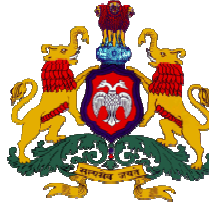


No. DES. 13/2021



GOVERNMENT OF KARNATAKA

INPUT SURVEY 2016-17

REPORT ON INPUT SURVEY IN KARNATAKA

**Directorate of Economics & Statistics
&
State Agricultural Census Commissioner
Bengaluru**

February 2021

PREFACE

The Ninth Input Survey with 2016-17 as reference year is an integral part of Agricultural Census 2015-16 is carried out in Karnataka and throughout the country at an interval of every 5 years.

Seven percent of total number of villages in the state were selected and surveyed to capture the data on number of parcels, multiple cropping consumption or application of chemical fertilizers, organic manures, agricultural implements and machinery, availment of agricultural credit and usage of seeds and its problems encountered. The report covers the Introduction, Survey Findings and State & District wise analysis, followed by Annexures with relevant table for reference. I would express my gratitude to Government of India, Ministry of Agriculture and farmer welfare, New Delhi. for their technical guidance and financial assistance provided to undertake this survey. I would also express my sincere gratitude to Revenue Department, Deputy Commissioners of the districts for their continued support in conducting the survey. I thank the District Statistical Officers and their staff for their active involvement in successful completion of the survey work.

Finally, I wish to express my appreciation to Sri. Rajanna M., Joint Director, Sri. Govinda Rao T. S., Joint Director (Retired), Sri. Honnaraju G., Deputy Director, Smt. Premadevi D., Assistant Director for analysing and report writing with able assistance of Smt. Dr. Kusuma K. M., Assistant Statistical Officer, Sri. Ramesh K.V., Assistant Statistical Officer (Retired).

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Director and

State Agriculture Census Commissioner
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Place: Bengaluru
Date: 02-02-2021

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CHAPTER – I

INTRODUCTION

1. Introduction:-

1.1 Agriculture continues to be the mainstay of the State and country both. The planning and execution of programmes aimed at the development of agriculture often has the setback due to inadequacy of comprehensive data on various agronomical practices adopted in various size classes of holdings and has resulted in exploring possibilities of further improvement in the contents and coverage of Agricultural statistics. In this context, Input Survey was undertaken as an adjunct to the Agricultural Census in the country, which assumes much more importance. The results of Input Survey throws light on the usage of inputs according to the size classes of holdings, in accordance with the Agricultural policies aimed at significant growth with justice to farming communities.

1.2 The First Census of Agricultural Holdings or otherwise referred to, as "Agricultural Census" was conducted in Karnataka as well as in other states of the country; with the Agricultural year 1970-71 as the reference period. The coverage in this census was confined to number and size of operational holdings, ownership status, land use particulars, area irrigated under different crops by sources of irrigation and cropping pattern. The National Commission on Agriculture, as early as in 1976 recommended for the collection of data on usage of improved variety of seeds, application of various inputs, plant protection methods, utility of Agricultural implements etc., as an integral part of Agricultural Census. The availability of such data would certainly help in chalking out various plans aimed at increasing the productivity as well as educating the farmers, especially the under privileged viz., Marginal and Small farmers, about the advanced technology in Agricultural practices. In this context, conducting Input Survey has become an integral part of Agricultural Census.

1.3 The First Input Survey was conducted along with the Second Agricultural Census, with Agricultural year 1976-77 as the reference year. The objective of the survey was to collect the data on multiple cropping, application of fertilizers and manures, inventory of Agricultural machinery and implements etc. Since the sample size adopted during 1976-77 for the collection of data on inputs was meager i.e., 2 percent of the total villages, As such, reliable estimates could be obtained only for the state as a whole, rather than for a smaller geographical areas in the State.

1.4 The Second Input Survey was undertaken as an adjunct to the Third Agricultural Census, as a part of all India programme. The reference period for the Second Input Survey

was Agricultural year 1981-82, as an integral part of Third Agricultural Census 1980-81. This Input Survey had a sample size of 7 percent of the total number of villages and the survey report was published in 1990.

1.5 The Third Input Survey was undertaken as an adjunct to the Fourth Agricultural Census, as a part of all India programme. But the reference period for the Third Input Survey was Agricultural year 1986-87, as a follow up of Fourth Agricultural Census 1985-86. This Survey was conducted with a sample size of 7 per cent of the total number of villages and the survey report was published in 1992.

1.6 The Fourth Input Survey was conducted in the Agricultural year 1991-92 as a reference period and as an integral part of the Fifth Agricultural Census 1990-91 and the survey report was published in 2000.

1.7 The Fifth Input Survey was conducted in the Agricultural year 1996-97 as a reference period and as an integral part of the Sixth Agricultural Census 1995-96 and the survey report was published in 2004.

1.8 The Sixth Input Survey was conducted in the Agricultural year 2001-02 as a reference period and as an integral part of the Seventh Agricultural Census 2000-01 and the survey report was published in November 2007.

1.9 The Seventh Input Survey was conducted in the Agricultural year 2006-07 as a reference period and as an integral part of the Eighth Agricultural Census 2005-06 and the survey report was published in September 2012.

2.0 The Eighth Input Survey was conducted in the Agricultural year 2011-12 as a reference period and as an integral part of the Ninth Agricultural Census 2010-11 and the survey report was published in March 2016.

2. Input Survey 2016-17

(i) Reference Period:-

2.1 The Ninth Input Survey was conducted in the Agricultural year 2016-17 as a reference period and as an integral part of the Tenth Agricultural Census 2015-16

(ii) Coverage:-

2.2 The coverage in this survey is similar with that of Input Survey conducted during 2016-17. However the items covered in the survey are listed below:

i)	Dispersal of parcels of land
ii)	Extent of multiple cropping in irrigated and Un-irrigated areas
iii)	Usage of chemical fertilizers, organic manures and pesticides in irrigated and Un-irrigated areas
iv)	Inventory of Agricultural machinery and implements
v)	Agricultural credit
vi)	Usage of seeds and its problems encountered
vii)	Soil testing

The data on cropped area, application of chemical fertilizers, organic manures and usage of pesticides was required to be collected for important selected crops in the State and as well as for all crops. The selected crops covered for Input survey 2016-17 were (i) Paddy, (ii) Jowar, (iii) Ragi, (iv) Tur, (v) Sugarcane, (vi) Onion, (vii) Banana, (viii) Cardamom, (ix) Groundnut, (x) Coconut, (xi) Cotton and (xii) Coffee.

(iii) Sampling Design and Sample Size:-

2.3 The sampling design adopted for the Input Survey 2016-17 is the two stage sampling, with village as the sampling unit at the first stage and the operational holding as the ultimate sampling unit at the second stage. Each taluk constituted the stratum. The number of villages covered for the Input Survey is 7 percent of the total number of villages in the State which were selected randomly under Timely Reporting Scheme in each taluk during the Agricultural census year 2015-16. In each selected village, all operational holdings are classified into five stratum (size classes) viz. (i) Below 0.99 ha, ii) 1.00 to 1.99 ha, (iii) 2.0 to 3.99 ha, (iv) 4.0 to 9.99 ha and (v) 10.0 ha and above. From each stratum (size class), four operational holdings are selected for collection of data on inputs. In the event where the number of holdings in a particular size class is four or less, all the holdings in that stratum are selected. The number of villages selected in each district for the Input Survey 2016-17 are furnished below:

Sl. No.	Districts	Total Villages	No. of Villages Selected
1	Belagavi	1173	82
2	Bagalkote	602	42
3	Vijayapura	651	46
4	Kalaburagi	925	65
5	Bidar	632	44
6	Raichur	884	62
7	Koppal	630	44
8	Gadag	327	23
9	Dharwad	397	28
10	Uttara Kannada	1346	94
11	Haveri	692	48
12	Ballari	551	39
13	Chitradurga	1063	74
14	Davanagere	933	65
15	Shivamogga	1621	113
16	Udupi	267	19
17	Chikkamagaluru	1122	79
18	Tumakuru	2730	191
19	Kolar	1798	126
20	Bengaluru Urban	699	49
21	Bengaluru Rural	1066	75
22	Mandya	1480	104
23	Hassan	2569	180
24	Dakshina Kannada	422	30
25	Kodagu	276	19
26	Mysuru	1362	95
27	Chamarajanagar	456	32
28	Ramanagara	824	58
29	Chikkaballapur	1514	106
30	Yadgir	509	36
	Total	29521	2066

(iv) Concepts and Definitions:-

2.4 The concepts and definitions adopted for this survey are the same as those adopted in the Input Survey of 2015-16 and are given in the Chapter-II of this report.

(v) Training:-

2.5 Training is an essential activity for undertaking/conducting any survey. The training programme of Input Survey 2016-17 was organized at State Headquarters in two stages. In the first stage, the training was provided to District Statistical Officer and one Assistant Statistical Officer. The District Statistical Officers in turn imparted training to the field and supervisory staff at the district headquarters.

(vi) Field Work and Supervision:-

2.6 The fieldwork of Input Survey was entrusted to the statistical staff attached to the District Statistical Office in each district and Statistical Inspectors/Progress Assistants of Taluk Panchayath Offices in each taluk. The supervision of the field work was carried out by the District Statistical Officers, Assistant Directors and Assistant Statistical Officers of the district office and Joint Director, Agricultural Census and staff attached to the office of State Agricultural Census Commissioner.

(vii) Methodology:-

2.7 A minimum of 20 operational holders at the rate of 4 operational holders in each of the major five-size classes of holdings from each of the selected villages are required before collecting the field data for input survey. For this purpose, a sample frame of operational holders was prepared taking the list of resident operational holders for the Agricultural Census 2015-16 in Schedule L1. However, this list of operational holders was updated for the Agricultural census year 2015-16 taking into account the changes that have taken place due to sale of land, division of holdings, allotment of land to landless persons etc. The help of the Village Accountant was availed by the field staff, while updating the list of operational holders in the selected villages.

2.8 Since the field work of the survey was to be carried out during the Agricultural Census year 2016-17, covering both Kharif and Rabi/summer season crops, the list of operational holders (i.e., the sample frame) was updated taking into consideration the mutations that have taken place after listing the operational holders for both Kharif and Rabi/summer seasons in one go for the reference period. The field visit was conducted by the staff soon after completion of both Kharif and Rabi/summer seasons and information relating to dispersal of parcels in the holding, use of chemical fertilizers, organic manures, pesticides, type of seeds used, information on multiple cropping in irrigated and Un-irrigated

areas, Agricultural machinery and implements, Agricultural credit and area covered under soil test were gathered.

(viii) Schedules:-

2.9 In all, two listing schedules and seven operational holding schedules are used to obtain the data required for Input Survey, 2016-17. The details of such schedules are given below:

a) Schedule L-1:- List of operational holdings:-

2.10 The list of operational holdings prepared for Agricultural Census, 2015-16 in schedule L1 is adopted for the purpose of sample frame in Input Survey and the list was updated for the year 2016-17 keeping in view, the mutations in the ownership status and related changes in the operational holdings.

b) Schedule 1.0:- List of operational holdings in the Sample Village and Sample Selection:-

2.11 Based on updated L1 schedule, four operational holders were selected at random in each stratum (size class). Thus, the selected 20 operational holders was listed in the schedule.

c) Schedule 2.0:- Identification particulars and classificatory characteristics of the operational holder:-

2.12 This schedule is designed as blocks. The identification particulars of the selected operational holders were recorded in Block-A. The classificatory characteristics, such as, dispersal of parcels in the holding, extent of area operated and status of the holding was recorded in Block - B.

d) Schedule 2.1:- Parcel wise details of area under multiple cropping according to irrigated and Un-irrigated conditions of the operational holdings during 2016-17 are recorded in the schedule.

2.13 This schedule is meant for recording parcel wise area under multiple cropping, separately for irrigated and Un-irrigated areas within the experimental holding:

e) Schedule 2.2:- Area under irrigated/Un-irrigated crops and use of chemical fertilizers, manures, pesticides etc., during the Agricultural year 2016-17

2.14 In this schedule, irrigated/Un-irrigated area under selected crops as well as all crops in the holding and crop wise area treated with chemical fertilizers, organic manures, farm yard manures, pesticides and quantity applied were recorded:

f) Schedule 2.3:-

2.15 In this Schedule, data on inventory of Agricultural machinery and implements owned and used by operational holders during the year 2016-17 was collected.

g) Schedule 2.4:-

2.16 In this schedule, data on credit availed by the farmers for the purpose of Agricultural activities during the year 2016-17 was collected. However, the credit availed confined to only financial institutions.

h) Schedule 2.5:-

2.17 In this schedule, data on seeds used, package of practices recommended under integrated pest management and soil testing done for the purpose of Agricultural activities during the year 2016-17 was collected.

ix) Data Processing:-

2.18 The data contained in the filled in schedules obtained from the field staff was scrutinized at both district and state level. The work of data entry was entrusted to the private agency. The data preparation, and transfer of data to Government of India for generation of Tables was undertaken in the Computer Centre of the State Agricultural Census Commissioner's office (i.e., Directorate of Economics & Statistics) and further the data validation and the generation of output Tables were undertaken by Government of India.

Tables prepared:-

2.19 Ten sets of main tables (State & District wise) were generated for Input Survey 2016-17 and the details are furnished below:

Sl. No.	Table No.	Title
1.	1.1	Distribution of estimated number and area of operational holdings by major size class.
2.	2.1 & 2.2	Distribution of number of parcels, average number of parcel per holding by major size group and average area per parcel. Percentage distribution of number of parcels in different size groups by dispersal.
3.	3.1 to 3.6	Percentage distribution of net area sown cropped once and more than once under irrigated and Un-irrigated conditions. Intensity of cropping in irrigated and Un-irrigated area in different size group of holdings according to multiple cropping.
4.	4.1	Percentage distribution of area under selected crops to gross cropped area by major size groups.
5.	4.2 to 4.14	Percentage distribution of area under selected crops to gross cropped area and area under High Yield Variety (HYV) of selected crop by irrigation status in major size groups.
6.	5.1 & 5.2	Percentage of number and area of operational holdings under all crops treated with chemical fertilizers, Farm Yard Manure and Pesticides by major size groups.
7.	5.3 to 5.13	Percentage of area under selected crops treated with chemical fertilizers, Farm Yard Manure and Pesticides by major size groups.
8.	6.1	Percentage of plant nutrients applied to all crops by major size groups.
9.	6.2 to 6.12	Percentage of plant nutrients applied to selected crops by irrigation status, in major size groups of holdings.

Sl. No.	Table No.	Title
10.	7.1	Application of plant nutrients to all crops by irrigation status.
11.	7.2 to 7.12	Application of plant nutrients to selected crops by irrigation status.
12.	7.13 to 7.17	Rate of application of Farm Yard Manure, Oil cakes, Other organic Manures, Green manure and Rhizobium under selected crops and all crops by irrigation status by major size group of holdings.
13.	8.1 to 8.4	Number of Agricultural implements used individually per 100 operational holdings.
14.	8.5 to 8.10	Number of Agricultural implements used per 100 hectare of area operated.
15.	9.1	Percentage number of operational holders who availed credit from co-operative and other institutions.
16	9.2	Distribution of operational holders who availed credit from co-operative and other institutions.
17	9.3	Percentage of number of operational holders who availed credit from different sources.
18.	9.4	Estimated amount of credit availed from different sources.
19	9.5	Distribution of short term loans in terms of value of quantity of fertilizers and other inputs.
20.	10.1	Percentage number of operational holdings who availed credit and the amount of credit availed by districts
21.	10.2	Amount of credit availed by operational holders from different sources by districts.
22.	10.3	Distribution of short term loan in terms of value of quantity of fertilizers and other inputs by districts.

Estimation Procedure:-

2.20 In order to estimate the totals for various characteristics "The simple unbiased estimation" method was adopted. The detail of the estimation procedure is as follows:

The notations used:

- | | | | |
|---|----------------|---|--|
| 1 | Y_{ijp} | - | Value of characteristic in the p^{th} holding of j^{th} village of the i^{th} taluk (stratum) in a particular size class. |
| 2 | $N_{ij(k)}$ | - | Total number of holdings in the k^{th} size class in the j^{th} selected village of the i^{th} taluk. |
| 3 | N_i | - | Total number of villages in the i^{th} taluk. |
| 4 | n_i | - | Number of villages selected in the i^{th} taluk for collection of Data on inputs. |
| 5 | $\hat{y}_T(k)$ | - | Estimate of the characteristic under study for the i^{th} taluk in k^{th} size class. |
| 6 | $\hat{y}_D(k)$ | - | Estimate of the characteristic under study for the district in k^{th} size class. |
| 7 | M | - | Number of taluks in the district. |

Then the estimate of the characteristic under study for the i^{th} taluk (i.e. stratum) in the k^{th} size class is given by the formula viz:

$$\hat{Y}_T(k) = \frac{N_i}{n_i} \sum_{j=1}^{n_i} \frac{N_{ij(k)}}{n_{ij(k)}} \sum_{p=1}^{n_{ij(k)}} y_{ijp}$$

$$\hat{Y}_D(k) = \sum_{i=1}^M \frac{N_i}{n_i} \sum_{j=1}^{n_i} \frac{N_{ij(k)}}{n_{ij(k)}} \sum_{p=1}^{n_{ij(k)}} y_{ijp} = \sum_{i=1}^M \hat{Y}_T(k)$$

The sampling error for the characteristic under study for the district is given by the formula;

$$\hat{V}[\hat{Y}_D(k)] = \sum_{i=1}^M \frac{N_i(N_i - n_i)}{n_i(n_i - 1)} \sum_{j=1}^{n_i} (y_{ij} - \bar{y}_i)^2$$

Where,

$$Y_{ij} = \frac{N_{ij}(k)}{n_{ij}(k)} \sum_{p=1}^{n_{ij}(k)} Y_{ijp} \quad \& \quad \bar{y}_i = \frac{1}{n_i} \sum_{j=1}^{n_i} Y_{ij}$$

Limitations of Data Collected Under Input Survey:-

- 1) Oral enquiry method has been adopted for eliciting information about various characteristics of holding from the selected Cultivators (operational holders) in the Input Survey 2016-17. Hence, the estimates worked out for various inputs and other characteristics of holding in the Input Survey may not strictly be comparable with the statistics available from other sources.
 - 2) Since the number of crops covered under the survey is restricted to only thirteen, several other crops which were considered to be less important are ignored.
 - 3) Data on Agricultural implements and equipments collected in the survey is pertaining to the usage in the operational holdings rather than the ownership.
 - 4) Institutional holdings were out of the scope of this survey.
-

CHAPTER – II

CONCEPTS AND DEFINITIONS

1. Operational Holdings:-

1.1 The operational holding is defined as “All land which is used wholly or partly for Agricultural production and is operated as one technical unit by one person alone or with others, without regard to the title, legal form, size or location.” The technical unit is defined as “The unit which is under the same management and has the same means of production such as labour force, machinery and animals.” Thus the actual Cultivator is the unit for collection of data for Agricultural Census/Input Survey and not the owner.

1.2 An operational holding would include both cultivated and uncultivated area. A part of it is put to Agricultural production during the reference period. For example, an operational holding consists of four survey numbers out of which one survey number is put to non-Agricultural uses. The total area of the operational holding would be equal to the total geographical area of the four survey numbers. The holding will exclude Government Forest land, Government waste land and village common grazing land. If Government wasteland is allotted to an individual then it will be included in the holding.

1.3 If all the survey numbers of an operational holding are put to non-Agricultural uses, then it will not be considered for the purpose of Agricultural Census/Input Survey. ‘Abadi Area’ (Residential Area) is also excluded from the total area of the holding.

1.4 During the reference year, if the entire area of the operational holding is under current fallow, this would still be considered as an Operational Holding. If the entire area of the holding is under other fallow then it will not be considered as an operational holding.

1.5 In certain cases the land is divided among all the members of the family, where, it is divided between the husband, wife and minor children and the cultivation is being done by the husband as the head of the family, the land may appropriately be treated as one operational holding.

1.6 There might be some cases in the records where, a holding is shown jointly in the name of more than one co-sharer, while in fact the land may have been privately divided and the co-sharers are independently cultivating. If there is no dispute they should be treated as many operational holdings as the number of independent Cultivators.

1.7 In the RTC register against a Khatha some States, names of three or four persons are shown. While from the records it would appear that there is only one holding, in practice and all the three or four brothers are actually cultivating the land independently of each other although there is no legal partition of land. From the census point of view, this would constitute three or four operational holdings.

1.8 For cultivated areas in the State forests, no detailed land records are prepared. In the absence of the land records and revenue agency such areas are excluded for census purposes. If it is included in the land records, it will be included in Agriculture Census also.

2. Agricultural Production:-

2.1 For census purposes, Agricultural Production includes the growing of field crops, fruits, grapes, nuts, seeds, tree nurseries (except those of forest trees), bulbs, vegetables and flowers, production of Coffee, tea, cocoa, rubber, jute, oilseeds, fodder, grasses, etc.

2.2 Wherever special efforts are made to raise grass, then grass should be treated as a crop for Agricultural Census purposes.

3. Total Area of the Operational Holding:-

3.1 The total area of the operational holding should include the total of all land forming part of a unit, which is under the same technical responsibility and management. It should also comprise the land occupied by the farm buildings including the house of the holder, provided such buildings are within the cultivated area. If the farm buildings are located outside the cultivated area and are covered under Abadi Area such buildings will not be included in the area of the holding.

4. Holder or the Operator:-

4.1 The holder, for census purposes, is the person who has the responsibility for the operation of the Agricultural holding. He exercises the technical initiative for the operation of the holding and may have full economic responsibility (i.e. an owner) for it or share this with others (as a tenant). When two or more persons share jointly (as partners) in the economic and technical responsibility for the operation of an Agricultural holding, each is to be considered as the holder if they belong to different households.

4.2 All the Cultivators residing in a particular village cultivating some land are "resident Cultivators" of that village irrespective of the fact whether they are cultivating land within that village or outside. A resident Cultivator may have (i) entire area of the holding located in the village of his residence; (ii) partly within the village of residence and partly outside; and (iii) entirely outside the village of residence.

5. Complete/Part Holding:-

5.1 A holding may consist of one or more than one parcel of land. All the parcels of land of a holding may be situated in one village or villages. A holding is said to be a complete holding, if all the parcels of land of that holding are in the same village. If any parcel of land of a holding is outside the village then it is considered as part holding.

6. Individual/Joint Holding:-

6.1 If the holding under study is being operated either by one person alone or by a group of persons being members of the same household, the holding is said to be 'Individual'. If two or more persons belonging to different households share jointly (as partners) in the economic and technical responsibility for the operation of an Agricultural holding, the holding is said to be 'Joint'.

7. Parcel:-

7.1 A parcel is a land which is entirely surrounded by land of other holdings or by land not forming part of any holding. It may consist of one or more cadastral units, plots or fields.

8. Ownership Status:-

Land Owned and Self Operated:-

Land Owned:-

8.1 A person is considered to own a piece of land if he has the right of permanent heritable possession over it. Land held under owner like possession is also considered as owned. Owner like possessions include (i) land held from Government or others under a grant or lease or assignment with right of transfer, and (ii) land operated under perpetual lease.

Self Operated:-

8.2 This term refers to the operated area, part of which may be uncultivated also. In some cases, the entire land owned may not be under cultivation in the reference year. A part of holding may be cultivated and a part may be kept fallow or uncultivated for some reason or the other. In all such cases the entire extent of land should be taken into account. The modes of farming may be (i) self-cultivation, (ii) Cultivator getting the land cultivated through members of the family and (iii) owned but cultivated with the help of hired labour.

Area Operated Otherwise:-

8.3 This will include all encroached land or occupied in an unauthorized way and being cultivated by the operator.

Total Operated Area:-

8.4 Total operated area of the operational holding is (1) area owned and self-operated and (2) area operated otherwise.

9. Land Utilization:-

9.1 The area under operational holding is to be classified into three categories according to the utilization of land. The categories under which the classification is to be given are:

- i. Net area sown
- ii. Area under Current fallow
- iii. Uncultivated area

(i) Net Area Sown:-

9.2 This should represent the total area sown with crops and orchards counting area sown more than once in the same year only once.

(ii) Area under Current Fallow:-

9.3 This should represent cropped areas, which are kept fallow during the current year. For example, if any seedling area is not cropped in the same year, it may be treated as current fallow.

(iii) Uncultivated Area:-

9.4 This would include the following five categories:

(a) Permanent pastures and other grazing land:-

9.5 This should include all grazing lands, whether they are permanent pastures and meadows or not. Village common grazing land shall be excluded for the purpose of Agriculture Census.

(b) Land under miscellaneous tree crops:-

9.6 This would include cultivable land which is not included in the net area sown but put to some Agricultural bushes and other groves for fuel, etc., which are not included under

'Orchards' should be classified under this category. Such type of lands outside the holdings will not be included.

(c) Forests:-

9.7 This should include all lands classified as 'Forests' under any legal enactment dealing with forests or administered as forests, whether state owned or private. Area of crops raised in the forests and grazing lands or areas open for grazing within the forests should remain included under the forest area.

Only private forests would be covered for the purposes of Agricultural Census and Input Survey.

(d) Area under non-Agricultural use:-

9.8 This should include all lands occupied by buildings and other lands put to uses for other than agriculture, within the holdings.

(e) Barren and uncultivated land:-

9.9 This should include all barren and uncultivable land within cultivated holdings.

10. Institutional Holdings:-

Holdings like Government Farms, Sugarcane Factories, Co-operative Farms, Temple lands managed by Trust through hired labour are to be treated as Institutional Holdings; these will not be covered in Input Survey. If Temple lands are leased out to individuals then they are considered as individual holdings.

CHAPTER – III

STATE LEVEL MAIN FINDINGS OF THE

INPUT SURVEY 2016-17

1.0 Number and Area of operational holdings:-

1.1 The number of operational holdings and area operated in different size classes in the state as estimated in Input Survey 2016-17 are as follows:

Size Class	Number of operational holdings (No. in '000s)	Area under operational holdings in (area in '000ha)
Marginal (Below 0.99 ha)	4758	2196
	(3843)	(1875)
Small (1.0 – 1.99 ha)	2210	3064
	(2136)	(3081)
Semi-medium (2.0 – 3.99 ha)	1190	3195
	(1265)	(3451)
Medium (4.0 – 9.99 ha)	450	2538
	(509)	(2902)
Large (10.0 ha & above)	54	761
	(66)	(900)
All Sizes	8662	11754
	(7819)	(12209)

Note: - Figures in brackets are as per Input Survey 2011-12.

1.2 The number of operational holdings estimated in the Input Survey, 2016-17 increased by 10.8% over that of 2011-12 survey. Among five size classes of holdings, marginal holdings registered the highest increase of 23.8% and the highest decrease (-18.1%) was observed among the large holdings. (Table 1.1)

1.3 The estimated area under operational holdings is decreased by -3.7% during 2016-17 over that of 2011-12. The highest increase of 17.1% in operated area was recorded in the case of marginal holdings and highest decrease in the large holdings was contributed for -15.5%. (Table 1.1)

Table 1.1
Distribution of Estimated Number and Area of Operational Holdings
by major size group, 2016-17

Category of holdings and Size classes	(No. in 000's)		% Variation	(Area in 000'ha.)		Variation
	No. of operational holdings			Area under operational holdings		
	2011-12*	2016-17*		2011-12*	2016-17*	
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	3842	4757	23.80	1875	2196	17.11
	(49.1)	(54.9)		(15.4)	(18.7)	
Small (1.00 to 1.99ha)	2136	2210	3.48	3081	3064	-0.56
	(27.3)	(25.5)		(25.2)	(26.1)	
Semi Medium (2.00 to 3.99ha)	1265	1190	-5.92	3450	3195	-7.40
	(16.2)	(13.7)		(28.3)	(27.2)	
Medium (4.00 to 9.99ha)	509	449	-11.74	2901	2537	-12.55
	(6.5)	(5.2)		(23.8)	(21.6)	
Large (10.00ha & above)	66	54	-18.08	900	760	-15.50
	(0.8)	(0.6)		(7.4)	(6.5)	
All Size Classes	7819	8661	10.77	12209	11753	-3.73
	(100.0)	(100.0)		(100.0)	(100.0)	

Note: Figures in brackets are percentages to respective column totals.

* Indicates exclusive of institutional holdings and area

2.0 Dispersal of parcels:-

2.1 The marginal holdings accounted for the highest share (46.7%) in the total number of parcels during 2016-17. The distribution pattern of parcels exhibited a declining trend, as the size class increased. (Table 2.1)

2.2 The average number of parcels per holding which was estimated at 2 for all size groups in 2011-12 survey has remained same during 2016-17. (Table 2.1)

2.3 The average number of parcels per holding is the lowest (1 parcel/holding) in the marginal holdings and the highest with equal (4 parcels/holding) in the large holdings during 2016-17. (Table 2.1)

2.4 The average area per parcel which was 1.56 ha in 2011-12 and decreased to 1.36 ha in 2016-17. (Table 2.1)

2.5 The average area per parcel in 2016-17 is the lowest (0.46 ha) in the marginal holdings and the highest (14.01 ha) in the large holdings. The average area per parcel in other size groups viz. Small, semi-medium and medium holdings is 1.39 ha, 2.68 ha and 5.65 ha respectively. (Table 2.1)

Table 2.1

Distribution of Number of parcels, average No. of parcels per holdings and Average area per parcel by major size group, 2016-17

Category of holdings and Size classes	(No. in 000's)		(Area in 000'ha.)			
	No. of parcels per holdings		Average No. of parcels per holdings		Average Area per parcel (ha.) holdings	
	2011-12	2016-17	2011-12	2016-17	2011-12	2016-17
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	5153638	6366942	1	1	0.49	0.46
	(38.3)	(46.7)				
Small (1.00 to 1.99ha)	3641134	3605148	2	2	1.44	1.39
	(27.0)	(26.5)				
Semi Medium (2.00 to 3.99ha)	2823262	2347001	2	2	2.73	2.68
	(21.0)	(17.2)				
Medium (4.00 to 9.99ha)	1559031	1125268	3	3	5.70	5.65
	(11.6)	(8.3)				
Large (10.00ha & above)	284598	184182	4	3	13.58	14.01
	(2.1)	(1.4)				
All Size Classes	13461663	13628541	2	2	1.56	1.36
	(100.0)	(100.0)				

Note: Figures in brackets are percentages to respective column totals.

