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ORIGINAL ARTICLE



AGRICULTURAL LAND USE EFFICIENCY IN AHMEDNAGAR DISTRICT, MAHARASHTRA

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Abstract:

Land use efficiency is defined as the extent to which the net area sown has been cropped or resown. The total cropped area or gross area sown as percentage of net area sown gives a measure of land use efficiency which really means the intensity of cropping. The higher the index of the efficiency of cropping the higher the land use efficiency vice versa. Agricultural productivity is largely depending upon the land use efficiency. In this paper an attempt has been made to measure the level of Agricultural Land Use Efficiency by selecting Ahmednagar district of Maharashtra

In the present study tehsil is taken as a basic unit of study investigation. The period selected for the present study is ten years i.e.from 1997-98 to 2007-08. The study is entirely based on secondary data which is collected form Socio–Economic Review and District Statistical Abstract of Ahmednagar, Census Handbook of Maharashtra and Ahmednagar District, District Gazetteer of Ahmednagar. Jasbir Singh's method of land use efficiency is employed to measure the land use efficiency. Present study reveals significant spatial variation and imbalances in land use efficiency.

KEYWORDS:

Land use efficiency, spatial variation.

1.0 INTRODUCTION

Agricultural geography is one of the most highly developed branches of economic geography. Now a day's many geographers and economists give attention to study of land use efficiency in India and abroad. Agricultural productivity is largely depending upon the land use efficiency, so it plays an important role in the study of agricultural geography. Land use efficiency is defined as the extent to which the net area sown has been cropped or resown. The total cropped area or gross area sown as percentage to net area sown gives a measure of land use efficiency, which really means the intensity of cropping (Singh, 1972).

Agricultural productivity is largely depending upon the land use efficiency. It is generally believed that the land use efficiency reflects itself in the yield and the yield figure has been used as the quantitative basis for the measurement of agricultural efficiency. Land use efficiency is largely depends upon fertility of soil, technological development, availability of irrigational facilities and socio-economic condition of farmers in the study region.

2.0 THE STUDY REGION

Ahmednagar district is selected for present study purpose. Ahmednagar district is situated partly in the upper Godavari basin and partly in the Bhima basin occupying a somewhat central position in the

Title :AGRICULTURAL LAND USE EFFICIENCY IN AHMEDNAGAR DISTRICT, MAHARASHTRA Source:Golden Research Thoughts [2231-5063] S.N. PAWAR AND D.G. GATADE yr:2013 vol:2 iss:10





Maharashtra state. It lies between 180 2'and 190 9'north latitude and 730 9' and 750 5' east longitude. The study region covers an area about 17,412sq.km. It occupies 5.54% area of Maharashtra state. The total population of Ahmednagar district is 40, 88,077out of which 21, 06,581(51.52%) are men and 19, 81,576(48.48%) are women. As per 2001 Census, 80.35 per cent is the rural population and 19.65 per cent is urban population. The district has 14 tahsils with 1581 villages.

3.0 OBJECTIVES

In the present research paper an attempt has been made to find out and to analyse the spatio - temporal changes in land use efficiency in the study region.

4.0 RESEARCH METHODOLOGY

In the present study tahsil has taken as a basic unit of investigation. The period selected for the present study is ten years i.e.from 1997-98 to 2007-08. The present study is entirely based on secondary data which is collected form Socio–Economic Review and District Statistical Abstract of Ahmednagar, Census Handbook of Maharashtra & Ahmednagar District, and District Gazetteer of Ahmednagar. Jasbir Singh's method of land use efficiency is employed to measure the land use efficiency. Land use efficiency is calculated by using following formula.

Where,

GCA=Gross Cropped Area NSA=Net Sown Area







	4	Ranata	0	0	0.00	5/558	50665	113.61	113.01
	5	Shrirampur	87050	69399	125.43	45886	36994	124.04	-1.40
	6	Nevasa	133093	100129	132.92	127661	108066	118.13	-14.79
	7	Shevgaon	86261	78756	109.53	88623	79542	111.42	1.89
	8	Pathardi	124189	105968	117.19	97319	87487	111.24	-5.96
	9	Nagar	108545	102861	105.53	120233	114915	104.63	-0.90
-	10	Rahuri	91218	63890	142.77	68761	62650	109.75	-33.02
	11	Parner	169259	129314	130.89	158758	126484	125.52	-5.37
	12	Shrigonda	118164	114362	103.32	113870	110780	102.79	-0.54
	13	Karjat	115915	109876	105.50	102452	93581	109.48	3.98
	14	Jamkhed	74292	68428	108.57	75534	69411	108.82	0.25
		Dist. total	1381389	1154689	119.63	1326156	1185846	111.83	-7.80

Source: *Socio-Economic Review and District Statistical Abstract of Ahmednagar.

**Computed by Researchers.

Table-2					
Land use	efficiency in Ahmednag	ar District			

Year	Low (Below 110 %)	Medium (110-120 %)	High (120 % & Above)
1997-98	Shevgaon, Nagar, Shrigonda, Karjat, Jamkhed	Akola, Pathardi San gamner, Kop Shrirampur, Nevasa, Rahuri, Parner	
2007-08	Akola, Sangamner, Nagar, Rahuri, Shrigonda, Karjat, Jamkhed	Rahata, Nevasa, Shevgaon, Pathardi	K opargaon, Shrirampur, Parner

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