

## **POTENTIAL MAPPING AGRICULTURAL COMMODITIES TO MITIGATION OF FOOD PROBLEM IN THE FUTURE**

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### **Abstract**

Catastrophic climate changes that have a negative impact in various fields including agriculture. The research objective is "Potential Mapping Agricultural Commodities to Mitigation of Food Problem in the Future". The research method is quantitative and qualitative. Methods of data collection using field research and literature. The population and the sample is a land unit and village units. Land units determine the suitability of land. The village unit collects socio economic data. The analysis technique used Location Question, Shift Share, Focus Group Discussion and spatial analysis. Spatial analysis using Arc GIS. The findings can be used to mitigate future food problems and analyze policies. The results showed rice plants has S1 class (Very Suitable). Corn, chili, orange and banana land suitability S2 (Suitable), onion is S3 (Marginal Suitable). Priority 1 rice commodity in Ayuang Village. Priority 2 Corn in Banua Binjai. Priority 3 that Chilli in the village of Awang Besar. Results LQ corn and chili have base sector, other sectors have the non-base. Shift-share value is negative (-) except Chili. FGD results show developed commodity rice, corn, and chili. The development of leading sectors followed by marketing and processing can increase revenue. Limitations of the research do not examine pests that have the potential to cause crop failure.

Key words: mapping, agricultural, mitigation.