

## SUMMARY

Dhara Kusuma Wardhani, Urban and Regional Planning Department, Faculty of Engineering, University of Brawijaya, January 2017, *Disaster Risk Reduction Priorities of Mount Bromo Eruption in Sukapura District, Probolinggo Districts*. Supervisor: Turniningtyas Ayu Rachmawati and Fadly Usman.

The eruption of Mount Bromo is relatively active in the span of 4-6 years. District Sukapura is one of the worst areas affected by the eruption of Mount Bromo in Probolinggo and has three disaster-prone areas (KRB), the KRB high, medium, and low. The majority of District residents Sukapura a resident of Tengger tribe which political local wisdom. Indigenous shamans influence the decision making of disaster measures, especially disaster evacuation process. In addition, residents have confidence that the Tengger tribe Mount Bromo is a sacred mountain blessing carrier so as not to endanger. This causes a lot of residents who stayed behind and did not follow the evacuation process. The research objective to make disaster risk maps and set priorities for disaster risk reduction eruption of Mount Bromo in villages District Sukapura appropriate disaster risk levels (high, medium, and low). The variables used were the hazard, vulnerability, capacity, and disaster risk reduction. The analysis used is disaster risk analysis and analytical hierarchy process. Data were collected by literature study and observation. This study using 361 samples was calculated using the formula Isaac and Michael. The sample are scattered in 12 villages in the district Sukapura.

This study shows that the vast region of high disaster risk is 4497.412 ha distributed in the village Sariwani, Ngadisari, Ngadirejo, Ngadas, Jetak, and Wonotoro. The area of disaster risk being is 1189.773 ha distributed in the village Sariwani, Sapikerep, Wonokerto, Ngadirejo, Ngadas, Jetak, and Wonotoro. The area of disaster risk low is 522.102 ha located in villages of Sukapura, Sapikerep, and Ngepung. Based on the analysis of disaster risk, priority PRB used is the socialization of hazard and training non-structural measures (A), protecting the vulnerable economy (B), improving infrastructure (C), linking customary to develop DRR (D). Disaster risk reduction priorities eruption of Mount Bromo area of disaster risk high is the socialization of danger and training measures non-structural with the value of 0.439 (A), improving critical infrastructure with a value of 0.237 (C), linking customary to develop DRR with a value of 0.198 (D), and protect vulnerable economy with a value of 0.126 (B). Disaster risk reduction priorities eruption of Mount Bromo area of disaster risk being is (A) socialize the danger and the training act of non-structural with the value of 0.337, (B) protect the economy vulnerable to the value of 0.261, (D) linking customary to develop DRR with 0,211, and (C) improve critical infrastructure with a value of 0.191. Disaster risk reduction priorities eruption of Mount Bromo area of disaster risk low is (A) socialize the danger and the training act of non-structural with the value of 0.351, (C) improve critical infrastructure with a value of 0,312, (B) protect the economy vulnerable to the value of 0.185, and (D) associate customary to develop DRR with 0,153 value.

Keywords: Disaster Risk, Disaster Risk Reduction Priority, Mount Bromo



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