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## “A GEOGRAPHICAL STUDY OF SWEET ORANGE AREA, PRODUCTION AND PRODUCTIVITY IN JALNA DISTRICT”

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### Abstract :-

Jalna district may be a leading producer of sweet orange production and productivity in Maharashtra state. within the last decade space and production of sweet orange is decreasing by some bad climate condition. And district falls in drought prone space, here individuals seriously face the water inadequacy downside thence natural and artificial issue build huge result on sweet orange production in Jalna district over all state of affairs is analyze in gift analysis paper.

**Key Words:-** Geographical Study , Production and Productivity

### INTRODUCTION

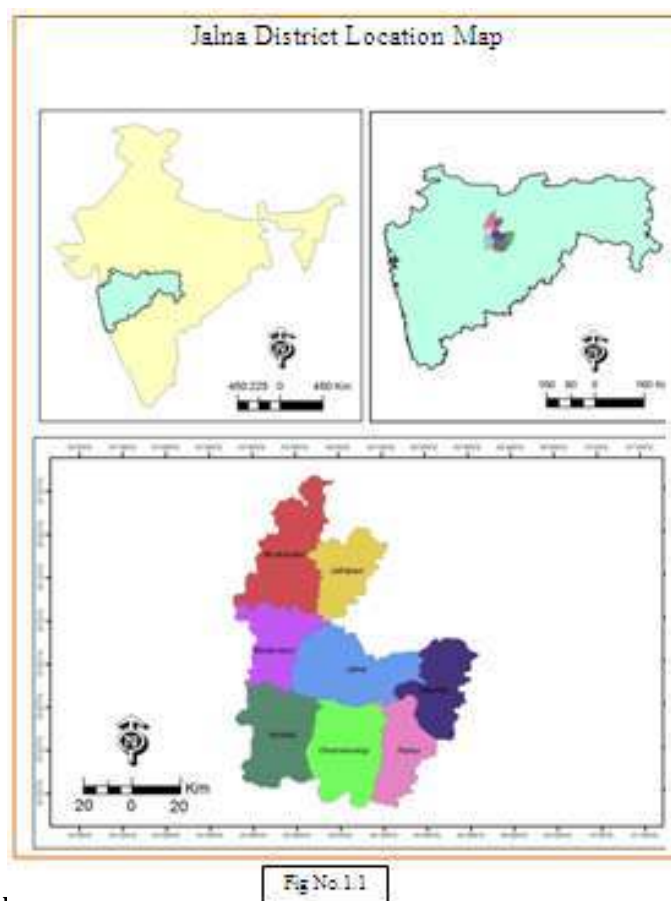
The India occupies sixth position among citrus growing countries in the world. The sweet orange was cultivated in china for many countries before it was introduced into Europe, most likely during the early fifteenth century, Columbus is credited with bringing sweet orange seed among the fruits citrus group enjoys prime economic importance. In India citrus occupies 10.5 percent of total area under fruits. It is the third largest fruits industry next to mango and banana. In citrus sweet orange is one of the most important commercial crops of India. Sweet orange serves as the most refreshing delicious whole some and health promoting juicy fruit and as such they deserve a prominent place in diet. Its juice is rich in vitamin 'C' and is good source of vitamin 'A' and 'B' ...Sweet orange is the most widely grown citrus fruits in India and the world. The importance of the sweet orange industry to India's agricultural economy is not likely to decline in the foreseeable future as vast expanses of Indian continue to be developed for sweet orange production and productivity.

### Objective of Research:-

- 1) To study the spatio-temporal changes of sweet orange area, production and productivity in Jalna District.
- 2) To study the geographical condition of Jalna District

### Study Area:

Jalna district is situated at the central part of the Maharashtra state of republic of India and northern direction of Marathwada region. Especially district lies between 19° 01' North to 21° 03' North Latitudes and 75° 04' East to 76° 04' East longitude. Jalna district erstwhile a part of Aurangabad district was formed on 1st May, 1981 by carving out Jalna, Bhokardan, Jafrabad and Ambad tahsil of Aurangabad district and Partur tahsil of Parbhani district. The boundaries of Jalna are adjacent to Parbhani and Buldhana on East, Aurangabad on West, Jalgaon on North and Beed on South. Jalna district covers an area of 7,728 sq.km which is 2.47(%) percent of the total state area. It has population of 19.58 lakh as per 2011 census.



**Data-Base and methodol ...**

Present study has been carried out with the help of secondary data obtained from soci-economic abstract of Jalna district, National horticulture hand book .etc and other secondary data. Tools Mean, Standard deviation, C.V. Method; by Enyeditecture Productivity index.