2.6 Out of total number of parcels per holding in the state, 98.89% of the parcels are situated within the village of residence and a very little percentage of 1.08 were situated outside the village of residence but within the same taluk. 0.03% situated outside the tehsil of residence but within the same district. (Table 2.2)

Table 2.2
Percentage distribution of Number of parcels in different size groups by dispersal, 2016-17

Category of holdings and Size classes	Percentage of number of parcel by dispersal			
	Within the Village of Residence	Outside the Village of Residence but within the tehsil	Outside the tehsil but within the District	Total
1	2	3	4	5
Marginal (Below 0.99ha)	98.97	1.00	0.03	100.00
Small (1.00 to 1.99ha)	98.97	1.01	0.02	100.00
Semi Medium (2.00 to 3.99ha)	98.67	1.33	0.00	100.00
Medium (4.00 to 9.99ha)	98.80	1.16	0.04	100.00
Large (10.00ha &above)	97.98	1.84	0.18	100.00
All Size Classes	98.89	1.08	0.03	100.00

3.0 Multiple Cropping:-

3.1 The percentage of net area cropped once during 2016-17, twice and more than twice in the state for all size groups is about 90.3%, 9.6% and 0.1% respectively. (Table 3.1)

3.2 The percentage of net area cropped once is lowest in Semi-medium holdings (89.4%) and highest (91.8%) in the Marginal holdings. On the other hand, the percentage of net area cropped twice is lowest (8.2%) in the Marginal holdings and highest (10.5%) in the semi medium holdings. The percentage for more than twice is Nil in marginal and small holdings and highest (0.2%) in large holdings. (Table 3.1)

3.3 The percentage of net area cropped once increased from 87.4% in 2011-12 to 90.3% in 2016-17. Whereas, it was decreasing under cropped twice from 12.6% in 2011-12 to 9.6% in 2016-17. (Table 3.1)

Table 3.1**Percentage distribution of Net area sown according to multiple cropping 2016-17**

Category of holdings and Size classes	Percentage of area cropped			Net area sown
	Once	Twice	More than twice	
1	2	3	4	5
Marginal (Below 0.99ha)	91.8	8.2	0.0	100.0
	(90.9)	(9.0)	(0.0)	(100.0)
Small (1.00 to 1.99ha)	90.1	9.9	0.0	100.0
	(87.5)	(12.4)	(0.1)	(100.0)
Semi Medium (2.00 to 3.99ha)	89.4	10.5	0.1	100.0
	(86.0)	(13.9)	(0.0)	(100.0)
Medium (4.00 to 9.99ha)	90.2	9.7	0.1	100.0
	(86.7)	(13.2)	(0.0)	(100.0)
Large (10.00ha & above)	91.3	8.5	0.2	100.0
	(86.1)	(13.9)	(0.0)	(100.0)
All Size Classes	90.3	9.6	0.1	100.0
	(87.4)	(12.6)	(0.0)	(100.0)

Note: Figures in brackets are percentages for 2011-12

3.4 Out of the total net area sown, about 24.9% of the area is irrigated, whereas, the 65.3% is Un-irrigated for “Cropped once” category for all size groups. (Table 3.2)

3.5 Among different size groups of the net area sown, the percentage of net irrigated area for cropped once category is highest (29.2%) in large holdings, whereas, the percentage of net Un-irrigated area for cropped once category is highest (69.7%) in small holdings. (Table 3.2)

3.6 Of the net area sown, the share of net irrigated area cropped once was increasing from 24.5% to 24.9% as compared to previous census. Whereas, the net area sown for cropped once was increasing from 62.8% to 65.3% in Un-irrigated conditions as compared to previous census 2011-12. (Table 3.2)

Table 3.2**Percentage distribution of Net area sown under multiple cropping according to irrigation status, by major groups 2016-17**

Category of holdings and Size classes	Irrigated			Un-irrigated	
	Cropped Once	Cropped Twice	Cropped Thrice or more	Cropped Once	Cropped more than once
1	2	3	4	5	6
Marginal (Below 0.99ha)	26.7	4.1	0.1	65.1	4.1
	(22.6)	(4.8)	(0.1)	(68.3)	(4.3)
Small (1.00 to 1.99ha)	20.3	4.6	0.1	69.8	5.4
	(23.9)	(6.0)	(0.1)	(63.6)	(6.4)
Semi Medium (2.00 to 3.99ha)	25.2	5.0	0.2	64.2	5.6
	(25.4)	(6.2)	(0.1)	(60.7)	(7.8)
Medium (4.00 to 9.99ha)	27.7	4.6	0.1	62.5	5.1
	(25.7)	(5.9)	(0.1)	(61.0)	(7.4)
Large (10.00ha & above)	29.2	3.5	0.2	62.1	5.0
	(24.5)	(3.5)	(0.0)	(61.7)	(10.3)
All Size Classes	25.0	4.5	0.1	65.4	5.1
	(24.6)	(5.7)	(0.1)	(62.8)	(6.9)

Note: Figures in brackets are percentages for 2011-12

3.7 Out of the total net irrigated area, about 84.5% is cropped once, 15.3% cropped twice and 0.1 % is cropped more than twice. (Table 3.3)

3.8 Out of 15.3% of the net irrigated area cropped twice, as much as 13.7% of the area is covered with irrigated crops in two seasons, whereas 1.6% of the area is covered with rainfed crop(s) in one season and irrigated crop in another season. (Table 3.3)

3.9 Among the different size groups, while the large holdings recorded the highest share (88.7%) of net irrigated area cropped once, small holdings accounted for the highest share (18.4%) of net irrigated area cropped twice and medium holdings accounted for the highest share of (0.3%) of net irrigated cropped more than twice. (Table 3.3)

3.10 The percentage of net irrigated area cropped once increased from 81.1% to 84.5% from 2011-12 to 2016-17 for all sizes, whereas the percentage share of net area irrigated cropped twice was decreased when compared to previous census 2011-12 and and more than twice remaining the same. (Table 3.3)

Table 3.3**Percentage distribution of Net Irrigated area according to multiple cropping, by major groups 2016-17**

Category of holdings and Size classes	Cropped once	Percentage of Irrigated cropped area to net Irrigated area				
		Twice		More than twice		
		Once crop irrigated	Two crops irrigated	Once crop irrigated	Two crops irrigated	More than two crops irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	86.6 (82.5)	1.4 (1.9)	11.8 (15.5)	0.0 (0.0)	0.0 (0.0)	0.2 (0.2)
Small (1.00 to 1.99ha)	81.7 (79.7)	2.2 (1.8)	16.2 (18.3)	0.0 (0.0)	0.0 (0.0)	0.0 (0.3)
Semi Medium (2.00 to 3.99ha)	83.4 (80.4)	1.8 (2.0)	14.6 (17.6)	0.0 (0.0)	0.2 (0.0)	0.0 (0.1)
Medium (4.00 to 9.99ha)	85.5 (81.3)	1.0 (1.1)	13.1 (17.5)	0.1 (0.0)	0.1 (0.0)	0.3 (0.1)
Large (10.00ha & above)	88.7 (87.4)	1.2 (0.6)	9.5 (12.0)	0.2 (0.0)	0.2 (0.0)	0.2 (0.0)
All Size Classes	84.5 (81.1)	1.6 (1.6)	13.7 (17.1)	0.0 (0.0)	0.1 (0.0)	0.1 (0.1)

Note: Figures in brackets are percentages for 2011-12

3.11 The practice of multiple cropping in Un-irrigated area is meager. 7.3% of the net Un-irrigated area is cropped more than once during 2016-17 for all size groups, whereas the remaining 92.7% of the net Un-irrigated area is cropped once. (Table 3.4)

3.12 The percentage of net Un-irrigated area cropped once increased from 90.1% in 2011-12 to 92.7% in 2016-17. It exhibited the reverse trend in the case of Un-irrigated area cropped more than once decreased from 9.9% in 2011-12 to 7.3% during 2016-17. (Table 3.4)

Table 3.4**Percentage distribution of Net Un-irrigated area according to multiple cropping, by major groups 2016-17**

Category of holdings and Size classes	Percentage Un-irrigated area cropped	
	Once	More than once
1	2	3
Marginal (Below 0.99ha)	94.0	6.0
	(94.1)	(5.9)
Small (1.00 to 1.99ha)	92.9	7.1
	(90.9)	(9.1)
Semi Medium (2.00 to 3.99ha)	92.0	8.0
	(88.7)	(11.3)
Medium (4.00 to 9.99ha)	92.4	7.6
	(89.2)	(10.8)
Large (10.00ha & above)	92.6	7.4
	(85.6)	(14.4)
All Size Classes	92.7	7.3
	(90.1)	(9.9)

Note: Figures in brackets are percentages for 2011-12

3.13 Out of the total gross cropped area, gross area irrigated is about 30.7%, whereas gross area Un-irrigated is about 69.3% for all size groups in 2016-17. (Table 3.5)

3.14 Medium holdings had the highest share (33.4%) of gross cropped area irrigated and the small holdings had the highest share (73.7%) of gross cropped area under Un-irrigated conditions. (Table 3.5)

3.15 The percentage of gross cropped area irrigated decreased from 31.5% in 2011-12 to 30.7% in 2016-17. (Table 3.5)

3.16 Contrary to the percentage of gross cropped area Un-irrigated increased from 68.5% in 2011-12 to 69.3% in 2016-17. (Table 3.5)

Table 3.5**Percentage distribution of Gross Cropped Area according to irrigation status, by major groups 2016-17**

Category of holdings and Size classes	Percentage of Gross cropped area	
	Irrigated	Un irrigated
1	2	3
Marginal (Below 0.99ha)	31.9	68.1
	(29.1)	(70.9)
Small (1.00 to 1.99ha)	26.3	73.7
	(31.7)	(68.3)
Semi Medium (2.00 to 3.99ha)	31.4	68.6
	(32.6)	(67.4)
Medium (4.00 to 9.99ha)	33.4	66.6
	(32.9)	(67.1)
Large (10.00ha & above)	33.3	66.7
	(27.6)	(72.4)
All Size Classes	30.7	69.3
	(31.5)	(68.5)

Note: Figures in brackets are percentages for 2011-12

3.17 The intensity of the cropping which is measured in terms of the ratio of gross cropped area to net area sown is estimated at 1.098 in 2016-17 for all size groups. The intensity of cropping is higher in irrigated area (1.140) and lower in case of Un-irrigated area (1.080). (Table 3.6)

3.18 Among the different size groups, the intensity of cropping in irrigated area stands highest in small holdings of 1.162 and Un-irrigated area stands highest in semi medium holdings of 1.089. (Table 3.6)

3.19 The intensity of cropping decreased from 1.127 in 2011-12 to 1.098 in 2016-17 for all size groups. A similar trend of decrease in the intensity of cropping is witnessed in irrigated and Un-irrigated areas. (Table 3.6)

3.20 While the overall cropping intensity is decreased in each size class between the period of 2011-12 and 2016-17, for irrigated areas. While in case of Un-irrigated areas except marginal holdings decreasing trend was observed. (Table 3.6)

Table 3.6**Intensity of cropping by major groups 2016-17**

Category of holdings and Size classes	Intensity of cropping in		
	Irrigated area	Un-irrigated area	Total area
1	2	3	4
Marginal (Below 0.99ha)	1.121	1.066	1.083
	(1.158)	(1.066)	(1.091)
Small (1.00 to 1.99ha)	1.162	1.078	1.099
	(1.188)	(1.099)	(1.126)
Semi Medium (2.00 to 3.99ha)	1.148	1.089	1.106
	(1.178)	(1.122)	(1.140)
Medium (4.00 to 9.99ha)	1.137	1.082	1.100
	(1.177)	(1.113)	(1.133)
Large (10.00ha & above)	1.101	1.083	1.089
	(1.120)	(1.146)	(1.139)
All Size Classes	1.140	1.080	1.098
	(1.174)	(1.106)	(1.127)

Note: Figures in brackets are percentages for 2011-12

4.0 Area under crops and varieties:-

4.1 The thirteen selected crops viz; (1) Paddy (2) Jowar (3) Ragi (4) Tur (5) Sugarcane (6) Cardamom large (7) Cardamom small (8) Banana (9) Onion (10) Groundnut (11) Cotton (12) Coffee and (13) Coconut accounted for 62.6% of the gross cropped area for all size groups, whereas the remaining 37.4% of the gross cropped area is distributed among other crops, during 2016-17. (Table 4.1)

4.2 Small and Large holdings accounted for the higher share of area under principal/selected crops, whereas those with Marginal, Medium and Semi medium size accounted for the lower share of area under the selected crops in 2016-17. (Table 4.1)

4.3 Other Cereals accounted for the highest share (16.0%) of gross cropped area in the state during 2016-17 (Table 4.1). The percentage share of area under Other Cereals increased during 2016-17 in all size class compared to 2011-12. (Table 4.1)

4.4 The share of area under Jowar to gross cropped area, which was about 8.5% in 2011-12, increased to 9.5% in 2016-17 for all size groups. (Table 4.1)

4.5 Paddy and Ragi accounted for 11.1% and 6.9% of the gross cropped area respectively in 2016-17, under all size groups. However, the marginal holdings recorded the highest share of gross area under these crops. (Table 4.1)

4.6 Groundnut which accounted for 5.6% of the gross cropped area in 2011-12 has decreased to 4.1% in 2016-17. The decrease in the share of gross cropped area is observed in all size classes. (Table 4.1)

4.7 While the share of area under Sugarcane increased marginally, Cotton increased in all the size classes except medium and large holdings. Coconut increased in all the size classes, in case of Cardamom (small) and large negligible area is recorded during 2016-17. (Table 4.1)

4.8 The percentage share of area under Tur and Banana crop to gross cropped area increased in all the size classes during 2016-17 as compared to 2011-12. (Table 4.1)

Table 4.1

Percentage Distribution of area under selected Crops to Gross Cropped Area by major groups 2016-17

Category of holdings and Size classes	Paddy	Jowar	Ragi	Other Cereals	Tur	Other Pulses	Sugar cane	Other Sugar cane	Carda mom (large)	Carda mom (small)	Other Condi spices	Banana
1	2	3	4	5	6	7	8	9	10	11	12	13
Marginal (Below 0.99ha)	15.0	3.9	15.6	16.1	6.5	7.9	3.1	0.0	0.0	0.0	5.2	0.5
	(19.1)	(6.2)	(16.9)	(13.5)	(4.7)	(6.0)	(3.0)	(0.0)	(0.0)	(0.0)	(1.1)	(0.5)
Small (1.00 to 1.99ha)	10.1	13.5	7.0	16.3	13.0	7.3	3.0	0.0	0.0	0.0	3.9	0.8
	(15.2)	(8.0)	(8.5)	(15.7)	(9.2)	(6.6)	(5.9)	(0.0)	(0.0)	(0.0)	(0.9)	(0.7)
Semi Medium (2.00 to 3.99ha)	11.1	10.9	4.7	16.4	16.6	7.7	4.4	0.0	0.0	0.0	4.2	0.6
	(13.9)	(8.2)	(5.6)	(15.8)	(11.8)	(6.1)	(6.6)	(0.0)	(0.0)	(0.0)	(0.9)	(0.5)
Medium (4.00 to 9.99ha)	9.7	8.8	3.0	15.8	20.0	7.8	5.9	0.0	0.0	0.0	4.3	0.6
	(12.3)	(10.2)	(3.4)	(15.1)	(13.3)	(6.1)	(7.2)	(0.0)	(0.0)	(0.0)	(0.8)	(0.4)
Large (10.00 ha & above)	8.5	5.6	3.2	13.7	20.2	7.4	5.9	0.0	0.0	0.0	4.2	0.5
	(9.6)	(10.3)	(1.7)	(13.4)	(13.8)	(6.7)	(6.4)	(0.0)	(0.2)	(0.0)	(0.9)	(0.3)
All Size Classes	11.1	9.5	6.9	16.0	14.7	7.6	4.2	0.0	0.0	0.0	4.3	0.6
	(14.4)	8.5	(7.3)	(15.1)	(10.5)	(6.3)	(6.0)	(0.0)	(0.0)	(0.0)	(0.9)	(0.5)

Note: Figures in brackets are percentages for 2011-12

Table 4.1 (Contd...)

Percentage Distribution of area under selected Crops to Gross Cropped Area by major groups 2016-17

Category of holdings and Size classes	Other Fruits	Onion	Other Vege Tables	Ground nut	Other Oil seeds	Cotton	Other Fibres	Coffee	Other Plant ation	Coco nut	Other Non-Food crops	Gross Crop Area
1	14	15	16	17	18	19	20	21	22	23	24	25
Marginal (Below 0.99ha)	1.8	0.6	1.7	3.7	3.9	4.3	0.0	1.2	0.4	5.0	3.4	100
	(2.3)	(0.5)	(1.4)	(4.2)	(3.9)	(3.1)	(4.2)	(0.0)	(1.5)	(3.7)	(4.1)	(100)
Small (1.00 to 1.99ha)	1.1	1.0	1.3	4.1	5.1	5.2	0.0	1.2	0.4	3.3	2.3	100
	(1.7)	(1.0)	(1.3)	(5.4)	(3.2)	(4.9)	(4.8)	(0.0)	(1.5)	(2.6)	(2.9)	(100)
Semi Medium (2.00 to 3.99ha)	1.4	1.0	0.8	3.9	4.8	5.5	0.0	1.2	0.3	3.0	1.6	100
	(1.6)	(0.9)	(1.3)	(5.9)	(3.1)	(5.4)	(5.8)	(0.0)	(1.7)	(2.5)	(2.3)	(100)
Medium (4.00 to 9.99ha)	1.3	1.1	0.7	4.5	4.5	6.3	0.0	2.1	0.4	2.2	1.0	100
	(1.7)	(1.2)	(1.0)	(5.9)	(3.1)	(6.6)	(5.5)	(0.0)	(2.1)	(2.2)	(1.8)	(100)
Large (10.00ha & above)	1.5	1.1	0.6	5.2	3.5	6.1	0.0	9.2	0.7	1.5	1.1	100
	(1.9)	(1.2)	(0.8)	(6.6)	(2.5)	(7.8)	(5.8)	(0.0)	(7.0)	(1.4)	(1.7)	(100)
All Size Classes	1.4	0.9	1.1	4.1	4.6	5.4	0.0	1.9	0.4	3.2	2.0	100
	(1.8)	(0.9)	(1.2)	(5.6)	(3.2)	(5.3)	(5.2)	(0.0)	(2.1)	(2.6)	(2.6)	(100)

Note: Figures in brackets are percentages for 2011-12

4.9 Out of gross cropped area, 62.3% is irrigated area and 62.6% is Un-irrigated area for selected crops in 2016-17. (Table 4.2)

4.10 In case of other crops, the percentage share of gross cropped area is higher (37.4%) in Un-irrigated area and lower (37.7%) in irrigated area. (Table 4.2)

4.11 The percentage share of area under selected crops in irrigated area is highest in large holdings (68.7) and lowest in small holdings (60.1). Whereas, in Un-irrigated area, highest is in large holdings (66.6) and the lowest is in marginal holdings (58.2). (Table 4.2)

Table 4.2

Percentage Distribution of area under selected Crops and other crops by Irrigation & Un-irrigation status, by major group, 2016-17

Category of holdings and Size classes	Irrigated area under		Un-irrigated area under		Total area under	
	Selected crops	Other crops	Selected crops	Other crops	Selected crops	Other crops
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	62.1	37.9	58.2	41.8	59.5	40.5
	(68.8)	(31.2)	(63.1)	(36.9)	(64.7)	(35.3)
Small (1.00 to 1.99ha)	60.1	39.9	62.7	37.3	62.1	37.9
	(68.1)	(31.9)	(61.3)	(38.7)	(63.5)	(36.5)
Semi Medium (2.00 to 3.99ha)	61.3	38.7	63.4	36.6	62.8	37.2
	(68.1)	(31.9)	(62.2)	(37.8)	(64.1)	(35.9)
Medium (4.00 to 9.99ha)	64.1	35.9	64.2	35.8	64.1	35.9
	(69.0)	(31.0)	(62.5)	(37.5)	(64.6)	(35.4)
Large (10.00ha & above)	68.7	31.3	66.6	33.4	67.3	32.7
	(68.0)	(32.0)	(64.3)	(35.7)	(65.3)	(34.7)
All Size Classes	62.3	37.7	62.6	37.4	62.5	37.5
	(68.4)	(31.6)	(62.3)	(37.7)	(64.2)	(35.8)

Note: Figures in brackets are percentages for 2011-12

4.12 The percentage share of irrigated area under Paddy to the gross cropped area in all size classes is the 21.7%. The proportionate share of irrigated area to the gross cropped area under Paddy is the highest 26.3% in the marginal holdings. (Table 4.3)

4.13 About 79.4% of the irrigated area under Paddy is cultivated with high yielding varieties in all size class during 2016-17. The percentage area under HYV (High Yield Variety) is maximum (89.3%) among large holdings and is the least (77.0%) among medium holdings. (Table 4.3)

Table 4.3

Percentage of area under Paddy to Gross Cropped Area and area HYV of Paddy by Irrigation & Un-irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Paddy to gross cropped area	Under HYV of Paddy	Under Paddy to gross cropped area	Under HYV of Paddy
1	2	3	4	5
Marginal (Below 0.99ha)	26.3	84.4	9.7	71.3
	(37.2)	(97.4)	(11.7)	(49.1)
Small (1.00 to 1.99ha)	21.0	76.8	6.2	73.2
	(27.6)	(95.9)	(9.4)	(50.3)
Semi Medium (2.00 to 3.99ha)	22.0	77.2	6.1	75.5
	(25.1)	(96.7)	(8.4)	(47.2)
Medium (4.00 to 9.99ha)	19.0	77.0	5.0	75.3
	(23.3)	(94.0)	(6.9)	(47.4)
Large (10.00ha & above)	18.4	89.3	3.6	72.4
	(20.5)	(93.8)	(5.4)	(38.0)
All Size Classes	21.7	79.4	6.4	73.6
	(26.8)	(95.9)	(8.6)	(48.1)

Note: Figures in brackets are percentages for 2011-12

4.14 The percentage share of irrigated & Un-irrigated area under Jowar to the gross cropped area is about 2.4% & 12.7% respectively under all size groups during 2016-17 (Table 4.4)

4.15 About 77.8% of the irrigated area under Jowar is cultivated with High Yielding Varieties in all size class during 2016-17. This share is highest in large holdings (91.8%) and lowest in semi medium holdings (71.5%). (Table 4.4)

4.16 About 35.1% of the Un-irrigated area under Jowar is cultivated with high yielding varieties in all size class during 2016-17. This share is highest in large holdings (73.6%) and lowest is small holdings (22.8%). (Table 4.4)

Table 4.4

Percentage of area under Jowar to Gross cropped area and area HYV of Jowar by Irrigation & Un-irrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Jowar to gross cropped area	Under HYV of Jowar	Under Jowar to gross cropped area	Under HYV of Jowar
1	2	3	4	5
Marginal (Below 0.99ha)	1.6	81.0	5.0	65.0
	(2.2)	(82.3)	(7.9)	(71.3)
Small (1.00 to 1.99ha)	2.0	81.1	17.6	22.8
	(2.6)	(85.8)	(10.5)	(69.7)
Semi Medium (2.00 to 3.99ha)	2.6	71.5	14.7	32.9
	(2.1)	(83.6)	(11.2)	(73.7)
Medium (4.00 to 9.99ha)	3.1	75.8	11.7	46.4
	(3.5)	(65.3)	(13.5)	(72.0)
Large (10.00ha & above)	3.8	91.8	6.5	73.6
	(4.4)	(66.5)	(12.5)	(74.8)
All Size Classes	2.4	77.8	12.7	35.1
	(2.7)	(76.6)	(11.1)	(72.1)

Note: Figures in brackets are percentages for 2011-12

4.17 Irrigated & Un-irrigated area under Ragi is about 3.1% & 8.5% respectively of the gross cropped area in all size groups. The share of Un-irrigated area under Ragi is the highest (20.3%) in the marginal holdings and the lowest (3.6%) in medium holdings. (Tables 4.5)

4.18 While in marginal holdings growing Ragi under rain-fed conditions accounted for the highest share of area under High Yielding Varieties at 93.2%. Whereas, in the small and semi-medium holdings accounted for more than 90%. Large holdings accounted for 81.3%. (Table 4.5)

Table 4.5**Percentage of area under Ragi to Gross cropped area and area HYV of Ragi by Irrigation & Unirrigation status in Major group, 2016-17**

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-Irrigated area	
	Under Ragi to gross cropped area	Under HYV of Ragi	Under Ragi to gross cropped area	Under HYV of Ragi
1	2	3	4	5
Marginal (Below 0.99ha)	5.6	76.3	20.3	93.2
	(3.8)	(87.9)	(22.3)	(85.5)
Small (1.00 to 1.99ha)	4.0	66.7	8.1	90.3
	(2.4)	(93.3)	(11.3)	(87.1)
Semi Medium (2.00 to 3.99ha)	2.2	76.8	5.9	91.9
	(1.8)	(90.2)	(7.5)	(83.6)
Medium (4.00 to 9.99ha)	1.7	80.6	3.6	86.9
	(1.0)	(84.7)	(4.6)	(82.5)
Large (10.00ha & above)	2.0	79.9	3.7	81.3
	(0.9)	(83.5)	(2.1)	(65.9)
All Size Classes	3.1	74.3	8.5	91.4
	(2.0)	(89.7)	(9.8)	(84.9)

Note: Figures in brackets are percentages for 2011-12

4.19 The percentage share of irrigated area under Tur to the gross cropped area which was 1.1% in 2011-12 was increased to 4.1% in 2016-17 in all size groups. Similarly, the percentage of Un-irrigated area under Tur to gross cropped area which was 14.8% during 2011-12 was increased to 19.4 %. (Table 4.6)

4.20 The practice of cultivating High Yielding Varieties in irrigated area under Tur crop has decreased to 91.2% in 2016-17 as compared to that of 95.9% in 2011-12. This share is highest (95.7%) in small holdings and lowest (88.2%) in large holdings. (Table 4.6)

4.21 The practice of cultivating High Yielding Varieties in Un-irrigated area under Tur crop has decreased to 90.5% in 2016-17 as compared to that of 96.1% in 2011-12. This share is highest (93.1%) in small holdings and the lowest (81.4%) in large holdings. (Table 4.6)

Table 4.6

Percentage of area under Tur to Gross cropped area and area HYV of Tur by Irrigation & Unirrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-Irrigated area	
	Under Tur to gross cropped area	Under HYV of Tur	Under Tur to gross cropped area	Under HYV of Tur
1	2	3	4	5
Marginal (Below 0.99ha)	2.2	90.4	8.5	89.1
	(0.5)	(88.1)	(6.4)	(92.6)
Small (1.00 to 1.99ha)	3.0	95.7	16.5	93.1
	(0.8)	(99.8)	(13.1)	(95.3)
Semi Medium (2.00 to 3.99ha)	4.0	92.0	22.3	91.7
	(1.3)	(99.0)	(16.8)	(96.5)
Medium (4.00 to 9.99ha)	6.1	89.7	27.0	90.0
	(1.7)	(93.6)	(19.0)	(96.7)
Large (10.00ha & above)	7.2	88.2	26.6	81.4
	(1.2)	(90.0)	(18.6)	(97.0)
All Size Classes	4.1	91.2	19.4	90.5
	(1.1)	(95.9)	(14.8)	(96.1)

Note: Figures in brackets are percentages for 2011-12

4.22 The proportionate share in irrigated and Un-irrigated area to the gross cropped area in respect of Cardamom is meager and the difference is negligible during 2016-17 as compared to 2011-12. (Tables 4.7)

Table 4.7

Percentage of area under Cardamom (small) to Gross cropped area and area HYV of Cardamom (small) by irrigation & un-irrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Cardamom (small) to gross cropped area	Under HYV of Cardamom (small)	Under Cardamom (small) to gross cropped area	Under HYV of Cardamom (small)
1	2	3	4	5
Marginal (Below 0.99ha)	0.0	81.1	0.0	0.0
	(0.0)	(0.0)	(0.1)	(0.0)
Small (1.00 to 1.99ha)	0.0	2.3	0.0	7.8
	(0.0)	(0.0)	(0.0)	(0.0)
Semi Medium (2.00 to 3.99ha)	0.0	0.0	0.0	0.0
	(0.0)	(20.7)	(0.0)	(0.0)
Medium (4.00 to 9.99ha)	0.0	89.4	0.0	0.0
	(0.0)	(0.0)	(0.0)	(0.0)
Large (10.00ha & above)	0.1	94.6	0.5	0.0
	(0.1)	(0.0)	(0.2)	(0.0)
All Size Classes	0.0	51.0	0.0	0.5
	(0.0)	(7.2)	(0.0)	(0.0)

Note: Figures in brackets are percentages for 2011-12

4.23 Among the selected crops, the percentage share of irrigated area under Sugarcane to the gross cropped area is 13.4%. This share is highest 17.6% in the large holdings and lowest 9.8% in marginal size class of holdings. (Tables 4.8)

Table 4.8**Percentage of area under Sugarcane to Gross cropped area and area HYV of Sugarcane by irrigation status in major group, 2016-17**

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Sugarcane to gross cropped area	Under HYV of Sugarcane	Under Sugarcane to gross cropped area	Under HYV of Sugarcane
1	2	3	4	5
Marginal (Below 0.99ha)	9.8	94.5	0.0	100.0
	(9.9)	(92.1)	(0.1)	(63.0)
Small (1.00 to 1.99ha)	11.0	94.6	0.1	70.1
	(18.5)	(88.5)	(0.0)	(93.6)
Semi Medium (2.00 to 3.99ha)	13.5	92.0	0.2	100.0
	(20.0)	(93.0)	(0.2)	(93.5)
Medium (4.00 to 9.99ha)	17.3	92.5	0.1	71.5
	(21.7)	(90.2)	(0.1)	(94.6)
Large (10.00ha & above)	17.6	95.6	0.0	100.0
	(23.0)	(94.9)	(0.0)	(98.8)
All Size Classes	13.4	93.3	0.1	86.0
	(18.8)	(91.1)	(0.1)	(88.2)

Note: Figures in brackets are percentages for 2011-12

4.24 The percentage share of irrigated & Un-irrigated area under Banana to the gross cropped area is 1.7% & 0.0% respectively in 2016-17 in all size groups. (Table 4.9)

4.25 About 55.2% of the irrigated area under Banana is cultivated with High Yielding Varieties in all size class during 2016-17. This share is highest (62.9%) in large holdings and lowest (46.9%) in marginal holdings. (Table 4.9)

4.26 About 10.5% of the Un-irrigated area under Banana is cultivated with High Yielding Varieties in all size class during 2016-17. This share is highest (53.7%) in medium holdings and it is Nil in case of marginal and large holdings. (Table 4.9)

Table 4.9

Percentage of area under Banana to Gross cropped area and area HYV of Banana by Irrigation & Un-irrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-Irrigated area	
	Under Banana to gross cropped area	Under HYV of Banana	Under Banana to gross cropped area	Under HYV of Banana
1	2	3	4	5
Marginal (Below 0.99ha)	1.4	46.9	0.1	0.0
	(1.6)	(51.8)	(0.1)	(0.0)
Small (1.00 to 1.99ha)	2.1	58.3	0.0	6.7
	(1.9)	(68.3)	(0.1)	(51.0)
Semi Medium (2.00 to 3.99ha)	1.8	54.7	0.0	20.5
	(1.5)	(65.6)	(0.0)	(13.2)
Medium (4.00 to 9.99ha)	1.6	56.3	0.0	53.7
	(1.0)	(55.0)	(0.0)	(9.8)
Large (10.00ha & above)	1.3	62.9	0.1	0.0
	(0.9)	(50.2)	(0.0)	(5.5)
All Size Classes	1.7	55.2	0.0	10.5
	(1.5)	(62.0)	(0.1)	(29.0)

Note: Figures in brackets are percentages for 2011-12

4.27 The percentage share of irrigated & Un-irrigated area under Groundnut to the gross cropped area for all size groups during 2016-17 is 3.0% & 4.6% respectively and it is least 2.2% in case of irrigated in marginal holdings and 4.3% in Un-irrigated small holdings. (Table 4.10)

4.28 About 78.4% in irrigated area & 80.0% of Un-irrigated area under Groundnut is cultivated with High Yielding Varieties in all size class during 2016-17 and it is least in small holdings (75.2%) in irrigated area & semi medium holdings (77.4%) in Un-irrigated area. (Table 4.10)

Table 4.10

Percentage of area under Groundnut to Gross cropped area and area HYV of Groundnut by irrigation & unirrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Groundnut to gross cropped area	Under HYV of Groundnut	Under Groundnut to gross cropped area	Under HYV of Groundnut
1	2	3	4	5
Marginal (Below 0.99ha)	2.2	80.7	4.4	84.2
	(2.7)	(86.4)	(4.8)	(81.1)
Small (1.00 to 1.99ha)	3.6	75.2	4.3	80.8
	(3.0)	(90.8)	(6.6)	(68.1)
Semi Medium (2.00 to 3.99ha)	2.9	77.7	4.3	77.4
	(4.6)	(85.1)	(6.6)	(69.2)
Medium (4.00 to 9.99ha)	3.2	78.8	5.1	78.4
	(4.5)	(87.8)	(6.5)	(62.1)
Large (10.00ha & above)	2.8	89.2	6.3	80.4
	(4.0)	(92.7)	(7.6)	(62.9)
All Size Classes	3.0	78.4	4.6	80.0
	(3.8)	(87.6)	(6.4)	(68.1)

Note: Figures in brackets are percentages for 2011-12

4.29 The percentage share of irrigated and Un-irrigated area under Cotton to the gross cropped area, which was 4.2% & 5.7% in 2011-12, has been decreased to 3.7% & increased to 6.2% in 2016-17 respectively in all size groups (Table 4.11).

4.30 About 68.0% of the irrigated area and 65.7% of the Un-irrigated area under Cotton is cultivated with High Yield Variety in all the size classes during 2016-17. (Table 4.11)

Table 4.11

Percentage of area under Cotton to Gross cropped area and area HYV of Cotton by irrigation & unirrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Cotton to gross cropped area	Under HYV of Cotton	Under Cotton to gross cropped area	Under HYV of Cotton
1	2	3	4	5
Marginal (Below 0.99ha)	2.4	57.5	5.1	48.7
	(3.0)	(93.7)	(4.7)	(86.0)
Small (1.00 to 1.99ha)	3.3	53.6	5.9	66.9
	(3.3)	(90.4)	(5.5)	(89.7)
Semi Medium (2.00 to 3.99ha)	3.8	69.6	6.2	66.2
	(4.9)	(96.1)	(6.2)	(89.7)
Medium (4.00 to 9.99ha)	4.3	74.7	7.3	72.1
	(4.6)	(95.7)	(6.0)	(89.1)
Large (10.00ha & above)	5.8	87.6	6.2	75.9
	(5.5)	(94.6)	(5.9)	(90.6)
All Size Classes	3.7	68.0	6.2	65.7
	(4.2)	(94.4)	(5.7)	(89.1)

Note: Figures in brackets are percentages for 2011-12

4.31 The percentage share of irrigated and Un-irrigated area under Coffee to the gross cropped area, which was 0.2% & 3% in 2011-12 has been increased to 0.7% & decreased 2.4% in 2016-17 respectively in all size groups (Table 4.12).

