

**THE DETERMINATION OF THE NUMBER OF HAND TRACTOR NEEDED  
BASED ON THE GEOGRAPHIC INFORMATION SYSTEM: CASE IN  
PRINGSEWU DISTRICT LAMPUNG PROVINCE**

**By**

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**ABSTRACT**

The purpose of this research is to determine the number of needed hand tractor based on geographical information system by providing a potential field and mechanical development in agriculture in Pringsewu Regency, Lampung in from of map. This research is beneficial for government, society as well as related institute because it about information of industrial development in agriculture field which need hand tractor in a potential area. In finding out how many hand tractor s which area needed in an area, the researcher looked for data needed such as the area wide, the work capacity, the number of available hand tractor, the field potential in each subdistrict, raining day data to know the drought per month in every year during the last 10 years.

The result showed the number of hand tractors needed in Subdisrict of Pringsewu needs addition from 9 subdistricts, there are two subdistrict which do not need hand tractor addition Ambarawa and Pagelaran Subdistrict. The most potential field which needs addition is Gadingrejo Subdistrict because it has high potential field, yet the number of available hand tractor is less than what is needed. Thus it needs addition as much as 52 tractors.

Keywod : hand tractor, geographical information system, Pringsewu Regency