

ANALYSIS OF SETTLEMENT BASED ON TOPOGRAPHY IN RABI JONGGOR VILLAGE, PASAMAN BARAT REGENCY

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ABSTRACT: Study This aim analyze spread settlement based on topography in Rabi Jonggor Village , Gunung Tuleh Subdistrict, West Pasaman Regency in West Sumatra Province. Analysis is done using secondary data and surveys area. Method Study This with use is qualitative character descriptive , for explain existing phenomenon with give description in a manner clear and appropriate with facts on the ground in detail later served in form map , As for the method data collection, namely primary data and secondary data, which was carried out with method survey right on location research and obtained through Bappeda . As for the results analysis performed is use land in Rabi Jonggor Village, Gunung Tuleh Subdistrict. This consists from Primary forest , shrubs , plantations oil palm , fields, fed rice fields Rain and Settlements . In a number of the year change use land also occurs in the area this. Viewed from spread settlement in Rabi Jonggor Village, Gunung Tuleh Subdistrict. This based on tilt most slopes on slopes Rather steep area of 257.63 ha and settlements on slopes Sloping covering an area of 236.72 ha, with a total area settlements in the area this is 618.88 ha.

Keywords: Settlements , Use Land , Slope

1. INTRODUCTION

Land is source power that can updated and at the same time one of the environmental media For produce food, housing, or other [1-3]. Use good land is appropriate use with suitability from land used.

Every activity man involve usage land that is on the surface earth, increase residents will too increase amount use land [4-7]. Life man no can regardless from utilization land, meanwhile available land support life man characteristic limited. This in line with growth fast population will push change use land among others for place stay and facilities development . Land area surface earth relatively still whereas need man will room place stay keep going increase along with enhancement amount resident.

Settlement one of use land, in general is something area owning residence facility form infrastructure and facilities To use support all activity live in it. Settlement pattern describe residential area distribution in accordance with condition geography or his physique [8-10]. Settlement development should also be quality oriented environment settlements, fine in development facilities and infrastructure support in fulfil need. Settlement should also follow criteria good settlement with fulfil aspect physical and non-physical aspects with objective enhancement quality life.

Rabi Jonggor Village located in the Ginung Tuleh Subdistrict, West Pasaman Regency, West Sumatra Province. This Village own distance of 11 Km from center Regency, altitude area varies which consists on settlements, plantations palm .

Based on Regency RBI Map West Pasaman Regency. This located at an altitude of 40 mdpl - 1850 meters above sea level (mdpl), Settlements area located at an altitude of 40-600 meters above sea level. Use land area This dominated by plantations so that public the village of Rabi Jonggor This depending on conditions nature, and also features life the people Still sticky with life public rural .

As society the countryside has characteristic problem resident like poverty , quality source Power low human. So that need is known characteristics settlement society, for Then is known characteristic characteristics and problems encountered community in settlements Rabi Jonggor Village.

2. RESEARCH METHODS

2.1 Location and Time of Research

Research location This namely Rabi Jonggor Village, Gunung Tuleh Subdistrict, West Pasaman Regency, West Sumatra Province. Geographic location, research area found at $99^{\circ} 39' 0''$ E – $99^{\circ} 49'30''$ E and $0^{\circ} 12' 45''$ N - $0^{\circ} 28' 30''$ N. Research

area own area of 35,033.05 ha. Research location can be seen in Figure 1. Research This done for 4 months, period study this between month March 2023 to month June 2023.

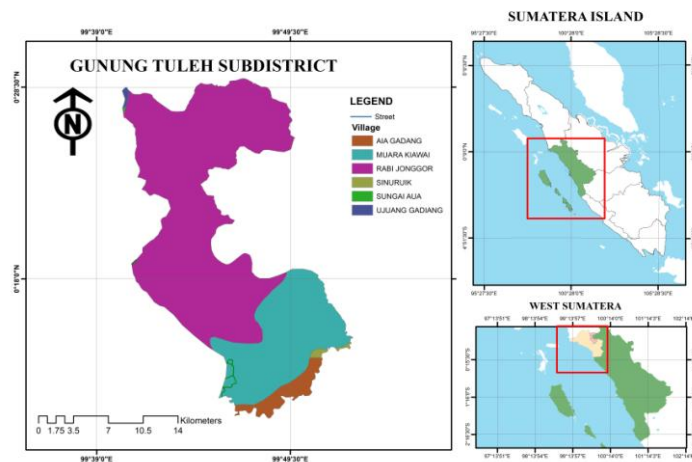


Fig 1. Research Locations

2.2 Procedure Study

Method research used is qualitative is descriptive, to explain existing phenomenon with give description in a manner clear and appropriate with facts on the ground in detail later served in form maps [11-16], drawing , and presentations that are described As for the method data collection is the primary data that is done with how to survey directly on location research and and secondary data, obtained through Bappeda data as well as studies library . Data processing is done with ArcGIS 10 application.

