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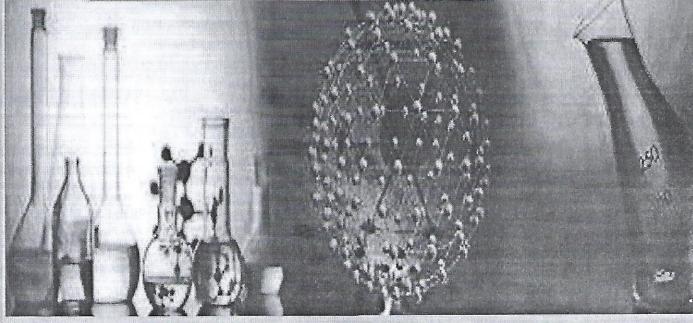
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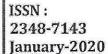


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District Wise Distribution of Minor Irrigation Schemes in Marathwada Region

Dr. M. T. Musande

Head, Department of Geography, Jawahar Arts, Science and Commerce College, Anadur, Tq. Tuljapur, Dist. Osmanabad (MS) musandemt@gmail.com Prof. R. U. Chochande
Department of Geography,
B. S. S. Arts, Science, Commerce College
Makani, Tq. Lohara, Dist. Osmanabad
ranjanachochande@gmail.com

Abstract:

Water is an important component of the life support system. Unfortunately water has been overused and even abused oven the centuries. But in the study area water resources are imbalanced with the reference to ground and surface water based on irrigation development and water supply. The overall stage of ground water development in the state is above 30%, despite being predomination hard rock with difficult hydrological and meteorological condition. Considering the population growth and inevitable fresh water, the seriousness of the issue man faces becomes obvious in the study area Osmanabad, Jalna, Beed, districts finds lack of rainfall and mismanagement of water resource. In this connection I would like to geographical study of minor irrigation schemes in Marathwada region.

Keywords: Water sources, Ground water, minor irrigation schemes.

Introduction:

Irrigation is essentially the artificial application of water to overcome deficiencies in rainfall for growing crops (Sivarama Krishnarao and M. I. Ali, 1986). This could be done by artificial application of water to land for growing crops and is known by the term irrigation||. Irrigation is one form or another has been in vogue from time immoral. For instance, in Egypt, it goes back to 400 B.C. or beyond and other parts of the world it is equally old and is described, often in great detail, in ancient literature such as the Rigveda or the recorders of ancient travelers and traders. It is developed in response to conditions of climate, and the same holds good today in many parts of the world (Cantor L. M., 1967). Irrigation is regarded as an integrated part of a sound infra-structure and is one of the basic in gradient of agricultural activities. To be successful and well developed agriculture requires supply of water at regular interval and in required quantities.

Study Area:

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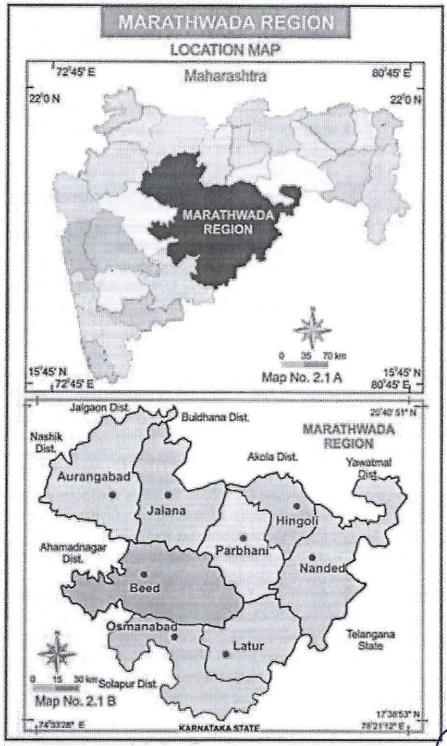
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The Maharashtra State is administratively divided into six divisions, viz. Konkan, Nasik, Pune, Amravati, Nagpur and Aurangabad. The Aurangabad division is also known as Marathwada was formerly a part of Hyderabad state. Marathwada forms the South central portion of



Maharashtra

with Aurangabad city being located almost at the centre of the state (Map 1). Marathw of the most backward regions of Maharashtra state.

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The Marathwada region lies in the upper Godavari basin. The absolute location of region is 17°38′53″ North latitude to 20°40′51″ North latitude and 74°33′28″ East longitude to 78°21′12″ East longitude. The study region is bounded to the north by Jalgaon, Buldhana, and Washim districts, to the north east by Yavatmal district to the east by Nizamabad and Adilabad districts of Andhra Pradesh to the south and south east by Bidar and Gulbarga districts of Karnataka state, to the west by Ahmednagar to the Southwest by Solapur and to the North West by Nasik district. Its shape is roughly triangular, East-West maximum extension of region is 394 Kilometers and North-south extension in of region is 330 Kilometers. Total Geographical area of region is 64434 Square Kilometer which is 20.95 per cent of the state and its population is 1.87 cores which is 16.66 percent of the state as per census of 2011. Administratively study region is divided into eight districts that are further divided into 76 tahasils.

