

ABSTRACT

RULY RONALDO. 2023. *WEB-BASED WEB-BASED MAPPING OF THE SPREAD AND ZONATION OF STATE HIGH SCHOOLS IN ADMISSION OF NEW STUDENTS (PPDB) IN KESAMBI DISTRICT, CIREBON CITY*. Department of Geography Education, Teaching and Education Faculty, Siliwangi University, Tasikmalaya.

This research has a background that the implementation of the acceptance of new students in 2022 uses the zoning system, registration of new students in the zoning system is an effort for prospective new students to be accepted at the school closest to the zone of residence and used as an effort in equal distribution of educational quality. According to the Central Bureau of Statistics for Cirebon City, the population of Kesambi District aged 15-19 years is around 6,195 people. This region has 4 public senior high schools that are active in organizing learning activities. Therefore, prospective students must be selective in choosing which public high school they will go to. The aims of this study were (1) to determine the location distribution of state high schools in Kesambi District, Cirebon City. (2) to find out the zoning mapping of WebGIS-based public high schools in accepting new students in Kesambi District, Cirebon City. The method used in this study is a quantitative descriptive method with data collection techniques through observation, interviews, questionnaires, documentation studies, and literature studies. Data analysis techniques in this study are quantitative analysis, nearest neighbor analysis and buffering analysis. The results of this study indicate that the distribution of public high schools in Kesambi District is evenly distributed with an index value of around 1.9. nearest neighbor analysis results. The presentation of the location distribution of public high schools with a WebGIS-based Geographic Information System (GIS) in Kesambi District is carried out in several stages, namely the data collection stage, the data input stage, the WebGIS creation stage, the WebGIS publishing stage. This research is expected to provide convenience for the community when seeking information about the distribution of public high school locations in Kesambi District, Cirebon City which can be accessed via WebGIS and can be selective in choosing the intended public high school. WebGIS display regarding Distribution and Zoning Mapping of WebGIS-Based Public High Schools in Acceptance of New Students (PPDB) in Kesambi District, Cirebon City can be seen on the link provided: <https://arcg.is/0LCOKC>

Keywords: *Acceptance of New Students, Zoning System, Distribution of State Senior High Schools, Geographic Information Systems, WebGIS.*