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A GEOGRAPHICAL STUDY OF CROP DIVERSIFICATION IN AURANGABAD DISTRICT

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ABSTRACT :

About crop diversity of in 1991-2011 in Aurangabad district for that purpose he used Jasbirsingh and Bhatia's formula crop diversity index. For this research used primary and secondary data, primary data included with directly observation and formers interview. In secondary data in uses research paper and Soci-Eco Survey Handbook, thesis,

reference book. Through all the studies researcher found that there are changed in crop diversity and a result of that former turn to get cash crop in Aurangabad district.

KEYWORDS : Geographical Study , Crop Diversification , formers interview.

INTRODUCTION

A large part of Aurangabad district in the region of rain fed area. Therefore, the rainfall is very low. It's influence on crops in dryland agriculture. Dryland agriculture depends on rainfall in agriculture. In this regarding to take review of crop diversity in this research paper. In 1991 to 2011, during this period studied the crop diversity in this research.

HYPOTHESIS

According to changing circumstance in the district, the crop diversification should be changing.

RESEARCH METHODOLOGY

The primary data collected repeatedly visited by property observation in study area and took farmers interview. Many reference books, thesis, socio survey handbook used as a secondary data for this research. Jasbirsingh and Bhatia's formula used to analyze is the statical information. The crop diversity index presenting the crop-wise percentage of Aurangabad district, tahsil wise main dryland crops. It is shows in the given following chart.

Chart 1.1
Tahsil Wise Main Dryland Crops Yield in Aurangabad District – 1991-2011
(Area in Percentage)

Crops	Year	Kannad	Soygaon	Sillod	Phulmbri	Aurangabad	Khultabad	Vaijapur	Gangapur	Paithan	Total District
Jwari	1991	26.09	27.70	26.93	-	27.49	31.75	38.74	47.25	38.34	33.76
	2011	1.81	4.95	2.32	-	13.10	16.82	7.61	19.23	23.58	10.52
Bajara	1991	28.18	13.00	19.11	-	27.99	16.28	26.71	14.66	15.45	21.22
	2011	5.98	3.51	4.31	6.15	12.01	15.43	7.91	5.94	11.58	7.81
Maize	1991	0.39	0.56	6.22	-	0.36	0.55	0.34	0.20	0.07	1.18
	2011	23.74	10.34	43.17	30.00	13.10	8.9	13.57	5.94	1.42	16.82
Tur	1991	4.60	1.72	3.93	-	9.06	8.65	3.72	6.08	7.02	5.66
	2011	3.00	3.92	0.33	4.89	6.56	8.9	2.09	5.17	7.56	4.33
Cotton	1991	6.73	28.39	11.30	-	5.14	5.22	0.35	4.15	9.95	7.35
	2011	46.11	64.38	37.20	45.60	31.12	35.02	51.84	44.74	38.98	43.35
Soyabin	1991	-	-	-	-	-	-	-	-	-	-
	2011	0.09	2.06	2.07	-	2.18	0.20	0.07	1.33	0.27	0.91

(Source :Soci-Eco Survey, Aurangabad 1991-2011)

Jasbirsingh's following formula used
Index Crop Diversification

$$\frac{\text{Percentage of total harvested area under } 'n' \text{ Crops}}{\text{Number of } 'n' \text{ Crops}}$$

Chart 1.2

Tahsil Wise Crop Diversity Index in Aurangabad District – 1991-2011

Tahsils	1991	2011	Standard Deviation
Kannad	20.33	25.28	2.71
Soygaon	23.03	37.36	9.91
Sillod	15.89	13.37	2.46
Phulmbri	-	27.25	-
Aurangabad	17.42	15.18	1.58
Khultabad	15.48	15.19	0.21
Vaijapur	32.73	20.23	8.84
Gangapur	22.63	16.20	4.55
Paithan	17.69	20.66	2.12
Total District	17.00	19.63	1.79

