

Geospatial Analysis on Research Applied of Risk Landslide Area in Kendal Regency

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Abstract

Landslide disaster can generate loss of big enough items and at some place cause soul victim. To lessen victim and loss effect of landslide, hence needed map of landslide disaster risk.

Kendal regency represent area owning landslide disaster risk and susceptance, so that needed analysis of geospatial use computing program of arc view 3.3. To know landslide disaster susceptance need analysis of geospatial with used aspect consist of litology, geology structure, ramp, land support energy and rainfall. While for geospatial analysis of landslide disaster risk conducted by overlay between map of landslide disaster susceptance with map of density and map of landuse, its also conducted by simulation with variable of litology and geology structure, its so that got map of landslide disaster risk in Kendal regency. Geospatial analysis conducted by multiplication between value of capabily farm with aspect wight which share as according to assessment standard and wight value of SNI 13-7124-2005.

Pursuant to map of landslide disaster risk, Kendal regency have 4 landslide disaster risk level, that is high landslide disaster risk, middle, lower and very low. Than landslide disaster risk level, hence can be conducted landslide disaster mitigation, so that generated impact can decrease.

Keywords : landslide, geospatial, map of landslide disaster risk.