

“A Study on Crop Ranking and its Trends in Mysuru District”

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Abstract:

Agriculture, Crop Ranking plays a vital role in Agricultural Developments. In this study mainly the ranking of the crops has been analysed from the year 2002-2012 and 2012-2017 by using secondary data. Different taluks of District is having different rankings in the different years. The production of the crops is depends on the soil, Temperature, rainfall, irrigation and Agriculture techniques, each taluk is having different soil texture, availability of water. In this study it is observed that the Rain fed areas are dominated by the food and commercial crops.

Keyword: Agriculture, Crop ranking, Development, Dominated, Techniques.

1. Introduction:

Agriculture is one among the core sectors of Indian economy. Very sizable amount of the population depends on agriculture for food, fodder and livelihood. Agriculture provides the food to the whole population of the country but nowadays people are losing interest in agriculture sector for several reasons and depend upon other sectors for livelihood with changing their cropping pattern, and which may be a permit to figure in other sector of the economy, this trend directly has adverse effect on countries food production and food security. Hence the systematic, well planned and organized cropping pattern is important in agriculture. Cropping pattern plays a predominant role in agricultural operation and Government Department of Crop Statistics has defines the cropping pattern “The proportion of area under various crops at a point of time is known as Cropping Pattern” and under the cropping pattern sub sections parameter deals with the Ranking of crops, and ranking method gives the crop with the largest percentage share to the net sown area forms the first ranking crop and the crop with next largest share becomes second ranking crop like these ranking method calculated.

Study area:

Mysuru district is situated in the southern part of Karnataka at a distance of 146kms from Bangalore and Geographical location, 12.30°N 74.65°E and has an average altitude of 770 metres above the sea level and it has an area of 6307 sq. km and a population of 30, 01,127 as per (2011 Census) Population density of Mysore District is 476 persons per sq km.

