



## SUSTAINABLE AGRICULTURAL RESOURCE DEVELOPMENT IN SATARA DISTRICT: A GEOGRAPHICAL STUDAY

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### ABSTRACT:

*Agricultural resources play a significant role in the exploitation of basic resources and conservation at any stage. Agricultural resource development is considered as a basic factor in the processes of national development. Satara district is well known district in western Maharashtra, but the levels of Agricultural Resource development is medium class in Satara district. Karad Tahsil has first rank in Agricultural resource development, because development of Irrigation, Agro based industries, infrastructural facilities, Fertilizers, are largest proportion as compared to other tahsils. Lowest Agriculture resource development is found in Mahabaleshwar, Khandala and Javali tahsils, because these are high rain fall, and other physiographic conditions.*

**KEY WORDS:** Agricultural Resources, Pattern, Development, Distribution.

### INTRODUCTION:

India is agriculturally developed country among the world. Nearly 70-80 % population of the country is depending upon the agriculture. India is having very intensified diversification in the climate, soil and socio-economic aspects. The same is observing in Satara district. Satara district is having unique agriculture feature among the other district of the western Maharashtra. The district is agriculturally developed in the western Maharashtra. The varieties of crops are taken in the district. The food grains constitute a major part of agricultural produce. The main food grains grown in the district are rice, jowar, wheat, bajara, minor millets and vegetables as well as fruits too.

The majority of the peoples depend on this activity. Still disparities have observed in the agriculture in different pockets of the district because of the variable productivity of agriculture. To bring out the development in the agriculture is taken with different parameters. To achieve these following objectives has been taken into consideration.

Agricultural resources are uneven from one region to another due to the variation in nature and agricultural characteristics in space and time indicates, in balance in the overall development of an area in the present investigation an attempt has been made to analyse the variation in the development of agricultural resources in Satara district at tahsil level.

### STUDAY AREA:

Satara district is situated in western part of Maharashtra state. There are the district lies between 17.5 degree and 18.11 degree North latitude and between 73.33 degree and 74.54 degree East longitudes. The district is completely landlocked being surrounded by Ratnagiri district on the West, Sangli district on the south, Solapur on the East, Pune on the north and Raigad on the North West. It covers 10,480 sq kms. Most of the central Satara district's area falls in the river Krishna basin and limited area falls in the river Bhima basin.

Satara A east west extent of 135 km and a north south extent of 112 km. The district is divided into seven Sub Division and eleven administrative sub units (tahsils) - Satara, Wai, Khandala, Koregaon, Phaltan, Khatav, Man, Karad, Patan, Jawali and Mahabaleshwar.

### OBJECTIVES:

In view of the above, the specific objectives of the present study to.

1. To identify spatial disparities in various attributes of Agriculture.
2. To analyse and find out the levels of agricultural resource development in the study region at the tahsil level.
3. To making the planning strategies for improving the levels of agricultural resource development in the study region.

### DATA BASE AND METHODOLOGY:

The present study is based on the secondary data ,which is obtained from census of India-2011,socioeconomic abstract of satara district -2014, In this research paper Ten variables have been selected for measuring the levels of agricultural resource development for each of the tahsil ,with the help of kendais ranking co-efficient method .Here the index.values are inversely related to the levels of development . It means that the tahsil which having least index value is more developed. Collected data is processed and represented with choropleths method for representation of co-efficient index.

Co-efficient index= $-\frac{\sum R}{N}$ —N, Where, $\sum R$ =sum of the all ranks, N=No of variabies.