4.32 About 56.4% of the irrigated area and 39.6% of the Un-irrigated area under Coffee is cultivated with High Yield Variety in all the size classes during 2016-17. (Table 4.12)

Table 4.12

Percentage of area under Coffee to Gross cropped area and area HYV of Coffee by Irrigation & Unirrigation status in major group, 2016-17

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Coffee to gross cropped area	Under HYV of Coffee	Under Coffee to gross cropped area	Under HYV of Coffee
1	2	3	4	5
Marginal (Below 0.99ha)	0.4	56.8	1.6	39.7
	(0.1)	(41.7)	(2.0)	(6.7)
Small (1.00 to 1.99ha)	0.3	55.9	1.6	39.4
	(0.1)	(0.0)	(2.2)	(6.4)
Semi Medium (2.00 to 3.99ha)	0.5	56.6	1.6	35.1
	(0.2)	(10.0)	(2.5)	(7.4)
Medium (4.00 to 9.99ha)	1.0	58.0	2.7	34.5
	(0.2)	(14.6)	(3.1)	(6.9)
Large (10.00ha & above)	3.6	54.9	12.0	46.6
	(0.8)	(17.2)	(9.4)	(10.6)
All Size Classes	0.7	56.4	2.4	39.6
	(0.2)	(13.2)	(3.0)	(7.7)

Note: Figures in brackets are percentages for 2011-12

4.33 The percentage share of irrigated and Un-irrigated area under Coconut to the gross cropped area during 2011-12 was 5.8% & 2% respectively. (Table 4.13)

4.34 About 17% of the irrigated area and 15% of the Un-irrigated area under Coconut is cultivated with High Yield Variety in all the size classes during 2016-17. (Table 4.13)

Table 4.13**Percentage of area under Coconut to Gross cropped area and area HYV of Coconut by irrigation & unirrigation status in major group, 2016-17**

Category of holdings and Size classes	Percentage of			
	Irrigated area		Un-irrigated area	
	Under Coconut to gross cropped area	Under HYV of Coconut	Under Coconut to gross cropped area	Under HYV of Coconut
1	2	3	4	5
Marginal (Below 0.99ha)	9	14	3	16
	(7.1)	(3.1)	(2.6)	(1.1)
Small (1.00 to 1.99ha)	8	18	2	13
	(5.9)	(5.4)	(1.9)	(1.5)
Semi Medium (2.00 to 3.99ha)	6	16	2	19
	(5.5)	(8.8)	(2.0)	(0.8)
Medium (4.00 to 9.99ha)	5	21	1	15
	(5.5)	(7.1)	(1.9)	(3.6)
Large (10.00ha & above)	4	29	0	11
	(4.8)	(9.8)	(1.7)	(3.0)
All Size Classes	7	17	2	15
	(5.8)	(6.6)	(2.0)	(1.7)

Note: Figures in brackets are percentages for 2011-12

4.35 The share of irrigated area under High Yielding Varieties for all crops is 83.3% in 2011-12 and has been decreased to 77.7% in 2016-17. In case of Un-irrigated area, it has increased from 79.4% in 2011-12 to 82.1% in 2016-17. (Table 4.14)

Table 4.14**Percentage of area under All crops under High Yielding Varieties by Irrigation & Unirrigation status in 2011-12 and 2016-17**

Category of holdings and Size classes	Percentage of area under HYV in			
	Irrigated area		Un-irrigated area	
	2011-12	2016-17	2011-12	2016-17
1	2	3	4	5
Marginal (Below 0.99ha)	80.1	74.7	77.5	79.7
Small (1.00 to 1.99ha)	82.3	73.3	81.1	83.8
Semi Medium (2.00 to 3.99ha)	84.5	78.5	80.5	83.4
Medium (4.00 to 9.99ha)	83.9	80.8	79.3	82.4
Large (10.00ha & above)	87.3	88.0	74.0	74.9
All Size Classes	83.3	77.7	79.4	82.1

Note: Figures in brackets are percentages for 2011-12

5.0 Coverage of area under Chemical Fertilizers, Farm Yard Manure and Pesticides:-

5.1 The number of holdings and area covered by chemical fertilizers showed an increasing trend and Farm Yard Manure & pesticides showed a declining trend during 2016-17 over the situation prevailed during 2011-12. (Table 5.1)

Coverage of holdings:-

5.2 The proportion of operational holdings treated with one or more chemical fertilizers in irrigated areas is about 83.8%. Whereas, the proportion of operational holdings treated with chemical fertilizers in Un-irrigated areas is 78.3% for all size groups during 2016-17. (Table 5.1)

5.3 The large holdings accounted for the highest share in number of holdings treated with chemical fertilizers in irrigated (91.7%) and Un-irrigated (93.9%) areas. (Table 5.1)

5.4 While 51.0% of the holdings growing one or more crops are treated with Farm Yard Manure in irrigated area under all size groups, the percentage of holdings treated with Farm Yard Manure for all size groups in Un-irrigated area is about 36.3%. (Table 5.1)

5.5 The percentage of holdings applied with Farm Yard Manure is the highest in the case of marginal holdings in both irrigated (55.6%) and Un-irrigated (43.3%) condition. (Table 5.1)

5.6 Pesticides are applied to 26.6% of total holdings growing one or more crops in irrigated area and 18.2% of the holdings in Un-irrigated area. (Table 5.1)

5.7 The operational holdings of small size group accounted for the highest percentage (30.5%) under irrigated condition and large size group holdings accounted for highest percentage (25.8%) under un-irrigated areas treated with pesticides. (Table 5.1)

Table 5.1

Percentage Number of Operational Holdings treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of Operational Holdings treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	79.3	81.8	55.6	43.3	23.8	16.3
	(77.0)	(71.3)	(63.8)	(45.1)	(36.4)	(18.0)
Small (1.00 to 1.99ha)	87.3	70.6	48.7	30.2	30.5	18.5
	(85.8)	(83.4)	(59.6)	(42.3)	(36.9)	(31.8)
Semi Medium (2.00 to 3.99ha)	88.9	78.9	45.7	29.5	28.3	21.2
	(88.4)	(85.7)	(56.9)	(40.9)	(36.8)	(37.1)
Medium (4.00 to 9.99ha)	90.1	85.0	41.6	28.3	27.4	24.2
	(88.2)	(88.0)	(58.4)	(41.7)	(38.2)	(42.0)
Large (10.00ha & above)	91.7	93.9	35.0	27.3	21.3	25.8
	(91.5)	(90.4)	(55.9)	(40.1)	(36.4)	(49.1)
All Size Classes	83.8	78.3	51.0	36.3	26.6	18.2
	(82.7)	(78.3)	(60.8)	(43.4)	(36.8)	(26.8)

Note: Figures in brackets are percentages for 2011-12

5.8 About 87.9% of the total gross cropped area irrigated is treated with chemical fertilizers and it is about 82.9% of Un-irrigated areas during 2016-17. Among all size classes, maximum users of the chemical fertilizers are from large holdings with 92.4% in irrigated and 90.8% in Un-irrigated areas. (Table 5.2)

5.9 While the use of Farm Yard Manure is about 51.0% in irrigated area and 36.3% in Un-irrigated area. The marginal holding has the highest proportion of area applied with Farm Yard Manure in both irrigated (55.6) and Un-irrigated (43.3%) areas during 2016-17. (Table 5.2)

5.10 Pesticides is used in 26.4% of the irrigated cropped area and 20.2% of un-irrigated cropped area during 2016-17. As in case of number of holdings treated with pesticides, the highest is found to be in small holdings with 29.3% in irrigated area and large holdings with 23.3% in Un-irrigated area. (Table 5.2)

Table 5.2

Percentage of area under all crops treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	83.8	83.3	55.6	43.3	25.9	17.3
	(84.6)	(75.5)	(54.9)	(43.1)	(36.8)	(18.6)
Small (1.00 to 1.99ha)	86.2	77.6	48.7	30.2	29.3	19.4
	(87.3)	(81.0)	(48.0)	(37.2)	(33.5)	(27.2)
Semi Medium (2.00 to 3.99ha)	88.1	83.4	45.7	29.5	27.2	21.2
	(88.0)	(82.5)	(43.9)	(33.9)	(32.3)	(29.9)
Medium (4.00 to 9.99ha)	91.3	86.9	41.6	28.3	25.0	21.8
	(86.9)	(84.1)	(44.2)	(32.7)	(31.9)	(31.0)
Large (10.00ha & above)	92.4	90.8	35.0	27.3	19.9	23.3
	(86.6)	(85.9)	(41.5)	(29.9)	(28.3)	(33.5)
All Size Classes	87.9	82.9	51.0	36.3	26.4	20.2
	(87.0)	(81.6)	(46.5)	(35.6)	(32.9)	(27.9)

Note: Figures in brackets are percentages for 2011-12

Area under selected crops treated with Chemical Fertilizers:-

5.11 The application of chemical fertilizers in irrigated cropped area is higher than that in Un-irrigated areas for each selected crop except in case of Cotton, Tur and Ragi during 2016-17. (5.3 to 5.13)

5.12 Over 90% of the irrigated area under each selected crop except, Cardamom (small), Coconut and Banana is treated with chemical fertilizers during 2016-17. The percentage of irrigated cropped area treated with chemical fertilizer is the highest for Coffee 99.7%, followed by, Paddy 98.8%, Sugarcane 97.0%, Cotton 95.9%, Groundnut 95.6%, Tur 93.8%, Ragi 90.8%, Jowar 90.7%, Cardamom (small) 83.9%, Banana 74.2% and Coconut 40.5% respectively. (Tables 5.3 to 5.13)

5.13 Under the irrigated area treated with chemical fertilizers, marginal holdings accounted for Coffee 100%, Sugarcane 99.5%, Groundnut 99.5%, in Paddy 99.1%, Tur, 95.0%, Ragi 91.1%, Cotton 89.1%, Jowar 83.3% and Banana 74.1% during 2016-17. (Tables 5.3 to 5.8, 5.10, 5.11 & 5.13)

5.14 Under the irrigated area treated with chemical fertilizers, small holdings accounted for highest 100.0% and semi medium holding accounted for the lowest 69.7% in respect of Cardamom (small) crop during 2016-17. (Table 5.11)

5.15 Under the Un-irrigated area treated with chemical fertilizers in all size classes Cotton crop is highest 97.1%, followed by 97.0% for Sugarcane, 96.5% for Tur, 95.5% for Coffee, 95.3% for Groundnut, 94.2% for Ragi, 91.1% for Paddy and Cardamom (small) crop is lowest 13.8%. Followed by 31.0% for Coconut, 41.3% for Jowar, 43.5 for Banana during 2016-17 under each selected crop. (Tables 5.3 to 5.13)

5.16 Under irrigated area treated with Farm Yard Manure for all the size classes accounted for higher share of 70.9% in Coffee, followed by, Coconut 69.9% & Sugarcane 39.7% and Tur being lowest at 10.6% during 2016-17 under each selected crop. (Table 5.8, 5.10, 5.11 & 5.12)

5.17 Under irrigated area treated with Farm Yard Manure, among the Semi medium holders Coconut has highest share of 75.1% and among the marginal and semi-medium holders, Coffee has highest Cent percent share under each selected crop during 2016-17. (Tables 5.3 to 5.13)

5.18 Under Un-irrigated area treated with Farm Yard Manure of all size class accounted for higher share of 95.7% under Cardamom (small). Paddy 63.2% and Ragi 53.3% under each selected crop during 2016-17. (Tables 5.3, 5.5 and 5.9)

5.19 Among different size groups, the marginal and small holders growing Cardamom (small) had the Cent percent share of Un-irrigated area treated with Farm Yard Manure during 2016-17. (Tables 5.9)

5.20 In case of Un-irrigated area treated with Farm Yard Manure for all size groups accounted for lowest share of 9.0% under Tur. Whereas, it is 10% in case of Jowar and 25.6% in Banana crop during 2016-17 under each selected crops. (Tables 5.4, 5.8 and 5.13)

5.21 Declining trend is observed in Un-irrigated area treated with Farm Yard Manure for all size groups under each selected crop during 2016-17 as compared to 2011-12 except in Sugarcane, Tur and Jowar crop. (Tables 5.4, 5.8 and 5.10).

Coverage of area under Pesticides:-

5.22 Under irrigated area treated with pesticides of all size classes, Paddy accounted for higher share of 57.8%, Cardamom (Small) 42.0%, Cotton 41.6% and Tur 34.5% during 2016-17 under each selected crop. (Tables 5.3, 5.7, 5.8 and 5.9)

5.23 The increase in irrigated area under Banana was treated with pesticides among all size classes which are as high as 31.6% in 2016-17 when compared to 19.7% during 2011-12. Among different size groups, the semi-medium holders growing Cardamom has the highest 45.1% of irrigated area treated with pesticides. (Table 5.13)

5.24 Under Un-irrigated area treated with pesticides for all size classes, Cotton accounted for higher share of 58.1%, Coffee 52.0%, Banana 37.0%, Tur and Cardamom (Small) 31.0% respectively during 2016-17 under each selected crop. (Tables 5.7, 5.8, 5.9, 5.11 and 5.13)

5.25 Among different size classes, the medium holdings growing Banana had the highest share of 98.0%, large holdings for 76.2% & Semi-medium holdings for 47.1% of Un-irrigated area treated with pesticides. While in case of marginal and small holdings, growing Cotton had the highest share of 69.0% & 63.2% respectively of Un-irrigated area treated with pesticides during 2016-17 under each selected crop. (Tables 5.7 and 5.13)

5.26 The decreasing trend is observed in Un-irrigated area for Tur was 87.5 during 2011-12 as compared to 35.5 in 2016-17. The decreasing trend was observed even in case of Cardamom and Groundnut. (Tables 5.6, 5.8 and 5.9)

Table 5.3**Percentage of area under Paddy treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	99.1 (98.6)	86.3 (68.6)	57.8 (50.4)	59.8 (61.7)	50.3 (52.5)	16.9 (21.0)
Small (1.00 to 1.99ha)	98.9 (97.7)	91.4 (62.7)	49.3 (42.1)	66.2 (54.0)	55.1 (64.6)	17.3 (17.7)
Semi Medium (2.00 to 3.99ha)	97.9 (97.8)	94.8 (607.8)	45.2 (36.2)	65.5 (50.5)	58.4 (65.3)	16.3 (15.3)
Medium (4.00 to 9.99ha)	99.6 (95.5)	94.2 (64.5)	34.5 (30.2)	63.3 (53.2)	67.3 (67.2)	14.4 (10.2)
Large (10.00ha & above)	99.3 (95.2)	83.1 (63.9)	24.8 (23.0)	47.9 (47.3)	68.6 (67.4)	10.4 (7.6)
All Size Classes	98.8 (97.3)	91.1 (63.8)	45.8 (38.5)	63.2 (54.3)	57.8 (63.1)	16.2 (15.9)

Note: Figures in brackets are percentages for 2011-12

Table 5.4**Percentage of area under Jowar treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	83.3 (86.5)	75.1 (80.4)	27.7 (29.4)	24.4 (32.3)	8.4 (6.9)	4.6 (4.3)
Small (1.00 to 1.99ha)	91.5 (90.7)	28.0 (82.8)	18.8 (29.5)	7.7 (28.7)	12.9 (13.3)	2.1 (5.4)
Semi Medium (2.00 to 3.99ha)	87.9 (92.3)	39.0 (84.1)	15.1 (35.2)	9.4 (24.1)	27.3 (10.2)	2.3 (6.6)
Medium (4.00 to 9.99ha)	94.9 (71.5)	52.1 (85.3)	10.3 (40.6)	8.8 (20.4)	6.3 (5.2)	6.1 (7.3)
Large (10.00ha & above)	94.6 (70.5)	90.7 (86.3)	14.6 (31.7)	19.8 (24.8)	12.0 (2.5)	7.6 (7.7)
All Size Classes	90.7 (82.6)	41.3 (83.9)	15.9 (34.5)	10.0 (25.2)	14.5 (8.3)	3.3 (6.3)

Note: Figures in brackets are percentages for 2011-12

Table 5.5**Percentage of area under Ragi treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	91.1 (90.8)	95.3 (86.3)	48.9 (42.7)	59.5 (50.5)	5.1 (3.0)	4.5 (2.8)
Small (1.00 to 1.99ha)	88.6 (93.7)	93.7 (88.8)	36.5 (45.9)	54.4 (46.9)	6.8 (8.2)	5.5 (2.2)
Semi Medium (2.00 to 3.99ha)	92.2 (90.9)	95.6 (85.2)	39.1 (48.2)	47.4 (42.3)	3.7 (4.3)	6.6 (2.1)
Medium (4.00 to 9.99ha)	93.9 (87.3)	90.6 (85.2)	36.7 (44.2)	37.9 (40.1)	4.7 (3.5)	4.3 (1.0)
Large (10.00ha & above)	87.6 (83.5)	103.6 (72.0)	21.7 (44.5)	22.8 (25.6)	0.7 (0.0)	8.7 (0.1)
All Size Classes	90.8 (91.1)	94.2 (86.5)	41.2 (45.4)	53.3 (46.2)	5.2 (4.9)	5.2 (2.3)

Note: Figures in brackets are percentages for 2011-12

Table 5.6**Percentage of area under Groundnut treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	99.5 (93.0)	90.5 (90.7)	39.1 (26.4)	20.1 (48.6)	37.2 (41.1)	7.3 (23.1)
Small (1.00 to 1.99ha)	98.1 (93.7)	118.7 (88.5)	35.6 (29.3)	26.3 (42.2)	30.2 (33.1)	16.5 (17.1)
Semi Medium (2.00 to 3.99ha)	88.4 (89.6)	98.1 (91.9)	19.3 (21.8)	451.7 (47.0)	33.7 (30.5)	23.7 (20.6)
Medium (4.00 to 9.99ha)	98.4 (93.2)	95.1 (88.6)	23.7 (23.6)	28.1 (45.1)	22.0 (40.5)	11.6 (16.9)
Large (10.00ha & above)	96.3 (96.5)	95.9 (88.1)	20.8 (42.6)	36.6 (43.0)	5.4 (28.8)	11.3 (18.8)
All Size Classes	95.6 (92.2)	95.3 (89.8)	27.8 (25.6)	28.5 (45.1)	28.6 (34.8)	15.4 (18.9)

Note: Figures in brackets are percentages for 2011-12

Table 5.7

Percentage of area under Cotton treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	89.1	95.3	25.5	30.6	48.3	69.0
	(93.7)	(93.0)	(42.4)	(53.2)	(53.0)	(41.3)
Small (1.00 to 1.99ha)	93.7	96.9	20.5	38.4	56.0	63.2
	(90.4)	(95.9)	(38.8)	(46.9)	(58.5)	(62.6)
Semi Medium (2.00 to 3.99ha)	96.2	97.3	21.6	37.2	43.6	51.8
	(96.9)	(95.3)	(25.8)	(40.4)	(63.4)	(55.6)
Medium (4.00 to 9.99ha)	99.6	98.2	17.4	33.2	28.9	54.8
	(96.3)	(93.7)	(33.2)	(40.5)	(62.6)	(62.7)
Large (10.00ha & above)	97.9	98.4	13.4	32.4	33.5	44.0
	(94.6)	(94.0)	(36.8)	(33.8)	(64.5)	(62.1)
All Size Classes	95.9	97.1	19.9	35.2	41.6	58.1
	(94.9)	(94.6)	(33.0)	(43.3)	(61.2)	(57.6)

Note: Figures in brackets are percentages for 2011-12

Table 5.8

Percentage of area under Tur treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	95.0	94.2	5.0	10.7	27.4	32.8
	(94.9)	(97.2)	(17.6)	(15.7)	(89.7)	(80.6)
Small (1.00 to 1.99ha)	99.1	96.4	20.1	9.0	42.3	29.8
	(99.8)	(98.0)	(1.8)	(19.4)	(79.9)	(88.7)
Semi Medium (2.00 to 3.99ha)	94.3	97.0	12.3	8.4	30.9	34.3
	(99.8)	(98.2)	(10.3)	(21.3)	(85.6)	(85.7)
Medium (4.00 to 9.99ha)	92.4	97.2	6.1	9.0	43.2	28.9
	(97.4)	(97.6)	(16.8)	(27.3)	(92.9)	(84.4)
Large (10.00ha & above)	88.2	94.9	10.9	9.8	11.9	27.7
	(100.0)	(97.5)	(9.3)	(25.4)	(86.7)	(87.6)
All Size Classes	93.8	96.5	10.6	9.0	34.5	31.0
	(98.6)	(97.8)	(11.4)	(22.6)	(87.5)	(85.8)

Note: Figures in brackets are percentages for 2011-12

Table 5.9

Percentage of area under Cardamom(small) treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	81.1 (0.0)	55.1 (77.4)	50 (0.0)	100 (35.3)	0 (0.0)	0 (45.7)
Small (1.00 to 1.99ha)	100.0 (91.0)	81.0 (94.0)	0 (95.5)	100 (31.4)	0 (91.0)	0 (94.0)
Semi Medium (2.00 to 3.99ha)	69.7 (96.9)	100.0 (93.4)	0 (56.0)	90.7 (84.3)	71.0 (96.9)	66.7 (93.4)
Medium (4.00 to 9.99ha)	89.4 (94.7)	0.0 (98.0)	0 (95.5)	0 (13.5)	0.0 (94.7)	0.0 (98.0)
Large (10.00ha & above)	96.3 (100.0)	0.0 (100.0)	1.8 (100.0)	0 (30.0)	31.3 (100.0)	0.0 (34.7)
All Size Classes	83.9 (95.1)	13.8 (91.4)	11.4 (81.7)	95.7 (34.9)	42.0 (95.1)	31.0 (54.6)

Note: Figures in brackets are percentages for 2011-12

Table 5.10

Percentage of area under Sugarcane treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	99.5 (99.1)	100.0 (88.7)	41.3 (59.1)	0.0 (100.0)	13.8 (10.5)	100.0 (8.8)
Small (1.00 to 1.99ha)	99.3 (99.1)	86.3 (95.5)	47.5 (51.7)	46.4 (100.0)	17.2 (12.1)	47.3 (1.3)
Semi Medium (2.00 to 3.99ha)	95.3 (99.5)	100.0 (99.3)	38.0 (56.6)	48.9 (91.3)	12.9 (8.3)	0.0 (0.0)
Medium (4.00 to 9.99ha)	95.9 (99.5)	100.0 (99.1)	36.2 (54.0)	57.2 (96.6)	11.6 (6.3)	0.0 (5.3)
Large (10.00ha & above)	97.2 (98.1)	100.0 (99.2)	36.9 (51.0)	0.0 (71.8)	12.8 (4.3)	0.0 (15.8)
All Size Classes	97.0 (99.2)	97.0 (96.8)	39.7 (54.4)	49.7 (94.8)	13.4 (8.6)	11.6 (3.7)

Note: Figures in brackets are percentages for 2011-12

Table 5.11**Percentage of area under Coffee treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups, 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	100	95.3	100	47.4	18.4	50.0
	(41.7)	(93.4)	(58.3)	(29.5)	(41.7)	(53.1)
Small (1.00 to 1.99ha)	99.5	96.2	90.0	40.5	27.7	58.1
	(84.3)	(94.5)	(40.8)	(36.0)	(62.3)	(39.3)
Semi Medium (2.00 to 3.99ha)	98.8	95.9	100	39.1	27.2	54.2
	(85.0)	(94.4)	(36.5)	(40.4)	(69.9)	(34.4)
Medium (4.00 to 9.99ha)	99.9	95.9	58.8	35.8	14.0	46.1
	(94.4)	(97.2)	(53.0)	(41.5)	(68.0)	(26.3)
Large (10.00ha & above)	99.9	94.7	37.9	28.0	10.4	52.4
	(99.8)	(98.9)	(63.6)	(38.3)	(63.6)	(30.8)
All Size Classes	99.7	95.5	70.9	36.3	17.0	52.0
	(89.1)	(96.0)	(49.2)	(38.1)	(65.5)	(34.6)

Note: Figures in brackets are percentages for 2011-12

Table 5.12**Percentage of area under Coconut treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	31.4	22.6	63.9	39.6	6.6	1.1
	(30.9)	(19.0)	(81.8)	(62.9)	(10.3)	(1.5)
Small (1.00 to 1.99ha)	36.5	26.5	74.0	37.7	8.3	5.3
	(29.9)	(16.5)	(80.2)	(72.2)	(4.2)	(1.7)
Semi Medium (2.00 to 3.99ha)	44.7	42.4	75.1	53.4	11.0	6.2
	(32.9)	(20.9)	(72.5)	(68.5)	(4.0)	(0.6)
Medium (4.00 to 9.99ha)	51.6	39.8	68.4	41.3	14.1	3.6
	(29.6)	(28.8)	(80.0)	(64.0)	(3.8)	(1.1)
Large (10.00ha & above)	51.9	52.5	55.0	57.0	8.4	3.6
	(31.7)	(62.2)	(66.5)	(29.7)	(4.4)	(1.5)
All Size Classes	40.5	31.0	69.9	42.8	9.4	4.0
	(30.9)	(23.6)	(77.6)	(65.0)	(5.1)	(1.2)

Note: Figures in brackets are percentages for 2011-12

Table 5.13**Percentage of area under Banana treated with Chemical Fertilizers, Farm Yard Manure and Pesticides by major groups 2016-17**

Category of holdings and Size classes	Percentage of area treated with					
	Chemical Fertilizer		Farm Yard Manure		Pesticides	
	Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	74.1 (63.9)	2.8 (4.7)	62.7 (55.5)	24.8 (23.7)	24.5 (5.0)	0.0 (58.5)
Small (1.00 to 1.99ha)	78.8 (81.5)	46.0 (56.2)	52.8 (33.8)	11.3 (28.8)	26.5 (19.5)	44.6 (15.6)
Semi Medium (2.00 to 3.99ha)	69.6 (82.9)	72.4 (28.1)	44.1 (45.5)	20.7 (12.7)	45.1 (22.4)	47.1 (5.9)
Medium (4.00 to 9.99ha)	75.0 (70.9)	97.3 (38.3)	46.2 (50.8)	71.1 (42.4)	27.4 (25.6)	98.0 (0.8)
Large (10.00ha & above)	74.5 (65.0)	31.8 (25.8)	38.1 (71.4)	62.3 (54.0)	17.7 (34.2)	76.2 (28.2)
All Size Classes	74.2 (76.8)	43.5 (38.9)	49.9 (44.9)	25.6 (27.4)	31.6 (19.7)	37.0 (20.6)

Note: Figures in brackets are percentages for 2011-12

6.0 Application of Plant Nutrients:-

6.1 The proportion of plant nutrients i.e. N, P and K applied to all crops reveals that in case of irrigated area, Nitrogen fertilizers decreased from 51.2% to 50.3% when compared to 2011-12 and Phosphorous fertilizers decreased from 32.4% to 27.6% but in case of Potash it has increased from 16.4% to 22.1% from 2011-12 to 2016-17. (Table 6.1)

6.2 The proportion N, P and K applied to all crops in Un-irrigated area during 2016-17 was 57.3%, 34.1% and 8.6% as against the 51.0%, 31.2% and 11.8% applied in 2011-12 respectively. (Table 6.1)

6.3 Among plant nutrients, the share of Nitrogen fertilizers is the highest in both irrigated and Un-irrigated areas. However, there is a marginal increase in share of application of Nitrogen fertilizers is more in Un-irrigated areas than in irrigated areas. (Table 6.1)

6.4 While there is a marginal decline in the proportionate share of application of Nitrogen fertilizers to all crops in small, medium & large holdings under irrigated area and in case of Un-irrigated area large holdings shows decline from 53.9 to 52.2% during 2016-17 as compared to 2011-12. In the other hand, the proportionate share of application of Phosphorous fertilizers decreased during 2016-17 in both irrigated and Un-irrigated areas except Marginal and large holdings in Un-irrigated area. (Table 6.1)

Table 6.1
Percentage of Plant Nutrients applied to all crops by major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	50.8	25.8	23.3	100.0	57.3	32.9	9.9	100.0
	(48.8)	(29.5)	(21.7)	(100.0)	(51.6)	(32.5)	(15.9)	(100.0)
Small (1.00 to 1.99ha)	49.6	27.7	22.7	100.0	57.0	34.5	8.5	100.0
	(49.9)	(33.4)	(16.7)	(100.0)	(49.1)	(37.7)	(13.2)	(100.0)
Semi Medium (2.00 to 3.99ha)	51.9	28.1	20.0	100.0	58.2	33.4	8.4	100.0
	(51.4)	(33.1)	(15.5)	(100.0)	(49.2)	(39.7)	(11.1)	(100.0)
Medium (4.00 to 9.99ha)	48.3	28.6	23.1	100.0	58.0	35.2	6.8	100.0
	(53.8)	(32.3)	(13.9)	(100.0)	(53.6)	(38.0)	(8.3)	(100.0)
Large (10.00ha & above)	50.8	31.3	17.9	100.0	52.2	38.3	9.5	100.0
	(53.4)	(33.8)	(12.8)	(100.0)	(53.9)	(37.6)	(8.4)	(100.0)
All Size Classes	50.3	27.6	22.1	100.0	57.3	34.1	8.6	100.0
	(51.2)	(32.4)	(16.4)	(100.0)	(51.0)	(37.2)	(11.8)	(100.0)

Note: Figures in brackets are percentages for 2011-12

6.5 The proportionate share of Nitrogen fertilizers applied to the each selected crop is higher in Un-irrigated area than in irrigated area except in case of Tur, Groundnut, Cotton during 2016-17. (Tables 6.2 to 6.12)

6.6 The lowest proportionate share of Nitrogen fertilizers applied to the all selected crop is recorded 45.1% under Coconut in irrigated area and 48.2% under Groundnut in Un-irrigated area during 2016-17. (Tables 6.9 and 6.10)

Table 6.2
Percentage of Plant Nutrients applied to Paddy by irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	47.8	27.4	24.8	100.0	60.8	28.6	10.6	100.0
	(47.5)	(31.1)	(21.4)	(100.0)	(56.0)	(27.9)	(16.1)	(100.0)
Small (1.00 to 1.99ha)	51.5	30.9	17.5	100.0	59.5	25.3	15.2	100.0
	(47.3)	(33.6)	(19.1)	(100.0)	(52.2)	(29.8)	(18.0)	(100.0)
Semi Medium (2.00 to 3.99ha)	54.2	27.8	18.0	100.0	62.5	23.9	13.6	100.0
	(54.5)	(30.9)	(14.7)	(100.0)	(50.1)	(34.9)	(15.0)	(100.0)
Medium (4.00 to 9.99ha)	53.9	30.1	16.0	100.0	62.9	26.7	10.4	100.0
	(58.5)	(29.7)	(11.7)	(100.0)	(58.2)	(31.6)	(10.1)	(100.0)
Large (10.00ha & above)	56.4	32.5	11.2	100.0	60.9	19.9	19.2	100.0
	(59.3)	(31.0)	(9.7)	(100.0)	(59.3)	(34.4)	(6.4)	(100.0)
All Size Classes	51.9	29.0	19.1	100.0	61.1	26.1	12.7	100.0
	(51.7)	(31.4)	(16.9)	(100.0)	(54.0)	(31.1)	(14.9)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.3

Percentage of Plant Nutrients applied to Jowar by irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	71.0	16.4	12.5	100.0	75.1	21.7	3.2	100.0
	(50.9)	(39.3)	(9.8)	(100.0)	(55.7)	(33.1)	(11.2)	(100.0)
Small (1.00 to 1.99ha)	53.0	13.1	33.9	100.0	67.6	25.7	6.7	100.0
	(52.7)	(38.6)	(8.7)	(100.0)	(50.8)	(41.8)	(7.4)	(100.0)
Semi Medium (2.00 to 3.99ha)	65.5	18.5	16.1	100.0	69.1	27.6	3.4	100.0
	(51.2)	(37.2)	(11.6)	(100.0)	(50.2)	(44.5)	(5.2)	(100.0)
Medium (4.00 to 9.99ha)	48.7	32.1	19.3	100.0	61.7	29.2	9.1	100.0
	(54.2)	(39.5)	(6.3)	(100.0)	(56.4)	(39.8)	(3.8)	(100.0)
Large (10.00ha & above)	58.7	25.1	16.2	100.0	59.9	23.0	17.1	100.0
	(61.3)	(37.5)	(1.2)	(100.0)	(57.9)	(39.0)	(3.1)	(100.0)
All Size Classes	59.4	20.5	20.2	100.0	68.1	26.0	5.9	100.0
	(53.1)	(38.4)	(8.4)	(100.0)	(53.5)	(40.4)	(6.1)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.4

