

CROPPING PATTERN IN HISAR DISTRICT OF HARYANA

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BSTRACT

A cropping pattern refers to the proportion of land under cultivation of various crops at different points of time. On the basis of amount of rainfall and temperature, humid farming, irrigation farming, dry farming patterns of the cultivation are practised in Hisar. Hisar district has been taken as study area of the paper. The paper tries to find out the cropping pattern of Hisar district. The main crop seasons of the district Hisar are as follows: Kharif season, Rabi season, Zaid season. Kharif season includes Cotton, Rice, Bajra, Pulses, etc crops. The major crops in Rabi season are wheat, Barley, Gram, Mustard, Green Vegetable etc. The main crops which are grown in Zaid season are Melon, Water Melon, Tomato, Ghia, Onion, Tori, Tinda, Bhindi (Lady finger), Brinjal, Kakri, Fodder etc.

KEY WORDS cropping pattern, cultivation, farming, rabi, kharif, zaid

INTRODUCTION

A cropping pattern refers to the proportion of land under cultivation of various crops at different points of time. The cropping pattern in Haryana have been marked a great change with the introduction of new farm technology. The credit of this agricultural development in Haryana State goes to some of the districts of this State; among these district Hisar is also an important district, which has achieved a remarkable change in agricultural sphere. The per hectare production of every crop has been developed in Hisar district during the last two decades. Every tehsil of Hisar district used to produce various crops during Kharif, Rabi and Zaid season. The production of the crop cultivation is more in Hisar and Hansi tehsils in comparison of Barwala, Narnaud and Adampur tehsils, because the area is more in Hisar and Hansi tehsil than these other three tehsils.

OBJECTIVE

The main objective of the paper is to find out the cropping pattern of Hisar district.

STUDY AREA

Hisar district has been taken as study area of the paper. Tehsil wise data has been collected for different type of crops. Cropping pattern in Hisar district is marked by certain characteristics as: climate and edaphic conditions have played a significant role in the cropping pattern of this district. Nearly 82.45 per cent area of total area of the district is covered under farming. Greater emphasis is laid on the cultivation of food crops in agriculture produce. In Hisar district, the routine case of embankment, structures and occasional rehabilitation of badly deteriorated irrigation system have been extremely poor.

RESEARCH METHODOLOGY

Data have been collected from secondary sources as Land Record Office, Hisar District,

Haryana, Deputy Director of Agriculture, Hisar District

PATTERN OF CULTIVATION

On the basis of amount of rainfall and temperature, following pattern of the cultivation are practised.

Humid Farming It is practised in the area having sufficient rainfall (above 90 cms). Under this system, crops are produced without the help of irrigation. Rice and Sugarcane are grown in areas of high rainfall, while in areas of receiving moderate rainfall, Cotton, Tobacco, Wheat, Barley etc. are grown. This system is practised in eastern and North-eastern part of Hisar district.

Irrigation Farming It is practised in those areas where rainfall is either seasonal or insufficient for certain crops particularly in Kharif crops. It is practised in canal regions and covered the Hisar, Hansi, Barwala and Narnaud Tehsils of Hisar district. In this area, Wheat, Barley, Oilseeds, Potato, Mustard and Green Vegetable crops are produced.

Dry Farming This type of farming is practised in those areas where rainfall is scanty or less than 40 cms. and the irrigation facilities are very less. The warmth of the sandy soil helps in the quick maturing of plant. This method is practised in summer season. Short maturing and drought resisting crops like Millets and Pulses are mainly grown. This pattern is mainly followed in Adampur Tehsil and a few parts of Barwala Tehsil.