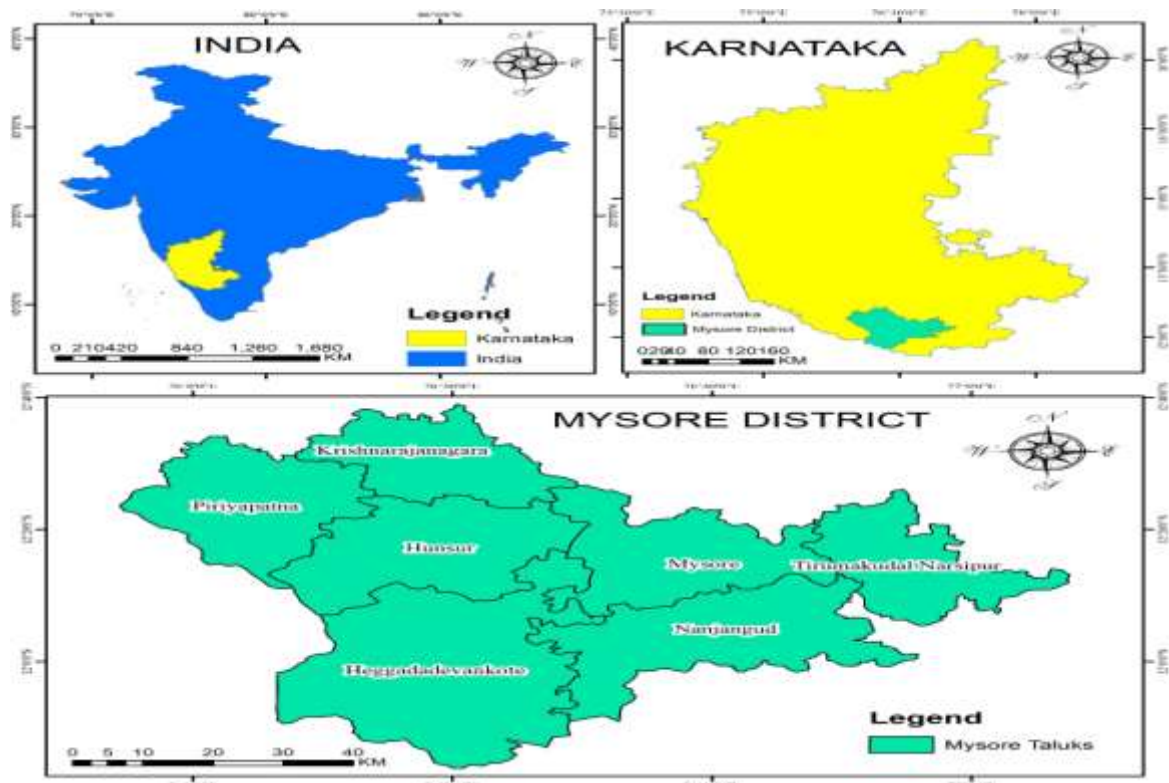


Figure 1: Location Map of Mysuru District.

Land use and land Cover:

The Total Geographical area of Mysuru District is 676382 Hectares, in that 62851 Hectares are occupied by Forest and Land not Available for cultivation is 120297 Hectares, Other Uncultivated Land is 74086 Hectares, Fallow land is 86613 Hectares and area sown is 487052 Hectares.

Objectives:

- To assess the ranking crop of Mysuru District from 2002-2017
- To mapping the ranking of crops from 2002-2012 and 2012-2017.

Methodology:

The present study is based on the secondary data; data has been collected from the Statistical Department of Mysore. Ranking method gives the crop with the largest percentage share to

the net sown area forms the first ranking crop and the crop with next largest share becomes second ranking crop like these ranking method calculations have been made from 1st rank to 11th ranking crops.

Crop ranking:

The study of agriculture region is great significance in geographical studies. The regional dominance of different crops can be determined by comparing the relatively a real strength of various crops. This can be obtained by ranking of them, for each paragon, according to the percentage of the total harvested cropland occupied by each crop (Porwal , 1994). Mainly 11 crops have been ranked between 2002 to 2012 and 2012 to 2017 in Mysore District as shown in the below tables and Maps.

Table No.1: Taluk wise Ranking of Crops in Mysore District-2002-03

Sl No	Name of the Taluk	Ranking of Crops										
		1	2	3	4	5	6	7	8	9	10	11
1	H D Kote	C	R	PU	P	OS	F	SC	V	J	M	T
2	Hunsur	R	P	PU	C	OS	M	F	SC	J	V	T
3	K R Nagar	P	PU	R	OS	SC	V	C	J	F	M	T
4	Mysore	PU	R	OS	P	J	C	F	V	SC	M	T
5	Nanjangud	PU	P	C	J	OS	R	SC	F	V	M	T
6	Periyapatna	PU	R	M	P	OS	C	F	V	SC	J	T
7	T Narasipura	P	PU	R	OS	SC	F	J	V	M	C	T

Note: Note: PU-Pulses, R-Ragi, J-Jowar, SC-Sugarcane, P-Paddy, B-Bajra, M-Maize, F-Fruits, V-Vegetables, C-Cotton, OS-Oilseed, T-Tobacco. Source: Mysore District At a Glance Handbook-2002-03

Table No 2: Taluk wise Ranking of Crops in Mysore District-2012-13

Sl No	Name of the Taluk	Ranking of Crops										
		1	2	3	4	5	6	7	8	9	10	11
1	H D Kote	C	PU	R	P	SC	T	F	M	OS	V	J
2	Hunsur	T	PU	M	P	R	F	OS	V	C	SC	J
3	K R Nagar	P	T	PU	OS	R	SC	V	M	F	J	C
4	Mysore	PU	P	R	V	SC	F	C	OS	J	M	T
5	Nanjangud	PU	C	P	J	SC	OS	M	F	R	V	T
6	Periyapatna	T	M	P	R	PU	F	V	SC	J	OS	C
7	T Narasipura	P	PU	M	R	SC	OS	F	V	J	C	T

Note: Note: PU-Pulses, R-Ragi, J-Jowar, SC-Sugarcane, P-Paddy, B-Bajra, M-Maize, F-Fruits, V-Vegetables, C-Cotton, OS-Oilseed, T-Tobacco. Source: Mysore District At a Glance Handbook-2012-13