Percentage of Plant Nutrients applied to Ragi by irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	49.7	35.2	15.2	100.0	54.7	38.7	6.5	100.0
	(56.5)	(27.8)	(15.6)	(100.0)	(57.4)	(31.1)	(11.4)	(100.0)
Small (1.00 to 1.99ha)	52.8	37.6	9.6	100.0	48.2	46.0	5.8	100.0
	(63.4)	(25.1)	(11.4)	(100.0)	(56.5)	(31.7)	(11.8)	(100.0)
Semi Medium (2.00 to 3.99ha)	47.4	40.9	11.7	100.0	48.0	46.1	5.9	100.0
	(58.3)	(30.5)	(11.2)	(100.0)	(55.1)	(34.8)	(10.1)	(100.0)
Medium (4.00 to 9.99ha)	58.2	38.0	3.8	100.0	43.8	51.5	4.7	100.0
	(53.4)	(30.9)	(15.7)	(100.0)	(53.3)	(37.1)	(9.6)	(100.0)
Large (10.00ha & above)	78.4	20.6	1.0	100.0	43.8	54.7	1.5	100.0
	(52.7)	(35.1)	(12.2)	(100.0)	(53.3)	(37.8)	(8.9)	(100.0)
All Size Classes	52.0	36.6	11.4	100.0	50.8	43.2	6.0	100.0
	(58.9)	(28.0)	(13.1)	(100.0)	(56.3)	(32.6)	(11.1)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.5**Percentage of Plant Nutrients applied to Banana by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	49.2	25.9	24.8	100.0	43.2	56.8	0.0	100.0
	(51.6)	(31.7)	(16.8)	(100.0)	(33.3)	(33.3)	(33.3)	(100.0)
Small (1.00 to 1.99ha)	46.5	26.5	27.0	100.0	70.1	29.9	0.0	100.0
	(52.8)	(32.1)	(15.0)	(100.0)	(40.2)	(13.9)	(45.8)	(100.0)
Semi Medium (2.00 to 3.99ha)	42.5	24.7	32.8	100.0	57.6	30.8	11.6	100.0
	(46.4)	(34.0)	(19.6)	(100.0)	(49.4)	(23.6)	(27.0)	(100.0)
Medium (4.00 to 9.99ha)	44.7	38.8	16.5	100.0	67.9	32.1	0.0	100.0
	(36.4)	(26.5)	(37.1)	(100.0)	(43.8)	(23.4)	(32.8)	(100.0)
Large (10.00ha & above)	46.6	32.8	20.6	100.0	64.4	31.7	3.9	100.0
	(36.5)	(28.7)	(34.8)	(100.0)	(25.0)	(25.0)	(50.0)	(100.0)
All Size Classes	45.5	28.4	26.0	100.0	62.6	31.6	5.9	100.0
	(47.6)	(31.7)	(20.7)	(100.0)	(40.9)	(20.6)	(38.5)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.6**Percentage of Plant Nutrients applied to Tur by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	73.4	26.4	0.2	100.0	67.2	32.8	0.0	100.0
	(58.8)	(41.2)	(0.0)	(100.0)	(49.6)	(44.8)	(5.6)	(100.0)
Small (1.00 to 1.99ha)	73.6	26.1	0.3	100.0	67.6	31.8	0.6	100.0
	(55.3)	(42.2)	(2.5)	(100.0)	(45.5)	(51.7)	(2.8)	(100.0)
Semi Medium (2.00 to 3.99ha)	73.3	26.0	0.8	100.0	62.7	36.6	0.7	100.0
	(56.1)	(40.8)	(3.2)	(100.0)	(45.8)	(50.3)	(3.9)	(100.0)
Medium (4.00 to 9.99ha)	59.3	40.2	0.5	100.0	56.1	43.4	0.5	100.0
	(58.5)	(39.9)	(1.6)	(100.0)	(55.3)	(41.8)	(2.8)	(100.0)
Large (10.00ha & above)	45.8	53.1	1.1	100.0	57.7	41.2	1.1	100.0
	(68.0)	(30.9)	(1.0)	(100.0)	(55.2)	(42.0)	(2.9)	(100.0)
All Size Classes	67.6	31.8	0.5	100.0	62.6	36.8	0.6	100.0
	(57.7)	(40.1)	(2.2)	(100.0)	(50.3)	(46.4)	(3.3)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.7

Percentage of Plant Nutrients applied to Sugarcane by irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	55.9	15.7	28.4	100.0	54.1	23.0	23.0	100.0
	(52.5)	(25.6)	(21.9)	(100.0)	(53.5)	(25.4)	(21.1)	(100.0)
Small (1.00 to 1.99ha)	54.7	18.8	26.4	100.0	61.7	37.1	1.2	100.0
	(51.6)	(31.7)	(16.7)	(100.0)	(70.9)	(3.3)	(25.8)	(100.0)
Semi Medium (2.00 to 3.99ha)	54.9	21.1	24.0	100.0	54.7	22.2	23.1	100.0
	(49.9)	(33.8)	(16.3)	(100.0)	(35.7)	(37.0)	(27.3)	(100.0)
Medium (4.00 to 9.99ha)	50.7	22.8	26.5	100.0	66.2	21.2	12.7	100.0
	(51.5)	(31.6)	(16.9)	(100.0)	(39.4)	(36.5)	(24.1)	(100.0)
Large (10.00ha & above)	45.6	31.1	23.3	100.0	100.0	0.0	0.0	100.0
	(49.4)	(33.9)	(16.7)	(100.0)	(39.3)	(19.6)	(41.1)	(100.0)
All Size Classes	54.2	19.4	26.3	100.0	58.6	26.3	15.1	100.0
	(51.0)	(31.9)	(17.1)	(100.0)	(43.0)	(31.6)	(25.3)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.8

Percentage of Plant Nutrients applied to Cardamom (Small) by irrigation status in major groups 2016-17

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	58.4	41.6	0.0	100.0	97.7	2.3	0.0	100.0
	(0.0)	(0.0)	(0.0)	(0.0)	(46.9)	(21.7)	(31.4)	(100.0)
Small (1.00 to 1.99ha)	31.7	68.3	0.0	100.0	91.8	8.2	0.0	100.0
	(27.2)	(15.5)	(57.3)	(100.0)	(38.6)	(29.0)	(32.4)	(100.0)
Semi Medium (2.00 to 3.99ha)	27.8	0.0	72.2	100.0	85.4	11.8	2.8	100.0
	(28.1)	(16.1)	(55.8)	(100.0)	(47.5)	(21.3)	(31.1)	(100.0)
Medium (4.00 to 9.99ha)	48.7	51.3	0.0	100.0	0.0	0.0	0.0	0.0
	(30.0)	(15.3)	(54.7)	(100.0)	(41.4)	(22.4)	(36.2)	(100.0)
Large (10.00ha & above)	83.7	11.2	5.2	100.0	0.0	0.0	0.0	0.0
	(34.5)	(15.1)	(50.4)	(100.0)	(47.0)	(46.5)	(6.5)	(100.0)
All Size Classes	54.0	39.5	6.4	100.0	95.2	4.5	0.3	100.0
	(29.9)	(15.6)	(54.5)	(100.0)	(44.7)	(32.1)	(23.3)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.9**Percentage of Plant Nutrients applied to Coconut by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-Irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	50.6	13.0	36.4	100.0	63.5	27.6	8.9	100.0
	(47.3)	(25.3)	(27.4)	(100.0)	(46.3)	(25.2)	(28.5)	(100.0)
Small (1.00 to 1.99ha)	39.5	15.0	45.6	100.0	56.4	39.3	4.3	100.0
	(44.4)	(32.8)	(22.7)	(100.0)	(52.1)	(24.7)	(23.3)	(100.0)
Semi Medium (2.00 to 3.99ha)	51.5	31.0	17.5	100.0	56.1	37.7	6.3	100.0
	(43.9)	(26.1)	(30.0)	(100.0)	(49.5)	(31.9)	(18.6)	(100.0)
Medium (4.00 to 9.99ha)	40.4	32.2	27.4	100.0	48.3	50.0	1.7	100.0
	(46.3)	(33.4)	(20.3)	(100.0)	(65.5)	(11.4)	(23.0)	(100.0)
Large (10.00ha & above)	34.0	28.0	38.0	100.0	51.2	46.1	2.7	100.0
	(41.6)	(41.3)	(17.0)	(100.0)	(92.6)	(3.3)	(4.1)	(100.0)
All Size Classes	45.1	20.1	34.8	100.0	55.7	39.0	5.3	100.0
	(45.3)	(28.8)	(25.9)	(100.0)	(57.8)	(20.6)	(21.6)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.10**Percentage of Plant Nutrients applied to Groundnut by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-Irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	54.7	40.3	5.0	100.0	44.3	51.2	4.5	100.0
	(47.4)	(33.8)	(18.8)	(100.0)	(41.2)	(32.9)	(25.9)	(100.0)
Small (1.00 to 1.99ha)	50.7	29.0	20.3	100.0	48.4	44.6	7.0	100.0
	(44.5)	(37.0)	(18.5)	(100.0)	(47.1)	(35.8)	(17.1)	(100.0)
Semi Medium (2.00 to 3.99ha)	52.2	32.5	15.3	100.0	46.5	45.3	8.1	100.0
	(47.9)	(37.8)	(14.3)	(100.0)	(44.6)	(40.9)	(14.5)	(100.0)
Medium (4.00 to 9.99ha)	56.5	27.6	15.9	100.0	54.5	39.2	6.2	100.0
	(53.2)	(36.3)	(10.6)	(100.0)	(53.5)	(35.4)	(11.1)	(100.0)
Large (10.00ha & above)	39.4	49.4	11.2	100.0	44.0	48.9	7.1	100.0
	(57.2)	(37.6)	(5.2)	(100.0)	(57.3)	(33.9)	(8.8)	(100.0)
All Size Classes	52.7	32.4	14.9	100.0	48.2	45.1	6.7	100.0
	(49.1)	(36.8)	(14.1)	(100.0)	(47.2)	(36.3)	(16.4)	(100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.11**Percentage of Plant Nutrients applied to Cotton by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-Irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	70.8 (44.4)	24.4 (39.8)	4.8 (15.8)	100.0 (100.0)	66.5 (52.3)	27.7 (30.1)	5.8 (17.6)	100.0 (100.0)
Small (1.00 to 1.99ha)	66.6 (51.5)	29.3 (40.3)	4.1 (8.2)	100.0 (100.0)	66.9 (50.8)	26.6 (36.4)	6.5 (12.8)	100.0 (100.0)
Semi Medium (2.00 to 3.99ha)	68.3 (55.1)	26.3 (37.8)	5.4 (7.0)	100.0 (100.0)	66.6 (54.1)	29.0 (36.0)	4.4 (10.0)	100.0 (100.0)
Medium (4.00 to 9.99ha)	78.2 (53.8)	17.6 (38.3)	4.2 (7.9)	100.0 (100.0)	69.7 (57.6)	27.0 (35.6)	3.2 (6.8)	100.0 (100.0)
Large (10.00ha & above)	61.4 (54.6)	18.4 (39.6)	20.2 (5.7)	100.0 (100.0)	60.8 (61.7)	33.7 (34.7)	5.5 (3.5)	100.0 (100.0)
All Size Classes	70.2 (52.8)	24.1 (38.8)	5.7 (8.4)	100.0 (100.0)	67.2 (54.3)	27.8 (35.0)	5.1 (10.8)	100.0 (100.0)

Note: Figures in brackets are percentages for 2011-12

Table 6.12**Percentage of Plant Nutrients applied to Coffee by irrigation status in major groups 2016-17**

Category of holdings and Size classes	Percentage of Plant Nutrients applied in							
	Irrigated area				Un-Irrigated area			
	N	P	K	TOTAL	N	P	K	TOTAL
1	2	3	4	5	6	7	8	9
Marginal (Below 0.99ha)	79.6 (27.5)	18.4 (72.5)	2.0 (0.0)	100.0 (100.0)	73.1 (44.3)	15.4 (32.2)	11.5 (23.6)	100.0 (100.0)
Small (1.00 to 1.99ha)	66.9 (28.0)	30.3 (19.7)	2.8 (52.3)	100.0 (100.0)	53.8 (44.4)	33.0 (31.5)	13.2 (24.2)	100.0 (100.0)
Semi Medium (2.00 to 3.99ha)	48.2 (26.7)	34.0 (16.0)	17.8 (57.3)	100.0 (100.0)	52.2 (44.0)	35.2 (31.4)	12.7 (24.6)	100.0 (100.0)
Medium (4.00 to 9.99ha)	48.1 (34.8)	32.8 (19.3)	19.1 (46.0)	100.0 (100.0)	61.3 (45.8)	29.3 (28.0)	9.4 (26.2)	100.0 (100.0)
Large (10.00ha & above)	48.2 (34.3)	39.4 (16.9)	12.4 (48.7)	100.0 (100.0)	49.0 (40.5)	39.1 (31.9)	12.0 (27.6)	100.0 (100.0)
All Size Classes	55.3 (31.2)	32.0 (18.5)	12.7 (50.3)	100.0 (100.0)	58.3 (44.1)	30.2 (30.7)	11.5 (25.2)	100.0 (100.0)

Note: Figures in brackets are percentages for 2011-12

7.0 Rate of application of plant nutrients:-

7.1 The rate of application of Nitrogen fertilizers to all crops is higher in irrigated area than in Un-irrigated areas for each size class. The treatment of 'N', 'P' & 'K' to all crops is in the order of 109 Kgs/ha, 60 Kgs/ha and 48 Kgs/ha respectively in irrigated areas as against 74 Kgs/ha, 44 Kgs/ha and 11 Kgs/ha respectively in Un-irrigated areas during 2016-17. (Table 7.1)

7.2 The rate of application of Nitrogen fertilizers to all crops is found to be the highest in the marginal holdings in both irrigated and Un-irrigated areas is 164 Kgs/ha and 105 Kgs/ha respectively. (Table 7.1)

7.3 The lowest rate of application of Nitrogen fertilizers in irrigated large holdings is 56 Kgs/ha and Un-irrigated large holdings is 49 Kgs/ha during 2016-17. (Table 7.1)

7.4 The marginal holdings accounted for the application of Phosphorous fertilizers has the highest rate of 84 Kgs/ha in irrigated area and 61 Kgs/ha in Un-irrigated area. The lowest rate of application reported under large holdings is at 35 Kgs/ha in irrigated area 36 Kgs/ha in Un-irrigated area both medium and large holdings. (Table 7.1)

7.5 The application of Potash fertilizer is the highest at 75 Kgs/ha in irrigated area and 18 Kgs/ha in Un-irrigated areas for marginal holdings and the lowest rate of application is reported under large holding 20 Kgs/ha in irrigated area and in case of Un-irrigated area is 07 Kgs/ha in medium holdings. (Table 7.1)

Table 7.1
Application of plant Nutrients applied to all crops by irrigation status 2016-17

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-Irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	164	84	75	105	61	18
	(148)	(89)	(66)	(101)	(63)	(31)
Small (1.00 to 1.99ha)	123	69	56	76	46	11
	(106)	(71)	(35)	(66)	(51)	(18)
Semi Medium (2.00 to 3.99ha)	103	56	39	68	39	10
	(115)	(74)	(35)	(60)	(48)	(14)
Medium (4.00 to 9.99ha)	78	46	37	59	36	7
	(113)	(68)	(29)	(71)	(51)	(11)
Large (10.00ha & above)	56	35	20	49	36	9
	(115)	(73)	(28)	(74)	(52)	(12)
All Size Classes	109	60	48	74	44	11
	(117)	(74)	(37)	(71)	(52)	(17)

Note: Figures in brackets are percentages for 2011-12

Rate of application of plant nutrients under selected crops:-

7.6 The rate of application of Nitrogen fertilizers is decreased for each selected crops except Cotton, Coconut and Banana in irrigated area. While in case of Un-irrigated area, it is increased for each selected crops except Paddy, Jowar, Groundnut, Tur and Sugarcane during 2016-17 as compared to 2011-12 (Tables 7.2 to 7.12)

7.7 The highest rate of application of Nitrogen fertilizers reported for Coconut crop under irrigated area is 189 Kgs/ha and Cardamom (small) crop under Un-irrigated area is 591 Kgs/ha during 2016-17 (Table 7.8 and 7.11)

7.8 The lowest rate of application of the Nitrogen fertilizers i.e. 9 Kgs/ha is reported in Cardamom (small) crop under irrigated area and 46 Kgs/ha in case of Tur crop under Un-irrigated area. (Table 7.7 & 7.8)

7.9 The sharp decline in the rate of application of Nitrogen fertilizers under irrigated area 52 Kgs/ha for Paddy crop during 2016-17 when compared to 121 Kgs/ha during 2011-12. (Table 7.2)

7.10 The rate of application of Nitrogen fertilizers is highest in marginal holdings under Coconut crop 332 Kgs/ha in irrigated area and in case of Un-irrigated area it is observed in marginal holdings at 848 Kgs/ha under Cardamom (small) crop in 2016-17. (Tables 7.8 & 7.11)

7.11 The rate of application of Phosphorous fertilizers in both irrigated & Un-irrigated area decreased, except Ragi, Coconut and Banana in both irrigated & Un-irrigated area during 2016-17 as compared to the previous census 2011-12 for each selected crop. (Tables 7.2 to 7.12)

7.12 The highest rate of application of the Phosphorous fertilizers is reported under Coconut and Banana crop in both irrigated & Un-irrigated areas with 85 Kgs/ha and 77 Kgs/ha then 74 Kgs/ha and 55 Kgs/ha respectively during 2016-17 for each selected crop. (Table 7.11 & 7.12)

7.13 The highest rate of application of Phosphorous fertilizers in medium holdings is reported under Coconut is 94 Kgs/ha in irrigated area and marginal holdings is reported under Banana is 213 Kgs/ha in Un-irrigated area during 2016-17 for each selected crop. (Table 7.11 to 7.12)

7.14 The mixed trend is observed in the rate of application of Potash fertilizers during 2016-17 in all selected crops, as compared to 2011-12. (Tables 7.2 to 7.12)

7.15 The rate of application of Potash fertilizer is highest in small holdings under Coconut crop in irrigated area is 261 Kgs/ha and in Un-irrigated area marginal holdings for Coffee crop is 64 Kgs/ha during 2016-17. (Tables 7.10 & 7.11)

Table 7.2**Application of Plant Nutrients applied to Paddy by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	48	27	25	61	29	11
	(151)	(99)	(68)	(119)	(59)	(34)
Small (1.00 to 1.99ha)	52	31	18	60	25	15
	(103)	(73)	(41)	(88)	(50)	(30)
Semi Medium (2.00 to 3.99ha)	54	28	18	63	24	14
	(117)	(67)	(32)	(90)	(62)	(27)
Medium (4.00 to 9.99ha)	54	30	16	63	27	10
	(121)	(62)	(24)	(99)	(54)	(17)
Large (10.00ha & above)	56	32	11	61	20	19
	(113)	(59)	(19)	(92)	(53)	(10)
All Size Classes	52	29	19	61	26	13
	(121)	(73)	(39)	(98)	(56)	(27)

Note: Figures in brackets are percentages for 2011-12

Table 7.3**Application of plant Nutrients applied to Jowar by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	103	24	18	95	27	4
	(88)	(68)	(17)	(88)	(52)	(18)
Small (1.00 to 1.99ha)	57	14	37	58	22	6
	(73)	(54)	(12)	(58)	(48)	(9)
Semi Medium (2.00 to 3.99ha)	65	18	16	70	28	3
	(90)	(65)	(20)	(52)	(46)	(5)
Medium (4.00 to 9.99ha)	34	22	14	38	18	6
	(82)	(60)	(10)	(64)	(45)	(4)
Large (10.00ha & above)	33	14	9	43	17	12
	(93)	(57)	(2)	(69)	(47)	(4)
All Size Classes	55	19	19	61	23	5
	(83)	(60)	(13)	(62)	(47)	(7)

Note: Figures in brackets are percentages for 2011-12

Table 7.4**Application of plant Nutrients applied to Ragi by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	91	65	28	108	76	13
	(110)	(54)	(31)	(98)	(53)	(20)
Small (1.00 to 1.99ha)	94	67	17	108	103	13
	(108)	(43)	(19)	(75)	(42)	(16)
Semi Medium (2.00 to 3.99ha)	68	59	17	78	75	10
	(87)	(45)	(17)	(69)	(43)	(13)
Medium (4.00 to 9.99ha)	54	35	4	66	78	7
	(64)	(37)	(19)	(64)	(45)	(12)
Large (10.00ha & above)	122	32	2	50	62	2
	(81)	(54)	(19)	(60)	(43)	(10)
All Size Classes	84	59	18	97	83	12
	(97)	(46)	(22)	(81)	(47)	(16)

Note: Figures in brackets are percentages for 2011-12

Table 7.5**Application of Plant Nutrients applied to Groundnuts by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	86	63	8	51	59	5
	(91)	(65)	(36)	(76)	(60)	(47)
Small (1.00 to 1.99ha)	70	40	28	50	46	7
	(69)	(58)	(29)	(53)	(40)	(19)
Semi Medium (2.00 to 3.99ha)	59	36	17	55	53	10
	(90)	(71)	(27)	(42)	(38)	(14)
Medium (4.00 to 9.99ha)	63	31	18	53	38	6
	(79)	(54)	(16)	(51)	(34)	(11)
Large (10.00ha & above)	33	41	9	32	36	5
	(97)	(64)	(9)	(49)	(29)	(8)
All Size Classes	65	40	18	51	47	7
	(83)	(62)	(24)	(52)	(40)	(18)

Note: Figures in brackets are percentages for 2011-12

Table 7.6**Application of Plant Nutrients applied to Cotton by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	128	44	9	124	52	11
	(86)	(77)	(30)	(95)	(55)	(32)
Small (1.00 to 1.99ha)	108	47	7	85	34	8
	(90)	(70)	(14)	(77)	(55)	(19)
Semi Medium (2.00 to 3.99ha)	86	33	7	75	33	5
	(95)	(65)	(12)	(71)	(47)	(13)
Medium (4.00 to 9.99ha)	86	19	5	79	31	4
	(79)	(56)	(12)	(81)	(50)	(10)
Large (10.00ha & above)	52	16	17	44	24	4
	(98)	(71)	(10)	(90)	(50)	(5)
All Size Classes	92	32	7	84	35	6
	(89)	(65)	(14)	(79)	(51)	(16)

Note: Figures in brackets are percentages for 2011-12

Table 7.7**Application of Plant Nutrients applied to Tur by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	89	32	0	70	34	0
	(76)	(54)	(0)	(72)	(65)	(8)
Small (1.00 to 1.99ha)	89	32	0	56	26	1
	(96)	(73)	(4)	(49)	(55)	(3)
Semi Medium (2.00 to 3.99ha)	78	28	1	45	26	0
	(88)	(64)	(5)	(48)	(53)	(4)
Medium (4.00 to 9.99ha)	47	32	0	35	27	0
	(79)	(54)	(2)	(77)	(58)	(4)
Large (10.00ha & above)	27	32	1	32	23	1
	(115)	(52)	(2)	(92)	(70)	(5)
All Size Classes	65	31	1	46	27	0
	(87)	(61)	(3)	(62)	(57)	(4)

Note: 1. Figures in brackets are percentages for 2011-12

Table 7.8
Application of Plant Nutrients applied to Cardamom (small) by
irrigation status 2016-17

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	3	2	0	848	20	0
	(0)	(0)	(0)	(220)	(102)	(147)
Small (1.00 to 1.99ha)	18	39	0	288	26	0
	(346)	(198)	(728)	(255)	(191)	(214)
Semi Medium (2.00 to 3.99ha)	1	0	3	509	70	17
	(337)	(193)	(668)	(157)	(70)	(103)
Medium (4.00 to 9.99ha)	2	2	0	0	0	0
	(357)	(183)	(651)	(166)	(90)	(145)
Large (10.00ha & above)	25	3	2	0	0	0
	(366)	(160)	(534)	(152)	(151)	(21)
All Size Classes	9	7	1	591	28	2
	(350)	(183)	(640)	(187)	(135)	(98)

Note: 1. Figures in brackets are percentages for 2011-12

Table 7.9
Application of Plant Nutrients applied Sugarcane by irrigation status 2016-17

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	270	76	137	20	8	8
	(213)	(104)	(89)	(95)	(45)	(38)
Small (1.00 to 1.99ha)	178	61	86	104	63	2
	(142)	(87)	(46)	(152)	(7)	(55)
Semi Medium (2.00 to 3.99ha)	112	43	49	65	27	28
	(164)	(111)	(54)	(67)	(70)	(52)
Medium (4.00 to 9.99ha)	62	28	32	45	15	9
	(156)	(95)	(51)	(149)	(138)	(91)
Large (10.00ha & above)	35	24	18	56	0	0
	(151)	(104)	(51)	(86)	(43)	(89)
All Size Classes	126	45	61	67	30	17
	(159)	(99)	(53)	(105)	(77)	(62)

Note: Figures in brackets are percentages for 2011-12

Table 7.10**Application of Plant Nutrients applied to Coffee by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	86	20	2	404	85	64
	(112)	(296)	(0)	(193)	(140)	(103)
Small (1.00 to 1.99ha)	79	36	3	176	108	43
	(171)	(120)	(319)	(147)	(104)	(80)
Semi Medium (2.00 to 3.99ha)	51	36	19	159	107	38
	(156)	(94)	(334)	(131)	(93)	(73)
Medium (4.00 to 9.99ha)	34	23	13	233	111	36
	(243)	(134)	(321)	(154)	(94)	(88)
Large (10.00ha & above)	25	20	6	121	97	30
	(183)	(90)	(260)	(77)	(60)	(52)
All Size Classes	44	25	10	198	103	39
	(186)	(110)	(300)	(133)	(93)	(76)

Note: Figures in brackets are percentages for 2011-12

Table 7.11**Application of Plant Nutrients applied Coconut by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	332	85	239	102	44	14
	(178)	(95)	(103)	(100)	(54)	(62)
Small (1.00 to 1.99ha)	226	86	261	71	50	5
	(88)	(65)	(45)	(38)	(18)	(17)
Semi Medium (2.00 to 3.99ha)	129	78	44	123	82	14
	(93)	(55)	(64)	(38)	(24)	(14)
Medium (4.00 to 9.99ha)	118	94	80	156	162	5
	(56)	(40)	(25)	(54)	(9)	(19)
Large (10.00ha & above)	86	71	96	133	120	7
	(38)	(38)	(16)	(79)	(3)	(3)
All Size Classes	189	85	146	109	77	10
	(96)	(61)	(55)	(59)	(21)	(22)

Note: Figures in brackets are percentages for 2011-12

Table 7.12**Application of Plant Nutrients applied to Banana by irrigation status 2016-17**

(In Kgs. Per ha.)

Category of holdings and Size classes	Rate of Application of Plant Nutrients in					
	Irrigated area			Un-Irrigated area		
	N	P	K	N	P	K
1	2	3	4	5	6	7
Marginal (Below 0.99ha)	159	84	80	162	213	0
	(157)	(96)	(51)	(552)	(552)	(552)
Small (1.00 to 1.99ha)	128	73	74	125	53	0
	(82)	(50)	(23)	(55)	(19)	(63)
Semi Medium (2.00 to 3.99ha)	111	65	86	104	56	21
	(89)	(65)	(37)	(145)	(69)	(79)
Medium (4.00 to 9.99ha)	102	88	38	106	50	0
	(63)	(46)	(65)	(93)	(50)	(70)
Large (10.00ha & above)	56	39	25	48	24	3
	(68)	(54)	(65)	(24)	(24)	(48)
All Size Classes	119	74	68	108	55	10
	(90)	(60)	(39)	(81)	(41)	(76)

Note: Figures in brackets are percentages for 2011-12

Application of Organic Manures:-

7.16 As in the case of chemical fertilizers, the rate of application of farm yard manure, which is the prime organic manure in practice, is higher in irrigated areas than in unirrigated areas for each selected crop (with the exception of application to Paddy, Jowar, Ragi, Tur and Cardamom) in 2016-17 for all size classes. (Table 7.13)

7.17 As against the rate of application of 4228 Kgs/ha of farm yard manure to all crops in irrigated areas during 2016-17, the rate of application of farm yard manure under selected crops, viz., 7404 Kgs/ha for Banana, 5575 Kgs/ha for Coconut, 4470 Kgs/ha for Sugarcane, 4175 Kgs/ha for Cotton, 3544 Kgs/ha for Groundnut and 1799 Kgs/ha for Coffee is comparatively on a higher side during 2016-17. (Table 7.13)

7.18 The rate of application of farm yard manure in Un-irrigated areas is higher in the cases of Paddy 4094 Kgs/ha, Ragi 6481 Kgs/ha, Jowar 5250 Kgs/ha, Tur 4517 Kgs/ha and Cardamom 2682 Kgs/ha during 2016-17. (Table 7.13)

7.19 The rate of application of Farm Yard Manure under different categories of holdings is found to be higher for marginal holdings in irrigated area is 5630 Kgs/ha & for marginal holdings in Un-irrigated area is 4941 Kgs/ha during 2016-17 for all crops (Table 7.13)

7.20 The rate of application of farm yard manure in Banana crop is the highest 22856 Kgs/ha in marginal holdings under irrigated area and Paddy crop is the highest 12485 Kgs/ha in medium holdings under Un-irrigated area during 2016-17. (Table 7.13)

7.21 The rate of application of farm yard manure Cardamom is nil in medium holdings both irrigated and Un-irrigated area. Small and semi medium holdings are nil in irrigated area, large holding is nil in Un-irrigated area and Cardamom crop is the lowest 4 Kgs/ha in marginal holdings under irrigated area. (Table-7.13)

7.22 In the case of semi medium holdings, the rate of application of farm yard manure is the highest in Coconut crop i.e. 4986 Kgs/ha and semi medium in Tur is 6781 Kgs/ha for irrigated and Un-irrigated areas (Table 7.13)

7.23 In the case of medium holdings, the rate of application of farm yard manure is the highest in Jowar crop i.e. 5025 Kgs/ha in irrigated area & in Un-irrigated area, Paddy is 12485 Kgs/ha (Table 7.13).

7.24 In case of large holdings, the rate of application of farm yard manure is the highest in Sugarcane crop i.e. 4284 Kgs/ha in irrigated area and in un-irrigated area, it is 3940 Kgs/ha for Tur crop. (Table 7.13)

7.25 The rate of application of farm yard manure showed a declining trend in both irrigated and Un-irrigated areas during 2016-17 except in large holdings in irrigated area when compared to the corresponding period of 2011-12 for all crops. (Table 7.13)

7.26 The rate of application of oil cakes decreased except in small holdings in Un-irrigated area and large holdings in irrigated area during 2016-17, when compared to its position during 2011-12. (Table 7.14)

7.27 The rate of application of oil cakes to all crops under irrigated area is decreased in large 198 kgs/h and small 322 Kgs/ha as against its application of 480 Kgs/ha for all size classes. Whereas, under Un-irrigated area it is increased in large holdings with 412 Kgs/ha as against its application of 321 Kgs/ha for all size classes during 2016-17. (Table 7.14)

Table 7.13

Rate of application of Farm Yard Manure to the selected crops and all crops 2015-16

(In Kgs. Per. ha)

Size Groups Crops	Rate of Application of FYM											
	Marginal		Small		Semi Medium		Medium		Large		All Size Classes	
	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	3424	2927	3049	2623	2267	2075	1757	12485	506	1585	2670	4094
	(3377)	(2830)	(3381)	(2594)	(3063)	(2061)	(2629)	(1533)	(2460)	(1591)	(3149)	(2288)
Jower	2231	3589	2813	10314	1535	2776	5025	3479	1861	1768	2661	5250
	(1308)	(5583)	(3606)	(3843)	(3947)	(3457)	(2210)	(3522)	(6162)	(2559)	(3175)	(3815)
Ragi	5104	7170	4907	6037	3855	5815	1976	5339	473	2718	4479	6481
	(2716)	(3525)	(3375)	(2564)	(3201)	(2311)	(3200)	(2308)	(1963)	(1238)	(3099)	(2861)
Groundnut	4562	4131	2865	4278	3514	2591	4159	2446	1859	1356	3544	3030
	(2234)	(3177)	(3764)	(2386)	(2488)	(2720)	(2931)	(2113)	(5396)	(1864)	(3175)	(2481)
Cotton	7770	3407	4604	3447	3721	2158	2463	1962	2386	1560	4175	2650
	(10581)	(3165)	(8084)	(3199)	(6543)	(3130)	(3790)	(1901)	(4312)	(2545)	(6509)	(2846)
Tur	4610	6902	5997	4442	1498	6781	2984	1631	876	3940	3295	4517
	(3367)	(3905)	(2824)	(1405)	(826)	(933)	(1154)	(865)	(1049)	(567)	(1333)	(1106)
cardamom	4	2470	(0)	2468	(0)	2951	(0)	(0)	1512	(0)	55	2682
	(0)	(2224)	(1741)	(2786)	(1000)	(731)	(1197)	(1950)	(1229)	(181)	(1264)	(1320)
Sugarcane	6639	(0)	4550	1075	4068	4368	3604	3103	4284	(0)	4470	3228
	(7189)	(2613)	(7594)	(9333)	(8473)	(14331)	(7092)	(4989)	(7922)	(2000)	(7731)	(8537)
Coffee	388	1325	3146	1512	1831	1015	2328	692	82	931	1799	1093
	(1600)	(2527)	(988)	(1321)	(1793)	(1588)	(1178)	(2003)	(1378)	(1230)	(1400)	(1646)
Coconut	5399	4937	7275	6505	4986	4613	4723	3082	1570	2798	5575	5041
	(3053)	(3079)	(3418)	(2967)	(2494)	(1764)	(2171)	(1737)	(9977)	(9256)	(6220)	(8815)
Banana	22856	5391	3022	2714	3980	1971	2349	2041	2289	1486	7404	2794
	(6173)	(11385)	(14725)	(1115)	(6275)	(1500)	(3616)	(1668)	(5992)	(2875)	(1283)	(8311)
All Crops	5016	5381	4450	4783	3343	3628	3081	5082	2267	2004	3943	4580
	(4924)	(3535)	(5095)	(2847)	(5017)	(2582)	(4436)	(2228)	(4995)	(1806)	(4887)	(2716)

Note: 1. Figures in brackets are percentages for 2011-12

2. '-' indicates Nil

Table 7.14

Rate of application of Oil Cakes to the selected crops and All crops 2015-16

(In Kgs. Per ha.)