### location Map : Satara District

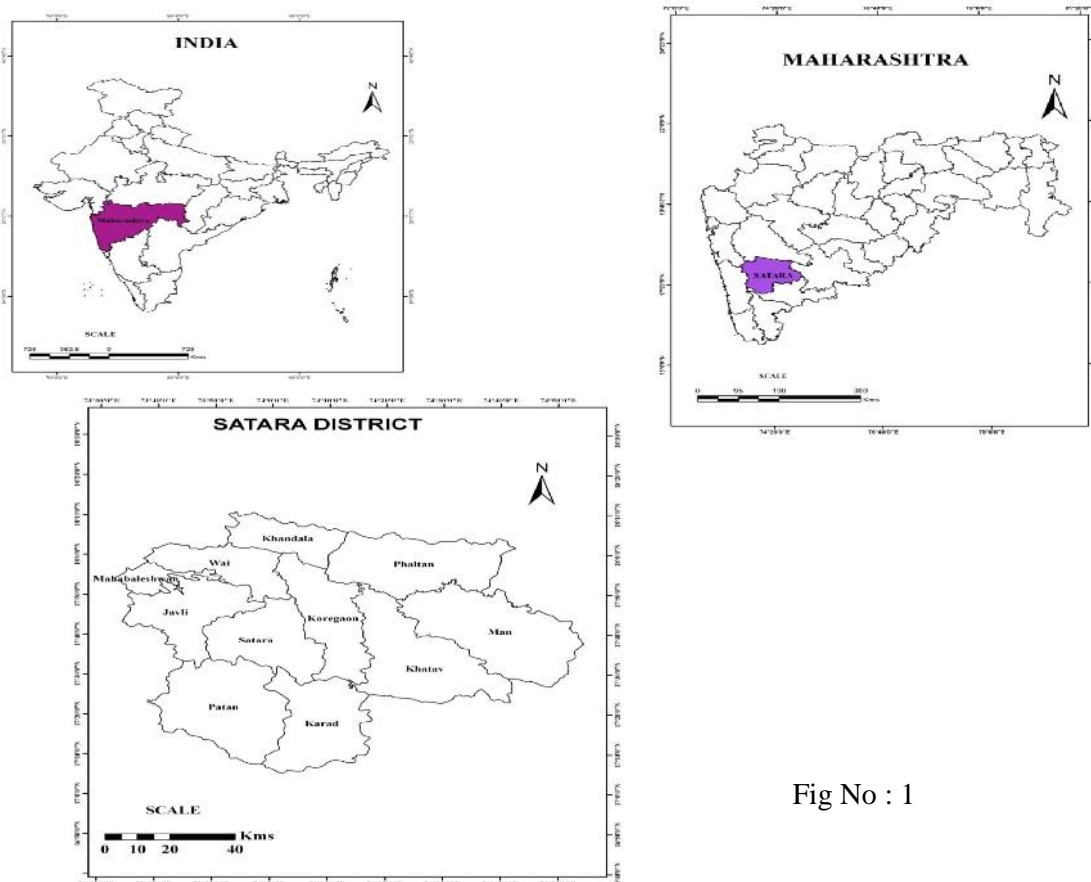


Fig No : 1

**Table 1 Agricultural Recourse Development in Satara District (2015)**

Sr. No.	Tahsil Name	r1	r2	r3	r4	r5	r6	r7	r8	r9	r10	R	Co-efficient index
		Total Cropped area	Fertilizer	Irrigation	Agro co-operative instution	Marketing institution	Banking Facilities	Agro besed indistries	Ware House	Wells	Dairyes Facilites		
1	Satara	3	3	4	1	2	1	3	3	6	1	27	2.7
2	Wai	8	8	9	8	4	4	3	4	5	8	60	6.0
3	Khandala	10	9	10	9	4	5	-	4	10	10	79	7.9
4	Phaltan	6	2	3	3	3	3	2	3	3	9	37	3.7
5	Man	7	7	8	7	5	6	-	1	5	4	50	5.0
6	Khatav	4	4	7	5	5	7	3	1	8	5	49	4.9
7	Korageon	5	5	5	6	4	6	3	3	7	6	50	5.0
8	Javali	9	10	6	10	5	9	3	2	2	7	63	6.3
9	Patan	2	6	2	4	4	8	3	3	1	3	36	3.6
10	Karad	1	1	1	2	1	2	1	1	4	2	16	1.6
11	M.shwar.	11	11	11	11	6	8	-	4	11	11	84	8.4

Source:-Socio-Economic Abstract Of Satara District 2014.

**Table 2 Levels of Agriculture Resource Development in Satara District (2015)**

Levels of development	Scale Value	No.of Tahsil	Name of the Tahsil
High	Below 4	04	Karad,Satara,Patan, Phaltan
Medium	4 to 6	04	Wai, ,Koregoan,Man, Khata
Low	Above 6	03	Khandala,Mahableshwar Jawali

Source:-Socio-Economic Abstract Of Satara District 2014.

The table 1 Shows that, agriculture Resource development in Satara District with total cropped area, fertilizers, irrigation area, agro co-operative institute, agro-based industries, etc. some other variables like marketing institutions, banking facilities, dairies , warehouse and wells these all variable adopted to find out ranking co-efficient index method. Table No. 1 reveals the co-efficient index of Satara district has agricultural resource development is found in the medium size. We make three categories of co-efficient index value i.e. development of high levels (index below 4), development of moderate levels (index value 4 to 6), and development of low levels (index value above 6) respectively. High co-efficient index value is found in two tahsil of Satara district namely Khandala, Mahableshwar and Jawwali which shows low levels of Agricultural resource development. The low co-efficient index value is

found in Karad, Satara, Patan and Phaltan tahsil of Satara district, which shows high levels of agricultural resource development.