Table No 3: Taluk wise Ranking of Crops in Mysore District-2017-18

Sl No	Name of the Taluk	Ranking of Crops										
		1	2	3	4	5	6	7	8	9	10	11
1	H D Kote	C	PU	R	M	P	F	T	OS	V	SC	J
2	Hunsur	T	PU	M	R	P	OS	F	C	V	J	SC
3	K R Nagar	P	PU	R	T	M	V	F	OS	SC	J	C
4	Mysore	PU	R	P	C	OS	V	F	M	SC	J	T
5	Nanjangud	PU	C	P	J	F	V	SC	R	M	OS	T
6	Periyapatna	T	R	M	PU	P	F	V	OS	J	C	SC
7	T Narasipura	P	PU	M	R	OS	F	SC	V	C	J	T

Note: PU-Pulses, R-Ragi, J-Jowar, SC-Sugarcane, P-Paddy, B-Bajra, M-Maize, F-Fruits, V-Vegetables, C-Cotton, OS-Oilseed, T-Tobacco. Source: Mysore District At a Glance Handbook-2017-18

Ranking of Crops in Mysore District:

There are totally eleven crops were taken to study the cropping pattern of Mysore district in each taluk for the period from 2002-03 to 2017-18.

First Ranking Crops:

Pulses are the dominant crop in the district in the year 2002-03. While in talukwise study there are four crops were occupied in the first ranking such as Cotton grown in H D Kote taluk, Ragi grown in Hunsur taluk, Paddy grown in K R Nagar and T Narasipur taluk, Pulses grown in Mysore, Nanjangud and Periyapatna taluk.

During 2012-13 period Pulses, Paddy and Tobacco are the most dominant crop. Cotton grown in, Paddy grown in K R Nagar and T Narasipura, Tobacco grown in Hunsur and Periyapatna taluk, Pulses are grown in Mysore and Nanjangud taluk, these same crops are stands in first rank of the crop position in 2017-18 period also.

Second Rankin Crop:

During 2002-03 period Pulses, Ragi and Paddy are the most dominant crop. Ragi grown in H D Kote, Mysore, and Periyapatna taluk, Paddy grown in Hunsur and Nanjangud taluk, Pulses are grown in K R Nagar and T Narasipura. In 2012-13 Pulses are grown in H D Kote, Hunsur and T Narasipura, Tobacco grown in K R Nagar taluk, Paddy grown in Mysore taluk, Cotton grown in H D Kote taluk and Maize grown in Periyapatna taluk. While in 2017-18 Pulses are grown in H D Kote, Hunsur, K R Nagar and T Narasipura, Ragi grown in Mysore and Periyapatna, Cotton grown in H D Kote taluk.

Third Ranking Crop:

In 2002-03 Pulses grown in H D Kote and Hunsur, Maize grown in Periyapatna, Ragi grown in K R Nagar and T Narasipura, Oilseeds grown in Mysore, Cotton grown in Nanjangud taluk.

During 2012-13 Ragi grown in H D Kote, Mysore, Maize grown in Hunsur and T Narasipura taluk, Paddy grown in Nanjangud and Periyapatna, Pulses grown in K R Nagar taluk. Whereas in 2017-18 Ragi grown in H D Kote, K R Nagar taluk, Maize grown in Hunsur, Periyapatna and T Narasipura taluk, Paddy grown in Mysore and Nanjangud taluk.

Fourth Ranking Crop:

Paddy grown in H D Kote, Mysore and Periyapatna taluk, Cotton grown in Hunsur, Oilseeds grown in K R Nagar, and T Narasipura taluk, Jowar grown in Nanjangud taluk all these crops have been noted as fourth ranking crops in the period 2002-03.

During 2012-13 periods Paddy grown in H D Kote, and Hunsur taluk, Oilseeds grown in K R Nagar, Vegetables are grown in Mysore, Jowar grown in Nanjangud and Ragi grown in Periyapatna and T Narasipura taluk. But in 2017-18 Maize grown in H D Kote taluk, Ragi grown in Hunsur, and T Narasipura taluk, Tobacco grown in K R Nagar, Cotton grown in Mysore, Jowar grown in Nanjangud and Pulses grown in Periyapatna taluk.