Size Groups Crops	Rate of Application of Oil cakes											
	Marginal		Small		Semi Medium		Medium		Large		All Size Classes	
	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	1157	77	242	168	479	452	315	209	139	0	462	160
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1852)	(0)	(0)	(0)	(1852)
Jower	0	0	0	0	0	0	0	195	0	0	0	195
	(0)	(0)	(0)	(0)	(0)	(0)	(400)	(0)	(0)	(0)	(400)	(0)
Ragi	(0)	36	(0)	22	249	278	(0)	248	(0)	(0)	249	163
	(0)	(731)	(0)	(0)	(152)	(0)	(83)	(0)	(0)	(0)	(144)	(731)
Groundnut	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(0)	(0)	(0)	(0)	(0)	(6179)	(0)	(0)	(0)	(0)	(0)	(6179)
Cotton	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Tur	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(0)	(0)	(0)	(0)	(1200)	(0)	(0)	(200)	(0)	(0)	(1200)	(200)
cardamom	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Sugarcane	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(125)	(0)	(249)	(0)	(74)	(0)	(121)	(0)	(0)	(0)	(124)	(0)
Coffee	(0)	(660)	(165)	352	213	(1058)	(872)	554	101	534	356	631
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Coconut	752	18	594	29	629	150	518	383	242	30	560	130
	(140)	(169)	(182)	(458)	(293)	(417)	(618)	(433)	(512)	(242)	(357)	(384)
Banana	(0)	(0)	(0)	(0)	206	(0)	(0)	(0)	2056	(0)	675	(0)
	(353)	(0)	(290)	(0)	(515)	(0)	(467)	(2429)	(308)	(500)	(390)	(2000)
All Crops	752	329	426	201	516	608	596	443	231	529	506	424
	(608)	(552)	(773)	(427)	(319)	(795)	(387)	(365)	(440)	(274)	(482)	(522)

Note: 1. Figures in brackets are percentages for 2011-12

2. (-) indicates Nil

7.28 The rate of application of other organic manures is decreased under irrigated area in large holdings during 2016-17. The rate of application of other organic manure to all crops is highest in marginal holdings in irrigated and Un-irrigated areas small holdings i.e. 2685 Kgs/ha and 2621 Kgs/ha respectively when compared with that of all size groups during 2016-17. (Table 7.15)

7.29 The rate of application of other organic manures is higher in the case of Coconut crop i.e. 1739 Kgs/ha in irrigated area and 3176 Kgs/ha in Ragi crop of Un-irrigated area for all size classes during 2016-17. (Table 7.15)

Table 7.15
Rate of application of Other Organic Manure to the selected crops and
All crops 2015-16

(In Kgs. Per ha.)

Size Groups Crops	Rate of Application of Other Organic Manure											
	Marginal		Small		Semi Medium		Medium		Large		All Size Classes	
	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	3649	2288	2006	3049	717	3360	708	3732	536	800	1732	2958
	(1090)	(1226)	(226)	(1419)	(804)	(0)	(167)	(560)	(64)	(0)	(569)	(908)
Jower	0	1033	0	0	0	0	0	0	0	0	0	103
	(0)	(783)	(372)	(1211)	(0)	(542)	(126)	(175)	(0)	(154)	(320)	(527)
Ragi	0	1244	138	2306	0	3433	2146	455	(0)	(0)	870	3176
	(0)	(1043)	(274)	(813)	(219)	(584)	(90)	(19)	(240)	(218)	(205)	(699)
Groundnut	0	0	0	0	0	0	0	805	0	0	0	805
	(0)	(209)	(174)	(651)	(0)	(137)	(228)	(155)	(2475)	(0)	(290)	(222)
Cotton	0	0	0	0	0	0	928	0	0	0	928	0
	(952)	(0)	(372)	(222)	(0)	(1438)	(0)	(148)	(0)	(0)	(682)	(582)
Tur	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	(3540)	(705)	(0)	(222)	(0)	(511)	(0)	(0)	(0)	(0)	(3540)	(597)
cardamom	1631	0	0	740	1631	1631	1631	1631	1631	1631	1631	740
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Sugarcane	1637	0	506	0	887	0	527	0	164	0	931	0
	(0)	(0)	(110)	(0)	(189)	(0)	(119)	(825)	(114)	(0)	(153)	(825)
Coffee	0	0	0	1439	0	0	806	820	307	1039	438	1121
	(0)	(2165)	(0)	(253)	(326)	(0)	(0)	(216)	(0)	(415)	(326)	(931)
Coconut	1975	71	2641	323	1862	882	884	2868	964	0	1739	550
	(122)	(2657)	(902)	(45)	(451)	(594)	(557)	(938)	(852)	(286)	(568)	(708)
Banana	0	0	169	0	2975	0	176	0	0	0	949	0
	(0)	(0)	(276)	(0)	(143)	(0)	(751)	(0)	(1556)	(0)	(575)	(0)
All Crops	3082	2471	1815	2189	1000	3206	758	2635	488	900	1599	2539
	(1028)	(1011)	(496)	(551)	(810)	(615)	(525)	(246)	(546)	(196)	(66)	(560)

Note: 1. Figures in brackets are percentages for 2011-12

2. (-) indicates Nil

7.30 About 14.8% of irrigated area and 7.1% in Un-irrigated area under all crops were treated with green manure during 2016-17. However, there is an increase in green manure in both irrigated and Un-irrigated areas in 2016-17 as compared to 2011-12. (Table 7.16)

7.31 The treatment of green manure to all crops in both irrigated & Un-irrigated areas large holdings is the highest with 42.4% and 11.1% respectively under all size groups during 2016-17. (Table 7.16)

Table 7.16
Percentage of Area under Selected and all crops treated with
Green Manure 2015-16

(In Kgs. Per ha.)

Size Groups Crops	Percentage of area treated											
	Marginal		Small		Semi Medium		Medium		Large		All Size Classes	
	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	8.8	6.2	9.6	9.3	5.4	6.2	3.2	7.3	2.7	10.5	7.3	7.1
	(1.9)	(1.1)	(1.7)	(0.8)	(0.9)	(0.8)	(0.3)	(0.9)	(0.2)	(2.4)	(1.1)	(0.9)
Jower	0.0	0.1	0.0	0.0	0.0	1.5	0.0	3.1	0.0	0.0	0.0	0.7
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	N	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	N
Ragi	1.3	5.4	4.5	5.2	2.3	5.0	4.6	3.5	0.0	11.2	2.6	5.3
	N	(0.0)	(0.0)	N	N	N	N	N	(0.0)	(0.0)	N	N
Groundnut	0	13.2	0	9.3	0	12.0	0	12.0	0	0	0	10.8
	(0.0)	(0.0)	(0.0)	N	N	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	N	N
Cotton	0	0	0	0	8.0	0	0	0	0	0	1.8	0
	(0.0)	(0.0)	(0.0)	N	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	N
Tur	0.0	18.3	0.0	8.3	0.0	6.6	0.0	1.7	0	14.5	0	12.2
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	N	(0.0)	(0.0)	(0.0)	N
cardamom	N	N	N	N	N	N	N	N	N	N	N	N
	(1.0)	N	N	(1.0)	N	N	(1.0)	N	(0.0)	(0.0)	N	N
Sugarcane	21.3	0	9.7	0	12.8	0	12.0	0	29.5	0	14.2	0
	(0.7)	(0.0)	0.0	(0.0)	(0.4)	(0.0)	(0.2)	(0.0)	(0.1)	(0.0)	(0.5)	(0.0)
Coffee	53.8	13.9	82.7	10.5	70.3	15.2	86.0	8.9	87.1	12.1	79.9	11.8
	(56.3)	(15.7)	(19.2)	(10.3)	(28.8)	(8.9)	(52.3)	(9.6)	(56.1)	(5.5)	(41.6)	(9.3)
Coconut	21.0	5.0	17.3	0	17.8	5.6	17.4	0.3	0.1	35.9	18.1	3.6
	(17.8)	(3.7)	(11.4)	(4.4)	(8.1)	(3.4)	(6.0)	(3.3)	(5.2)	(0.6)	(10.0)	(3.5)
Banana	22.6	0	35.5	0	13.1	17.1	38.9	57.1	0	0	24.5	1.5
	(10.5)	(67.3)	(2.6)	(0.0)	(2.0)	(1.5)	(4.2)	(10.4)	(2.7)	(8.6)	(3.9)	(14.4)
All Crops	13.0	6.7	12.4	6.2	12.0	7.6	18.8	6.4	42.4	11.1	14.8	7.1
	(5.0)	(1.0)	(2.7)	(0.7)	(1.7)	(0.5)	(1.4)	(0.7)	(1.5)	(0.8)	(2.3)	(0.7)

Note: 1. Figures in brackets are percentages for 2011-12

2. 'N' denotes Negligible

7.32 The application of Rhizobium treated under irrigated is 2% and Un-irrigated area is 1% under all crops during 2016-17. However, there is an increase of mixed trend observed in green manure in both irrigated and Un-irrigated area as compared to that of 2011-12. (Table 7.17)

Table 7.17

Percentage of Area under Selected and all crops treated with Rhizobium 2015-16

(In Kgs. Per ha.)

Size Groups Crops	Percentage of area treated											
	Marginal		Small		Semi Medium		Medium		Large		All Size Classes	
	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri	Irri	Un Irri
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	5	0	3	0	4	4	4	0	2	0	4	1
	(1)	N	(0)	(0)	N	(1)	N	(1)	N	(1)	N	N
Jower	0	0	0	3	0	0	0	0	0	0	0	1
	(0)	(0)	(0)	(0)	(0)	N	(0)	(0)	(0)	N	(1)	N
Ragi	0	N	1	1	0	0	0	0	0	0	N	N
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	N	(0)	(0)	(0)	N
Groundnut	0	0	0	0	11	0	0	N	0	0	4	N
	(0)	(0)	(0)	(0)	(0)	N	N	(0)	(0)	(0)	N	N
Cotton	0	0	0	0	0	0	0	0	0	15	0	1
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	N	(1)	N
Tur	0	0	0	0	0	0	0	0	0	0	0	0
	(1)	N	N	(1)	N	(0)	(0)	N	(0)	(0)	N	N
cardamom	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Sugarcane	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	N	(0)	(0)	(0)	N	N
Coffee	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Coconut	2	0	0	0	0	0	1	0	1	0	1	0
	(1)	(1)	(0)	(1)	N	(2)	N	(1)	(0)	N	N	N
Banana	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	N	(1)	N
All Crops	3	0	2	1	3	1	3	0	2	0	2	1
	N	N	N	N	N	N	N	N	N	N	N	N

Note: 1. Figures in brackets are percentages for 2011-12

2. 'N' denotes Negligible

8.0 Agricultural Implements and Equipments: -

Inventory of implements used per 100 operational holdings:-

A. Hand Operated Implements:-

8.1 Among the hand operated implements used individually, the number of Chaff Cutter used per 100 operational holdings is the maximum, which is estimated as 32 per 100 operational holdings, followed by 29 Sprayer Fans, 18 Seed Drillers and 10 Pedal Threshers. The estimated number of Winnowing Fan and Maize Sheller used per 100 operational holdings workout to 9 and 6 respectively. (Table 8.1)

8.2 The number of Agricultural implements used individually per 100 operational holdings has an increasing trend in Maize Sheller & Pedal Thresher and decreasing trend in Sprayer, Winnowing Fan, Seed Drill & Chaff Cutter during 2016-17 as compared to 2011-12. (Table 8.1)

Table 8.1

Number of Agricultural implements used individually per 100 Operational holdings 2016-17

A. Hand Operated Implements

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Seed Drill	16	19	22	23	24	18
	(22)	(27)	(28)	(33)	(35)	(25)
Pedal Thresherr	11	10	10	10	12	10
	(6)	(6)	(6)	(5)	(5)	(6)
Winnowing Fan	10	8	7	7	9	9
	(28)	(21)	(19)	(17)	(18)	(24)
Maize sheller	6	6	6	7	9	6
	(3)	(4)	(5)	(6)	(7)	(4)
Chaff Cutter	31	32	33	34	34	32
	(34)	(39)	(41)	(46)	(50)	(37)
Sprayer	27	31	33	33	32	29
	(24)	(33)	(36)	(40)	(45)	(30)

Note: Figures in brackets are percentages for 2011-12

B: Animal Operated Implements:-

8.3 The number of Wooden Ploughs per 100 operational holdings is estimated at 30 under all size groups during 2016-17, with the large holdings accounting for the highest number of ploughs is 37. The estimates with respect to the number of Wooden Plough used individually declined in each size group during 2016-17. (Table 8.2)

8.4 The number of Mould Board Plough used per 100 operational holdings is 36 in 2016-17 with large holdings accounting for highest number of 39 ploughs used. (Table 8.2)

8.5 The number of Disc Harrow used per 100 operational holdings has decreased from 39 to 29 during 2016-17, as compared to 2011-12 with the large holdings accounting for highest number of 36 Disc Harrows used. (Table 8.2)

8.6 Cultivators used per 100 operational holdings is at 31, the large holdings accounting for the highest number of Cultivators at 38. The number of Cultivators used per 100 operational holdings decreased in all size class of holdings during 2016-17. (Table 8.2)

8.7 The number of seed fertilizer drill used per 100 operational holdings is estimated at 30 under all size groups during 2016-17. The number of seed fertilizer drill used decreased in each size group during 2016-17 when compared to 2011-12. (Table 8.2)

8.8 The number of levelling karahas used per 100 operational holdings which is estimated at 22 under all size groups in 2016-17, which shows a decreasing trend in each size class during 2016-17 as compared to 2011-12. (Table 8.2)

8.9 The number of Seed Planter and Bund Former used per 100 operational holdings is 8 and 7 respectively and it is negligible in Potato and Groundnut digger and Animal Drawn Puddler during 2016-17. (Table 8.2)

Table 8.2

**Number of Agricultural implements used individually
per 100 Operational holdings 2016-17**

B. Animal Operated implements

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Wooden Plough	28	32	34	35	37	30
	(54)	(55)	(54)	(53)	(53)	(54)
Mould Board Plough	36	36	36	37	39	36
	(56)	(64)	(64)	(63)	(64)	(60)
Disc Harrow	28	30	31	31	36	29
	(32)	(45)	(49)	(50)	(51)	(39)
Cultivator	30	32	34	35	38	31
	(39)	(56)	(62)	(64)	(67)	(49)
Seed Fertilizer Drill	26	32	35	36	37	30
	(34)	(54)	(60)	(64)	(67)	(46)
Levelling Karahas	21	23	24	24	27	22
	(27)	(38)	(42)	(45)	(48)	(34)
Seed Planter	8	8	8	7	9	8
	(2)	(3)	(4)	(4)	(4)	(3)
Bund Former	8	7	7	6	8	7
	(5)	(5)	(4)	(5)	(5)	(5)
Potato & Groundnut Digger	0	0	0	0	0	0
	(N)	(N)	(N)	(N)	(N)	(N)
Animal Drawn Puddler	0	0	0	0	0	0
	(N)	(N)	(N)	(N)	(N)	(N)

Note: 1. Figures in brackets are percentages for 2011-12

2. 'N' denotes Negligible

C. Plant protection equipment and engines

8.10 The number of Sprayers and Power Tillers, used as plant protection equipments are estimated per 100 operational holdings is 4 and 3 respectively in all size groups during 2016-17. (Table 8.3)

8.11 While the number of Diesel pump sets and Electric pump sets used is estimated at 4 & 19 respectively per 100 operational holdings for all size groups during 2016-17. The number of Diesel and Electric pump sets used is comparatively on a higher side in the all size group of holdings. (Table 8.3)

Table 8.3

**Number of Agricultural implements used individually
per 100 Operational holdings 2016-17**

C. Plant protection equipment and engines

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Sprayer	2	5	6	10	17	4
	(2)	(3)	(4)	(6)	(8)	(3)
Diesel pump sets	3	4	5	6	7	4
	(3)	(3)	(4)	(5)	(8)	(3)
Electric pump sets	17	20	22	23	22	19
	(13)	(17)	(22)	(27)	(31)	(17)
Power Tillers	1	3	5	8	14	3
	(4)	(4)	(4)	(4)	(6)	(4)

Note: Figures in brackets are percentages for 2011-12

D: Tractor and power operated equipments: -

8.12 The estimated number of tractors used per 100 operational holdings is estimated to be highest (28) during 2016-17 in the large holdings, the estimates of number of tractor drawn implements like plough, disc, seed drill, planter and leveler workout to be 26, 22, 19, 8 and 17 respectively in the aforementioned category of holdings. (Table 8.4)

Table 8.4

**Number of Agricultural implements used individually
per 100 Operational holdings 2016-17**

D. Tractor and Power operated Equipments

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Tractor	2	5	9	17	28	5
	(17)	(23)	(26)	(32)	(42)	(21)
Tractor drawn plough	2	4	9	16	26	4
	(15)	(24)	(29)	(36)	(44)	(21)
Tractor Drawn Disc	1	3	7	14	22	3
	(6)	(11)	(15)	(20)	(26)	(10)
Tractor Drawn Seed Drill	1	2	5	11	19	2
	(2)	(5)	(7)	(12)	(19)	(4)
Tractor Drawn planter	0	1	2	5	8	1
	(1)	(2)	(2)	(4)	(6)	(1)
Tractor Drawn leveller	1	2	4	9	17	2
	(5)	(7)	(10)	(13)	(17)	(7)

Note: Figures in brackets are percentages for 2011-12

E. Tractor and Power operated and other Equipments used 2016-17

8.13 The number of Tractor & Power operated and other equipments used per 100 operational holdings is estimated as highest with 5 Sprinklers and 2 Power Chaff Cutter, with one each of Cage Wheel and Power Thresher and no Power Maize Sheller is used during 2016-17. (Table 8.5)

Table 8.5

Number of Agricultural Implements used per 100 hectares of operated area, 2016-17

E. Tractor and Power operated and other Equipments used 2016-17

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Power thresher	0	0	1	2	4	1
	(1)	(2)	(2)	(3)	(4)	(2)
Power Chaff Cutter	1	2	3	5	10	2
	(2)	(2)	(2)	(4)	(4)	(2)
Power cane crusher	0	0	0	1	2	0
	(0)	(0)	(0)	(0)	(1)	(0)
Sprinklers	4	5	6	8	9	5
	(2)	(3)	(3)	(4)	(7)	(3)
Cage Wheel	0	1	1	2	3	1
	(2)	(3)	(3)	(4)	(4)	(2)
Power Maize Sheller	0	0	1	1	4	N
	(5)	(11)	(14)	(17)	(19)	(9)

Note: Figures in brackets are percentages for 2011-12

Inventory of implements per 100 hectares of area operated:-

A: Hand Operated Implements:-

8.14 Among the hand operated implements, the number of Winnowing Fans used per 100 ha of operated area is 7, whereas the number of Seed Drill 13, Sprayer 21, Chaff Cutters 23, Pedal Thresher 8 & Maize Sheller 5 during 2016-17. (Table 8.6)

Table 8.6

Number of Agricultural Implements used per 100 hectares of area operated, 2016-17

A. Hand Operated Implements

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Seed Drill	35	14	8	4	2	13
	(45)	(19)	(10)	(6)	(3)	(16)
Pedal Thresher	23	7	4	2	1	8
	(13)	(4)	(2)	(1)	(0)	(4)
Winnowing Fan	23	6	3	1	1	7
	(57)	(15)	(7)	(3)	(1)	(15)
Maize Sheller	14	4	2	1	1	5
	(7)	(3)	(2)	(1)	(1)	(3)
Chaff Cutter	68	23	12	6	2	23
	(69)	(27)	(15)	(8)	(4)	(24)
Sprayer	58	22	12	6	2	21
	(50)	(23)	(13)	(7)	(3)	(19)

Note: 1. Figures in brackets are percentages for 2011-12

B: Animal Operated Implements:-

8.15 A mixed trend is observed in the number of all animals operated implements used per 100 ha of operated area during 2016-17 as compared to 2011-12. (Table 8.7)

Table 8.7

**Number of Agricultural Implements used per 100 hectares,
of area operated, 2016-17**

B. Animal Operated Implements

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Wooden Plough	61	23	13	6	3	22
	(110)	(38)	(20)	(9)	(4)	(35)
Mould Board Plough	79	26	13	7	3	27
	(115)	(44)	(24)	(11)	(5)	(38)
Disc Harrow	60	21	11	6	3	21
	(65)	(31)	(18)	(9)	(4)	(25)
Cultivator	65	23	13	6	3	23
	(79)	(39)	(23)	(11)	(5)	(31)
Seed Fertilizer Drill	57	23	13	6	3	22
	(69)	(37)	(22)	(11)	(5)	(29)
Levelling Karahas	45	16	9	4	2	16
	(55)	(26)	(15)	(8)	(4)	(22)
Seed Planter	18	6	3	1	1	6
	(5)	(2)	(1)	(1)	(0)	(2)
Bund Former	17	5	2	1	1	5
	(11)	(3)	(2)	(1)	(0)	(3)
Potato & Groundnut Digger	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)
Animal Drawn Puddler	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)

Note: Figures in brackets are percentages for 2011-12

C: Plant Protection Equipment and Engines:-

8.16 The number of Sprayers and Diesel Pump Sets used per 100 ha of operated area is found to be same as 3 in all size group of holdings, whereas the number of Power Tillers and Electric Pump Sets are 2 and 14 respectively. The number of Pump Sets is found to be higher in the smaller groups, with the marginal holdings accounting for the highest number with 7 Diesel Pump Sets and 36 electric Pump Sets spread over in an area of 100 ha of operational land. (Table 8.8)

Table 8.8

**Number of Agricultural Implements used per 100 hectares
of area operated, 2016-17**

C. Plant Protection Equipment and Engines

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Sprayer	5	3	2	2	1	3
	(3)	(2)	(2)	(1)	(1)	(2)
Diesel Pump Sets	7	3	2	1	1	3
	(6)	(2)	(1)	(1)	(1)	(2)
Electric Pump Sets	36	14	8	4	2	14
	(27)	(12)	(8)	(5)	(2)	(11)
Power Tillers	3	2	2	1	1	2
	(8)	(3)	(1)	(1)	(0)	(3)

Note: Figures in brackets are percentages for 2011-12

D: Tractor and Power Operated Equipments:-

8.17 The estimated number of Tractors and Tractor drawn Implements used per 100 ha of area operated, showed a mixed trend during 2016-17 in each size group of holdings as compared to 2011-12. (Table 8.9)

Table 8.9

Number of Agricultural Implements used per 100 hectares of area operated, 2016-17

D. Tractor and Power Operated Equipments

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Tractor	5	4	3	3	2	4
	(35)	(16)	(10)	(6)	(3)	(14)
Tractor Dawn Plough	4	3	3	3	2	3
	(31)	(17)	(11)	(6)	(3)	(14)
Tractor Drawn Disc	2	2	3	2	2	2
	(12)	(7)	(5)	(3)	(2)	(6)
Tractor Drawn Seed Drill	2	2	2	2	1	2
	(4)	(3)	(3)	(2)	(1)	(3)
Tractor Drawn Planter	1	1	1	1	1	1
	(1)	(1)	(1)	(1)	(0)	(1)
Tractor Drawn Leveller	2	1	2	2	1	2
	(9)	(5)	(4)	(2)	(1)	(4)

Note: Figures in brackets are percentages for 2011-12

E: Number of tractors, power operated and other equipment's:-

8.18 It may be seen that the number of Power Chaff Cutter, Sprinklers & Power Tillers is 2, 8 & 1 respectively used per 100 ha of operated area is found highest in the marginal size class of holdings during 2016-17. (Table 8.10)

Table 8.10
Number of Agricultural Implements used per 100 hectares of area operated, 2016-17

E. Tractor and Power Operated and other Equipments.

Size groups & implements	Marginal (Below 0.99 ha)	Small (1.0 - 1.99 ha)	Semi Medium (2.0 - 3.99 ha)	Medium (4.0 - 9.99 ha)	Large (10.0 ha & above)	All Size Classes
1	2	3	4	5	6	7
Power Tiller	1	0	0	0	0	0
	(2)	(1)	(1)	(0)	(0)	(1)
Power Chaff Cutter	2	1	1	1	1	1
	(5)	(1)	(1)	(1)	(0)	(2)
Power Cane Crusher	0	0	0	0	0	0
	(N)	(N)	(N)	(N)	(N)	(N)
Sprinklers	8	4	2	1	1	3
	(4)	(2)	(1)	(1)	N	(3)
Cage Wheel	0	0	0	0	0	0
	(4)	(2)	(1)	(1)	(0)	(2)
Power Maize Sheller	0	0	0	0	0	0
	(9)	(7)	(5)	(3)	(1)	(6)

Note: 1. Figures in brackets are percentages for 2011-12

2. "N" indicates Negligible

9.0 Agricultural Credit:-

9.1 The percentage of operational holders who availed credit for Agricultural and allied activities as per the estimates obtained in input survey 2016-17 is 45.5% under all size groups. The percentage of holders i.e., who availed credit is the maximum in the medium holdings is 66.8%, followed by semi-medium, large, small and marginal holdings is 62.9%, 62.6%, 57.7%, 33.2% respectively. (Table 9.1)

9.2 The percentage of holders who availed credit went up from 38.6% in 2011-12 to 45.5% in 2016-17 under all size groups. The percentage of holders who availed credit has also increased in each size group. (Table 9.1)

9.3 The percentage of holders who availed credit from Co-operative Societies/Banks is 30.1% and the holders who availed credit from other institutions constitutes 19.5%. (Table 9.1)

9.4 The semi-medium and medium holdings accounted for the highest percentage share of 38.0% and 37.2% in the number of holdings availed credit from co-operatives and from other institutions respectively. (Table 9.1)

9.5 The percentage number of holders availing credit from co-operatives and other institutions has been increased in each size group during 2016-17 when compared to previous census 2011-12 (Table 9.1).

