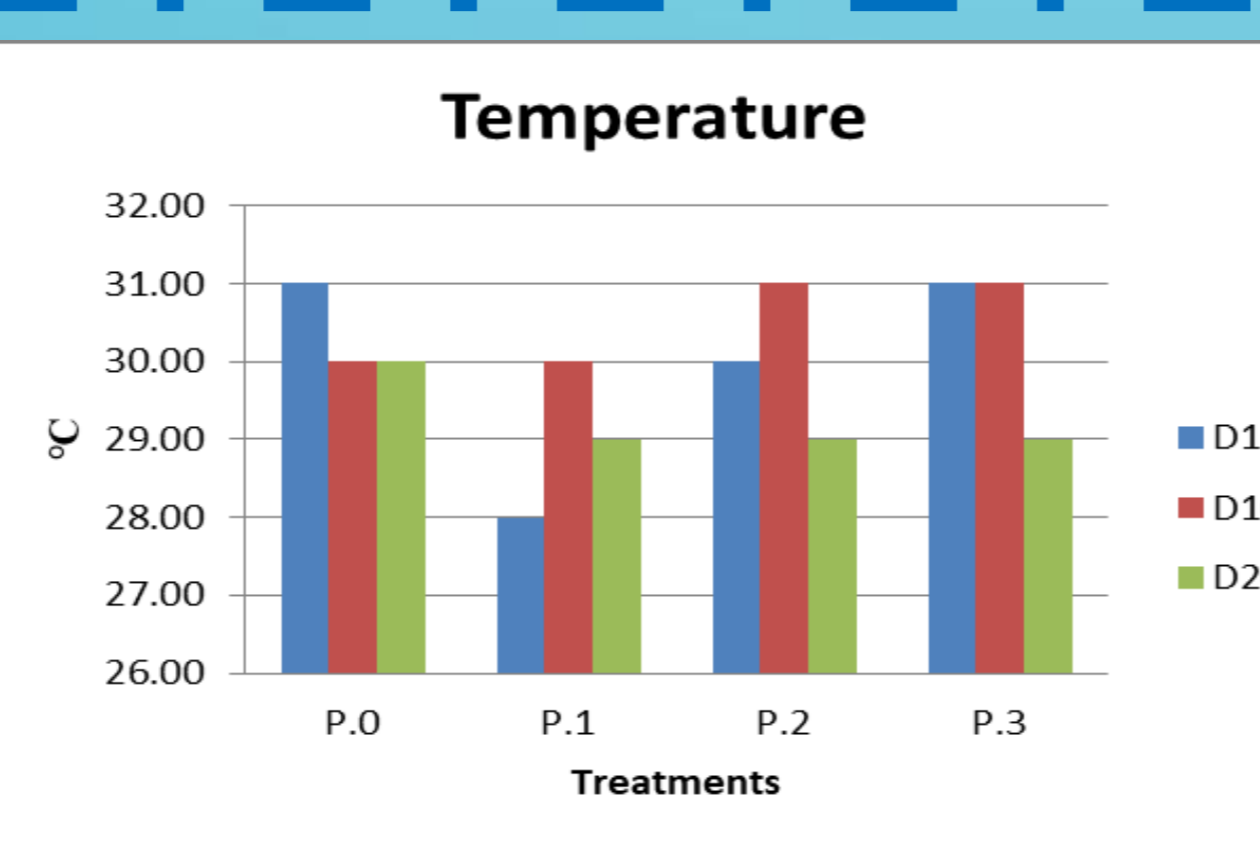
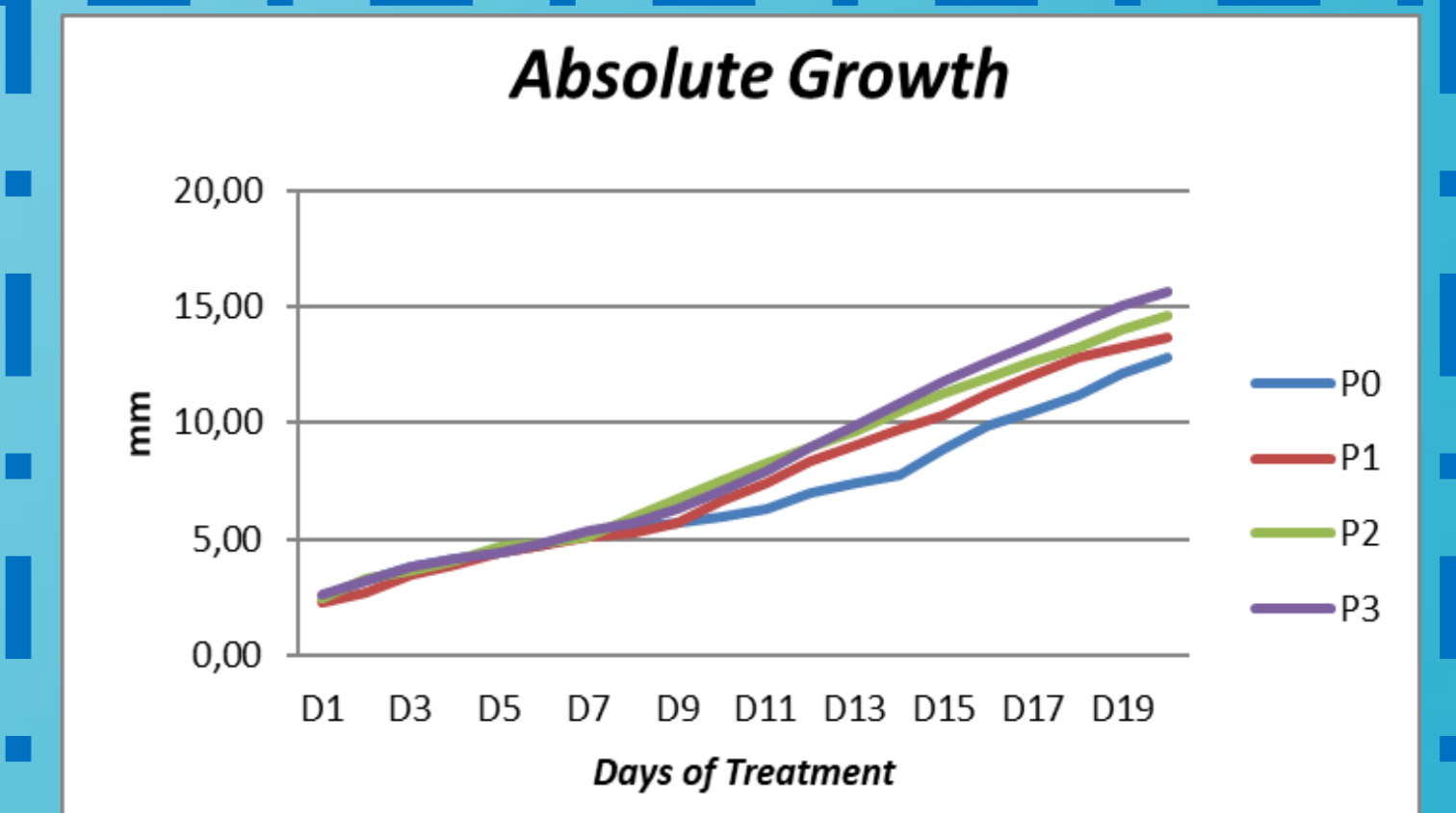
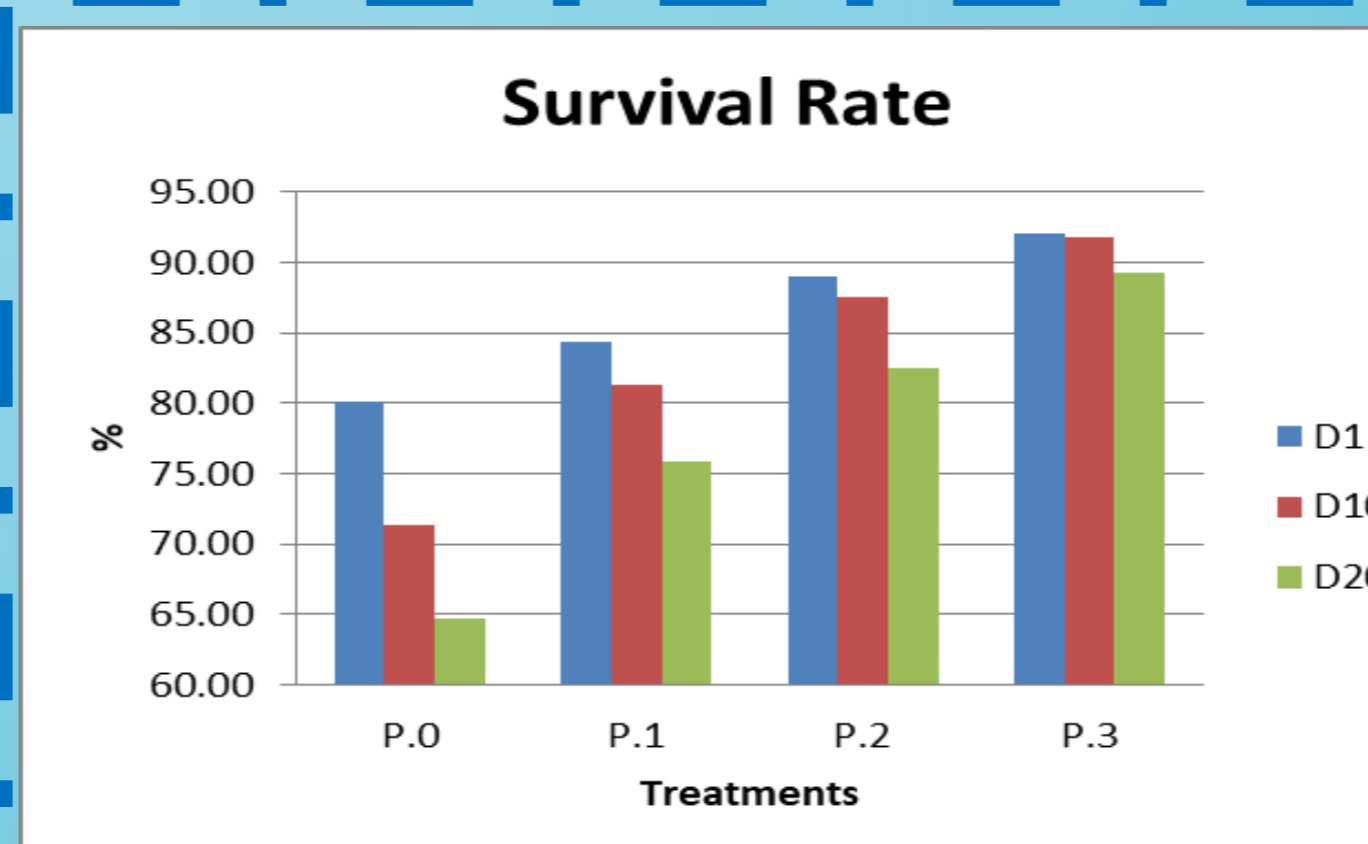
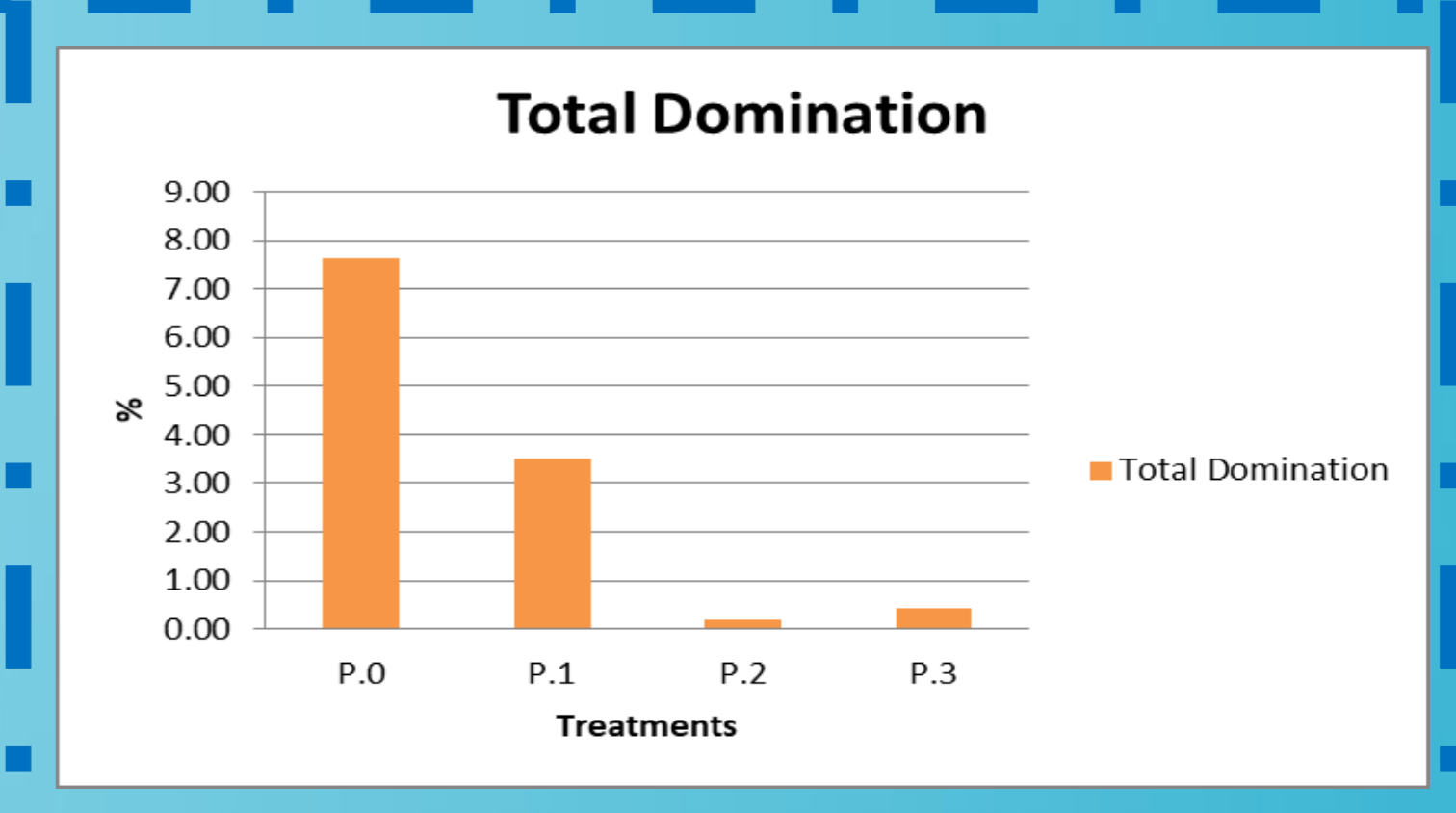
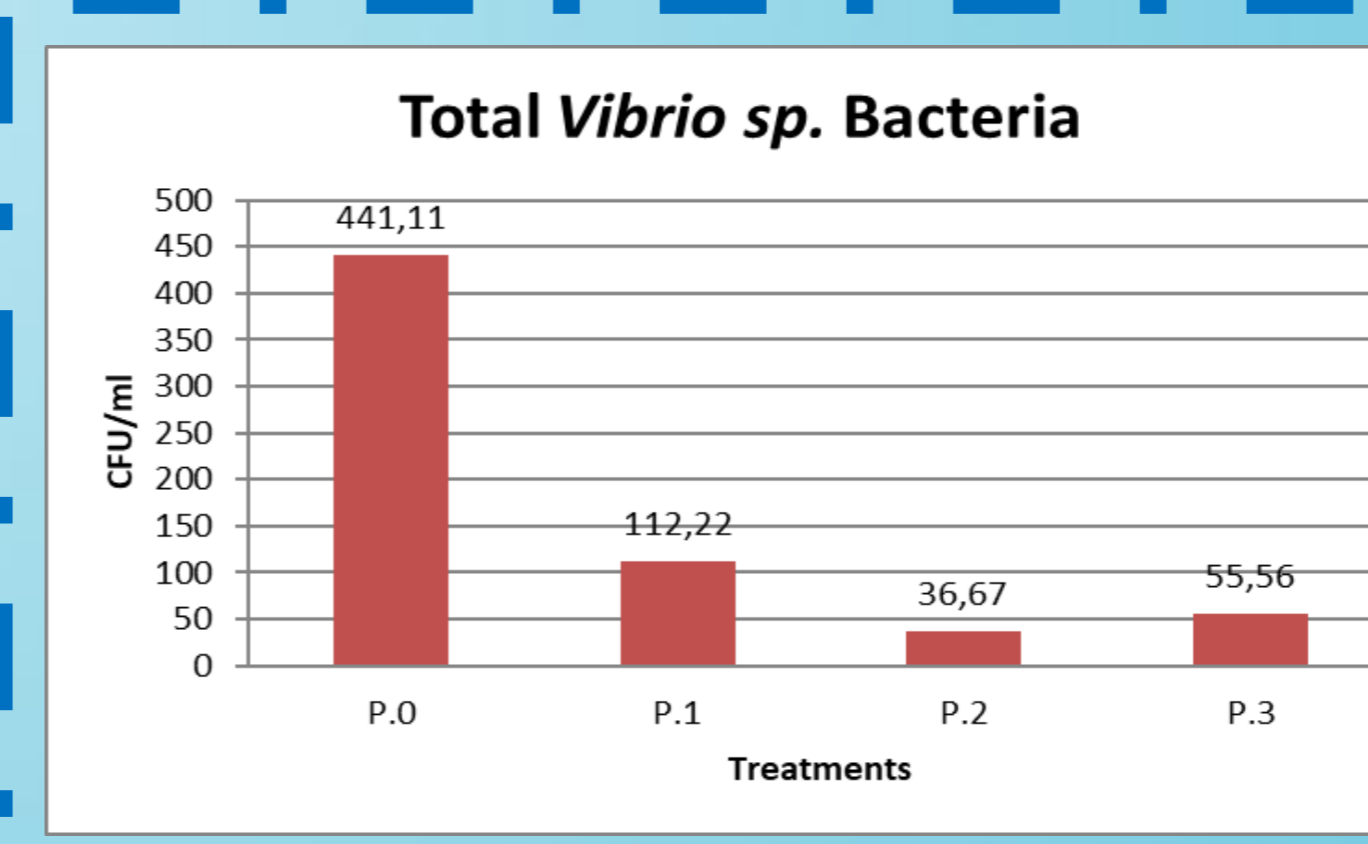