#### Levels of Agricultural Resources Development

##### 1. High Developed Region:

In the study area, there are four tahsils included in this category. Highly developed region covers an area of 451557sq km.( 42.67%) with the 13928340 (4.63%) population of the region. These tahsil are laying in the north, central and southern part of the study region. It comprises Karad, Satara, Patan and Phaltan tahsils. In this region total cropped area, fertilizers, irrigation, agro copertativie, agro-based industries, marketing, banking, dairy and warehouse is very better than other region. Industrial sector, agricultural sector, marketing as well as transport abd communication facilities are the highest proportion, due to this the levels of agricultural resource development is found high in these tahsils. Karad tahsil is most developed tahsils in whole of the region. In this region development of sugar industries are very high concentration of co-operative societies. Karad tahsils get first rank due to the highly developed agricultural sector, high percentage of fertile soils, sufficient rainfall and perennial irrigation facilities leads high agricultural efficiency and development of agro based Industries.

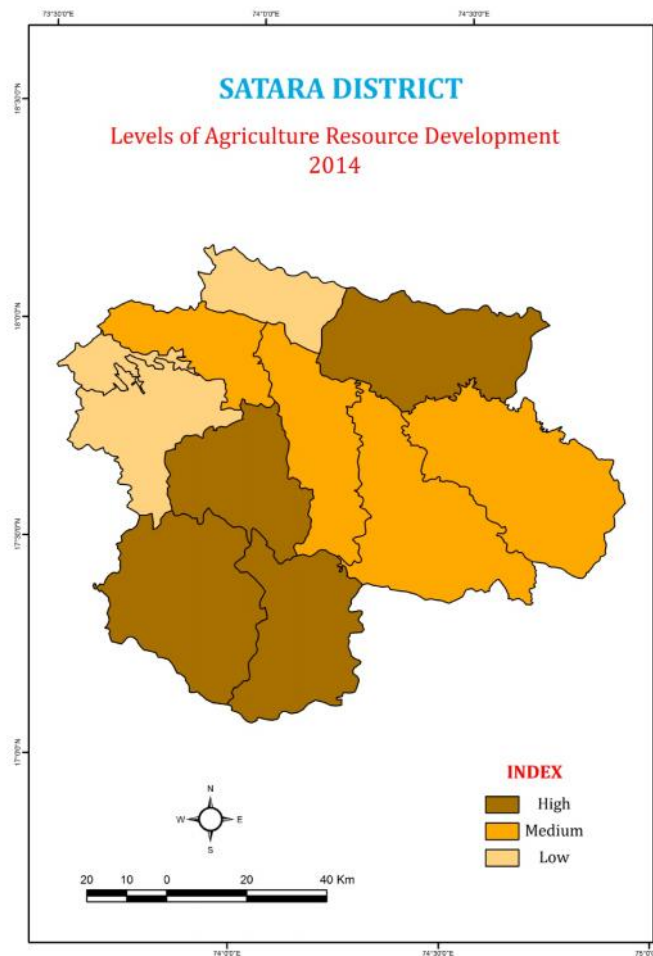
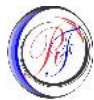


Fig No : 2



## 2. Moderately Developed Region:

In this region there are four tahsils viz. Wai, Koregaon, Khatav Man. These tahsils having less development of agriculture resources, because physiographic and climate conditions are responsible for it. This region also cover an area of 443993 sq km. (41.95%) and the population of this region is 958677 (31.91%) included. Wai tahsils have more than 50 per cent of hilly area, Undulating topography and high rainfall in this tahsils. Koregaon, Man, Khatav tahsils have inadequate rainfall which adversely affected on agriculture irrigation, mining industries, transportation and infrastructural facilities are less developed therefore the levels of agricultural resource development is low as compared to developed region. In this region natural resources, irrigation, marketing and agro-based co-operative institutions facilities are well but proper utilization of natural resources are not sufficient.

## 3. Low Developed Region:

It is called as problematic region. In this region there are three tahsils included namely Khandala Mahabaleshwar and Jawali. These regions are mostly hilly and highest rainfall is found there. Above tahsils have lack of infractural, total cropped area, fertilizers, irrigation, agro co-operative institute, agro-based industries, marketing, daries, wells and warehouse, facilities is also compared other tahsils of the Distric is Low developed in the region. This tahsils occupies an area about 162694 sq km. (15.37%) and 316754(10.54%) population is concentrated. The Khandal tahsil have more indlstrilization, Mahabaleshwar and Jawali tahsils are have less irrigation and total cropped area and agricultural realated facilities due to that reason most of people migratedto verious places for verious better job. Wells, werehouse, agro-based industries and agro co-opertatives institutions is less in this region due to hilly area and therefore this area having low agricultural resources development.

## CONCLUSION:

Satara district is well known district in western Maharashtra, but of agricultural Resource development is medium. In Satara District Karad tahsil has first rank in agricultural resource development, because of total cropped area, irrigation and agrobased industries infrastructural facilities, are largest proportion as compared to other thasils. Northern, Central and southern part of the study area is well developed, but the east, west and northern part of the study area is less developed. Lowest agricultural resource development is found in Mahabaleshwar, Jawali and Khandala tahsil, because of uneven topogapy, high rainfall and thick forest excess rainfall and other physiographic condition.

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