Fifth Ranking Crops:

During 2002-03 three crops are cultivated in study region they are Oilseeds grown in H D Kote, Hunsur, Nanjangud, and Periyapatna taluk. Sugarcane is grown in K R Nagar, and T Narasipura taluk, and Jowar grown in Mysore taluk in the study region. whereas in 2012-13 Sugarcane is grown in H D Kote, Mysore, Nanjangud and T Narasipura taluk, Ragi grown in Hunsur, and K R Nagar taluk, Pulses are grown in Periyapatna taluk. During 2017-18 Paddy grown in three taluks i.e., H D Kote, Hunsur and Periyapatna taluk, Maize grown in K R Nagar, Oilseeds grown in Mysore and T Narasipura taluk, Fruits grown in one taluk i.e., Nanjangud taluk.

Sixth Ranking Crops:

There are five crops are grown as sixth ranking crop in the study region during 2002-03. They are Fruits cultivated in H D Kote and T Narasipura taluk, Maize cultivated in Hunsur taluk, Vegetables cultivated in K R Nagar taluk, and Cotton cultivated in Mysore and Periyapatna taluk, Ragi cultivated in Nanjangud taluk. During 2012-13 Tobacco cultivated in H D Kote, Fruits cultivated in Hunsur, Mysore and Periyapatna taluk, Sugarcane cultivated in K R Nagar, Oilseeds cultivated in Nanjangud taluk. Whereas in the period 2017-18 Fruits cultivated in three taluks i.e., H D Kote, Periyapatna and T Narasipura taluk, Oilseeds

cultivated in Hunsur, Vegetables cultivated in in three taluks i.e., K R Nagar, Mysore and Nanjangud taluk.

Seventh Ranking Crops:

In 2002-03 Fruits, Sugarcane and Jowar crops are cultivated as seventh ranking crops in the study region i.e., Sugarcane in H D Kote and Nanjangud taluk, Jowar grown in T Narasipura taluk, Fruits grown in Hunsur, Mysore and Periyapatna, Cotton grown in K R Nagar taluk.

During 2012-13 Fruits grown in H D Kote and T Narasipura, Oilseeds cultivated in Hunsur, Vegetables cultivated in K R Nagar, and Periyapatna, Cotton grown in Mysore taluk, Maize grown in Nanjangud taluk.

During 2017-18 period Tobacco grown in H D Kote , Fruits grown in Hunsur, K R Nagar and Mysore taluk, Sugarcane grown in Nanjangud and T Narasipura taluk, Vegetables grown in Periyapatna taluk.

Eighth Ranking Crops:

During 2002-03 Vegetables cultivated in four taluk viz. H D Kote, Mysore, Periyapatna and T Narasipura taluk, Sugarcane cultivated in Hunsur, Jowar cultivated in K R Nagar and Fruits cultivated in Nanjangud taluk,.But in the period 2012-13 some these crops were replaced in different taluk. they are Maize cultivated in H D Kote and K R Nagar taluk, Vegetables cultivated in K R Nagar, and Periyapatna taluk, Oilseeds cultivated in Mysore taluk, Fruits cultivated in Nanjangud taluk. During 2017-18 Oilseeds cultivated in H D Kote, K R Nagar and Periyapatna taluk, Cotton cultivated in Hunsur, Maize cultivated in Mysore, Ragi cultivated in Nanjangud, Vegetables cultivated in T Narasipura taluk.

Ninth Ranking Crop:

In 2002-03 period Jowar grown in H D Kote, and Hunsur, Fruits grown in K R Nagar, Sugarcane grown in Mysore and Periyapatna taluk, Vegetables grown in Nanjangud taluk, Maize grown in T Narasipura taluk.

In 2012-13 period Oilseeds grown in H D Kote, Cotton grown in Hunsur taluk, Fruits grown in K R Nagar, Jowar grown in Mysore, Periyapatna and T Narasipura taluk, Ragi grown in Nanjangud taluk.