Table 9.1

Percentage of number of operational holders who availed credit from Co-operatives and other Institutions 2016-17

Category of holdings and size groups(Ha)	Percentage of No. of operational holders who availed credit	Percentage of No. of operational holders who availed credit	
		Co-operatives	Other institutions
1	2	3	4
Marginal (Below 0.99ha)	33.2	24.3	10.9
	(26.5)	(19.7)	(9.3)
Small (1.00 to 1.99ha)	57.7	36.8	26.0
	(46.5)	(30.1)	(21.5)
Semi Medium (2.00 to 3.99ha)	62.9	38.0	32.7
	(53.1)	(31.8)	(28.4)
Medium (4.00 to 9.99ha)	66.8	37.2	40.1
	(58.0)	(32.1)	(36.7)
Large (10.00ha & above)	62.6	31.7	44.2
	(55.4)	(31.5)	(39.5)
All Size Classes	45.5	30.1	19.5
	(38.6)	(25.4)	(17.8)

Note: 1. Figures in brackets are percentages for 2011-12

9.6 The percentage distribution of number of holders who availed credit from all sources is found to be maximum in marginal holdings and different sources is found to be maximum in the marginal holdings in co-operatives and small holdings in other institutions during 2016-17. The percentage number of holders who availed credit is however found to be the least in the large holdings. (Table 9.2)

Table 9.2
Percentage distribution of Operational holders who availed credit
2016-17

Category of holdings and size groups(Ha)	Percentage of No. of operational holders who availed credit	Percentage of No. of operational holders who availed credit from	
		Co-operatives	Other institutions
1	2	3	4
Marginal (Below 0.99ha)	40.1	44.4	30.8
	(33.8)	(38.2)	(25.8)
Small (1.00 to 1.99ha)	32.4	31.2	34.1
	(32.9)	(32.3)	(33.1)
Semi Medium (2.00 to 3.99ha)	19.0	17.4	23.1
	(22.3)	(20.2)	(25.8)
Medium (4.00 to 9.99ha)	7.6	6.4	10.7
	(9.8)	(8.2)	(13.5)
Large (10.00ha & above)	0.9	0.7	1.4
	(1.2)	(1.1)	(1.9)
All Size Classes	100	100	100
	(100.0)	(100.0)	(100.0)

Note: Figures in brackets are percentages for 2011-12

9.7 Out of the total number of holders who availed credit, 60.7% of the holders have drawn their credit from Primary Agricultural Credit Co-operative Societies, 21.4% of the holders from Commercial Bank Branches, 12.1% from Regional Rural Bank Branches and 5.8% of the holders from Primary Land Development Banks during 2016-17. (Table 9.3)

9.8 The percentage of operational holders who availed credit from the Primary Agricultural Credit Co-operative Societies 69.0% is the highest in the marginal holders and whereas the large holders accounted for the highest 8.5% of the holders who availed credit from the Primary Land Development Banks. The medium and large holders accounted for the 28.3%

and 32.2% each availed credit from Commercial Bank Branches and large holders accounted for the highest 17.5% availed credit from Regional Rural Banks during 2016-17. (Table 9.3)

Table 9.3

Percentage of No. of operational holders who availed credit from different sources, 2016-17

Category of holdings and size groups(Ha)	Percentage of number of operational holders, who availed credit from			
	PACS	PLDB/SLDB	CBB	RRBB
1	2	3	4	5
Marginal (Below 0.99ha)	69.0	5.3	17.1	8.5
	(67.9)	(10.2)	(9.8)	(12.1)
Small (1.00 to 1.99ha)	58.6	5.4	22.1	13.8
	(58.3)	(8.3)	(17.2)	(16.3)
Semi Medium (2.00 to 3.99ha)	53.8	6.4	25.3	14.5
	(52.8)	(8.0)	(18.5)	(20.7)
Medium (4.00 to 9.99ha)	48.1	7.3	28.3	16.4
	(46.7)	(8.7)	(20.7)	(23.9)
Large (10.00ha & above)	41.7	8.5	32.2	17.5
	(44.4)	(9.6)	(20.7)	(25.4)
All Size Classes	60.7	5.8	21.4	12.1
	(58.8)	(8.9)	(15.4)	(16.8)

Note: Figures in brackets are percentages for 2011-12

PACS: Primary Agricultural Credit society,

PLDB: Primary Land Development Banks

CBB: Commercial Bank Branches,

RRBBS: Regional Rural Bank Branches

9.9 It is estimated that about 35361 crores of total credit is availed by the operational holders during 2016-17 which comprised of Rs. 22222 crores of short term, Rs. 8845 crores of medium term and Rs.4294 crores of long term credit. (Table 9.4)

9.10 Out of the total credit of Rs. 35361 crores, the credit availed from the Primary Agricultural Credit Co-operative Bank is the highest, which accounted for about Rs.13010 crores (36.79%). The amount of credit availed from the branches of the Regional Rural Bank which accounted for about Rs. 5778 crores (16.34%). The amount of credit availed from the Commercial Bank Branches accounted for 13853 crores (39.17%) and Primary Land Development Banks workout to Rs. 2719 crores (7.70%) during 2016-17. (Table 9.4)

9.11 The short term loan formed 62.84% of the total credit availed, followed by medium term and long term credits which accounted for 25.01% and 12.15% of the total credit respectively during 2016-17. (Table 9.4)

9.12 Out of the total credit distributed on short term basis, the credit disbursed by Primary Agricultural Credit Societies accounted for Rs. 13010 crores (58.56%), the Commercial Bank Branches accounted for Rs. 5709 crores (25.69%), the Regional Rural Banks accounted for Rs. 3502 crores (15.75%) during 2016-17. (Table 9.4)

9.13 The highest amount of credit disbursed on medium term basis is accounted for 21.85% for Regional Rural Banks, followed by 21.50% for Primary Land Development Banks and 56.65% for Commercial Bank Branches, whereas the highest amount of distribution of long term credit is accounted for 72.99% for Commercial Bank Branches during 2016-17. (Table 9.4)

9.14 While the highest amount of total credit, on short term and long term basis is distributed among the holders of marginal and semi medium size group is 6319 crores and 1495 crores respectively and medium term credited distributed on small holdings is 2668 crores respectively. (Table 9.4)

9.15 The amount of credit distributed on short term basis by Regional Rural Banks and Commercial Bank Branch is highest with Rs. 1268 crores and Rs. 1968 crores among small holdings respectively, whereas the disbursement of the short term loan by Primary Agricultural Credit Societies is the highest among the marginal holdings with Rs. 4277 crores. (Table 9.4)

Table 9.4**Estimated amount of credit availed from different sources, 2016-17**

(Rs. In crores)

Category of holdings and size groups (Ha)	Amount of Credit availed from								
	PACS			PLDB/SLDB			CBB		
	S	M	L	S	M	L	S	M	L
1	2	3	4	5	6	7	8	9	10
Marginal (Below 0.99ha)	4277.30	0.00	0.00	0.00	502.81	115.86	1348.02	737.97	570.66
	(1322.72)	(0.00)	(0.00)	(0.00)	(190.64)	(53.33)	(177.63)	(29.18)	(53.55)
Small (1.00 to 1.99ha)	4144.92	0.00	0.00	0.00	605.64	265.35	1968.35	1471.03	607.25
	(1641.50)	(0.00)	(0.00)	(0.00)	(195.93)	(170.20)	(491.86)	(62.57)	(23.06)
Semi Medium (2.00 to 3.99ha)	2962.52	0.00	0.00	0.00	474.66	240.33	1415.95	1530.48	1143.99
	(1362.79)	(0.00)	(0.00)	(0.00)	(186.62)	(94.17)	(469.78)	(78.17)	(60.58)
Medium (4.00 to 9.99ha)	1424.02	0.00	0.00	0.00	268.69	168.83	854.92	1086.49	697.84
	(754.11)	(0.00)	(0.00)	(0.00)	(160.88)	(127.46)	(346.14)	(113.17)	(43.68)
Large (10.00ha & above)	201.98	0.00	0.00	0.00	50.22	26.86	122.32	183.52	115.01
	(141.91)	(0.00)	(0.00)	(0.00)	(36.04)	(23.82)	(62.93)	(26.57)	(5.26)
All Size Classes	13010.76	0.00	0.00	0.00	1,902.02	817.23	5709.56	5009.49	3134.78
	(5223.06)	(0.00)	(0.00)	(0.00)	(770.12)	(469.00)	(1548.36)	(309.68)	(186.14)

Table 9.4 (Contd....)**Estimated amount of credit availed from different sources, 2016-17**

(Rs. In crores)

Category of holdings and size groups (Ha)	Amount of Credit availed from					
	RRBB			TOTAL		
	S	M	L	S	M	L
1	11	12	13	14	15	16
Marginal (Below 0.99ha)	693.59	264.55	55.36	6318.93	0.00	741.90
	(392.48)	(123.62)	(42.99)	(1892.83)	(343.44)	(149.87)
Small (1.00 to 1.99ha)	1268.61	591.50	82.14	7381.88	2668.17	954.74
	(582.79)	(263.87)	(116.08)	(2716.15)	(522.37)	(309.34)
Semi Medium (2.00 to 3.99ha)	902.77	587.17	110.77	5281.24	2592.32	1495.10
	(671.15)	(326.03)	(251.88)	(2503.72)	(590.82)	(406.63)
Medium (4.00 to 9.99ha)	574.00	425.84	75.80	2852.95	1781.03	942.48
	(531.64)	(325.08)	(215.08)	(1631.89)	(599.13)	(386.22)
Large (10.00ha & above)	64.67	64.58	18.75	387.98	298.32	160.63
	(132.01)	(58.14)	(56.15)	(336.85)	(120.75)	(85.23)
All Size Classes	3502.66	1933.66	342.84	22222.98	8845.18	4294.85
	(2310.09)	(1096.77)	(682.20)	(9081.51)	(2176.57)	(1337.34)

- Note: 1. Figures in brackets are corresponds to 2005-06
2. PACS: Primary Agricultural Credit Society
3. PLDB: Primary Land Development Bank
4. CBB: Commercial Bank branches
5. RRBB: Regional Rural Bank Branches
6. S : Short term loan
7. M : Medium term loan
8. L : Long term loan

9.16 Out of total short-term loan of Rs. 22222 crores, Rs. 13679 crores (61.56%) is distributed in the form of cash, the remaining amount of Rs. 4456 crores (20.05%) is distributed either in the form of fertilizers or other inputs. The value of fertilizers distributed worked out to Rs. 4087 crores (18.39%). (Table 9.5)

9.17 The short term credit is distributed in the form of fertilizers, other inputs and cash being highest in small holdings, is Rs. 1248 crores, Rs. 1575 crores and Rs. 4558 crores respectively. (Table 9.5).

Table 9.5
Distribution of Short Term Loan 2016-17

(Rs. In crores)

Category of holdings and size groups (Ha)	Total Short Term Loan available	Short Term Loan distributed		
		Value of Quantity of fertilizers	Value of Quantity of other inputs	Given in Cash
1	2	3	4	5
Marginal (Below 0.99ha)	6318.9	1175.6	1157	3986.2
	(1892.8)	(303.1)	(419.4)	(1170.3)
Small (1.00 to 1.99ha)	7381.8	1248.00	1575.4	4558.4
	(2716.2)	(396.7)	(558.4)	(1761.0)
Semi Medium (2.00 to 3.99ha)	5281.20	1040.50	1080.40	3160.20
	(2503.7)	(338.3)	(466.3)	(1699.1)
Medium (4.00 to 9.99ha)	2852.90	548.90	569.20	1734.80
	(1631.9)	(183.7)	(270.9)	(1177.3)
Large (10.00ha & above)	387.90	74.00	74.50	239.40
	(336.9)	(33.1)	(38.5)	(265.3)
All Size Classes	22222.90	4087.20	4456.50	13679.10
	(9081.5)	(1255.0)	(1753.5)	(6073.1)

Note: Figures in brackets corresponds to 2011-12

CHAPTER – IV
DISTRICT LEVEL MAIN FINDINGS OF THE
INPUT SURVEY 2016-17

1. Dispersal of Parcels:-

- 1.1 The average number of parcels per holding which is estimated at 2 in 19 districts and 1 in 11 districts. (Table 1.1)
- 1.2 At the state level it can be seen that average number of parcels per holding in small and semi medium (2) are same as well as in medium and large classes (3) in marginal holdings (1) during 2016-17. (Table 1.1)
- 1.3 The average number of parcels per holding in the marginal size class has remained same i.e. 1 per holding in these districts viz., Koppal, Haveri, Chitradurga, Davanagere, Udupi, Tumakuru, Hassan, Dakshina Kannada, Mysuru, Chamarajanagar and Chikkaballapur. 2 each in remaining districts i.e. Kolar, Mandya, Ramanagara, Bagalkote, Vijayapura, Kalaburagi, Raichur, Gadag, Bidar, Dharwad, Chikkamagaluru, Belagavi, Uttara Kannada, Kodagu, Ballari, Shivamogga, Bengaluru Rural, Bengaluru Urban and Yadgir districts in 2016-17 as compared to 2011-12 survey. In Haveri, Chitradurga, Tumakuru, Kodagu, Mysuru, Ramanagara and Chikkaballapur districts, it is decreased and in other remaining districts it is increased. (Table 1.1)
- 1.4 In the Marginal size class, the average number of parcels per holding remains the same in 23 districts, but it is increased for 5 districts and decreased for 2 districts in 2016-17 as compared to 2011-12 survey. (Table 1.1)
- 1.5 In the Small size class, the average number of parcels per holding remains the same in 15 districts, but it is increased for 7 districts and decreased for 8 districts in 2016-17 as compared to 2011-12 survey. (Table 1.1)
- 1.6 In case of Semi-medium holdings, the average number of parcels per holding remains the same for 16 districts, but it is increased in the 5 districts and decreased for 9 districts in 2016-17 as compared to 2011-12 survey. (Table 1.1)
- 1.7 The average number of parcels per holding in respect of Medium holdings, there is an increasing trend observed in 3 districts; decreased in 14 districts and remains same in 13 districts during 2016-17 when compared to 2011-12 survey. (Table 1.1)
- 1.8 The average number of parcels per holding in respect of large holdings, there is an increasing trend observed in 6 districts; decreased in 15 districts and remains same in 9 districts during 2016-17 when compared to 2011-12 survey. (Table 1.1)

Table - 1.1

Distribution of average number of parcels per holding by districts, 2016-17

Sl. No.	District	Marginal (Below 1.0ha)	Small (1.00 to 2.0ha)	Semi Medium (2.00 to 4.0ha)	Medium (4.00 to 10.0ha)	Large (10.00 ha & above)	All Size Classes
1	2	3	4	5	6	7	8
1	Belagavi	1 (1)	2 (2)	2 (2)	3 (3)	3 (5)	2 (2)
2	Bagalkote	1 (1)	1 (1)	2 (2)	3 (3)	4 (4)	2 (1)
3	Vijayapura	1 (1)	2 (1)	2 (1)	2 (2)	2 (3)	2 (1)
4	Kalaburagi	2 (1)	2 (1)	2 (2)	2 (2)	3 (3)	2 (1)
5	Bidar	2 (1)	2 (1)	2 (2)	2 (3)	3 (4)	2 (1)
6	Raichur	2 (1)	2 (1)	2 (1)	2 (2)	3 (3)	2 (1)
7	Koppal	1 (1)	1 (1)	1 (2)	2 (3)	2 (4)	1 (1)
8	Gadag	2 (1)	2 (1)	2 (1)	3 (3)	4 (4)	2 (1)
9	Dharwad	2 (1)	2 (1)	2 (2)	2 (3)	3 (4)	2 (2)
10	Uttara Kannada	1 (1)	2 (2)	2 (2)	2 (3)	3 (4)	2 (1)
11	Haveri	1 (1)	1 (2)	2 (2)	3 (3)	4 (5)	1 (2)
12	Ballari	1 (1)	1 (2)	2 (2)	3 (3)	4 (4)	2 (2)
13	Chitradurga	1 (1)	1 (2)	2 (2)	2 (3)	3 (4)	1 (2)
14	Davanagere	1 (1)	1 (2)	2 (2)	2 (4)	4 (6)	1 (2)
15	Shivamogga	1 (1)	2 (2)	3 (2)	4 (3)	4 (4)	2 (2)
16	Udupi	1 (2)	1 (2)	2 (3)	2 (2)	2 (4)	1 (1)
17	Chikkamagaluru	1 (1)	2 (2)	2 (2)	4 (4)	4 (5)	2 (2)
18	Tumakuru	1 (2)	1 (3)	2 (4)	3 (6)	5 (7)	1 (2)
19	Kolar	2 (2)	3 (2)	4 (3)	7 (5)	18 (7)	2 (2)
20	Bengaluru (Urban)	1 (1)	2 (2)	3 (3)	4 (4)	7 (4)	2 (2)
21	Bengaluru (Rural)	1 (1)	2 (2)	3 (4)	4 (5)	15 (9)	2 (2)
22	Mandya	2 (2)	2 (4)	3 (6)	4 (8)	4 (8)	2 (2)
23	Hassan	1 (1)	1 (1)	2 (2)	2 (2)	2 (2)	1 (1)
24	Dakshina Kannada	1 (1)	1 (1)	1 (1)	1 (1)	1 (2)	1 (1)
25	Kodagu	2 (2)	2 (3)	3 (4)	3 (6)	4 (9)	2 (3)
26	Mysuru	1 (1)	2 (2)	3 (4)	4 (5)	5 (5)	1 (2)
27	Chamarajanagar	1 (1)	1 (1)	2 (1)	3 (2)	7 (3)	1 (1)
28	Ramanagara	1 (1)	2 (2)	3 (3)	4 (5)	10 (8)	2 (1)
29	Chikkaballapur	1 (1)	2 (2)	2 (4)	4 (5)	8 (6)	1 (2)
30	Yadgir	1 (1)	1 (1)	2 (2)	3 (3)	5 (5)	2 (2)
	State Total	1 (2)	2 (2)	2 (2)	3 (2)	3 (4)	2 (2)

Note: - Figures in brackets corresponds to 2011-12

1.9 The average area per parcel at the State level has decreased in all the size classes except in large size classes during 2016-17 when compared to 2011-12 survey. (Table 1.2)

1.10 The average area per parcel in 2016-17 is found to be the lowest in Kolar districts (0.19 ha.) and highest in Bagalkote district (1.23 ha.) under marginal holdings. (Table 1.2)

1.11 The average area per parcel in 2016-17, the lowest is found in Kolar district (0.47 ha.) and highest (1.36 ha.) in Dakshina Kannada district in small holdings. (Table 1.2)

1.12 In case of semi-medium holding, the average area per parcel in 2016-17 is highest (2.76 ha.) in Dakshina kannada district and lowest in Kolar district (0.59 ha.). (Table 1.2)

1.13 Dakshina Kannada district accounted for highest (5.40 ha.) average area per parcel in 2016-17 and lowest in Kolar district (0.84 ha.) with respect to medium class of holdings. (Table 1.2)

1.14 The average area per parcel is found to be highest in Dakshina Kannada district (14.20 ha.) and lowest in Kolar district (0.88 ha.) with respect to large holdings during 2016-17. (Table 1.2)

Table - 1.2

Distribution of average area per parcel by districts, 2016-17

Sl. No	District	Marginal (Below 1.0ha)	Small (1.00to 2.0ha)	Semi Medium (2.00to4.0ha)	Medium (4.00 to 10.0ha)	Large (10.00ha & above)	All Size Classes
1	2	3	4	5	6	7	8
1	Belagavi	0.38 (0.38)	0.86 (0.78)	1.25 (1.19)	2.12 (1.73)	5.07 (2.65)	0.97 (0.97)
2	Bagalkote	1.23 (0.57)	1.23 (1.19)	1.23 (1.65)	1.23 (2.27)	1.23 (3.83)	1.23 (1.47)
3	Vijayapura	0.41 (0.65)	0.92 (1.27)	1.66 (2.07)	3.13 (3.17)	6.10 (4.55)	1.58 (2.05)
4	Kalaburagi	0.32 (0.54)	0.80 (1.17)	1.44 (1.80)	2.68 (2.71)	4.43 (4.26)	1.16 (1.64)
5	Bidar	0.35 (0.52)	0.77 (1.11)	1.46 (1.64)	2.55 (2.14)	4.05 (3.54)	0.95 (1.28)
6	Raichur	0.32 (0.56)	0.77 (1.19)	1.42 (1.91)	2.78 (2.56)	5.27 (4.11)	1.06 (1.55)
7	Koppal	0.55 (0.56)	1.35 (1.18)	2.22 (1.57)	3.46 (2.14)	6.47 (3.08)	1.60 (1.36)
8	Gadag	0.38 (0.58)	0.76 (1.19)	1.41 (1.88)	2.07 (2.33)	3.31 (3.09)	1.11 (1.63)
9	Dharwad	0.32 (0.47)	0.80 (1.11)	1.42 (1.42)	2.50 (2.28)	2.50 (3.29)	1.11 (1.44)
10	Uttara Kannada	0.29 (0.33)	0.79 (0.76)	1.34 (1.14)	2.53 (1.74)	3.67 (3.40)	0.54 (0.56)
11	Haveri	0.48 (0.46)	1.02 (0.95)	1.46 (1.25)	2.01 (1.76)	3.17 (2.84)	1.09 (1.04)
12	Ballari	0.47 (0.47)	0.96 (0.95)	1.43 (1.35)	2.19 (2.07)	2.87 (3.49)	1.12 (1.18)
13	Chitradurga	0.51 (0.52)	1.02 (0.91)	1.45 (1.21)	2.31 (1.67)	4.85 (3.01)	1.24 (1.10)
14	Davanagere	0.45 (0.46)	1.12 (0.89)	1.71 (1.14)	2.35 (1.42)	3.29 (2.12)	1.07 (0.89)
15	Shivamogga	0.37 (0.45)	0.71 (0.83)	0.95 (1.14)	1.54 (1.79)	3.32 (3.68)	0.65 (0.81)
16	Udupi	0.32 (0.26)	0.94 (0.58)	1.70 (0.97)	3.25 (1.73)	9.45 (3.67)	0.57 (0.44)
17	Chikka magaluru	0.41 (0.42)	0.76 (0.85)	1.11 (1.07)	1.42 (1.58)	6.27 (3.28)	0.83 (0.82)
18	Tumakuru	0.43 (0.30)	1.01 (0.51)	1.47 (0.64)	1.86 (0.91)	2.76 (1.87)	0.92 (0.57)
19	Kolar	0.19 (0.29)	0.47 (0.60)	0.59 (0.74)	0.84 (1.13)	0.88 (1.80)	0.32 (0.51)
20	Bengaluru (Urban)	0.35 (0.33)	0.58 (0.64)	0.87 (1.00)	1.25 (1.33)	2.03 (3.40)	0.49 (0.59)
21	Bengaluru (Rural)	0.29 (0.28)	0.59 (0.59)	0.82 (0.72)	1.27 (1.14)	0.81 (1.42)	0.46 (0.47)
22	Mandya	0.22 (0.18)	0.54 (0.33)	0.87 (0.41)	1.26 (0.66)	3.57 (1.38)	0.33 (0.27)
23	Hassan	0.38 (0.38)	0.95 (1.00)	1.42 (1.55)	2.57 (2.58)	10.63 (8.13)	0.68 (0.80)
24	Dakshina Kannada	0.39 (0.38)	1.36 (1.38)	2.76 (2.60)	5.40 (5.48)	14.20 (8.28)	0.82 (0.85)
25	Kodagu	0.37 (0.35)	0.62 (0.57)	1.01 (0.66)	1.79 (0.98)	4.33 (1.86)	1.04 (0.76)
26	Mysuru	0.38 (0.34)	0.75 (0.65)	0.95 (0.75)	1.44 (1.20)	2.74 (2.87)	0.57 (0.84)
27	Chamarajanagar	0.43 (0.50)	1.03 (1.32)	1.44 (1.81)	1.80 (2.14)	1.80 (5.29)	0.76 (0.96)
28	Ramanagara	0.29 (0.30)	0.67 (0.72)	0.89 (0.84)	1.19 (0.99)	1.32 (1.61)	0.45 (0.49)
29	Chikkaballapur	0.31 (0.33)	0.77 (0.56)	1.08 (0.76)	1.41 (1.11)	1.79 (2.49)	0.55 (0.55)
30	Yadgir	0.50 (0.53)	1.12 (1.07)	1.47 (1.39)	2.12 (1.94)	3.17 (2.66)	1.24 (1.23)
	State Total	0.46 (0.49)	1.39 (1.44)	2.68 (2.73)	5.65 (5.70)	14.01 (13.58)	1.36 (1.56)

Note: Figures in brackets corresponds to 2011-12

2.0. Multiple Cropping:-

2.1 The percentage of net irrigated area cropped once to the total net irrigated area is 84.5% at the State level which has increased from 81.1% during 2011-12. (Table 2.1)

2.2 The percentage of net irrigated area cropped once increased in 11 districts, remained same in 4 districts and decreased in 15 districts compared to 2011-12 survey. (Table 2.1)

2.3 The percentage of net irrigated area cropped twice decreased in two crops irrigated and remained same in more than two crops irrigated during 2016-17 as compared to 2011-12 survey. (Table 2.1)

2.4 The percentage of net irrigated area cropped twice (i.e., one crop irrigated) is highest (22.3%) in the Haveri district. Similarly, under two crops irrigated is highest (40.6%) in Bagalkote district. (Table 2.1)

2.5 The percentage of net irrigated area cropped more than twice one crop irrigated and two crops irrigated area is almost nil in all districts during 2016-17 as compared to 2011-12 survey. (Table 2.1)

Table - 2.1

Percentage of net irrigated area according to multiple cropping, by districts, 2016-17

Sl. No.	District	Percentage of multiple cropping in irrigated area					
		Cropped once	Cropped twice		Cropped more than twice		
			One crop irrigated	Two crops irrigated	One crop irrigated	Two crops irrigated	More than two crops irrigated
1	2	3	4	5	6	7	8
1	Belagavi	73.5 (86.5)	1.2 (0.3)	25.0 (13.2)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
2	Bagalkote	57.0 (87.3)	1.3 (0.2)	40.6 (12.5)	0.0 (0.0)	0.0 (0.0)	1.2 (0.0)
3	Vijayapura	88.6 (73.0)	1.2 (1.2)	10.2 (25.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
4	Kalaburagi	95.8 (96.2)	2.9 (0.0)	1.3 (3.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
5	Bidar	98.0 (97.7)	1.5 (1.3)	0.6 (1.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
6	Raichur	100.0 (38.8)	0.0 (0.0)	0.0 (61.2)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
7	Koppal	98.0 (30.0)	0.1 (5.5)	1.8 (64.5)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
8	Gadag	70.0 (63.0)	0.0 (2.1)	30.0 (34.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
9	Dharwad	78.8 (66.1)	0.5 (20.6)	20.3 (13.4)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
10	U. Kannada	97.0 (98.8)	1.7 (0.5)	1.3 (0.7)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
11	Haveri	61.9 (74.8)	22.3 (6.0)	15.1 (19.3)	0.0 (0.0)	0.6 (0.0)	0.0 (0.0)
12	Ballari	81.7 (96.3)	0.8 (1.2)	17.1 (2.5)	0.0 (0.0)	0.5 (0.0)	0.0 (0.0)
13	Chitradurga	85.5 (91.4)	0.0 (0.4)	14.5 (7.1)	0.0 (0.0)	0.0 (0.0)	0.0 (1.1)
14	Davanagere	68.6 (67.9)	0.0 (0.2)	31.3 (31.4)	0.0 (0.0)	0.0 (0.0)	0.0 (0.5)
15	Shivamogga	90.7 (89.4)	0.3 (0.3)	9.0 (10.3)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
16	Udupi	100.0 (89.5)	0.0 (7.1)	0.0 (2.7)	0.0 (0.0)	0.0 (0.0)	0.0 (0.7)
17	Chikkamagaluru	100.0 (90.5)	0.0 (1.6)	0.0 (7.9)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
18	Tumakuru	88.0 (98.6)	5.5 (0.2)	4.8 (1.3)	0.8 (0.0)	0.5 (0.0)	0.5 (0.0)
19	Kolar	72.2 (97.9)	1.6 (0.2)	24.9 (2.0)	0.0 (0.0)	0.0 (0.0)	1.4 (0.0)
20	Bengaluru(U)	100.0 (98.7)	0.0 (0.0)	0.0 (1.3)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
21	Bengaluru (R)	94.3 (78.9)	0.8 (2.0)	4.9 (12.1)	0.0 (0.0)	0.0 (0.0)	0.0 (7.0)
22	Mandya	89.4 (96.7)	2.0 (0.2)	8.6 (3.1)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
23	Hassan	99.9 (92.5)	0.0 (0.9)	0.1 (6.7)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
24	D. Kannada	99.2 (92.4)	0.0 (7.5)	0.8 (0.1)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
25	Kodagu	99.0 (0.0)	0.0 (0.0)	1.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
26	Mysuru	95.2 (89.7)	3.1 (2.5)	1.7 (7.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
27	Chamarajanagar	100.0 (85.0)	0.0 (2.5)	0.0 (12.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.5)
28	Ramanagara	99.2 (93.7)	0.0 (0.8)	0.8 (5.4)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
29	Chikkaballapur	99.5 (99.5)	0.2 (0.0)	0.3 (0.5)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
30	Yadgir	70.5 (80.2)	0.0 (5.7)	29.5 (14.1)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
	Total	84.5 (81.1)	1.6 (1.6)	13.7 (17.1)	0.0 (0.0)	0.1 (0.0)	0.1 (0.1)

Note:- Figures in brackets corresponds to 2011-12

2.6. The percentage of net un-irrigated area according to cropped once is increasing from 90.06% in 2011-12 to 92.75% in 2016-17, whereas, it is decreasing in case of cropped more than once from 9.94% in 2011-12 to 7.25% in 2016-17. (Table 2.2)

2.7 The percentage of net un-irrigated area according to cropped once, an increasing trend was observed in 24 districts and decreasing trend observed in 6 districts i.e. Belagavi, Bagalkote, Haveri, Gadag, Tumakuru, Kolar, districts during 2016-17 when compared to 2011-12 survey. (Table 2.2)

2.8 The percentage of net un-irrigated area according to cropped more than once, a decreasing trend was observed in 24 districts and increasing trend in 6 districts i.e. Belagavi, Kalaburagi, Bagalkote, Gadag, Haveri, Tumakuru and Kolar districts during 2016-17 when compared to 2011-12 survey. (Table 2.2)

Table - 2.2

Percentage of net un-irrigated area according to multiple cropping, by districts, 2016-17

Sl. No.	District	Percentage of multiple cropping in un-irrigated area	
		Cropped once	More than once
1	2	3	4
1	Belagavi	68.33 (77.19)	31.67 (22.81)
2	Bagalkote	67.22 (71.42)	32.78 (28.58)
3	Vijayapura	99.29 (86.65)	0.71 (13.35)
4	Kalaburagi	98.86 (89.40)	1.14 (10.60)
5	Bidar	95.07 (77.41)	4.93 (22.59)
6	Raichur	100.00 (87.70)	0.00 (12.30)
7	Koppal	99.04 (90.36)	0.96 (9.64)
8	Gadag	55.29 (85.11)	44.71 (14.89)
9	Dharwad	86.36 (86.27)	13.64 (13.73)
10	U. Kannada	98.73 (98.06)	1.27 (1.94)
11	Haveri	88.24 (88.98)	11.76 (11.02)
12	Ballari	97.45 (92.75)	2.55 (7.25)
13	Chitradurga	95.66 (88.69)	4.34 (11.31)
14	Davanagere	99.80 (98.02)	0.20 (1.98)
15	Shivamogga	99.67 (98.25)	0.33 (1.75)
16	Udupi	99.96 (99.39)	0.04 (0.61)
17	Chikkamagaluru	99.94 (95.99)	0.06 (4.01)
18	Tumakuru	97.03 (99.07)	2.97 (0.93)
19	Kolar	97.43 (99.43)	2.57 (0.57)
20	Bengaluru (U)	100.00 (99.63)	0.00 (0.37)
21	Bengaluru (R)	99.95 (97.99)	0.05 (2.01)
22	Mandya	96.22 (96.20)	3.78 (3.80)
23	Hassan	98.82 (96.80)	1.18 (3.20)
24	D. Kannada	99.87 (99.70)	0.13 (0.30)
25	Kodagu	99.68 (98.15)	0.32 (1.85)
26	Mysuru	89.95 (88.19)	10.05 (11.81)
27	Chamarajanagar	100.00 (87.34)	0.00 (12.66)
28	Ramanagara	99.90 (99.49)	0.10 (0.51)
29	Chikkaballapur	99.86 (99.24)	0.14 (0.76)
30	Yadgir	97.07 (93.72)	2.93 (6.28)
	Total	92.75 (90.06)	7.25 (9.94)

Note: - Figures in brackets corresponds to 2011-12

2.9 Out of the total net area sown, about 70.47% of the area sown is Un-irrigated i.e. cropped once is 65.36% and more than once is 5.11% and only about 29.46% is irrigated i.e. cropped once is 24.95% and more than once is 4.51% during 2016-17. It shows that Irrigated area is increased and Un-irrigated area is decreased during 2016-17 as compared to 2011-12 survey. (Table 2.3)

2.10 The percentage of net irrigated area cropped once and more than once is highest in Dakshina Kannada (68.51%) & in Bagalkote district (18.68%) and it is Nil in Raichur and Chamarajanagar district in both cropped once and more than once during 2016-17. (Table 2.3)

2.11 The percentage of net Un-irrigated area cropped once is highest in Kalaburagi district (88.53%) & lowest in Dakshina Kannada district (30.86%) and in case of more than once highest in Bagalkote district (18.56%) & lowest in Udupi district (0.01%) during 2016-17. (Table 2.3)

Table - 2.3

Percentage of net area under multiple cropping recording to irrigation status, by districts, 2016-17

Sl. No.	District	Percentage of			
		Irrigated area		Un-irrigated area	
		Cropped once	More than once	Cropped once	More than once
1	2	3	4	5	6
1	Belagavi	26.81 (42.07)	9.67 (6.58)	43.41 (39.64)	20.12 (11.71)
2	Bagalkote	24.71 (42.56)	18.68 (6.18)	38.05 (36.62)	18.56 (14.65)
3	Vijayapura	19.07 (26.35)	2.44 (9.74)	77.92 (55.37)	0.56 (8.53)
4	Kalaburagi	10.01 (8.21)	0.43 (0.33)	88.53 (81.77)	1.02 (9.69)
5	Bidar	11.30 (21.19)	0.24 (0.49)	84.10 (60.63)	4.36 (17.69)
6	Raichur	29.28 (13.94)	0.00 (21.97)	70.72 (56.20)	0.00 (7.89)
7	Koppal	20.43 (8.15)	0.41 (18.99)	57.74 (65.84)	0.56 (7.02)
8	Gadag	22.77 (10.89)	9.78 (6.39)	37.29 (70.40)	30.16 (12.31)
9	Dharwad	14.95 (6.96)	4.02 (3.57)	69.98 (77.18)	11.05 (12.29)
10	U. Kannada	27.58 (30.03)	0.85 (0.36)	70.66 (68.26)	0.91 (1.35)
11	Haveri	9.22 (21.44)	5.67 (7.23)	48.28 (63.46)	6.44 (7.86)
12	Ballari	40.33 (31.62)	9.04 (1.20)	49.33 (62.31)	1.29 (4.87)
13	Chitradurga	22.68 (22.41)	3.85 (2.10)	70.28 (66.95)	3.19 (8.54)
14	Davanagere	25.99 (26.88)	11.89 (12.70)	61.99 (59.22)	0.13 (1.20)
15	Shivamogga	52.85 (58.35)	5.40 (6.91)	41.61 (34.14)	0.14 (0.61)
16	Udupi	11.25 (43.44)	0.00 (5.10)	18.61 (51.15)	0.01 (0.31)
17	Chikkamagaluru	19.01 (17.36)	0.00 (1.82)	80.94 (77.58)	0.05 (3.24)
18	Tumakuru	27.38 (31.41)	3.74 (0.46)	66.83 (67.50)	2.05 (0.63)
19	Kolar	12.91 (20.90)	4.98 (0.46)	80.00 (78.19)	2.11 (0.45)
20	Bengaluru (U)	29.50 (22.10)	0.00 (0.30)	70.49 (77.32)	0.00 (0.28)
21	Bengaluru (R)	39.82 (15.99)	2.41 (4.28)	57.74 (78.14)	0.03 (1.60)
22	Mandya	37.66 (46.17)	4.46 (1.58)	55.69 (50.26)	2.19 (1.99)
23	Hassan	15.76 (22.14)	0.00 (1.81)	83.23 (73.62)	0.99 (2.43)
24	D. Kannada	68.51 (55.22)	0.58 (4.53)	30.86 (40.13)	0.04 (0.12)
25	Kodagu	16.68 (0.00)	0.17 (0.00)	82.88 (98.15)	0.27 (1.85)
26	Mysuru	37.25 (27.94)	1.89 (3.21)	54.75 (60.73)	6.11 (8.13)
27	Chamarajanagar	29.29 (29.91)	0.00 (5.27)	70.71 (56.61)	0.00 (8.20)
28	Ramanagara	27.72 (17.94)	0.21 (1.20)	71.99 (80.44)	0.08 (0.42)
29	Chikkaballapur	32.52 (13.77)	0.15 (0.07)	67.23 (85.51)	0.10 (0.65)
30	Yadgir	26.39 (20.24)	11.06 (5.00)	60.71 (70.06)	1.83 (4.70)
	Total	24.95 (24.56)	4.51 (5.71)	65.36 (62.80)	5.11 (6.93)