**Table 1.1**  
**Tahsil wise sweet orange Area, Production and productivity in Jalna District**

S.n	Years/Tahsils	2004-2005		
		Area (000ha)	Production (000 mt)	Productivity vity-mt/ha
1.	Bhokardan	108	62	0.57
2.	Jalna	815	123	0.15
3.	Badnapur	1,815	645	0.35
4.	Ambad	4,108	2,253	0.54
5.	Ghan.gi	2,347	2,107	0.89
6.	Partur	1,010	342	0.33
7.	Mantha	1,941	855	0.44
8.	Jafrabad	-	-	-
	Total	14,822	7,137	0.48

Source:compiled by author

According to “Tahsil wise sweet orange Area, Production and productivity in Jalna District” in the year 2004-2005 there is a higher area of Ambad Tahsil such as 4,108 ha. And higher production of Ambad is 2253 mt and higher productivity has in Ghansavangi tahsil such as 0.89-mt/ha. And lower area is in Bhokardan -108ha. lower production Bhokardan-62mt, and lower productivity Jalna-0.15mt/ha.

The reason of higher area and production is in Ambad because of fertile soil, good irrigation facility, good transportation, good market place, the use of technical facility and use of government facility etc.

**Table 1.2**

Sr.No.	Year	Area ('000ha')	Production ('000mt')	Productivity (mt/ha)
1.	2004-05	15400	154000	10
2.	2005-06	16500	165000	10
3.	2006-07	17000	187000	11
4.	2007-08	17400	174000	10
5.	2008-09	18100	181000	10
6.	2009-10	18644	223728	12
7.	2010-11	19000	418000	22
8.	2011-12	36736	840519.68	22.88
9.	2012-2013	17985	359700	20
10.	2013-14	13000	299000	23
	Ave.Mean	18976.50	300194.77	15.09
	S.D.	6483.29	210241.83	6.01
	C.V.	34.16	70.04	39.83

Source; Agriculture Dept.of Jalna district.

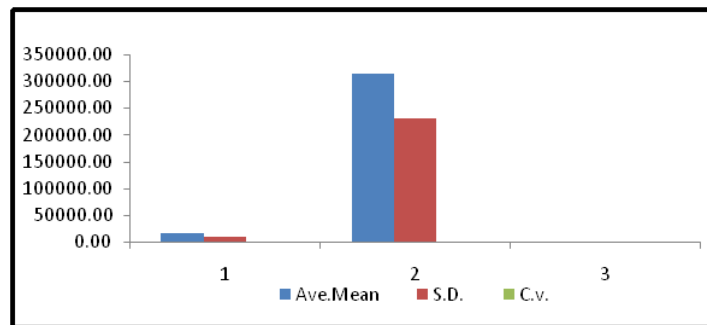
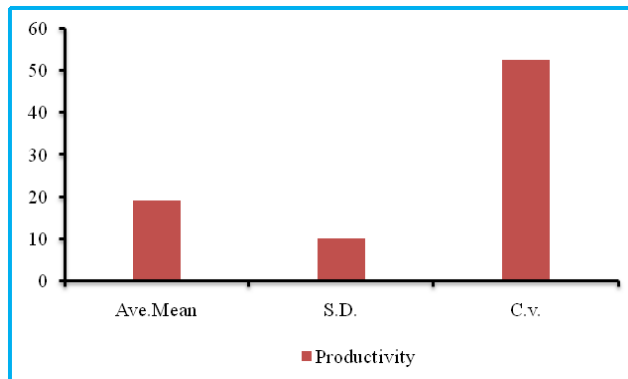
**Table 1.3**  
**Jalna district sweet orange Average mean, S.D and C.V.**

Formula	Area	Production	Productivity
Ave.Mean	16550.99	314717.15	18.98
S.D.	10092.85	230676.79	9.93
C.v.	60.98	73.30	52.33

Source: completed by Researcher.

The table of 1.3 Jalna district sweet orange Average mean, S.D and C.V. mention that area of Ave.Mean-16550.99, S.D.-10092.85,C.V.-60.98. And production-Ave.Mean-314717.15, S.D.230676, C.V.73.30. And Productivity Ave.Mean 18.98, S.D.-9.93, C.V.-52.33.

### Sweet Orange Average Mean S.D. and C.V.



**Productivity Index;**

Y = the total Production of the selected crop in unite area  
 Yn = the total production of the same crop on nation scale  
 T = the total cropped area of the unit area.  
 Tn= the total cropped area at nation scale.

**CONCLUSION:-**

- 1) Farmer are very awake in Ambad Tahsil because they use modern technical Knowledge for growing sweet orange.
- 2) Availability of irrigation facility
- 3) Processing facilities.

**Recommendation:-**

- 1.To development in yield and quality of sweet orange.
- 2.To development studies of marketing and export of sweet orange for batter returns

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