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The Impact of Climate Change on Rice Production Center at Area of the City near the Beach in Indonesia

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Abstract: Impacts of climate change in the region of the northern coast of West Java in particular Karawang investigated using climate data, agricultural systems data, and socio-economic communities data. Given the comprehensiveness of climate data are hard to obtained data then the IPCC (Intergovernmental Panel on Climate Change) are used for this research. The data system of agriculture is high, very high levels of vulnerability and risk levels of the farm system. Sub-district level hazard of Pedes is high while the Banyusari subdistricts in the region have a level of vulnerability, hazard and risk. Among the 11 subdistrict, subdistrict of Tempuran hazard level and social economy community Karawang data obtained from BPS (Central Bureau of Statistics). The results show that the eleven had a very high level of vulnerability. Therefore then the forward should be attempted so that the impacts of climate change on farming systems in the coastal town of Karawang district must be slowed to avoid a severe impact on the production of rice.

Keywords: Climate change, Vulnerability, Risk, Farming systems.

1. Introduction

Climate change has brought important impacts for all sectors of life, agricultural sector is no exception. There have been many reported from various parts of the world that shows that the agricultural sector has a particular vulnerability levels (Lee et al., 2012; Knox et al., 2012; Osborne and Wheller, 2013; Joseph and Francisco, 2009; Sultan, 2012). Agricultural production in various parts of the world show that the impacts of climate change is quite significant. Happens a decrease in agricultural production from a few percent to over ten percent (Knox et al., 2012). Indonesia is located in the tropics the Equator that are vulnerable to climate change. Even according to Measey (2010) the level of vulnerability of farming systems in the region are grouped into high scale. If so then it is possible that in the future the vulnerability levels will be higher and disrupted farming systems in the region. As one of the world’s rice producers in 2012 who contributed amounted to 11% (chinawaterrisk.org) then the distractions on his farm system could have an impact is not good for the people of Indonesia. Most of the region is a region near the coast are also affected by an increase in the sea level due to the melting of polar ice caps. As one of the regions bordering the Java Sea then Karawang farm production could be affected. The city is included in the West Java province who donate rice production 12.35% of West Java and 2.2% of the national rice production (BPS, 2014). The city has 30 subdistrict which is mostly designated as areas of rice production, even being kept to the existence of local regulations prohibiting their citizens to change his farmland into non agricultural land. Climate change is happening as long as it can bring the impact of unfavourable for agricultural sector of this region in the future. The risk of a decline in agricultural production, especially rice could have an impact on the availability of staple foodstuffs and food security in the region. The purpose of this research is to know the extent of the level of risk experienced by the agricultural system of rice plant in the coastal city.

2. Material and Method

To find out how big the risk levels of the farm system of rice plant in the future then the required climate data, agriculture and social economy data. Climate data in the form of monthly temperature and rainfall. Given that BMKG (Agency for meteorology, Climatology and Geophysics) has no observers in Karawang station then temperature data is represented by the region adjacent to the area of research i.e. station observers in the Regency of Subang, a town in the East of Karawang. Monthly rainfall data obtained from the Department of Agriculture of Karawang. Good projection data of temperature or precipitation and sea level rise for the year 2030 prepared fromdatahttp://www.ipcc-data.org/auto/ar4/var-air_temperatureand http://www.ipcc-data.org/auto/ar4/var-air_precipitationusing linear regression. The data includes agricultural land area data on drought and flooding, extensive farmland, agricultural lands, topography, irrigation infrastructure and socio-economic data covering whilst the number of farmers, farmersincome, level of education of farmers and the agricultural share in GDP (Gross Domestic Income). The Subdistricts reviewed were Telukjambebarat, Telukjambetimur, Banyusari, Telagasari, Rawamerta, Kutawaluya, Tempuran, Pedes, Tirtajaya, on Batujaya, and Pakisjaya. The data obtained from the BPS and the Department of agriculture for the period of Karawang 2004 up to 2013. To know the projection of the level of risk then do some stage determination i.e. determination of hazard, vulnerability and risk itself. To
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