During 2017-18 Vegetables grown in H D Kote and Hunsur taluk, Sugarcane grown in K R Nagar and Mysore taluk, Maize grown in Nanjangud and Jowar grown in Periyapatna taluk, Cotton grown in T Narasipura taluk.

Tenth Ranking Crop:

During 2002-03 Maize grown in four taluk i.e., H D Kote, K R Nagar, Mysore, and Nanjangud taluk, Vegetables grown in Hunsur, Jowar grown in Periyapatna, Cotton grown in T Narasipura taluk. In 2012-13 period Vegetables grown in H D Kote, and Nanjangud taluk, Sugarcane grown in Hunsur taluk, Jowar grown in K R Nagar, Maize grown in Mysore, Vegetables grown in Nanjangud taluk, Oilseeds grown in Periyapatna taluk and Cotton grown in T Narasipura taluk. During 2017-18 Sugarcane grown in H D Kote, Jowar grown in Hunsur, K R Nagar, Mysore and T Narasipura taluk, Oilseeds grown in Nanjangud, and Cotton grown in Periyapatna taluk

Eleventh Ranking Crop:

During 2002-03 Tobacco crop has been grown in the eleventh position in all the taluks of the district. But in 2012-13 Jowar has cultivated in H D Kote, and Hunsur, Cotton cultivated in K R Nagar and Periyapatna, Tobacco cultivated in three taluks i.e., Mysore, Nanjangud, and T Narasipura taluk. During 2017-18 Jowar cultivated in H D Kote, Sugarcane cultivated in Hunsur and Periyapatna, Cotton cultivated in K R Nagar, Tobacco cultivated in three taluks i.e., Mysore, Nanjangud, and T Narasipura taluk.