DISTRIBUTIONAL PATTERN OF MAJOR CROPS

For the detailed study of crop cultivation in Hisar district, we have to consider the area and production of each and every crop in various crop seasons. The main crop seasons of the district Hisar are as follows:

1. Kharif season
2. Rabi season
3. Zaid season

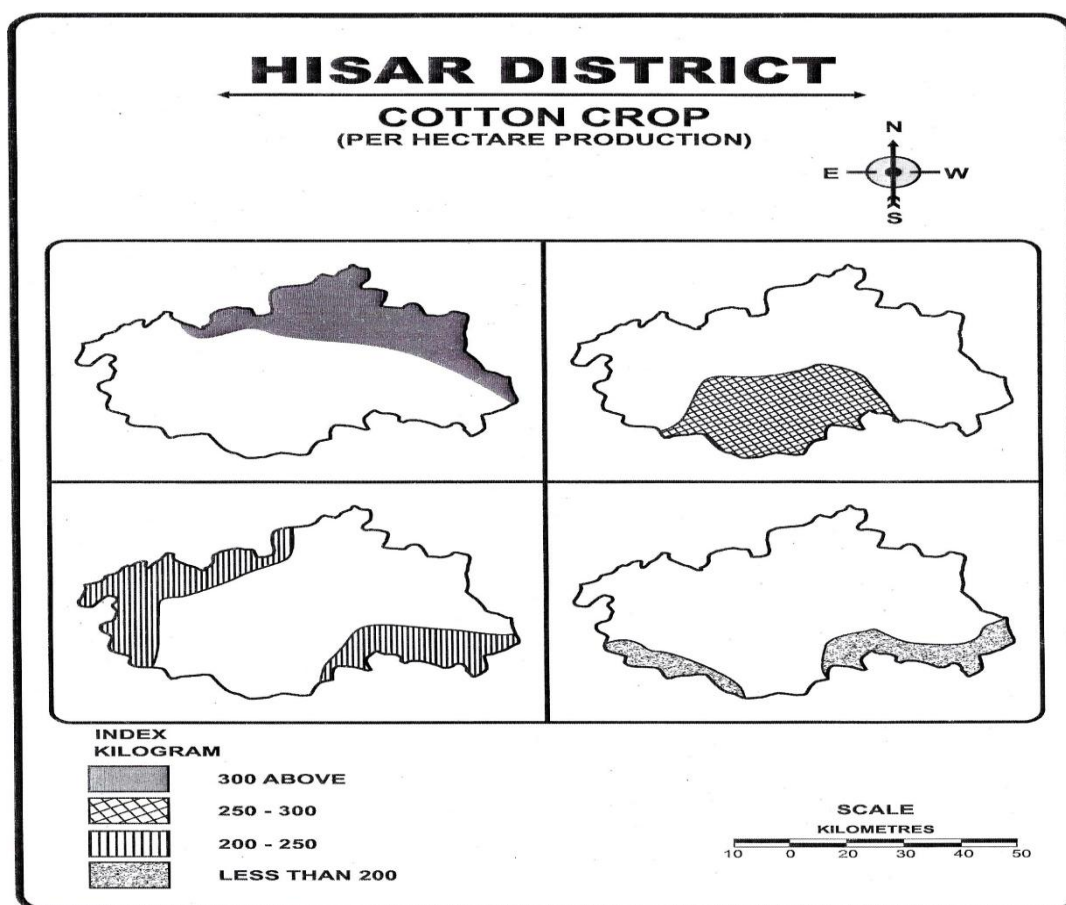
1. KHARIF SEASON

. The detailed study of the various crops of the Kharif season is given as follows:

(i) **Cotton** The Tehsil-wise area of the Cotton Crop in Hisar district is shown in the following Table no. 1

TABLE NO. 1
TEHSILWISE LAND UNDER COTTON CROP (2016-2017)

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	38.9	64.7	273
Barwala	73	33.8	57.9	327
Hansi	91	27.6	39.5	224
Narnaud	43	12.4	18.3	329
Adampur	45	13.8	31.6	227
District	404	126.5	212	276



(ii) **Rice:** Rice is also a very important crop of Hisar district. The tehsil-wise area of the rice Crop in Hisar district is shown in the following table No. 2

TABLE NO. 2

TEHSILWISE LAND UNDER RICE CROP (2016-2017)

