



ISSN: 2394 5303 Factor Geinting Atea® December 2019, 6.039(IIJIF) Peer-Reviewed International Journal Issue-60, Vol-03 010 01) Contributin Of Maharaja Lakshmishwar Singh Of Darbhanga To .. Dr. Gopal Kumar (Rosera), Chapra 114 02) Change In Land Revenue System In British Rule Smt. S.N.Hosakeri, Bagalkot 117 03) Role of National Cadet Corps in Nation Building Mr. Vivekanand Bharat Ingale, Jalgaon 1 25 04) The Study of Income and Investments of Teachers in Dhule Districts ... Prof. Hemant Anil Joshi, Dr. P. P. Chhajed, Dhule 05) Dick Diver's search for identity in Fitzgerald's Tender is The Night Kalyankar A. S., Beed | | 31 06) Prevalence Of Helminthosporium Spores Over Sunflower Fields G. M. Pathare, Beed 134 07) Socio Emotional Development Mrinal Sanwal, Dehradun 137 08) Core Study And Support Of Human Resource Training In Panchayati Raj ... Madhav Verma 09) Applications Of Mobile Apps In Acadamic Libraries Mr. Nitin Prakash Waghmare, Mr. Sachin Shivaji Tuwar 10) Blood Consciousness In D. H. Lawrence's Sons And Lovers Mangesh Bhaurao Shamkure, Nagpur 153 11) A Study Of Cashless Transactions In Retail Shopping Special Reference ... Dr. R. B. Rampure, Dr. Rajesh Goje 12) Structural and Infra-red Analysis Of Ni_{0.7+x}Zn_{0.3} Zr_xFe_{2-2x}O₄ System. Rohini M. Mahindrakar, Dilip S. Birajdar (M.S.) ||61 13) Geographical Aspects Of Maalgaon Watershed Dr. Ghuge Shivlal Pandharinath, Beed | 65 14) चित्रपटसृष्टीतील शब्द सुरांचा सांगाती: सैगल गजानन ना. केतकर, डॉ. मीनल ठाकरे (भोंडे), अमरावती Printing Area: Interdisciplinary Multilingual Refereed Journal



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Geographical Aspects Of Maalgaon Watershed

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Introduction:

Geographers prefered water as their study to make up the geographic scene. They considered hydrologic cyde precipation as the frist phase. The georaphers recived sporadic attention to the land phases of the cycle.

The american study of hydrology taken under economic heads. The Geologist, meteorologists and engineers have been behaviour of water, treid to keep it during floods the work and study of hydrology taken plac in the last of the e19 th centtrory. The american taxbook on hydrology published two years later. The early neglected study of water by geographers resumed in the beginning of hte contrary. Running water was the touch stone to an understanding of land forms.

II: Location:

Beed district located in the central part of the marathwada region. Beed district lines between 18' 20' to 19' 27 north latitudes and 74' 57' to 76' 57 east longitude. This district has Majalgaon tahsil is the gar study area locatd to the north-east direction of Beed district. To the direction of east there is Parali tahsil and prabhani district to the direction of west theire is some part of georal tahsil and wadwani towards southern direction. Majalgaon is located in the centre of these Tahsil Godawari river is very important for Majalgaon taluka regarding crops and cultivation sindhphana river is so importanant because dam is on the river, sindhphana unite godawari at Manjrath

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Factor
6.039(IIJIF) Peer-Reviewed International Journal Issue-60, Vol-03 Godawari river cross Majalgaon taluka and flow in parbhani district. Majalgaon is the second largest taluka in population of Beed district According to 2001 census the population of the tahsil is 901.42.59 km. the density of population is 239 per sq.km. total no. of villages in the tahsil are 124 Rural population is 170968 and uraban population is 44029.

3. Geology:

Majalgaon tahsil located in the north-West part of Beed district. Majalgaon tahsil has landed part of the district. A how spur of the western gtiats. The area is under lain by deccan traps. Creatceous ecoene. The trap rocks belong to the type called plateav besalt, and are unifrom in composition corresponding to that dolerite or besalt with an average specific gravity of 2.9. They are dark grey or dark greenish in colour the traps have been distigvished intoo the resicular and non-resicular things.