Figure No 2: Ranking of Crops in Mysore District

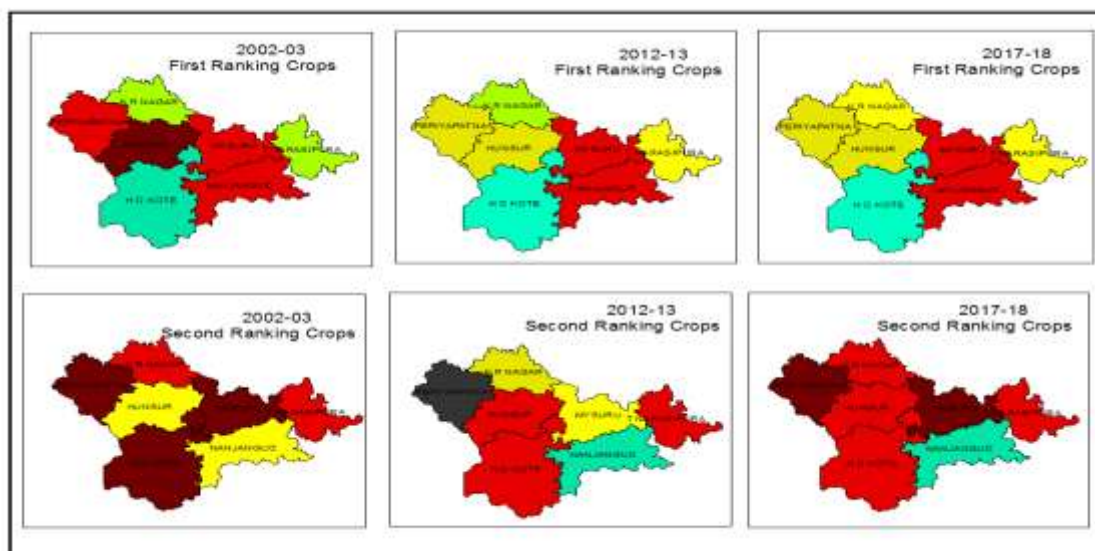


Figure No 2.1: Ranking of Crops in Mysore District

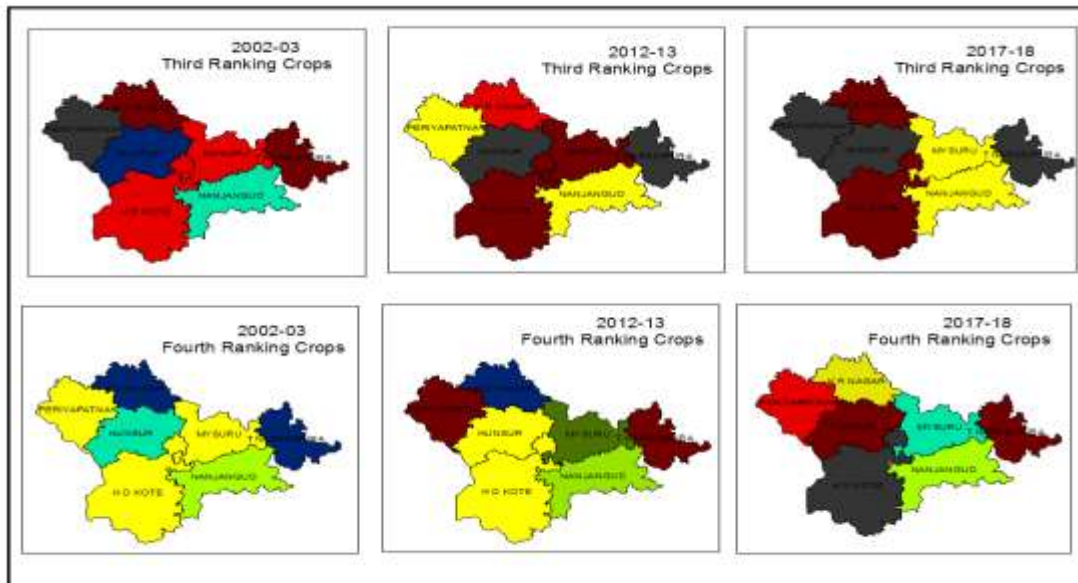


Figure No 3.2: Ranking of Crops in Mysore District

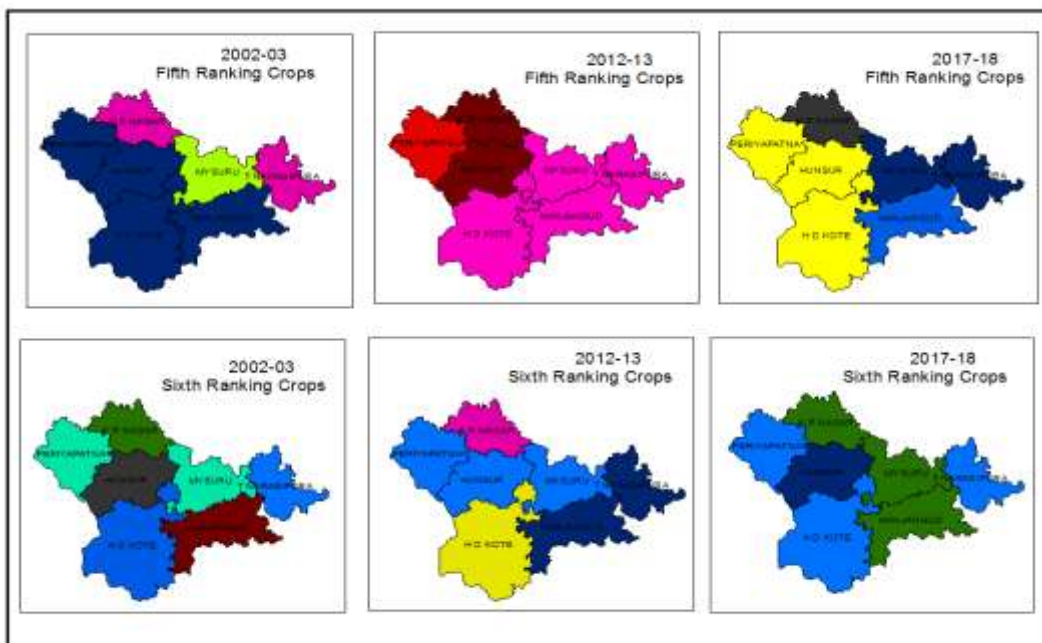


Figure No 3.3: Ranking of Crops in Mysore District

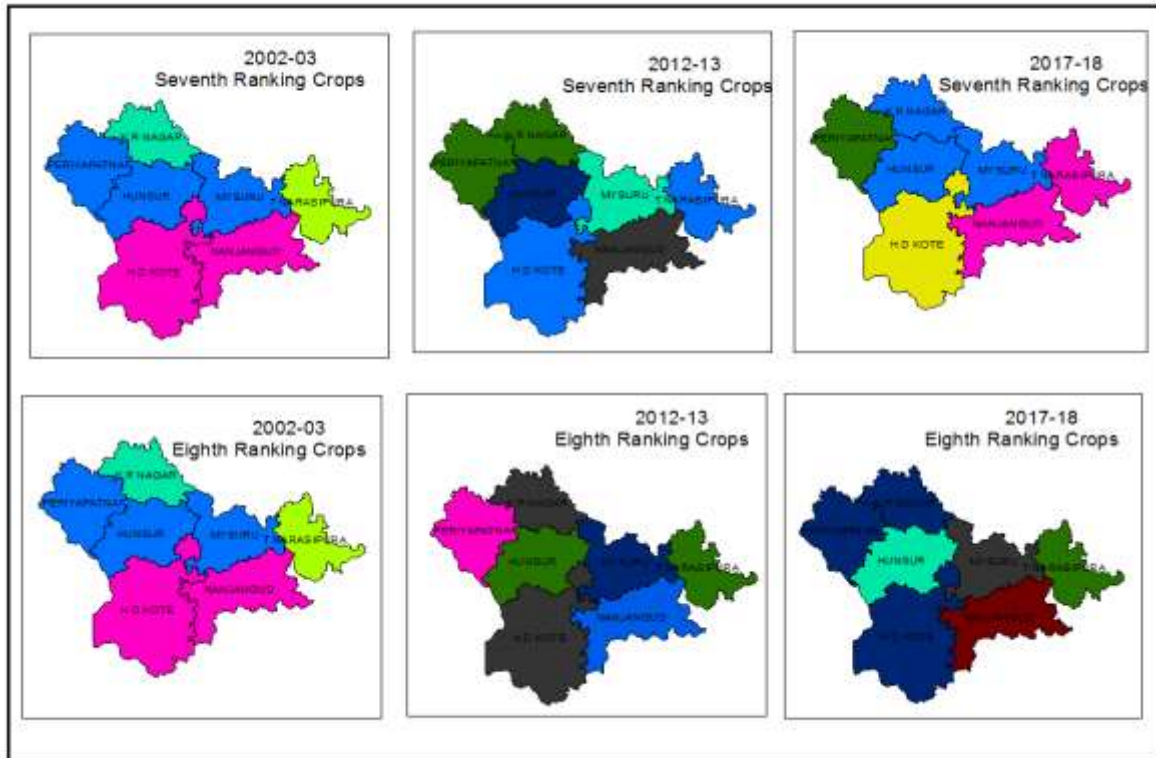


Figure No 3.4: Ranking of Crops in Mysore District

2. Conclusion:

Over all Crop Ranking is analysed in all taluks of Mysuru District and mainly Pulses has been cultivated as 1st Ranking Crop in Mysore, Nanjangudu, Priyapatana in the year 2002-2003, Paddy has been cultivated as 1st Ranking crop in T N Pura, and K R Nagara and Ragi in Hunsur Taluk, Cotton in H D Kote Taluk in the same year. There are lots of changes in cultivation in the year 2012-2013. As analysed Hunsuru and Priyapatna changed their cultivation to Tobacco hence there is a change in Crop Ranking in this particular Taluks. And as per secondary data there are no changes in 1st Crop Ranking in the year 2017-2018 but second, Third and the next rankings crops intermixed by Ragi, maize, paddy, fruits, vegetables, oil seeds and cotton in all the Taluks. Tobacco claims a 11th Crop rank from 2002-2017 in Mysore, Nanjangud and T N Pura Taluks.

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