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'A Study Of Livestock Combination In Latur District'

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Abstract:

The crop combination regions have been studied from time to time from the Geographers and agricultural land use planner but such evidences for livestock combination regions almost non-exist except Jasbir Singh (1976). Who studied the livestock combination regions for Harayana on the theoretical basis. An attempt has made to study the spatio-temporal changes in the livestock combinations in the latur district. In 1991 there was only one combination of livestock, whereas two combinations of livestock were observed in 2011. Out of the five tahsils only two tahsils are involved in the changes livestock combination

KEYWORDS:

Livestock combination, theoretical value, Latur district.

OBJECTIVES: -

The main objective of the present paper is to study the spatio-temporal changes in livestock combination in the Latur district.

INTRODUCTION: -

Livestock constitutes one major important aspect of agriculture, as it is the part and parcel of our farming society and the concept of agriculture without the livestock cannot be conceived. The entire field operation from ploughing to harvesting of crops is carried out by the draught animals, mainly bullocks, male and female buffaloes, they are keystones in farming. In addition to crops, draught and milch stock are raised and maintained by individual farmers. They are his companions in the field by day and live beside his house. The number of livestock has an important effect both on the total output of agriculture and on the farm, in which the output appears, cattle play a very important part in agriculture, therefore an attempt is made to analyse the livestock combination and their changes in this papers.

DATABASE AND METHODS USED:-

The present study is completely based on secondary sources of data for the period 1991 and 2011. The secondary data was obtained from socio-economic review of Latur district, district statistical abstract. For the study of live stock combination in various enumeration units, the method of least deviation from the theoretical base is used, which is introduced by weavers let $d_1 d_2 \dots d_n$ be the deviation (Plus or minus) of the actual percentage from any one of the theoretical values. These deviations for the every set of livestock are squared and summed. Each sum is divided by number of livestock. The square root of this will gives us a measure of the deviation of the concerned livestock combinations from theoretical value standard deviation is obtained with the help of following formula

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$$S.D = \sqrt{\frac{Ed^2}{n}}$$

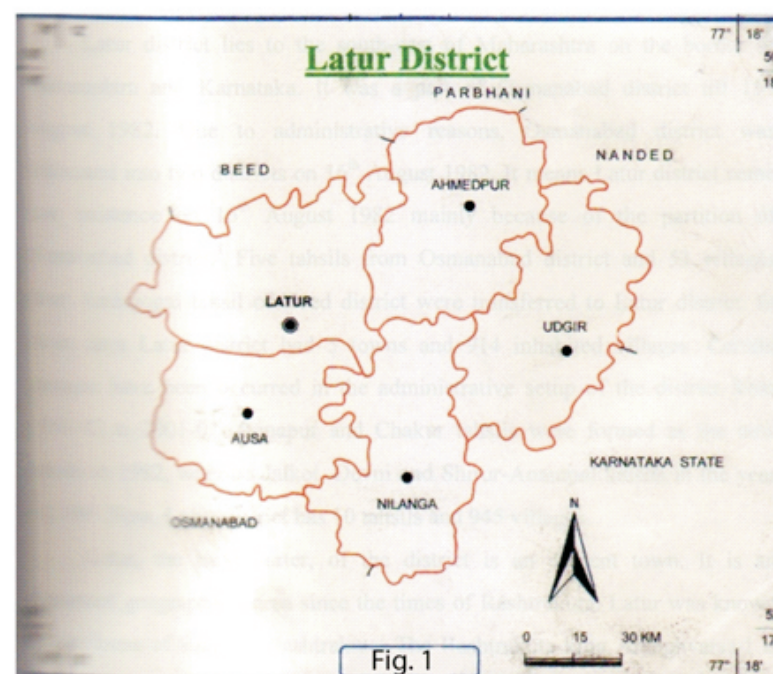
Where Ed^2 is the sum of the square of individual deviations.

n- is the number of livestock being considered.

The combination with least or smallest value of standard deviation will be the combination to be selected

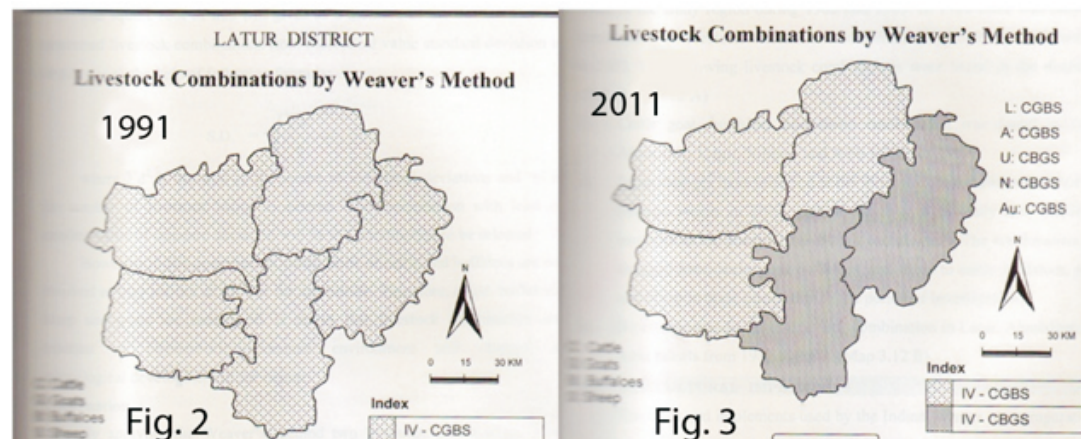
STUDY AREA :-

Latur district is located in the south east part of Maharashtra state on the border of Maharashtra and Karnataka. It is one of the district of Marathwada region. It is situated between $17^{\circ}52'N$ to $18^{\circ}50'N$ latitudes and $76^{\circ}12'E$ to $77^{\circ}18'E$ longitudes. It is surrounded by Beed and Parbhani district in the north, Nanded district in the north east, karanataka state in the south east and Osmanabad district in the north west and west at present Latur district comprises 11 tahsils but for this study only old 5 tahsils are consider



RESULT AND DISCUSSION: -

Cattle, Buffaloes, Sheep and Goat are considered in this investigation. It shows that livestock combination and result of physical-socio-economic environment and changes in the technological development of the district By applying the weaver's method two livestock combinations were found in the district during 1991 and 2011. In 1991 there was only one combination of livestock, where as two combinations of livestock were noticed in 2011. Cattle, goat, buffaloes and sheep combination was found in Latur (Fig.2) Ahmedpur, Udgir, Nilanga, and AUSA tahsils is 1991. Some changes have occurred in the livestock combinations in Udgir and Nilanga tahsil in 2011. Out of the five tahsils only two tahsils are involved in the change of livestock combination. The combination was changed from cattle, goat, buffaloes and sheep to cattle, buffaloes, goats and sheep in these tahsils during the period of investigation. No change was found in livestock combination in Latur, Ahmedpur and AUSA tahsils from 1991 to 2011 (Fig.3)



CONCLUSION: -

Livestock constitutes one major important aspect of agriculture, as it is the part and parcel of our farming society. Some changes have occurred in the livestock combinations in Udgir and Nilanga tahsils, were as no change was found in live stock combinations in Latur Ahmedpur and Ausa tahsils from 1991 to 2011.

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- Socio-economic Review of Latur district 1991-2011

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