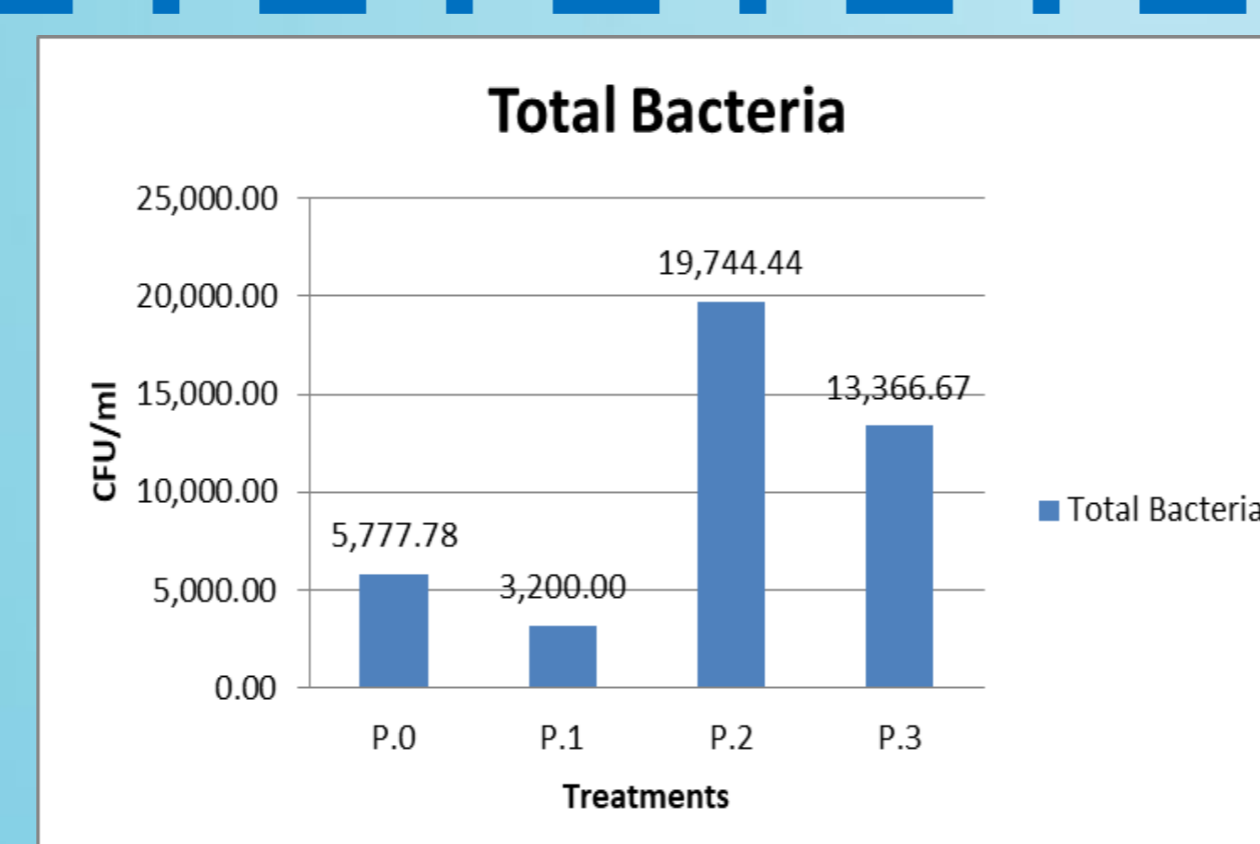


Plankton



Aquades

DATA ANALYSIS



REFERENCES

- Ath-thar F.H.M, dan Gustiano R., 2010. Performa Ikan Nila Best Dalam Media Salinitas. [Jurnal]. Balai Riset Perikanan Budidaya Perairan Air Tawar, Bogor.
- Direktorat Jenderal Perikanan Budidaya. (2016). Peta Sentra Produksi Perikanan Budidaya. Jakarta.
- Saputra, F., Effianda, T. R., Rahimi, S. A. El, & Nurfadillah. (2018). Pengaruh Ekstrak Bawang Putih (Allium sativum) terhadap Daya Tetas Telur Ikan Bandeng (Chanos chanos). *Jurnal Akuakultura*, 2(1), 10-18.
- SNI.6148.2. (2013). Ikan Bandeng (Chanos chanos, Forskal) - Bagian 2: Benih. *Badan Standarisasi Nasional*.
- SNI.6148.3. (2013). Ikan Bandeng (Chanos chanos, Forskal) - Bagian 3: Produksi benih. *Badan Standarisasi Nasional*.
- Taslihan, A, Ani W, Retna H, S.M. Astuti. 2004. Pengendalian Penyakit Pada Budidaya Ikan Air Payau, Direktorat Jenderal Perikanan Balai Besar Budidaya Air Payau Jepara.

MAN 1 KUDUS TEAM



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