

# MODEL SPASIAL PERUBAHAN LAHAN SAWAH DAN ARAHAN PENGENDALIANNYA DALAM MENDUKUNG PEMENUHAN KEBUTUHAN BERAS DI KABUPATEN INDRAMAYU

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## ***Abstract***

*This research is a research conducted to find out the change of land that happened in Regency of Indramayu span of year 2008 until 2015 especially paddy field change, then simulated for prediction of land usage in the future in this case simulated in year 2031, from simulation will be known land conversion that occurred and relate to the availability of wetland area and availability of rice in Indramayu District. In addition to simulating land changes and analysis of rice needs, this study will also try to develop appropriate land change control directives to support rice needs in Indramayu District.*

*Based on the results of research conducted, the use of land Indramayu District in 2008 and 2015 changes in domination by the change of rice fields into 177 ha of settlements. The prediction of land use change in 2031 in Indramayu Regency is divided into 3 scenarios, scenario 1 if there is no policy making of land cultivation, there will be 1,730 tons of rice stock every year. Then, scenario 2 if the policy of 50% of land conversion is stopped will decrease the supply of rice will be reduced to 1,410 tons per year. While scenario 3 by maintaining land corresponding to 1 and 2 rice fields, the amount of rice supply in Indramayu Regency in 2015 until 2031 will remain a surplus with a reduction of rice inventory of only 1,293 tons per year. The policy direction to expand rice field in Indramayu Regency based on the ratio of rice field area and paddy production from 3 scenarios that have been done, then scenario 3 is a scenario that can be done to increase paddy field area and rice productivity. It is also very possible to be implemented because most of the rice fields in Indramayu District are owned by local community.*

**Keywords:** *Spatial Model, Rice Field, Controlling, Regency of Indramayu*