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	9	12	1940
Barwala	73	8	12	2215
Hansi	91	31	72	2704
Narnaud	43	13.7	48	2417
Adampur	45	0	0	0
District	404	61.7	144	2319

(iii) **Bajra** Bajra is the most important food crop of the Kharif season. The tehsil-wise area and production of the Bajra in Hisar district is shown in the following Table No. 3

TABLE NO. 3

TEHSILWISE LAND UNDER BAJRA CROP (2016-2017)

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	8	12	1885
Barwala	73	5	8	2180
Hansi	91	7	9	1750
Narnaud	43	2.2	8	2010
Adampur	45	2	2	2100
District	404	24.2	39	1969

(iv) **Pulses:** Pulses are also important crops of Kharif season of Hisar district. The tehsil-wise area of pulses crops in Hisar district during year 2016-2017 is shown in following table No. 4

TABLE NO. 4
TEHSILWISE LAND UNDER PULSES CROP (2016-2017)

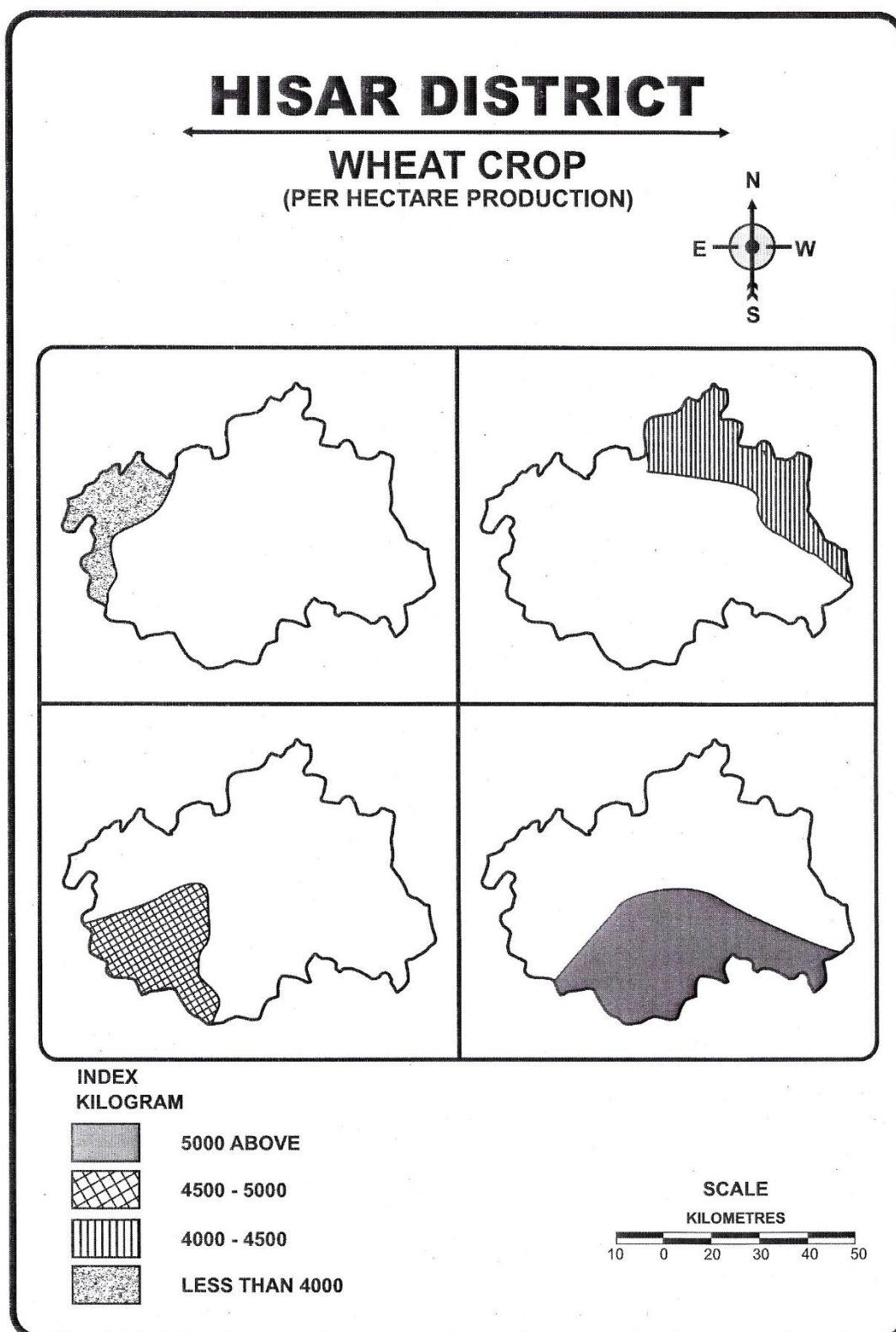
Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	4.1	2.7	800
Barwala	73	7.2	4.0	600
Hansi	91	2.2	1.0	580
Narnaud	43	0	0	0
Adampur	45	6.3	4.2	660
District	404	19.8	11.9	700

