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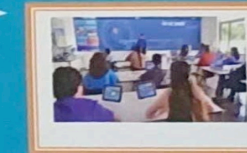
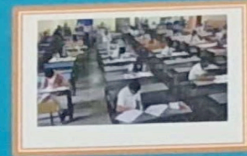
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Challenges of Higher Education in India to Compete with
Global Level

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Changes of Cotton Cropping Pattern in Yavatmal District – 2007 to 2018

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Abstract: -

Present paper studies the changes in the cropping pattern of crops in Yavatmal district as case study for the period 2007-2018. The trends in the production of Cereal Crops, Pulses and Cash Crops are observed using mean comparison. These statistical and simple economic ethics exercises support the noticeable change occurred in the cropping pattern in the Yavatmal district during the economic reforms period. The results can be concluded as the production of wheat increased marginally but production of Jawar crops has drastically declined and its place has been taken over by Soybean and Sunflower crops in the recent past. The production of Bajara declined during the same period.

In the category of pulses, the production of Gram has significantly increased but the production of Tur has not increased at all during the span of 10 years. The production of Mung and Udid crops significantly declined during the study period. The aggregate production of Pulses has also declined. This change is also matter of worry for the government and also public. The price level of pulses has been increasing because of a shortfall in the production.

Major Cash crops comprises Sugarcane, Cotton, Sunflower and Soybean. Among these crops production of Cotton and Soybean has been significantly increased during second period 2017-2018. However the production of sugarcane has been suffered but not significantly. Another noticeable change is that the production of Sunflower crop has been declined. In the cash crops, the production of Cotton and Soybean were scaled up due to the use of BT Cotton seeds and better support prices declared to both crops by government. The overall production trends in the cereal are cause of concern for the government in particular and public in general.

Key words: - The effect of global warming & climate change on agriculture, Climatic condition of cotton crop & Climatic condition of Yavatmal District, cropping pattern, Agriculture productivity

Study area:-

Yavatmal district lies in the South-Western part of the Wardha Penganga -Wainganga plain. The district lies between 19°26' and 20°42' north latitudes and 77°18' and 79°9' east longitudes. It is surrounded by Amravati and Wardha district to the north, Chandrapur district to the east, Andhra Pradesh State and Nanded district to the south and Parbhani and Akola district. Yavatmal District occupies an area of approximately 13584 square kilometers. And Yavatmal District population is 2775457. It is 15th Largest District in the State by population. It is too hot in summer. Yavatmal District summer highest day temperature is in between 33° C to 46° C. Yavatmal District Administrative head quarter is Yavatmal.

Cropping Intensity and Rainfall

The changes in cropping intensity reflect the sensitivity of agricultural activities to agro-biological and socio-economic condition from time to time. Cropping intensity index is ratio of gross sown area to the net sown area. It measures the extent of land utilization by taking into account the area planted more than once. In 2008-09 the cropping intensity actually calculated as 101.6 percent. Yavatmal located at western plateau and hills regions (XI). Highest rainfall measured in Kelapur, Ghatnaji and Ralegaon 1117 cm., normally rain begins from June 11-17 and fall until October 01-07.

Objective: -

- To find out Decrease or increase in cotton area & growth in other crops
- To study the impact of change in temperature and climate on cotton crop.
- To study increase in temperature and variation in rainfall of Yavatmal District.
- To find out new genres of cotton that would be able to face increasing temperature.
- To study the farmer's trend to cultivate various other crops, govt. policy & the impact of geographical factor, climatic changes on cotton cropping pattern.

Methodology: -

The research is based on the secondary data of meteorological department and district gazetteer of Yavatmal District. Agriculture data is used in socio-economic survey & statistical department of Yavatmal District and implementing a general cropping pattern method. Statistical information during 2007 to 2018 is derived from the socio-economic survey of Yavatmal District.

Taluka wise cotton cropping pattern in Yavatmal District: -

2. In 2007 a high cotton crop rang area was seen in 11 talukas out of 16 talukas in Yavatmal district but the proportion will change in 2018
3. In 2007 not a single taluka was come under very high (above -60%) cotton crop rang but the situation will change in 2018 and the Wani and Ghatanji talukas comes under this rang.
4. In the Year 2017-18 cotton cropping pattern area show a significant change the oilseeds area increase instead of cotton crop area.
5. There results can be concluded as the production of wheat increased marginally but production of Jawar crops has drastically declined and its place has been taken over by Soybean and Sunflower crops in the recent past
6. The production of ajara declined during the same period.
7. Major Cash crop comprises Sugarcane, Cotton, and Sunflower and Soybean. Among these crops production of Cotton and Soybean has been significantly increased during second period 2017-2018
8. Another noticeable change is that the production of Sunflower crop has been declined. In the cash crops, the production of Cotton and Soybean were scaled up due to the use of BT Cotton seeds and better support prices declared to both crops by government.

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