Tuleh Subdistrict experience change in its use. Where to use land moment this is the widest is primary forest, plantations, shrubs groves, fields, and settlements resident.

Based on data in Bappeda use land biggest Still Lots form primary forest in Rabi Jonggor Village, Gunung Tuleh Subdistrict, This reached 5690.01 ha, and shrubs thicket with area of 24445.16 ha next most usage already managed resident is plantation palm with area of 2990.79 ha, fields with area of 1267.86 ha and cistern rice fields Rain an area of 18.37 ha as well settlement resident Already covering an area of 618.88 ha. Here's a usage map land in Rabi Jonggor Village, Gunung Tuleh Subdistrict.

3. RESULTS AND DISCUSSION

Use Land in Rabi Jonggor Village, Gunung

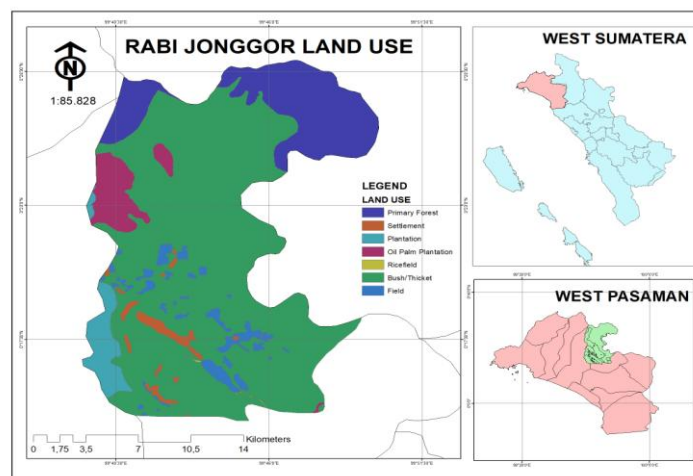


Fig 2. Map Land Use of Rabi Jonggor Village

The slopes in Rabi Jonggor Village, Gunung Tuleh Subdistrict also influences use existing land in

the area this. Slope is the angle formed by the difference tall surface terrain (relief), that is between field flat land with horizontal plane and in general

counted in percent (%). Classification slope according to the Decree of the Minister of Agriculture No.837/KPTS /Um/11/1980.

Table 1. Slope Steppess Classification

Degrees	Percentages	Description
I	0 – 8%	Flat
II	8% - 14 %	Sloping
III	15 % - 25 %	Rather Step
IV	26% - 40%	step
V	>40%	Very Step

Source : (Budiarti, 2020)

Slope will influence if done development settlement above it, percentage slope must be taken into account before build, because increasingly steep slope so Power the resulting support will also follow reduced. Land this has potential too to disaster vulnerable landslide moment season rain arrived. On the area slope steep so will there is field launcher below surface impermeable soil as well there is enough deep water soil in layers field slide so that land water saturation, then can happen disaster

landslides in the area tilt steep slope. Rabi Jonggor Village, Gunung Tuleh Subdistrict. It is dominated by slopes steep with slope of 25-40%, in addition That class slope others in Nagari Rabi Jonggor This is class slope rather steep with percentage of 15-25%, and slope sloping the percentage of 8-14% is in the section south There is part area with tilt slope flat 0- 8%. For more he explained shown on the map following this.