Note: Figures in brackets corresponds to 2011-12

2.12 The total intensity of cropping is decreased from 1.127 in 2011-12 to 1.098 in 2016-17. In case of Irrigated area, the intensity of cropping is decreased from 1.174 in 2011-12 to 1.140 in 2016-17 and in case of Un-irrigated area, the intensity of cropping increased from 1.106 in 2011-12 to 1.080 in 2016-17. (Table 2.4)

2.13 Belagavi (1.298), Bagalkote (1.378), Gadag (1.399), Uttara Kannada (1.018), Ballari (1.106), Tumakuru (1.063), Haveri (1.175) Kolar (1.073), Mandya (1.066) & Yadgir (1.129) accounted for the highest intensity of cropping as compared to the State level intensity of 1.098 during 2016-17. (Table 2.4)

2.14 Bagalkote district accounted for the highest intensity of cropping (1.430) in irrigated area, and (1.338) in Un-irrigated area. On the other hand intensity of cropping is lowest in 27 districts in irrigated areas. Further, Raichur, Udupi and Chamarajanagar district occupies lowest intensity of cropping in Un-irrigated area. (Table 2.4)

Table - 2.4
Intensity of Cropping by Districts, 2016-17

Sl. No.	District	Intensity of cropping in		
		Irrigated area	Un-irrigated area	Total area
1	2	3	4	5
1	Belagavi	1.250 (1.132)	1.325 (1.231)	1.298 (1.183)
2	Bagalkote	1.430 (1.125)	1.338 (1.287)	1.378 (1.208)
3	Vijayapura	1.102 (1.258)	1.010 (1.140)	1.030 (1.183)
4	Kalaburagi	1.013 (1.038)	1.015 (1.106)	1.015 (1.100)
5	Bidar	1.006 (1.010)	1.051 (1.229)	1.046 (1.182)
6	Raichur	1.000 (1.612)	1.000 (1.123)	1.000 (1.299)
7	Koppal	1.018 (1.645)	1.010 (1.117)	1.012 (1.260)
8	Gadag	1.300 (1.348)	1.447 (1.153)	1.399 (1.187)
9	Dharwad	1.210 (1.134)	1.138 (1.162)	1.151 (1.159)
10	U. Kannada	1.013 (1.007)	1.019 (1.022)	1.018 (1.017)
11	Haveri	1.157 (1.193)	1.180 (1.134)	1.175 (1.151)
12	Ballari	1.175 (1.025)	1.038 (1.078)	1.106 (1.061)
13	Chitradurga	1.145 (1.093)	1.043 (1.114)	1.070 (1.109)
14	Davanagere	1.313 (1.324)	1.002 (1.021)	1.120 (1.141)
15	Shivamogga	1.090 (1.103)	1.007 (1.022)	1.055 (1.075)
16	Udupi	1.000 (1.041)	1.000 (1.073)	1.000 (1.058)
17	Chikkamagaluruu	1.000 (1.079)	1.001 (1.044)	1.000 (1.051)
18	Tumakuru	1.062 (1.013)	1.064 (1.010)	1.063 (1.011)
19	Kolar	1.276 (1.020)	1.029 (1.006)	1.073 (1.009)
20	Bengaluru (U)	1.000 (1.013)	1.000 (1.004)	1.000 (1.006)
21	Bengaluru (R)	1.049 (1.261)	1.006 (1.025)	1.024 (1.073)
22	Mandya	1.086 (1.032)	1.052 (1.040)	1.066 (1.036)
23	Hassan	1.001 (1.067)	1.012 (1.035)	1.010 (1.042)
24	D. Kannada	1.008 (1.001)	1.001 (1.114)	1.006 (1.047)
25	Kodagu	1.010 (0.000)	1.003 (1.019)	1.004 (1.019)
26	Mysuru	1.017 (1.078)	1.121 (1.129)	1.080 (1.113)
27	Chamarajanagar	1.000 (1.130)	1.000 (1.140)	1.000 (1.136)
28	Ramanagara	1.008 (1.054)	1.001 (1.007)	1.003 (1.016)
29	Chikkaballapur	1.003 (1.005)	1.002 (1.008)	1.003 (1.007)
30	Yadgir	1.295 (1.141)	1.029 (1.082)	1.129 (1.097)
	Total	1.140 (1.174)	1.080 (1.106)	1.098 (1.127)

Note: figures in brackets correspond to 2011-12

3.0 Area under Selected Crops:-

3.1 The area under eleven selected crops (viz., Paddy, Jowar, Ragi, Groundnut, Cotton, Tur, Cardamom, Coffee, Sugarcane, Banana and Coconut) which are selected for the input survey 2016-17 formed 28.1% as compared to 63.3% in 2011-12. The proportionate share of area under these selected crops to the gross cropped area is the highest in Dakshina Kannada district (69.2%) and the lowest in Kalaburagi district (8.2%) in 2016-17. (Table 3.1)

3.2 The area under other crops formed 71.9%, which is highest as compared to 36.7% in 2011-12 survey. The proportionate share of area under the other selected crops to the gross cropped area is the highest in Kalaburagi district (91.8%) and the lowest in Dakshina Kannada district (30.8%) in 2016-17. (Table 3.1)

3.3 The proportionate of area under selected crops to the gross cropped area is higher in Un-irrigated area than in irrigated areas at the State level. A similar pattern is observed in 24 districts (Table 3.1).

3.4 The proportionate of area under other crops to the gross cropped area is higher in irrigated areas than in Un-irrigated areas at the State level. A similar pattern is observed in 6 districts (Table 3.1)

Table - 3.1

Percentage of area under selected crops and other crops, by districts, 2016-17

Sl. No.	District	Percentage of					
		Irrigated area under		Un-irrigated area under		Total area under	
		Selected Crops	Other Crops	Selected Crops	Other Crops	Selected Crops	Other crops
1	2	3	4	5	6	7	8
1	Belagavi	60.1 (70.9)	39.9 (29.1)	61.4 (63.9)	38.6 (36.1)	35.0 (67.2)	65.0 (32.8)
2	Bagalkote	47.9 (67.6)	52.1 (32.4)	42.3 (40.2)	57.7 (59.8)	50.0 (52.6)	50.0 (47.4)
3	Vijayapura	75.9 (52.3)	24.1 (47.7)	93.1 (72.2)	6.9 (27.8)	18.1 (64.6)	81.9 (35.4)
4	Kalaburagi	90.8 (71.9)	9.2 (28.1)	97.6 (85.5)	2.4 (14.5)	8.2 (84.4)	91.8 (15.6)
5	Bidar	61.3 (94.5)	38.7 (5.5)	46.8 (40.0)	53.2 (60.0)	11.5 (50.1)	88.5 (49.9)
6	Raichur	95.2 (92.2)	4.8 (7.8)	93.9 (66.6)	6.1 (33.4)	23.8 (78.0)	76.2 (22.0)
7	Koppal	66.3 (53.4)	33.7 (46.6)	43.0 (22.9)	57.0 (77.1)	25.3 (33.7)	74.7 (66.3)
8	Gadag	32.6 (24.0)	67.4 (76.0)	38.6 (54.1)	61.4 (45.9)	30.2 (48.2)	69.8 (51.8)
9	Dharwad	41.7 (51.6)	58.3 (48.4)	48.6 (54.8)	51.4 (45.2)	23.6 (54.5)	76.4 (45.5)
10	U.kannada	51.0 (48.8)	49.0 (51.2)	80.6 (76.6)	19.4 (23.4)	28.3 (68.2)	71.7 (31.8)
11	Haveri	49.7 (59.4)	50.3 (40.6)	39.2 (46.9)	60.8 (53.1)	21.0 (50.6)	79.0 (49.4)
12	Ballari	55.3 (78.6)	44.7 (21.4)	62.5 (70.0)	37.5 (30.0)	52.4 (72.7)	47.6 (27.3)
13	Chitradurga	45.3 (37.0)	54.7 (63.0)	51.0 (51.4)	49.0 (48.6)	28.0 (47.9)	72.0 (52.1)
14	Davanagere	61.5 (68.1)	38.5 (31.9)	22.9 (28.2)	77.1 (71.8)	44.3 (46.5)	55.7 (53.5)
15	Shivamogga	41.7 (67.3)	58.3 (32.7)	32.5 (44.1)	67.5 (55.9)	60.2 (59.7)	39.8 (40.3)
16	Udupi	47.3 (67.3)	52.7 (32.7)	65.5 (72.5)	34.5 (27.5)	37.7 (70.0)	62.3 (30.0)
17	Chikkamagaluru	60.2 (62.1)	39.8 (37.9)	64.8 (70.6)	35.2 (29.4)	19.0 (68.9)	81.0 (31.1)
18	Tumakuru	58.7 (72.9)	41.3 (27.1)	69.5 (77.6)	30.5 (22.4)	30.1 (76.1)	69.9 (23.9)
19	Kolar	13.5 (29.9)	86.5 (70.1)	48.1 (40.1)	51.9 (59.9)	20.9 (37.9)	79.1 (62.1)
20	Bengaluru (U)	51.9 (36.3)	48.1 (63.7)	69.5 (54.3)	30.5 (45.7)	29.6 (50.3)	70.4 (49.7)
21	Bengaluru (R)	44.7 (25.1)	55.3 (74.9)	67.6 (50.6)	32.4 (49.4)	43.2 (44.5)	56.8 (55.5)
22	Mandya	89.6 (93.7)	10.4 (6.3)	66.5 (66.3)	33.5 (33.7)	42.8 (79.3)	57.2 (20.7)
23	Hassan	84.0 (84.6)	16.0 (15.4)	50.9 (67.9)	49.1 (32.1)	15.6 (72.0)	84.4 (28.0)
24	D. Kannada	34.8 (32.2)	65.2 (67.8)	44.0 (49.4)	56.0 (50.6)	69.2 (39.6)	30.8 (60.4)
25	Kodagu	98.9 (0.0)	1.1 (0.0)	72.8 (98.8)	27.2 (1.2)	16.9 (98.8)	83.1 (1.2)
26	Mysuru	72.4 (77.9)	27.6 (22.1)	42.4 (51.2)	57.6 (48.8)	36.9 (59.2)	63.1 (40.8)
27	Chamarajanagar	51.2 (34.8)	48.8 (65.2)	34.4 (44.0)	65.6 (56.0)	29.3 (40.8)	70.7 (59.2)
28	Ramanagara	54.2 (52.8)	45.8 (47.2)	79.4 (72.4)	20.6 (27.6)	27.8 (68.6)	72.2 (31.4)
29	Chikkaballapur	43.5 (32.3)	56.5 (67.7)	62.2 (66.9)	37.8 (33.1)	32.4 (62.1)	67.6 (37.9)
30	Yadgir	97.4 (96.2)	2.6 (3.8)	94.6 (81.3)	5.4 (18.7)	35.6 (85.2)	64.4 (14.8)
	Total	61.7 (66.8)	38.3 (33.2)	67.9 (61.6)	32.1 (38.4)	28.1 (63.3)	71.9 (36.7)

Note: Figures in brackets correspond to 2011-12

4.0 Area Under High Yielding Varieties of Crops:-

4.1 The total area irrigated under all crops of High Yielding Varieties is 69.6% during 2016-17 and 12 districts accounted for the highest share (99.7%) of irrigated area. (Table 4.1)

4.2 The usage of HYV seeds is lower (57.2%) in Un-irrigated areas only of the cropped area, at the State level during 2011-12. The practice of HYVs under Un-irrigated conditions is maximum in 11 districts about (91.7%). (Table 4.1)

4.3 Among selected crops, the percentage of irrigated area under Paddy covered with HYV is 100 percent in Bagalkote, Kalaburagi, Bidar, Gadag, Ballari, and Kodagu districts. Even in Un-irrigated areas, the proportionate share of area covered under HYV is 100 percent in Koppal district during 2016-17. (Table 4.1)

4.4 The entire area under Jowar is 100 percent covered with HYV in Bagalkote, Bidar, Raichur, Haveri, Ballari, Shivamogga, Mandya, Kodagu and Chikkaballapur districts in irrigated area and in Bengaluru (R), Chikkaballapur and Yadgir district in Un-irrigated area during 2016-17. (Table 4.1)

4.5 The full irrigated area under Ragi is 100 percent covered with HYV is in Bagalkote, Kalaburagi, Koppal, Gadag, Ballari, Mandya, Hassan, Chamarajnaraga, Yadgir districts and Belagavi district in Un-irrigated area during 2016-17. (Table 4.1)

4.6 Among the remaining selected crops the percentage of irrigated area under Sugarcane covered with HYV is 100 percent in Koppal, Ballari, Chikkamagaluru, Tumakuru and Ramanagara districts. It is more than 99% in Dharwad and 99.7% in Mandya districts. The proportionate share of irrigated & Un-irrigated areas covered by HYV under Cotton is found to be 68.0%, 65.7% and 55.2%, 10.5% for Banana respectively during 2016-17 at the state level. (Table 4.1)

4.7 The proportionate share of irrigated & Un-irrigated areas covered by HYV under Tur worked out to be 91.2%, 90.5% and 78.4%, 80.0% for Groundnut respectively during 2016-17 at the state level. (Table 4.1)

4.8 The proportionate share of irrigated area under HYV is found to be on a lower side in the case of remaining selected crops viz., Cardamom (51.3%), Coffee (56.4%) and Coconut (17.5%). (Table 4.1)

4.9 The percentage use of HYV for other crops is found to be increased to 69.6% in 2016-17 as compared to 66% in 2011-12 under irrigated condition. While under Un-irrigated area it has increased to 65.1% in 2016-17 as compared to 64.9% in 2011-12 survey. (Table 4.1)

TABLE - 4.1

Percentage of area under High Yielding Varieties of crops, by districts, 2016-17

Sl. No	District	Percentage of HYV area under																									
		Paddy		Jowar		Ragi		Tur		Sugarcane		Cardamom		Banana		Ground nut		Coconut		Cotton		Coffee		Other crops		All Crops	
		Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Belagavi	88.3	98.2	87.8	44.4	0.0	100.0	100.0	83.5	92.9	70.8	0.0	0.0	99.3	0.0	79.0	83.8	0.0	0.0	89.4	74.4	0.0	0.0	88.9	81.5	90.7	74.5
		(61.0)	(62.7)	(41.2)	(36.5)	(0.0)	(6.5)	(0.0)	(58.7)	(99.7)	(100.0)	(0.0)	(0.0)	(96.5)	(0.0)	(70.3)	(55.7)	(100.0)	(0.0)	(100.0)	(98.6)	(0.0)	(0.0)	(87.2)	(56.3)	(88.8)	(56.9)
2	Bagalkote	100.0	0.0	100.0	64.6	100.0	0.0	84.7	79.2	98.1	100.0	0.0	0.0	100.0	0.0	98.3	100.0	0.0	0.0	100.0	61.0	0.0	0.0	92.2	83.2	92.3	68.9
		(100.0)	(100.0)	(93.1)	(86.0)	(0.0)	(0.0)	(1.0)	(88.1)	(99.3)	(0.0)	(0.0)	(0.0)	(85.5)	(0.0)	(98.2)	(90.0)	(62.2)	(0.0)	(64.2)	(100.0)	(0.0)	(0.0)	(86.1)	(80.0)	(94.4)	(82.6)
3	Vijayapura	0.0	0.0	94.6	31.0	0.0	0.0	98.0	99.4	92.0	100.0	0.0	0.0	100.0	0.0	97.0	14.8	0.0	0.0	100.0	0.0	0.0	0.0	92.9	88.2	74.5	50.5
		(100.0)	(0.0)	(94.6)	(87.0)	(0.0)	(0.0)	(2.0)	(97.3)	(99.1)	(0.0)	(0.0)	(0.0)	(59.8)	(0.0)	(87.9)	(89.1)	(0.0)	(0.0)	(92.2)	(86.9)	(0.0)	(0.0)	(74.1)	(84.2)	(85.9)	(91.4)
4	Kalaburagi	100.0	0.0	93.1	25.0	100.0	41.5	82.8	96.6	85.8	0.0	0.0	0.0	66.1	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	91.6	82.9	63.6	49.9
		(100.0)	(0.4)	(100.0)	(93.4)	(0.0)	(0.0)	(3.0)	(99.1)	(100.0)	(0.0)	(0.0)	(0.0)	(100.0)	(0.0)	(100.0)	(100.0)	(0.0)	(0.0)	(100.0)	(100.0)	(0.0)	(0.0)	(98.6)	(96.1)	(99.6)	(95.3)
5	Bidar	100.0	78.6	100.0	13.8	0.0	100.0	98.6	95.7	95.7	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	91.1	93.5	73.3	69.4
		(40.7)	(2.5)	(95.6)	(80.2)	(0.0)	(0.0)	(4.0)	(71.8)	(46.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(23.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(47.7)	(80.7)	(46.9)	(74.0)
6	Raichur	47.5	100.0	100.0	3.8	0.0	0.0	64.8	37.2	0.0	0.0	0.0	0.0	0.0	0.0	91.7	69.2	67.9	0.0	86.1	55.5	0.0	0.0	91.1	29.1	58.9	25.1
		(99.8)	(17.8)	(100.0)	(93.9)	(0.0)	(0.0)	(5.0)	(93.6)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(98.0)	(66.0)	(0.0)	(0.0)	(100.0)	(96.6)	(0.0)	(0.0)	(95.0)	(88.3)	(99.3)	(87.5)
7	Koppal	96.6	100.0	70.6	42.3	100.0	98.1	95.6	87.9	100.0	0.0	0.0	0.0	0.0	0.0	100.0	92.9	0.0	100.0	0.0	100.0	0.0	0.0	76.2	88.3	85.4	70.5
		(100.0)	(97.5)	(94.1)	(94.4)	(0.0)	(0.0)	(6.0)	(60.7)	(100.0)	(100.0)	(0.0)	(0.0)	(63.4)	(0.0)	(99.3)	(94.2)	(7.0)	(0.0)	(93.8)	(72.0)	(0.0)	(0.0)	(90.0)	(82.9)	(94.1)	(84.7)
8	Gadag	100.0	0.0	0.8	6.8	100.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	23.0	0.0	0.0	74.1	70.9	0.0	0.0	72.7	39.5	64.9	32.7
		(100.0)	(0.6)	(8.6)	(11.8)	(0.0)	(0.0)	(7.0)	(0.0)	(9.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(5.4)	(0.0)	(0.0)	(96.8)	(61.8)	(0.0)	(0.0)	(81.3)	(39.8)	(78.0)	(26.6)
9	Dharwad	91.1	26.7	60.9	35.3	0.0	0.0	0.0	59.0	99.0	81.9	0.0	0.0	100.0	0.0	87.8	34.7	0.0	0.0	90.1	77.4	0.0	0.0	84.6	61.6	87.6	52.2
		(65.7)	(47.4)	(36.2)	(8.7)	(0.0)	(0.0)	(8.0)	(0.0)	(100.0)	(100.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.4)	(70.8)	(0.0)	(76.5)	(85.0)	(0.0)	(0.0)	(46.4)	(54.7)	(51.3)	(50.1)
10	U.Kannada	42.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0	98.9	20.5	0.0	0.0	0.9	0.0	0.0	59.3	0.3	0.0	15.6	55.9	0.0	0.0	5.1	14.3	16.9	25.1
		(73.4)	(46.3)	(0.0)	(0.0)	(0.0)	(0.0)	(9.0)	(0.0)	(85.5)	(29.4)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(100.0)	(0.0)	(0.0)	(0.4)	(15.3)	(20.6)	(38.0)

Note:- Figures in brackets correspond to 2011-12

Table - 4.1 Contd.....
Percentage of area under High Yielding Varieties of crops,
by districts, 2016-17

Sl. No	District	Percentage of HYV area under																									
		Paddy		Jowar		Ragi		Tur		Sugarcane		Cardamom		Banana		Ground nut		Coconut		Cotton		Coffee		Other crops		All Crops	
		Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
11	Haveri	35.3	59.2	100.0	64.6	0.0	84.7	100.0	100.0	89.2	0.0	0.0	0.0	50.1	0.0	100.0	100.0	20.4	0.0	100.0	100.0	0.0	0.0	88.8	97.4	72.9	91.7
		(95.1)	(78.0)	(94.1)	(39.7)	(0.0)	(100.0)	(10.0)	(88.8)	(41.3)	(0.0)	(0.0)	(0.0)	(10.6)	(0.0)	(92.7)	(97.1)	(41.2)	(0.0)	(100.0)	(99.0)	(0.0)	(0.0)	(90.9)	(89.5)	(92.3)	(86.4)
12	Ballari	100.0	98.1	100.0	42.1	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	99.8	0.0	0.0	99.4	96.8	99.7	88.2
		(84.5)	(29.3)	(59.8)	(13.6)	(0.0)	(41.4)	(11.0)	(0.0)	(55.9)	(0.0)	(0.0)	(0.0)	(92.8)	(100.0)	(88.0)	(61.3)	(84.4)	(0.0)	(81.0)	(79.8)	(0.0)	(0.0)	(50.3)	(38.4)	(72.4)	(46.6)
13	Chitradurga	92.3	81.0	97.2	49.4	55.7	95.9	100.0	85.6	0.0	0.0	100.0	0.0	60.2	50.3	90.5	96.2	21.6	67.2	90.0	100.0	0.0	0.0	63.3	79.7	56.3	81.8
		(97.8)	(48.4)	(90.9)	(84.7)	(93.8)	(89.0)	(12.0)	(31.9)	(100.0)	(0.0)	(0.0)	(0.0)	(14.1)	(0.0)	(70.5)	(82.8)	(3.2)	(3.4)	(94.7)	(87.7)	(0.0)	(0.0)	(58.4)	(73.7)	(55.8)	(76.0)
14	Davanagere	19.9	26.0	20.8	4.6	11.0	64.8	0.0	77.4	0.0	0.0	61.0	0.0	0.0	0.0	2.1	61.0	55.1	98.0	0.0	100.0	0.0	0.0	73.9	37.7	40.7	38.6
		(100.0)	(97.0)	(99.8)	(96.4)	(83.5)	(98.9)	(13.0)	(89.9)	(95.4)	(100.0)	(0.0)	(0.0)	(20.0)	(0.0)	(97.6)	(96.5)	(28.8)	(11.9)	(99.9)	(99.6)	(0.0)	(0.0)	(55.5)	(96.3)	(83.8)	(96.4)
15	Shivamogga	98.6	81.0	100.0	4.6	44.6	87.3	0.0	0.0	83.6	100.0	0.0	0.0	1.3	0.0	100.0	100.0	2.9	0.5	100.0	67.8	0.0	0.0	7.2	17.3	38.5	34.6
		(96.7)	(80.5)	(100.0)	(100.0)	(100.0)	(61.8)	(14.0)	(0.0)	(95.9)	(0.0)	(0.0)	(0.0)	(8.3)	(4.4)	(100.0)	(0.0)	(1.3)	(0.0)	(100.0)	(93.7)	(0.0)	(0.0)	(18.8)	(56.4)	(67.0)	(65.0)
16	Udupi	89.0	92.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	97.7	27.9	82.8	0.0	0.0	0.0	0.0	45.6	57.0	40.0	80.1
		(90.2)	(87.8)	(0.0)	(0.0)	(0.0)	(0.0)	(15.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(25.1)	(61.8)
17	Chikkamagaluru	86.0	85.7	0.0	69.0	41.5	94.0	0.0	0.0	100.0	0.0	100.0	21.2	100.0	58.1	44.4	94.6	19.7	31.5	0.0	100.0	91.7	69.8	37.0	68.9	37.4	71.7
		(97.1)	(12.9)	(70.5)	(82.6)	(100.0)	(96.1)	(16.0)	(85.2)	(95.1)	(0.0)	(7.6)	(0.0)	(25.1)	(0.0)	(0.0)	(80.4)	(0.3)	(0.0)	(100.0)	(95.4)	(1.3)	(0.9)	(29.8)	(39.2)	(37.9)	(32.2)
18	Tumakuru	98.7	93.9	37.3	61.9	90.7	94.5	93.0	97.5	100.0	0.0	0.0	0.0	51.6	0.0	98.8	99.4	2.8	23.6	0.0	0.0	0.0	0.0	41.8	61.5	41.9	79.2
		(94.7)	(59.6)	(62.3)	(35.7)	(90.8)	(91.9)	(17.0)	(77.6)	(73.9)	(100.0)	(0.0)	(0.0)	(12.7)	(0.0)	(85.5)	(96.8)	(6.4)	(1.2)	(61.2)	(61.5)	(0.0)	(0.0)	(22.0)	(37.1)	(28.5)	(63.8)
19	Kolar	75.5	12.0	7.1	74.0	93.4	95.3	100.0	96.1	0.0	0.0	0.0	0.0	94.0	0.0	100.0	53.8	22.4	0.0	0.0	0.0	0.0	0.0	87.5	20.0	86.7	49.7
		(99.5)	(20.0)	(78.3)	(51.9)	(94.4)	(97.0)	(18.0)	(82.5)	(100.0)	(0.0)	(0.0)	(0.0)	(48.8)	(0.0)	(59.9)	(84.8)	(8.6)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(81.6)	(7.7)	(85.1)	(40.6)
20	Bengaluru(U)	46.4	91.5	75.4	0.0	12.4	83.1	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	64.0	20.5	42.4	63.0
		(92.6)	(100.0)	(86.0)	(92.5)	(98.3)	(97.5)	(19.0)	(84.5)	(0.0)	(0.0)	(0.0)	(0.0)	(95.1)	(100.0)	(100.0)	(0.0)	(13.3)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(71.3)	(12.0)	(63.0)	(56.7)

Note:- Figures in brackets correspond to 2011-12

Table - 4.1 Contd.....

Percentage of area under High Yielding Varieties of crops, by districts, 2016-17

Sl. No	District	Percentage of HYV area under																									
		Paddy		Jowar		Ragi		Tur		Sugarcane		Cardamom		Banana		Ground nut		Coconut		Cotton		Coffee		Other crops		All Crops	
		Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated	Irri gated	Un-irri gated
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
21	Bengaluru(R)	96.5	0.0	100.0	100.0	99.4	99.3	100.0	100.0	0.0	0.0	0.0	0.0	87.7	0.0	0.0	0.0	39.1	15.7	100.0	0.0	0.0	0.0	80.8	32.4	87.6	76.8
		(80.3)	(19.1)	(52.8)	(16.0)	(90.5)	(82.6)	(20.0)	(81.4)	(0.0)	(0.0)	(0.0)	(0.0)	(74.5)	(7.4)	(100.0)	(0.0)	(12.4)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(78.2)	(7.4)	(78.0)	(40.7)
22	Mandya	99.7	91.7	100.0	41.2	100.0	97.7	0.0	78.9	99.7	55.6	0.0	0.0	91.2	0.0	100.0	0.0	36.0	8.4	0.0	0.0	0.0	0.0	69.0	18.5	93.3	60.1
		(96.9)	(75.3)	(0.0)	(0.0)	(91.7)	(84.7)	(21.0)	(0.0)	(98.2)	(75.8)	(0.0)	(0.0)	(90.1)	(0.0)	(0.0)	(29.2)	(7.3)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(23.7)	(11.7)	(87.1)	(56.5)
23	Hassan	99.3	71.8	100.0	51.7	100.0	91.8	0.0	100.0	48.3	60.9	0.0	0.0	12.3	0.0	100.0	0.0	29.2	5.0	0.0	0.0	71.3	4.4	32.3	58.8	67.5	45.6
		(97.9)	(98.4)	(100.0)	(98.3)	(98.2)	(99.1)	(22.0)	(43.8)	(7.5)	(10.4)	(0.0)	(0.0)	(2.7)	(0.0)	(0.0)	(0.0)	(2.0)	(1.4)	(0.0)	(100.0)	(67.0)	(33.7)	(70.9)	(88.7)	(69.5)	(75.4)
24	D.Kannada	68.9	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	11.3	89.2	0.0	0.0	0.0	0.0	12.6	7.9	12.3	33.6
		(75.1)	(88.3)	(0.0)	(0.0)	(0.0)	(0.0)	(23.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.6)	(5.6)	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(7.1)	(37.4)
25	Kodagu	100.0	43.5	100.0	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	49.5	28.7	0.0	12.0	53.4	24.1
		(0.0)	(6.8)	(0.0)	(0.0)	(0.0)	(0.0)	(24.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(78.2)	(0.0)
26	Mysuru	87.4	50.8	96.9	75.6	42.3	51.2	100.0	6.5	61.1	58.4	0.0	0.0	58.6	0.0	0.0	71.8	24.7	36.5	15.1	9.0	100.0	0.0	45.7	65.7	56.6	49.3
		(99.8)	(77.8)	(88.4)	(58.4)	(93.6)	(72.4)	(100.0)	(3.2)	(99.1)	(0.0)	(0.0)	(0.0)	(70.2)	(0.0)	(51.4)	(74.7)	(26.8)	(5.0)	(74.6)	(94.9)	(29.8)	(0.0)	(69.4)	(64.6)	(89.8)	(71.1)
27	Chamarajanagar	88.9	59.0	40.4	3.4	100.0	99.9	0.0	0.0	91.8	0.0	0.0	0.0	96.1	0.0	67.0	19.6	22.1	39.9	0.0	15.6	0.0	0.0	77.6	18.3	74.6	17.9
		(100.0)	(0.0)	(65.0)	(40.4)	(100.0)	(78.8)	(26.0)	(100.0)	(98.1)	(0.0)	(0.0)	(0.0)	(91.5)	(100.0)	(0.0)	(94.5)	(12.9)	(0.0)	(0.0)	(49.3)	(0.0)	(0.0)	(82.4)	(36.9)	(83.7)	(48.1)
28	Ramanagara	99.1	95.5	55.9	59.4	73.6	82.4	0.0	47.9	100.0	0.0	0.0	0.0	49.2	0.0	33.7	90.8	37.4	43.8	0.0	0.0	0.0	0.0	49.3	40.4	53.5	69.4
		(93.7)	(18.2)	(8.5)	(33.0)	(55.8)	(51.0)	(27.0)	(8.0)	(54.0)	(0.0)	(0.0)	(0.0)	(30.4)	(0.0)	(100.0)	(71.8)	(9.2)	(1.2)	(0.0)	(0.0)	(0.0)	(0.0)	(49.4)	(4.7)	(48.2)	(35.6)
29	Chikkaballapur	84.4	58.1	100.0	100.0	52.4	95.2	96.5	91.3	0.0	0.0	0.0	0.0	100.0	0.0	67.1	75.5	100.0	100.0	0.0	100.0	0.0	0.0	79.3	53.6	71.4	75.5
		(97.9)	(18.6)	(100.0)	(91.5)	(80.9)	(89.3)	(28.0)	(77.9)	(0.0)	(0.0)	(0.0)	(0.0)	(100.0)	(100.0)	(100.0)	(84.8)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(81.3)	(31.9)	(84.5)	(69.7)
30	Yadgir	97.6	0.0	100.0	100.0	0.0	0.0	100.0	98.8	0.0	0.0	0.0	0.0	0.0	0.0	90.2	100.0	0.0	0.0	18.1	40.5	0.0	0.0	76.5	99.6	76.6	53.0
		(100.0)	(99.7)	(100.0)	(98.5)	(0.0)	(0.0)	(29.0)	(99.4)	(0.0)	(0.0)	(0.0)	(0.0)	(100.0)	(0.0)	(100.0)	(99.3)	(0.0)	(0.0)	(100.0)	(100.0)	(0.0)	(0.0)	(100.0)	(99.1)	(100.0)	(99.3)
Total		79.4	73.6	77.0	33.4	74.3	91.4	91.2	90.5	93.3	86.0	51.3	0.4	55.2	10.5	78.4	80.0	17.5	15.4	68.0	65.7	56.4	39.6	69.6	65.1	69.6	57.2
		(95.9)	(48.1)	(76.6)	(72.1)	(89.7)	(84.9)	(30.0)	(96.1)	(91.1)	(88.2)	(7.2)	(0.0)	(62.0)	(29.0)	(87.6)	(68.1)	(6.6)	(1.7)	(94.4)	(89.1)	(13.2)	(7.7)	(66.0)	(64.9)	(78.2)	(69.5)

Note:- Figures in brackets correspond to 2011-12

5.0 Use of Fertilizers, Farm Yard Manure and Pesticides:-

5.1 Use of chemical fertilizers in irrigated area is increased to 87.9% in 2016-17 as compared to 87% in 2011-12. Similarly, in Un-irrigated area, there is an increase from 81.6% to 82.9% during 2016-17 as compared to 2011-12. (Table 5.1)