The resular types are soft and tew to break with more eaje ashbeds are common. 4. Relief:

Majalgaon watershed management study is most impotant in the tahsil there are two parts in the tahsil

There are two parts in the tahshil

- 1. Godawari valley
- 2. Highest part of hodawari valley

Godawari plain region plain region in the North is is known as hang thdi Godavari and its tribotoy Floewing In this Area Georai, Majlgoan and Parali Tashil are comes in this part. The northern lowland has a general eleration form 550 meteres in the west to a littel under 400 meteres in the east, intersperead with a number of residval hills of summits over 600 metes A discontinious seies of such a low residul hills in the south comprise the watershed between the godawari and the sindhphana rivers.

2. The part is wgh from 250 to 500 meters towards the west of the taluka, in tahshil eastern and northern part is completly of valley and that is plain Godawai and Sindhahana flow in the valley.

5. Aims And Objectives:

The following objects are given to investigate the anyalysis of population and agriculture.

- To examine the Majalgaon watershe and its effect on there population and agriculture.
- To study the geographical factors associated with these aspects.
- To investigate occupational structure and distribution of population
- To study the agriculture development of the area.
- 5. To study the agriculture development of the area before project and after project.

Data Base And Methodolgy:

The data has been collected from priorary and secondary source for the period 2004 - 05 to 2009-10 special questionaries has been used to collect data of selected villages. Secondary data has been collected from socioeconomic review. District census hand book Godawar Pathbanthare office and crop report etc. date regarding consumption fertilizer high yielding veviety seeds from Z.P. Beed for macro level study ten village selected from Majalgaon tahsil of the district.

Majalgaon Project:

The Majalgaon irrigation area is part of the jayakwadi schem (240,000 hec.) one of largest irrigation area in maharashtra. The limited water resources hav rechiced The first stage irrigation area to 58000 hac, althogh it is planned to ultimately irrigate 119000 hec. The first phase of the scheme was finnced by the world bonle and began in the 1970 its main comonents were.

Selected Villages of Majalgaon Watershed:

In Majalgaon watershed 120 villages located but for the plot to plot study only five villages are selected nearly foor precent of sample village were slected for micro level study. The time period chosen fo anylysis of general landuse, Agricultural landuse is period from 2004.05 to 2009-2010.

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6.039(IIJIF) Peer-Reviewed International Journal Issue-60, Vol-03 1. Sadola - This villag is 2.9 km. and it on the river godawari. The geographical area of this village is 11 er sq.km.

Factor

- Jajid Jawala
- 3. Kherda (Bu) 4) Shahapur (m)
- 4. Harki Nimgaon

Irrigation:

Irrigation is the most important istrument of the development of agricultural sector. Irrigation can cenveral dry land or dry agricultural patches into irrigated patches. "Irrigation in an agririan economy assumes the same importance as blood in the human body." Village wise trends in precentag of net

Irrigated area to net shown area 2004-05 to 2009-2010

_		6	003-2	OTO			
Sr.	Name of village	Net sown		Irrigated area		totally	
No.		04-05	09-10	04-05	09-10	04-05	09-10
1.	Sadola	1836	1836	596	897	55.46	48.8
2.	J.Jawala	409.6	433	0.5	180	0.13	4.15
3.	Kherda B.	640	640	187	228	29.22	35.62
4.	Shahapur	210	240	35	48	16.67	20
5.	H.Limgaon	1333.7	133.7	225	422	16.67	31.64

Sourece I computer by another reveals that area under irrigation differs from village to village in 04-05 to 09-10 out of the total net sown area below 20% net shown area was found under Irrigation in Jawala (J) shahapur village, wher as 20% to 40% net sown area was observed under irrigation in Kherda (Bk) H. Nimgaon and above 40% net shown area was observed under irrigation in Sadola. Only one village Sadola has 32.46% Area under irrigation if means their are very high growth irrigation growth under the priod of ivestigation.