In Accordance of thin 1991, very high crop diversity found in Kannad, Sillod, Aurangabad, Khultabad, Paithan and entire region of district. Whereas, Sillod, Aurangabad, Khultabad, Gangapur and entire district found very high crop diversity in 2011. Similarly in 1991, high crop diversity found in Soygaon and Gangapur tahsils. Similarly in 2011, high crop diversity found Kannad and Paithan tahsils. In 1991 the medium crop diversity found none of any tahsils. While in 2011, found Kannad and Phulmbri tahsil, Similarly low crop diversity find out only in Vaijapur tahsil in 1991. Whereas very low crop diversity found only in Soygaon tahsil in 2011. In 1991 to 2011 during this period high crop diversity derivation found Soygaon and Vaijapur tahsil's. low and medium derivation in other tahsil's and entire region of district.
Bhatia's formula used crop diversity Index

Chart 1.3

Tahsil Wise Crop Diversity Index in Aurangabad District – 1991-2011

Tahsils	Crop Diversity Index		Standard Deviation
	1991	2011	
Kannad	27.14	34.93	5.51
Soygaon	23.03	37.36	10.13
Sillod	19.11	37.36	91.25
Phulmbri	-	37.80	-
Aurangabad	27.74	17.33	7.36
Khultabad	24.02	22.42	1.13
Vaijapur	26.90	32.71	3.36
Gangapur	30.91	31.99	0.91
Paithan	26.90	24.71	2.40
Total District	27.49	23.56	2.77

(Source – According to Bhatia's Formula Soci-Eco Survey)

According to chart 1.3, The classification in five division of crop diversity. In accordance with that in 1991 to 2011, very high and high crop diversity did not find in district. In 1991, medium crop diversity found in Soygaon and Sillod. Whereas Khultabad, Paithan, Aurangabad and entire district area of medium crop diversity in 2011. Similarly in 1991 low crop diversity found in Kannad, Aurangabad, Khultabad, Vaijapur, Paithan, Gangapur and entire district. Whereas low crop diversity found in Kannad, Aurangabad, Khultabad, Vaijapur, Paithan, Gangapur in 2011. In 1991 to 2011 during this period Tremendously deviation in crop diversity found in Soygaon, Sillod, Aurangabad tahsil.

According to Jasbirsingh's formula, The crop diversity found only Khultabad tehsil in 1991. Whereas in 2011, found Aurangabad, Khultabad, Paithantahsils, that is 1991 to compare with in 2011, Cash crops Cotton, Maize, Bajara increased in district. Similarly in 1991, more diversity found in Paithan, Aurangabad and entire region. Where as in 2011 to changed area. More diversity found Vaijapur and entire region. Medium crop diversity found Kannad, Soygaon, Gangapur tehsil in 1991. There in changed in 2011, to found of fKannad and Phulmbri. Low crop diversity found in Vaijapur in 1991. There in 2011 low crop diversity found Soygaon and Sillod. Similarly. In accordance Bhati's methods not found very high, high diversity. Very low crop diversity in entire region.

In 1991 medium crop diversity found in Soygaon and Sillod. There in changed in 2011 to found in Aurangabad, Khultabad, Paithan and entire region. Low crop diversity found in Kannad, Aurangabad, Khultabad, Vaijapur, Gangapur, Paithan and entire region in 1991. There in to change in 2001 found in Soygaon, Kannad, Sillod, Phulmbri, Vaijapur, Gangapur tehsil. Present situation in accordance with climate change farmers move is towards cash crops. There by Cotton, Maize and Soyab in Crops increased in cultivation.

CONCLUSION

In 1991 to 2011, in the meanwhile change in crop diversity found in Soygaon, Sillod, Aurangabad and Vaijapur tahsils. According to jasbirsingh and Bhatia's Methods, more deviation in crop diversity of Aurangabad district.

In 1991 Jawar, Bajara, Cotton this crops had been taken mostly in district. Where asw cotton, Maize, Bajara crops taken in 2011 in entire region so that the cotton areas got increased. There by almost under 40% more than cotton crops area. Similarly Maize is a graze and cash crops so had been taken at large scale. Maize crops is second most Important in entire region. Bajara crops is normally high crop than cotton and Maize, crop to take very low entire area region.

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