Objective:-

The main objectives of this paper is analyses to Minor irrigation scheme in Marathwada region.

Data collection and Methodology:

The present study is based on secondary data source. Data collected from Socio Economic Review and District Statistical Abstract of Districts in Marathwada region. For the statistical analysis various techniques and methods will be applied. For this study statistical data are taken to 2010-11.

Discussion:

Irrigation is a pre-requisite for the adoption of new technology in agriculture and for the rapid growth of agricultural sector. The conversion of dry land into wet land, provides, security against the vagaries of rainfall, preventing crop failure and enabling higher yield per hectare. It also helps to the farmers to take two or more crops from the same field within a year and it increases the productivity of the land, by transforming the agriculture (Gajhans D. S. and Suryawanshi M. T., 2012).

Irrigation leads to changes in cropping pattern, increases yield rates and labour utilization and in the ultimate analysis bring prosperity for socio-economic change that sets motion the productive forces in the agricultural sector (Chatterjee Nandini, 1995). Irrigation appears to be the most basic inputs as HYV seeds consume more water in adequate and timely does a thing not possible in rain fed agriculture (Rudder Dutta and Sundaram K.P.M., 1997).

The irrigation project, which covers less than 2000 hectares cultivated command area is called minor irrigation project (Rudder Dutta and Sundaram K. P. M., 1997). During the rainy season when water collects and forms a pond, it is usually called a tank. This water is used for irrigation for standing crops after the wet season. Tank irrigation, therefore, needs much rainfall for later storage and utilization. Level of water in tanks is solely dependent on the quantum of rainfall of that season. After the independence government of Maharashtra has given more stress on minor irrigation in the every district.

The table No. 1 shows that the high concentration of minor irrigated projects is found in Aurangabad, Beed, Osmanabad and Nanded district i.e. above 15 percent. It is moderate in Latur district i.e. 14.30 percent, where as it is low in Julia, Parbham and Hingoli district i.e. below 8 percent as on March 2011.

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The table No. I indicates that region as a whole has 1.81 lakh hectares irrigation potential. The district level distribution of irrigation potential area through minor irrigation project is uneven. The high irrigation potential is found in Latur district i.e. above 48679 hectares. Whereas it was low in Jalna, Beed, Parbhani, Hingoli, Nanded, Aurangabad and Osmanabad districts i.e. below 26667 hectares on March 2011.

Table No. 1: Statement showing District- wise Minor Irrigation Schemes and their Irrigation Potential, (As on March 2011.)

District / Region	No of Minor Schemes	Irrigation Potential in Hectares		
Aurangabad	1100 (20.22)	26637 (14.69)		
Jalna	78 (1.36)	19525 (10.76)		
Beed	1142 (20.99)	11360(6.26)		
Parbhani	309 (05.68)	4655(02.57)		
Hingoli	246 (04.52)	17270 (09.52)		
Nanded	851(15.65)	18823(10.38)		
Latur	778 (14.30)	70691(38.97)		
Osmanabad	935(17.19)	12417 (6.85)		
Marathwada Region	5439 (100.0)	181378 (100.0)		
Maraurwada Negion	3437 (100.0)	101970 (100		

Source: Socio-Economic abstract of Aurangabad, Beed, Parbhani, Higoli, Nanded, Jalna, Latur and Osmanabad–2011(Note: Figures in the brackets indicates percentage.)

Irrigation Wells

As the cost of construction of well is low, they are suite to poor and marginal farmers (Singh and Dhillon, 1995). In the study area wells are important for irrigation due to the paucity of other irrigation facilities and poor economic condition of farmer. Well irrigation was important during the period of second five year plan. Maharashtra state government was given priority for the construction of new wells as well as repairs of old wells. Irrigation wells are increased through five year plans in the Marathwada region. The density of irrigation well is calculated by using following formula.

Density of well = Total irrigation well ÷ Total net sown area X 100(Per 100 hectare)

The table 3.5 shows that during 1981- 85 the region as a whole has 4.01 densities of irrigation wells per 100 hectares, but spatial distribution varies from district to district. The low density of wells is recorded in Nanded and Hingoli districts i.e. below 3 per 100 hectare. It is moderate in Osmanabad, Parbhani and Latur districts, where as it is high in Aurangabad Jalna and Beed districts i.e. above 4.5 per 100 hectare.