Table No. 1.2 Sources of Irrigation in selected village

	Durces of	Wells		Borewells		canal or	
Sr.	Name of village	04-05	09-10	04-05	09-10	04-05	09-10
No.		22	44	5	25	0	1
1.	Sadola	20	31	5	15	0	0
2.	J.Jawala	-	27	9	17	0	0
3.	Kherda B.	13	_	11	25	0	1
4.	Shahapur	13	27	THE RESERVE OF THE PERSON NAMED IN	29	0	1
5	H.Limgaon	25	45	9	23		

Source: Lomputed by auther

1. Wells: Where 20 to 50 wells observed in limgaon (H) Shahapur, Kherda, Jawala and Sadola village.

b. Borewells: In Majalgoan watershed increase number of borewells high borewell joint in (H) Limgaon, Sahapur, Sadola village their aremost of villages used borewells irrigation or vegetable and fruit farming on borewell they were apply drip and spriklar irrigation.

C. Cannal for perculation tanks:

In study area every village have on canal or parculation tank irrigaton except Kherda (Bk.) village during their was no single canal or parovlation tank.

General Landuse of Selected village in Majalgaon Watershed:

Landuse is the surface utilization of al development and vacant on a pecific point of a given time and space this leads on back to the village form and the farmer to fields. Gardens, pastares follow land, forest and to the isolated forsted (freeman) 1968 as geography deals with the spatial relationship between these aspects and planning.

1. Area under forest:

The proporation of forest area was below 1% in Sadola, Shahapur, which above 1% ther isn ot area under forest was expenieced in Jawala, Kherda, Limgaon (H), village during the period 2004-05 later in 2009-2010 are on village have forest area like in Sadola (0.10) means there is very much low area under forest in selected village in Majalgaon watershed area.

Trends Triberieal landuse in selected village in Majalgoan watershed 2004-05 to 2009-10 (area in hectores)

Sr. No	Landuse Catagory	Year	Sadola	J. Jawla	Kherda (Bu)	Shahapur (M)	H. Nimgaon
1	Area	2004-05	03	0	0	0	0
	Under	%	01	0	0	0.49	0
	Forest	2009.10	02	0	0	0	0
		%	0.1	0	0	0	0
		vol.c.ln%	0	0	0	0.49	0
2	Area	2004-05	50	5	11	15	0
	not	%	2.44	0.93	1.69	3.65	0
	Available	2009.10	49	4	11.69	12	0
	for	%	2.39	0.74	0	2.92	0
	cultivation	vol.c.in%	0.05	0.19	0	0.73	0
3	Other	2004-05	100	3.81	0	39	0
	cultivated	%	4.8	0.7	0	9.49	0
	land	2009.10	107	0.41	0	19	0
		%	5.22	0.08	0	194.42	0
		vol.c.in%	0.42	0.62	0	-4.82	0

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Sr. No	Landuse Catagory	Year	Sadola	1.	Total Control	eer-Rev	lewed I
1	Follow	2004-05 % 2009.10 %	60 2.93 55 26	Jawla 122 22.58 103 1906	(Bu) 1 0.15 1 0.15	Shahapur (M) 145 35.25 140	H. Nimgaon 73.14 52 73
2	Net swon Area	vol.c.in% 2004-05 % 2009.10 % vol.c.in%	-0.25 1836 89.6 1836 89.6	-3.52 409.6 75.79 433 50.12 4.33	0 5.4 98.16 640 98.6	54.06 -1.22 210 51.09 240 58.39	52 0 1333.7 94.8 1333.7 94.8
3	Total Geogra phical area	2004-05 % 2009.10 %	2049 100 2049 100	540.41 100 540.41 100	652 10 652 100	73.3 411 100 411	1406.84 100 1406.54

Source: Computere by authoer:

2. Area hot available for cultivation:

This grow includes A) The lan put non aggricultural uses and B borren and on cultivable land. These area which are not available for crop cultivation show a close association with other unclutivated land and net shown area in the selected village in 2009.10 out of total geograhical area below 2% area was observed under this category in Jawala, Kherda, above 2% geographical area was recordeal under Shahapur and Sadola village and H. Limgaon has not found this category area during 2009-10 out of total geographical area below 2% area was observed under this category in Jawala, Kherda, above 2% geographical area was recordeal under Shahapur and Sadola village and H. Limgaon has not fournd this category area during 2009-10.