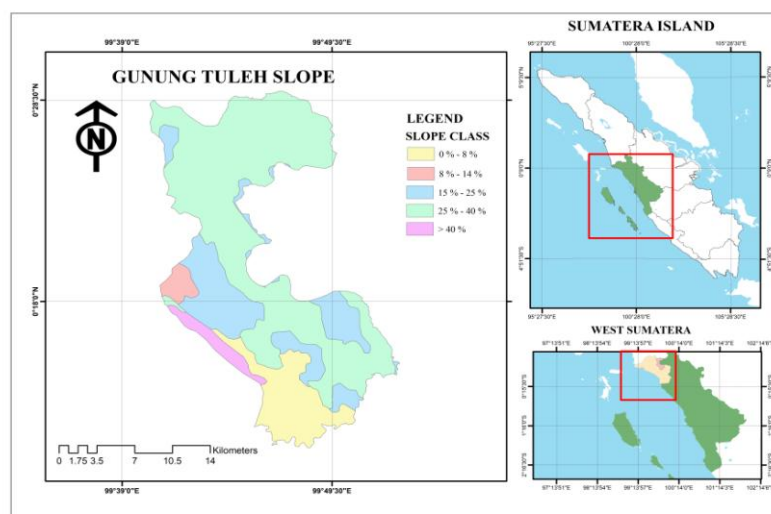


Fig 3. Gunung Tuleh Slope

On the spread settlement show place reside people and places stay stay as well as do activity or activity everyday. Settlement can interpreted as something place or something area Where resident concentrated and alive together use environment local, for maintain, sustain, and develop his life. Literally pattern settlement can interpreted as arrangement place stay something area.

Models from settlement covers inside it arrangement from spread settlements. Based on explanation above, obviously that pattern settlement

can different one each other. In general, resident own three pattern settlement that is pattern settlement elongated (linear), pattern settlement center , pattern settlement scattered .

In the research location Rabi Jonggor Village, Gunung Tuleh Subdistrict, pattern settlement exist in all class slope start from settlement in the area flat to very steep. The most dominant settlement exist in the area rather steep reached 257.63 ha of settlements This is on a slope rather steep of 15% - 24%.

Table 2. Settlement Area Based on Class and Slope Slope

No	Class Slope	Tilt	Settlements Area
1	Very Steep	40% or more	8.49 ha
2	Steep	25% - 40%	27.30 ha
3	Rather Steep	15%-24%	257.63 ha
4	Sloping	9% - 14 %	236.72 ha
5	Flat	0 % - 8%	88.73 ha

Source: Results of data analysis, 2023

In the research location Rabi Jonggor Village, Gunung Tuleh Subdistrict. This pattern settlement many form pattern spread settlement clustered and elongated follow road. This because resident approach means transportation, patterns settlement other resident tend group because close to the

majority plantation sector resident work and depend on the plantation sector in the region slope rather steep. Following map spread settlement based on tilt slopes in Rabi Jonggor Village, Gunung Tuleh Subdistrict.

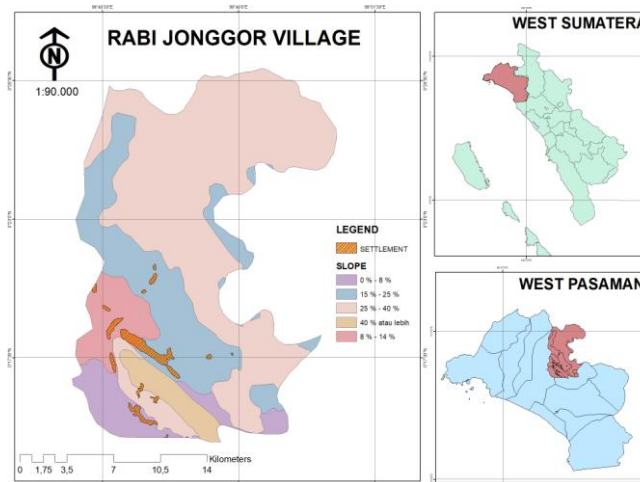


Fig 4. Distribution Map Settlement of Rabi Jonggor Village Based on Slope

4. CONCLUSION

From the description discussion results research that can be concluded that use land in Kenagarian Rabi Jonggor , District Mountain Tuleh This consists from Primary forest, shrubs, plantations oil palm , fields, fed rice fields rain and Settlements resident. In a number of the year change use land also occurs in the area this .

Viewed from spread settlement residents in Rabi Jonggor Village, Gunung Tuleh Subdistrict. This based on most slopes on slopes Rather steep area of 257.63 ha and settlements on slopes covering an area of 236.72 ha, with a total area settlements in the area this is 618.88 ha.

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