Table No. 2: District- wise Density of irrigation wells in Marathwada Region

	1981-85		200	05-10	1981- 85	2005- 10	Volume of	
District	Well	Net Sown Area	Well	Net Sown Area	Density per 100 hectors			m
Aurangabad	45260	753140	69181	691260	6.01	10.01	4.00	

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31669	626200	36870	572380	5.06	6.44	1.38
37296	758100	53213	754660	4.92	7.05	2.13
17820	537140	59622	519900	3.32	11.47	8.15
23819	570920	33378	478020	4.17	6.98	2.81
13742	728900	26731	703960	1.89	3.80	1.91
22550	512220	25312	485120	4.40	5.22	0.82
5638	339960	9887	329520	1.66	3,00	1.34
197794	4826580	314194	4534820	4.10	6.93	2.83
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Source: Compiled by the Researcher, on basis Socio-Economic abstract of Aurangabad, Beed, Parbhani, Hingoli, Nanded, Jalna, Latur and Osmanabad – 1981-82 to 2009-10.

During 2005-10, the region as a whole has 6.93 density of irrigation wells per 100 hectares, but spatial distribution varies from district to district. The low density of wells is found in the district of Nanded and Hingoli i.e. below 5 per 100 hectare. It is moderate in Osmanabad, Beed, Parbhani and Jalna districts. While it was high in Aurangabad and Latur districts i.e. 8 per 100 hectares.

During the period of investigation well density is increased by 2.81 per 100 hectares. But spatial distribution varies ranging from 0.82 to 8.15. The high positive change is recorded in Latur district i.e.8.15 wells per 100 hectares. The moderate positive change is found only in Aurangabad district, while low positive change is found in Jalna, Beed, Parbhani, Hingoli, Nanded and Osmanabad districts i.e. below 3.5 well per 100 hectares.

Percentage of Well Irrigated Area to Net Sown Area

Table no 3.6 indicates that region as a whole has 6.25 percentage well irrigated area to total net sown area in 1981-85, but spatial distribution varies from district to district, high well irrigated area is recorded in the district of Osmanabad and Beed i.e. above 9.5 percent to total net sown area. The moderate well irrigated area is observed in Aurangabad and Jalna district ranging from 6 to 9.5 percent, while low well irrigated area is found in Parbhani, Hingoli, Nanded and Latur district i.e. below 6 percent to total net sown area. The table no. 3.6 indicates that Marathwada region as a whole has 9.21 percent well irrigated area to net sown area in 2005-2010, but spatial distribution varies from district to district, the high well irrigated area is recorded only in Aurangabad district i.e.17.26 percent to total net sown area, because of recharge of groundwater due to canal. The moderate well irrigated area is observed in Beed district i.e. 10.58 percent, while it is low in Parbhani, Hingoli, Nanded, Osmanabad, Latur and Jalna district i.e. below 9.5 percent to total net sown area. It is low in Jalna, Hingoli and Nanded districts, due to Ajantha, Satmala hill range lies in Jalna, Hingoli and Nanded district which adversely effect on irrigated area, it is low in Parbhani and Osmanabad district due to development of surface irrigated facility.

Conclusion:-

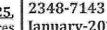
Most of the minor irrigation schemes become dry in summer season due to rate and distribution of the monsoon rainfall which effects on the water storage capacity of the project. The high density of irrigation wells in Aurangabad and Latur districts. During the period of under review region as a whole has 2.96 percent positive change in percentage of well irrigated area to total net sown area. Well-irrigated area is increased in all districts except Osmanabad and Beed. The high well irrigated area and remarkable increase is found in Aurangabad district

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mainly due to recharge from surface irrigation. The low well irrigated area in Jalna, Hingoli and Nanded districts, is a result of Ajantha, Satmala hill range, which adversely affect on well irrigated area. The negative change in well irrigated area in Osmanabad and Beed district is mainly due to scarcity of rainfall and lowing of ground water.

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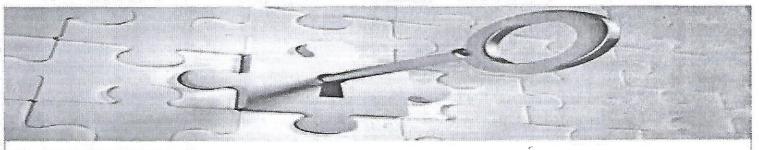
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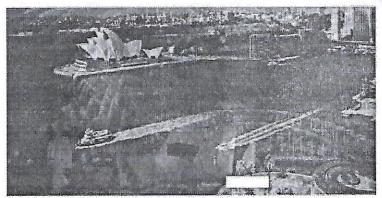
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