Only one village Kherda have recorded 0% negativ chang about 0.05 to 0.71% in area not available for cultivatin was recorded Sadola (0.05) Jawal (0.19%) Shahpur (0.73) during the period the under investigation.

3. Other Unclutivation land:

Below 2% geographical area was observed under other cultivable land in Jawala whicle 2% to 5% aea was found shahpur village and above 5% unclutivated land noticed in Sadola (5.22%) during 2009-2010.

About 07 to 4.87 negative change observed in Jawala, Sahahpur village, while 0-42 to 38.81 positive change experinced in Sadola.

4. Following land:

All villages have sufficient area of follow land below 5% total geographical area of follow land noticed in Sadola, Kherda where as 5% to 10% fallow land area was found in Sadola (19.06%) Shahapur (34.66%) during period 2009 -2010.

5. Net Sown Area:

All the selected village having more ne sown area in 2009-2010, the highest net sown area was recorded in Kherda B. (98.60%) and the lowest net sown area was found (J) Jawala (50.12%)

Ont of total geographical area below 80% geographical area was observed under this category in Sadola, Jawala village and baove 90% geographical area under net sown was exprincced in Kherda (98.60%) H.Limgaon (94.80%) during period 2009 - 10.

About 0.93% to 7.3% positive change was found in Jawala Shahapur village have constand 50% Agricultural land use of selected village in Majalgaon Watershed:

The area under differnt crop like Jawar, Wheat, Bajara, Othercreats, gram, Tur, other pulses, groundnut other oil seeds, cotton, sugarcane, and other fooder crops, were considered at the time of village survey. The area under rice was very limited hence its area is included in other cereals, simple percentage was obtained by dividing total area under crops into area under different crops.

Jawar and cotton is important cast crop in the selected village moderate rainfall black cotton, Jawar soils supports to the growth of cotton and jawar cultivation in the Majalgoan watershed cotton, and jawar war rainking first in cropping patern in selected villages. The percentage shure.

Below 40% was found in Jawala, Sahapur village while 40% 50% area under cotton, and Jawar was niticed in Kherda (H) Limgaon village. Conclusion:

Due to Godawari rivers there is change in agricultureal structure in the district.

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ISSN: 2394 5303 Company Peer-Reviewed International Journal Issue-60, Vol-03 1099 2. Agricultural Activities are highly concentrated along the river bank. 3. Out of 120 villages (five villages were selected for micro level survey below 80% Area was found net sown area in selected village. Problems: 1. The system organized by the irrigation authorities or the farmers is universally poor. 2. Most of the farmers are unable to use pesticides because they are poor and yield of cotton is lossed. 3. Behavioural and attitudianl changes are found. 4. To search Majalgaon watershed where formal organization of irrigators exists. Sygerestions: 1. Kolhapuri type bondhare and field tank should be built to over come the problems of erratic rainfall. 2. Computer farming should be under takn to stypt os soild erosion 3. Lift irrigation plant should be constructed in the region. Reference: 1. Ali mohammed (1975) agricultural landuse nad nutrition in kheri sitapur and barabanki district (U.P.) P.H.D. thesis, aligrah muslim university aligah. 2. Maharastra state gazzeteers of Beed district 2001 P-460 3. Maharastra State Gazzeteers of beed district 2001 P-143-146 4. Mukharji R.K.(1939): Economic problem of modern india, me millan and co Ltd london p-64 5. Veva Astey (1931) the economic development of India longman gren and lo london new Year P-20 6. Freeman T.M. (1968) Geography and planning, hutchinson, university library london P-70.				
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