2. RABI SEASON

(i) **Wheat** Amongst the cereals, Wheat is the most important crop of the Rabi season in Hisar district. The tehsil wise covered area of Wheat crop during the year 2016-2017 in Hisar district is shown in the following table no. 5

TABLE NO. 5
TEHSILWISE LAND UNDER WHEAT CROP (2016-17)

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	63	298	5824
Barwala	73	46.5	205	4140
Hansi	91	63	295	5420
Narnaud	43	31	147	4480
Adampur	45	22	105	3376
District	404	225.5	1050	4648



(ii) **Mustard** Mustard is the most important crop of district Hisar after wheat crop. The tehsil wise area under Mustard crop during 2016-2017 is shown in the following table no. 6

TABLE NO. 6**TEHSILWISE LAND UNDER MUSTARD CROP (2016-17)**

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	31	57	2057
Barwala	73	10	18	1768
Hansi	91	10.1	18	1849
Narnaud	43	2.3	6	1570
Adampur	45	14.2	24	1836
District	404	67.6	123	1816

(iii) **Barley** Barley is also an important cereal of Hisar district. The tehsil wise area under Barley crop is shown in the following Table No. 7 during the year 2016-2017.

TABLE NO. 7**TEHSILWISE LAND UNDER BARLEY CROP (2016-17)**

Tehsil	Total Area (000 Hectare)	Crop Area (000 Hectare)	Production (000 Tonnes)	Average Per Hectare Production (Kilogram)
Hisar	152	2	6	4014
Barwala	73	1	5	3257
Hansi	91	0.5	1	3166
Narnaud	43	0.3	1	3318
Adampur	45	0.5	1	3240
District	404	4.3	14	3399

3. ZAID SEASON

Zaid crop is grown in the month of April and mostly harvested in the end of the month of June or in the beginning of July every year. The following Table No. 8 shows the covered area under different crops of Zaid Season.

TABLE NO. 8

LAND UNDER ZAID CROP (2016-17)

Sl. No.	Crops	Net Area Sown (Hectare)	% of total Zaid Cropped Area
1.	Melon	410	2.43
2.	Water Melon	290	1.72
3.	Onion	140	0.82
4.	Fodder	3870	22.93
5.	Green Vegetable	11240	66.58
6.	Tomato	240	1.42
7.	Cucumber	690	4.09
	Zaid Crop	16880	100

CONCLUSION

It can be concluded from above discussion that three crops are grown in a year in Hisar district. Kharif season includes Cotton, Rice, Bajra, Pulses, etc crops. The major crops in Rabi season are wheat, Barley, Gram, Mustard, Green Vegetable etc. The main crops which are grown in Zaid season are Melon, Water Melon, Tomato, Ghia, Onion, Tori, Tinda, Bhindi (Lady finger), Brinjal, Kakri, Fodder etc.

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