5.2 Percentage area under all crops with chemical fertilizers under irrigated area is 99.7% in Ballari and Kodagu districts is 99.2%. (Table 5.1)

5.3 Among districts, Haveri (95.6%), Chikkamagaluru (94.9%) and Yadgir (99.4%) accounted for highest share of Un-irrigated area under all crops treated with chemical fertilizers. (Table 5.1)

5.4 Use of Farmyard manure has increased in both irrigated and Un-irrigated areas in 2016-17 as compared to 2011-12 survey. The increase is 46.5% to 51.0% under irrigated area and from 35.6% to 36.3% in Un-irrigated areas. (Table 5.1)

5.5 Percentage area under all crops with farm yard manure, Udupi district is highest for both irrigated (93.7%) & Un-irrigated (78.9%) areas. (Table 5.1)

5.6 Use of pesticides has decreased from 32.9% to 26.4% under irrigated area and has decreased from 27.9% to 20.02% under Un-irrigated area when compared to 2011-12 survey. (Table 5.1)

Table - 5.1
Percentage of area under all crops treated with Chemical Fertilisers, Farm Yard Manure and Pesticides by districts, 2016-17

Sl. No.	District	Percentage of area treated with					
		Chemical fertiliser		Farm yard manure		Pesticides	
		Irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6	7	8
1	Belagavi	98.4	81.0	31.8	38.5	13.3	19.9
		(89.2)	(58.6)	(83.8)	(69.8)	(5.3)	(6.3)
2	Bagalkote	94.4	71.5	17.8	3.8	16.0	8.8
		(94.7)	(82.8)	(25.0)	(16.9)	(17.9)	(10.2)
3	Vijayapura	94.3	86.3	6.8	1.9	33.1	15.8
		(95.4)	(92.3)	(14.7)	(13.0)	(22.9)	(55.6)
4	Kalaburagi	86.2	88.2	3.8	1.0	11.8	24.2
		(100.0)	(95.3)	(18.0)	(24.0)	(44.6)	(67.6)
5	Bidar	95.7	86.7	5.0	1.5	51.2	45.0
		(97.5)	(90.7)	(19.5)	(3.3)	(3.5)	(68.3)
6	Raichur	97.3	74.4	2.4	19.6	0.4	32.1
		(99.5)	(89.5)	(20.6)	(25.0)	(84.6)	(38.6)
7	Koppal	94.3	86.3	79.1	65.2	11.6	0.8
		(99.5)	(93.0)	(21.6)	(17.8)	(51.0)	(12.8)
8	Gadag	90.6	86.6	25.6	35.1	10.0	15.3
		(95.8)	(78.8)	(4.5)	(2.3)	(12.5)	(7.6)
9	Dharwad	94.7	91.9	59.0	46.3	9.8	4.9
		(88.8)	(89.6)	(70.7)	(65.5)	(13.6)	(22.3)
10	U. Kannada	30.0	54.9	42.1	44.3	17.9	6.4
		(55.9)	(62.5)	(84.3)	(73.2)	(40.5)	(33.7)
11	Haveri	93.5	95.6	53.8	58.8	64.2	45.7
		(96.8)	(93.1)	(75.0)	(65.5)	(46.3)	(33.0)
12	Ballari	99.7	88.6	18.9	13.1	47.7	2.8
		(88.4)	(83.3)	(37.0)	(29.4)	(24.6)	(20.5)
13	Chitradurga	89.4	91.0	46.7	36.7	2.4	2.4
		(70.3)	(82.4)	(68.6)	(50.5)	(1.0)	(0.5)
14	Davanagere	98.5	92.2	52.6	42.8	41.0	26.4
		(84.4)	(97.7)	(31.1)	(34.8)	(34.1)	(11.7)
15	Shivamogga	80.7	83.8	70.2	73.6	54.4	20.9
		(72.8)	(75.0)	(67.8)	(61.3)	(59.2)	(40.5)
16	Udupi	49.9	84.2	93.7	78.9	0.0	0.0
		(45.3)	(67.3)	(84.9)	(68.9)	(23.3)	(1.6)
17	Chikkamagaluru	52.6	94.9	79.4	55.0	31.7	36.9
		(66.5)	(83.1)	(82.0)	(63.2)	(29.6)	(32.3)
18	Tumakuru	51.6	91.0	46.4	5.1	6.6	0.3
		(50.1)	(69.4)	(62.8)	(22.1)	(2.1)	(4.0)
19	Kolar	88.1	52.0	70.3	46.1	26.3	11.3
		(89.6)	(42.4)	(93.5)	(62.6)	(61.9)	(22.0)
20	Bengaluru(U)	88.2	76.7	42.0	59.1	20.3	0.6
		(74.4)	(60.0)	(44.8)	(11.2)	(5.6)	(0.4)
21	Bengaluru (R)	87.8	78.0	45.3	69.1	10.4	0.6
		(85.0)	(50.2)	(72.9)	(37.6)	(44.6)	(3.2)
22	Mandya	94.9	63.6	91.1	76.0	19.5	5.0
		(88.8)	(58.2)	(83.2)	(70.8)	(20.8)	(5.0)
23	Hassan	86.9	80.6	81.9	45.2	56.8	36.0
		(82.1)	(91.1)	(51.7)	(40.2)	(23.2)	(17.4)
24	D.Kannada	62.9	52.1	75.8	32.2	22.2	1.7
		(70.2)	(47.4)	(83.6)	(39.4)	(78.6)	(48.9)
25	Kodagu	99.2	80.3	6.6	3.2	10.0	24.2
		(0.0)	(97.8)	(0.0)	(51.0)	(0.0)	(0.9)
26	Mysuru	78.4	83.3	59.2	37.2	30.1	33.0
		(91.9)	(78.2)	(59.5)	(58.7)	(28.8)	(17.6)
27	Chamarajanagar	77.2	20.5	42.2	15.9	0.7	0.0
		(86.7)	(52.6)	(51.0)	(59.0)	(26.9)	(11.5)
28	Ramanagara	53.8	70.8	56.5	57.5	0.0	0.0
		(48.3)	(36.0)	(55.2)	(62.6)	(0.0)	(2.5)
29	Chikkaballapur	92.6	86.0	70.4	38.2	24.4	1.2
		(87.5)	(69.8)	(29.1)	(12.8)	(9.3)	(0.5)
30	Yadgir	98.3	99.4	19.6	25.9	85.4	81.1
		(100.0)	(99.3)	(5.2)	(15.6)	(89.2)	(64.6)
	Total	87.9	82.9	51.0	36.3	26.4	20.2
		(87.0)	(81.6)	(46.5)	(35.6)	(32.9)	(27.9)

Note: - Figures in brackets correspond to 2011-12

6.0 Distribution of Plant Nutrients:-

6.1 The proportionate share of Nitrogen fertilizers applied is higher than those of phosphorus and Potash nutrients in both irrigated and Un-irrigated areas. (Table 6.1)

6.2 Among the three nutrients, (i.e., N.P.K.) the proportionate share of the Nitrogen fertilizers (N) applied in irrigated area for Raichur district (85.92%). Whereas, Kolar district (57.83%) accounted for the highest proportionate share in the application of Phosphorous (P) and Ballari district (42.07%) accounted for highest proportionate in the application of Potash (K). (Table 6.1)

6.3 Among the three nutrients (i.e., N.P.K.) the proportionate share of the Nitrogen fertilizers (N) applied in Un-irrigated area is the highest in Kodagu district (93.92%) & lowest in Shivamogga district (28.88%). Whereas, Tumakuru district (69.38%) accounted for the highest proportionate share in the application of Phosphorous (P) & lowest in Kodagu district (5.26%) and Dakshina Kannada district (34.09%) accounted for highest proportionate in the application of Potash (K) & lowest in Bidar district (0.01%) in the State. (Table 6.1)

Table - 6.1
Percentage of plant nutrients applied to all crops, by districts, 2016-17

Sl. No.	District	Application of plant nutrients							
		Irrigated				Un-irrigated			
		N	P	K	Total	N	P	K	Total
1	2	3	4	5	6	7	8	9	10
1	Belagavi	69.96	14.67	15.36	100.00	76.88	16.63	6.50	100.00
		(50.96)	(34.38)	(14.66)	(100.00)	(49.27)	(44.90)	(5.83)	(100.00)
2	Bagalkote	43.26	21.89	34.85	100.00	67.22	28.33	4.45	100.00
		(50.53)	(35.90)	(13.56)	(100.00)	(51.85)	(44.09)	(4.05)	(100.00)
3	Vijayapura	65.60	27.06	7.34	100.00	64.43	35.57	0.00	100.00
		(54.86)	(37.97)	(7.18)	(100.00)	(57.44)	(40.17)	(2.39)	(100.00)
4	Kalaburagi	66.68	33.32	0.00	100.00	39.75	60.25	0.00	100.00
		(57.48)	(33.45)	(9.07)	(100.00)	(44.32)	(51.72)	(3.96)	(100.00)
5	Bidar	73.75	18.28	7.97	100.00	63.15	36.84	0.01	100.00
		(62.07)	(37.44)	(0.49)	(100.00)	(35.66)	(64.29)	(0.05)	(100.00)
6	Raichur	85.92	13.40	0.68	100.00	81.24	16.64	2.12	100.00
		(54.46)	(32.33)	(13.21)	(100.00)	(49.35)	(42.42)	(8.23)	(100.00)
7	Koppal	63.34	24.01	12.64	100.00	76.10	21.04	2.86	100.00
		(45.60)	(32.15)	(22.25)	(100.00)	(44.22)	(36.86)	(18.92)	(100.00)
8	Gadag	52.29	29.22	18.50	100.00	39.32	35.18	25.50	100.00
		(51.68)	(37.45)	(10.87)	(100.00)	(50.03)	(35.66)	(14.31)	(100.00)
9	Dharwad	55.99	22.24	21.77	100.00	70.68	29.11	0.21	100.00
		(57.38)	(39.12)	(3.49)	(100.00)	(53.26)	(43.83)	(2.90)	(100.00)
10	U.Kannada	68.39	12.84	18.77	100.00	82.13	10.78	7.08	100.00
		(43.84)	(26.59)	(29.57)	(100.00)	(52.68)	(25.31)	(22.01)	(100.00)
11	Haveri	52.44	15.86	31.70	100.00	64.61	18.26	17.13	100.00
		(54.90)	(37.70)	(7.40)	(100.00)	(52.36)	(36.64)	(11.00)	(100.00)
12	Ballari	41.22	16.71	42.07	100.00	55.75	16.08	28.17	100.00
		(74.51)	(21.15)	(4.34)	(100.00)	(80.88)	(13.31)	(5.81)	(100.00)
13	Chitradurga	46.09	43.47	10.44	100.00	45.80	51.59	2.61	100.00
		(45.04)	(29.01)	(25.95)	(100.00)	(54.20)	(37.48)	(8.32)	(100.00)
14	Davanagere	45.56	43.14	11.30	100.00	47.17	40.85	11.98	100.00
		(50.43)	(33.29)	(16.28)	(100.00)	(52.52)	(34.36)	(13.11)	(100.00)
15	Shivamogga	34.35	42.38	23.27	100.00	28.88	38.80	32.32	100.00
		(43.09)	(29.05)	(27.85)	(100.00)	(42.33)	(30.87)	(26.80)	(100.00)
16	Udupi	47.50	35.43	17.08	100.00	54.74	35.75	9.52	100.00
		(43.41)	(27.62)	(28.97)	(100.00)	(60.88)	(27.25)	(11.87)	(100.00)
17	Chikkamagaluru	29.21	44.80	25.99	100.00	38.32	41.57	20.11	100.00
		(35.13)	(28.69)	(36.17)	(100.00)	(42.07)	(31.01)	(26.92)	(100.00)
18	Tumakuru	42.38	57.09	0.53	100.00	30.55	69.38	0.07	100.00
		(39.56)	(37.16)	(23.28)	(100.00)	(45.72)	(36.21)	(18.07)	(100.00)
19	Kolar	38.31	57.83	3.86	100.00	41.19	57.87	0.95	100.00
		(40.67)	(44.40)	(14.93)	(100.00)	(35.27)	(62.85)	(1.88)	(100.00)
20	Bengaluru(U)	41.75	48.05	10.20	100.00	50.96	48.06	0.99	100.00
		(47.13)	(25.30)	(27.58)	(100.00)	(64.68)	(31.46)	(3.86)	(100.00)
21	Bengaluru (R)	38.86	44.86	16.28	100.00	43.44	52.38	4.19	100.00
		(56.25)	(38.46)	(5.29)	(100.00)	(63.68)	(30.10)	(6.23)	(100.00)
22	Mandya	39.52	27.03	33.45	100.00	55.48	28.80	15.71	100.00
		(55.88)	(21.07)	(23.04)	(100.00)	(88.20)	(4.83)	(6.97)	(100.00)
23	Hassan	50.17	38.68	11.14	100.00	45.59	45.07	9.35	100.00
		(48.52)	(30.11)	(21.37)	(100.00)	(49.15)	(32.75)	(18.10)	(100.00)
24	D.Kannada	37.86	21.17	40.97	100.00	32.87	33.04	34.09	100.00
		(60.48)	(15.94)	(23.58)	(100.00)	(49.33)	(10.52)	(40.15)	(100.00)
25	Kodagu	72.70	22.53	4.77	100.00	93.92	5.26	0.83	100.00
		(0.00)	(0.00)	(0.00)	(0.00)	(46.72)	(28.93)	(24.34)	(100.00)
26	Mysuru	56.94	16.88	26.18	100.00	61.23	28.81	9.96	100.00
		(46.38)	(29.38)	(24.24)	(100.00)	(39.10)	(28.31)	(32.59)	(100.00)
27	Chamarajanagar	52.08	18.43	29.49	100.00	65.32	19.43	15.25	100.00
		(40.60)	(24.97)	(34.43)	(100.00)	(48.40)	(25.81)	(25.80)	(100.00)
28	Ramanagara	77.61	21.87	0.53	100.00	80.95	16.83	2.22	100.00
		(82.95)	(11.97)	(5.08)	(100.00)	(74.77)	(18.34)	(6.90)	(100.00)
29	Chikkaballapur	53.23	45.65	1.12	100.00	74.39	25.22	0.39	100.00
		(60.06)	(34.55)	(5.39)	(100.00)	(64.44)	(32.27)	(3.29)	(100.00)
30	Yadgir	65.22	34.66	0.11	100.00	59.22	40.59	0.19	100.00
		(55.07)	(42.21)	(2.72)	(100.00)	(51.44)	(47.68)	(0.88)	(100.00)
	Total	50.3	27.6	22.1	100.0	57.3	34.1	8.6	100.0
		(51.22)	(32.38)	(16.40)	(100.00)	(50.82)	(37.42)	(11.76)	(100.00)

Note: - Figures in brackets correspond to 2011-12

7.0 Rate of Application of Plant Nutrients:-

7.1 Rate of application of plant nutrients under irrigated area, Nitrogen and Potash decreased and Phosphorous had increased during 2016-17 as compared to 2011-12. The use of Nitrogen nutrients is comparatively high in irrigated condition than in Un-irrigated condition. (Table 7.1)

7.2 Among the three nutrients (N.P.K.) in irrigated area, the proportionate rate of share of Nitrogen nutrient is highest in Dakshina Kannada (472 Kgs/ha) followed by Davanagere (176 Kgs/ha), Mandya (149 Kgs/ha) and Chikkamagaluru (146 Kgs/ha). The rate of application of Phosphorous nutrient is highest in Dakshina Kannada (264 Kgs/ha), followed by Chikkamagaluru (224 Kgs/ha), Shivamogga district (120 Kgs/ha) & Chikkaballapur (106 Kgs/ha) and rate of application of Potash nutrients is highest in Dakshina Kannada district (511 Kgs/ha) followed by Chikkamagaluru (130 Kgs/ha) & Mandya (127 Kgs/ha). (Table 7.1)

7.3 Under Un-irrigated area rate of application of N.P.K is highest in Kodagu (319 Kgs/ha) & lowest in Gadag district (12 Kgs/ha) under Nitrogen, Dakshina Kannada district accounts for highest (151 Kgs/ha) & lowest in Gadag and Uttar Kannada district (11 Kgs/ha) under Phosphorus and Dakshina Kannada district accounts for highest (155 Kgs/ha) & lowest i.e. Nil in Vijayapura, Kalaburagi, Bidar, Dharwad and Yadgir district for Potash nutrient. (Table 7.1)

Table - 7.1

Application of plant nutrients to all crops according to irrigation status, by districts, 2016-17.

(In Kgs. Per.ha)

Sl. No.	District	Rate of application in					
		Irrigated			Un-irrigated		
		N	P	K	N	P	K
1	2	3	4	5	6	7	8
1	Belagavi	140 (144)	29 (97)	31 (42)	91 (72)	20 (65)	8 (8)
2	Bagalkote	66 (160)	33 (113)	53 (43)	55 (71)	23 (61)	4 (6)
3	Vijayapura	64 (113)	26 (78)	7 (15)	50 (96)	27 (67)	0 (4)
4	Kalaburagi	50 (115)	25 (67)	0 (18)	13 (43)	19 (50)	0 (4)
5	Bidar	94 (62)	23 (37)	10 (0)	33 (18)	19 (32)	0 (0)
6	Raichur	115 (111)	18 (66)	1 (27)	136 (51)	28 (44)	4 (8)
7	Koppal	32 (128)	12 (90)	6 (62)	42 (67)	12 (56)	2 (29)
8	Gadag	19 (52)	11 (38)	7 (11)	12 (31)	11 (22)	8 (9)
9	Dharwad	55 (98)	22 (67)	21 (6)	52 (78)	21 (64)	0 (4)
10	U. Kannada	132 (137)	25 (83)	36 (93)	81 (97)	11 (46)	7 (40)
11	Haveri	97 (89)	29 (61)	58 (12)	100 (85)	28 (59)	27 (18)
12	Ballari	95 (84)	38 (24)	97 (5)	57 (74)	17 (12)	29 (5)
13	Chitradurga	62 (52)	59 (33)	14 (30)	64 (50)	72 (35)	4 (8)
14	Davanagere	176 (128)	167 (85)	44 (41)	151 (115)	131 (75)	38 (29)
15	Shivamogga	97 (134)	120 (90)	66 (86)	86 (123)	116 (89)	96 (78)
16	Udupi	97 (69)	72 (44)	35 (46)	59 (73)	39 (33)	10 (14)
17	Chikkamagaluru	146 (133)	224 (109)	130 (137)	97 (114)	105 (84)	51 (73)
18	Tumakuru	54 (71)	73 (66)	1 (42)	38 (71)	86 (56)	0 (28)
19	Kolar	55 (44)	84 (49)	6 (16)	56 (35)	79 (63)	1 (2)
20	Bengaluru (U)	42 (89)	48 (48)	10 (52)	68 (98)	64 (48)	1 (6)
21	Bengaluru (R)	79 (89)	91 (61)	33 (8)	78 (107)	94 (51)	8 (10)
22	Mandya	149 (155)	102 (58)	127 (64)	162 (102)	84 (6)	46 (8)
23	Hassan	124 (100)	96 (62)	28 (44)	106 (103)	105 (69)	22 (38)
24	D.Kannada	472 (261)	264 (69)	511 (102)	150 (129)	151 (27)	155 (105)
25	Kodagu	31 (0)	9 (0)	2 (0)	319 (124)	18 (77)	3 (65)
26	Mysuru	176 (88)	52 (56)	81 (46)	121 (63)	57 (46)	20 (53)
27	Chamarajanagar	149 (172)	53 (106)	84 (146)	123 (114)	37 (61)	29 (61)
28	Ramanagara	103 (88)	29 (13)	1 (5)	169 (80)	35 (20)	5 (7)
29	Chikkaballapur	124 (84)	106 (48)	3 (8)	126 (95)	43 (47)	1 (5)
30	Yadgir	151 (97)	80 (74)	0 (5)	83 (68)	57 (63)	0 (1)
	Total	109 (117)	60 (74)	48 (37)	74 (71)	44 (53)	11 (17)

Note: - Figures in brackets correspond to 2011-12

8.0 Rate of Application of Manure:-

8.1 Farm yard manure is applied at the rate of 3943 Kgs/ha in irrigated area and 4580 Kgs/ha in Un-irrigated areas for all crops put together at the State level. There has been a decrease in irrigated and increase in Un-irrigated area for the rate of application of farm yard manure during 2016-17 as compared to 2011-12 survey. (Table 8.1)

8.2 The rate of application of farm yard manure under all crops is maximum in Bengaluru (U) district i.e. 15391 Kgs/ha and 17711 Kgs/ha in both irrigated and Un-irrigated areas respectively (Table 8.1)

8.3 The usage of other organic manure is confined to a few districts. Out of 30 districts, only 21 districts in irrigated area & 18 districts in Un-irrigated area uses other organic manures. Shivamogga district (3151 Kgs/ha) accounted for the highest rate of application in irrigated area followed by Mandya (2976 Kgs/ha), Kodagu (2555 Kgs/ha) & Kolar district (2281 Kgs/ha). Kolar district (15071 Kgs/ha) accounts for highest in Un-irrigated area, followed by Mandya (5765 Kgs/ha), Kodagu (5092 Kgs/ha) & Uttara Kannada district (3520 Kgs/ha). (Table 8.1)

Table - 8.1
Manures to all crops, by districts, 2016-17

(In Kgs. Per. ha)

Sl. No	District	Rate of application of			
		FYM		OOM	
		Irrigated	Un-irrigated	Irrigated	Un-irrigated
1	2	3	4	5	6
1	Belagavi	5035 (10641)	5076 (7165)	445 (0)	0 (0)
2	Bagalkote	3808 (6435)	2682 (1327)	99 (126)	0 (121)
3	Vijayapura	476 (1519)	268 (568)	0 (0)	0 (824)
4	Kalaburagi	3500 (964)	240 (796)	0 (0)	0 (0)
5	Bidar	10073 (748)	6076 (1096)	994 (0)	12 (74)
6	Raichur	629 (2514)	262 (2438)	0 (0)	0 (0)
7	Koppal	2335 (1310)	5310 (1640)	7 (424)	171 (263)
8	Gadag	3976 (1325)	4442 (1334)	364 (940)	0 (0)
9	Dharwad	3282 (1157)	6709 (1749)	0 (0)	0 (113)
10	U. Kannada	2263 (3834)	2771 (2780)	2008 (395)	3520 (196)
11	Haveri	1958 (1372)	2024 (1333)	179 (1500)	657 (751)
12	Ballari	1238 (778)	936 (953)	1279 (0)	0 (0)
13	Chitradurga	3993 (2554)	1650 (1958)	899 (0)	401 (0)
14	Davanagere	3690 (5317)	3028 (3524)	1648 (129)	2674 (3583)
15	Shivamogga	6881 (4220)	5004 (3407)	3151 (2888)	624 (1043)
16	Udupi	8644 (6947)	2725 (4520)	2236 (198)	71 (16800)
17	Chikkamagaluru	5561 (3557)	1681 (1685)	1975 (806)	854 (1622)
18	Tumakuru	3534 (3138)	891 (2709)	0 (1164)	0 (2486)
19	Kolar	11810 (6502)	12678 (6194)	2281 (0)	15071 (0)
20	Bengaluru (U)	15391 (4931)	17711 (4689)	0 (2000)	0 (690)
21	Bengaluru (R)	10527 (5093)	6409 (7064)	65 (1271)	51 (766)
22	Mandya	4729 (3343)	5819 (1481)	2976 (1856)	5765 (1454)
23	Hassan	2534 (2321)	2187 (2645)	924 (229)	617 (707)
24	D. Kannada	2265 (6294)	982 (2399)	464 (2155)	330 (1246)
25	Kodagu	4620 (0)	3681 (2004)	2555 (0)	5092 (2944)
26	Mysuru	2970 (1118)	1753 (1118)	326 (952)	0 (65)
27	Chamarajanagar	1035 (1526)	385 (1342)	0 (270)	80 (1187)
28	Ramanagara	3295 (3304)	3690 (2346)	0 (163)	0 (436)
29	Chikkaballapur	2558 (907)	2181 (585)	1122 (0)	646 (0)
30	Yadgir	5378 (2606)	8319 (1794)	0 (0)	0 (0)
	Total	3943 (4887)	4580 (2716)	1599 (66)	2539 (560)

Note: - Figures in brackets correspond to 2011-12

9. Inventory of Agricultural Implements and Equipments:-

9.1 Among the hand operated implements, the number of Seed Driller, Pedal Thresherr, Winnowing Fans, Maize Sheller, Chaff Cutter and Hand Operated Sprayer used per 100 operational holdings and 100 hectare of operated area is 18 & 13, 10 & 8, 9 & 7, 6 & 5, 32 & 23, 29 and 21 respectively in the State. (Table 9.1A)

9.2 Koppal district had highest number of Seed Driller (58), Kodagu district accounted for the highest number of Pedal Thresherr (52) and Hassan district had highest number of Winnowing Fan (58), Kodagu district had accounted highest number of Maize Sheller (39), Hassan district had accounted higher Chaff Cutter (82) and Haveri district had accounted for the highest number of Hand Operated Sprayer (77) per 100 operational holdings during 2016-17. (Table 9.1A)

9.3 Chikkaballapur district had highest number of Seed Driller (57), Kolar district accounted for the highest number of Pedal Thresherr (50), Hassan district accounted for the highest number of Winnowing Fan (69), Hassan districts had accounted for highest number of Maize Sheller (44). Hassan district had accounted for highest number of Chaff Cutter (98) and Hassan district had accounted for highest number of Hand Operated Sprayer (99) per 100 hectare of operated area during 2016-17. (Table 9.1A)

Table - 9.1

Number of Agricultural implements used by operational holders, 2016-17

A: Hand Operated Implements:

Sl. No.	District	Seed Drill		Pedal Thresherr		Winnowing Fan		Maize Sheller		Chaff Cutter		Hand Operated Sprayer	
		Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Belagavi	17 (25)	10 (14)	4 (3)	2 (2)	0 (1)	0 (0)	1 (8)	0 (4)	30 (47)	19 (26)	21 (25)	13 (14)
2	Bagalkote	8 (1)	4 (1)	2 (0)	1 (0)	1 (1)	0 (0)	10 (2)	5 (1)	36 (55)	20 (25)	17 (22)	9 (10)
3	Vijayapura	4 (80)	2 (29)	1 (0)	0 (0)	0 (11)	0 (4)	0 (3)	0 (1)	0 (36)	0 (13)	16 (45)	6 (16)
4	Kalaburagi	21 (18)	10 (8)	3 (5)	2 (2)	0 (6)	0 (2)	0 (3)	0 (1)	0 (36)	0 (15)	0 (71)	0 (30)
5	Bidar	37 (48)	22 (26)	3 (0)	2 (0)	2 (0)	1 (0)	1 (0)	1 (0)	27 (39)	16 (21)	30 (30)	17 (17)
6	Raichur	19 (3)	9 (1)	14 (0)	7 (0)	9 (0)	4 (0)	8 (0)	4 (0)	10 (19)	5 (9)	9 (23)	5 (11)
7	Koppal	58 (28)	32 (14)	42 (7)	24 (3)	18 (9)	10 (5)	16 (5)	9 (3)	40 (37)	22 (18)	40 (13)	22 (6)
8	Gadag	10 (29)	5 (12)	4 (1)	2 (0)	4 (0)	2 (0)	5 (1)	2 (1)	7 (27)	3 (11)	13 (19)	6 (8)
9	Dharwad	17 (17)	8 (7)	6 (4)	3 (2)	1 (2)	1 (1)	6 (14)	3 (6)	5 (41)	2 (17)	11 (28)	5 (11)
10	U. Kannada	9 (19)	11 (21)	13 (1)	16 (1)	1 (8)	1 (9)	0 (1)	1 (1)	10 (17)	13 (18)	22 (32)	28 (36)
11	Haveri	6 (23)	4 (13)	2 (2)	1 (1)	0 (4)	0 (2)	3 (7)	2 (4)	61 (65)	38 (37)	77 (46)	48 (26)
12	Ballari	19 (26)	11 (13)	13 (1)	8 (0)	6 (2)	3 (1)	5 (1)	3 (1)	55 (16)	33 (8)	40 (18)	24 (9)
13	Chitradurga	14 (34)	8 (17)	4 (16)	2 (8)	4 (30)	2 (15)	12 (17)	7 (9)	6 (21)	3 (11)	5 (16)	3 (8)
14	Davanagere	15 (32)	11 (21)	2 (6)	2 (4)	1 (15)	1 (10)	3 (5)	2 (4)	13 (27)	9 (18)	27 (26)	20 (17)
15	Shivamogga	3 (22)	3 (17)	28 (14)	25 (11)	7 (56)	6 (45)	2 (9)	2 (7)	51 (32)	46 (25)	54 (51)	48 (41)
16	Udupi	1 (7)	2 (8)	4 (0)	5 (0)	3 (0)	4 (0)	2 (0)	3 (0)	4 (9)	5 (11)	5 (15)	6 (19)
17	Chikka magaluru	27 (38)	20 (29)	18 (32)	13 (24)	15 (84)	11 (62)	12 (11)	9 (8)	29 (63)	21 (47)	48 (52)	35 (39)
18	Tumakuru	0 (17)	0 (11)	0 (2)	0 (1)	0 (48)	0 (30)	10 (1)	8 (1)	0 (52)	0 (32)	7 (7)	6 (5)
19	Kolar	35 (29)	45 (29)	39 (5)	50 (5)	41 (63)	52 (64)	4 (4)	5 (4)	56 (67)	72 (67)	44 (41)	56 (41)
20	Bengaluru (U)	4 (8)	5 (8)	0 (13)	1 (13)	1 (17)	2 (16)	0 (4)	0 (3)	11 (72)	14 (68)	18 (16)	23 (15)
21	Bengaluru (R)	3 (57)	4 (64)	4 (9)	6 (10)	30 (51)	39 (58)	3 (6)	4 (7)	37 (56)	48 (64)	22 (37)	29 (42)
22	Mandya	7 (20)	11 (28)	4 (13)	7 (17)	2 (25)	4 (34)	1 (2)	2 (3)	28 (20)	46 (28)	14 (18)	23 (24)
23	Hassan	40 (25)	48 (25)	37 (15)	44 (15)	58 (47)	69 (47)	37 (7)	44 (8)	82 (37)	98 (37)	84 (33)	99 (33)
24	D. Kannada	1 (5)	1 (6)	2 (0)	2 (0)	3 (0)	4 (0)	4 (1)	5 (1)	19 (50)	24 (58)	5 (48)	6 (56)
25	Kodagu	53 (10)	24 (4)	52 (4)	23 (2)	53 (31)	23 (13)	39 (1)	17 (0)	78 (10)	34 (4)	72 (24)	32 (10)
26	Mysuru	2 (14)	2 (15)	3 (6)	4 (6)	2 (22)	2 (23)	1 (1)	2 (1)	1 (20)	2 (21)	7 (24)	9 (26)
27	Chamaraja nagar	2 (6)	2 (6)	1 (1)	1 (1)	1 (50)	1 (47)	1 (2)	1 (2)	14 (47)	14 (45)	12 (24)	12 (22)
28	Ramanagara	10 (20)	14 (25)	1 (8)	1 (10)	0 (69)	1 (87)	1 (2)	2 (2)	36 (31)	52 (39)	10 (3)	15 (4)
29	Chikkaballapur	46 (17)	57 (16)	17 (13)	21 (12)	14 (61)	17 (56)	22 (5)	27 (5)	51 (60)	63 (56)	20 (5)	25 (5)
30	Yadgir	21 (55)	11 (27)	2 (6)	1 (3)	4 (8)	2 (4)	3 (1)	2 (0)	35 (27)	19 (13)	74 (62)	40 (31)
	Total	18 (25)	13 (16)	10 (6)	8 (4)	9 (24)	7 (15)	6 (4)	5 (3)	32 (37)	23 (24)	29 (30)	21 (19)

Note: - Figures in brackets correspond to 2011-12

9.4 Among the Animal operated implements, the number of Wooden Plough, Mould Board Plough, Disc Harrow, Cultivator, Seed cum Fertilizer Drill, Levelling Kharah and Seed Planter and Bund Former used per 100 operational holdings and 100 hectare of operated area is 30 & 22, 36 & 27, 29 & 21, 31 & 23, 30 & 22, 22 & 16, 8 & 6, and 7 & 5 respectively and Potato & Groundnut Digger and Animal Drawn Puddler both are negligible in the State. (Table 9.1B)

9.5 Haveri district had accounted for the largest number of Wooden Plough (60), Hassan district had accounted for the largest number of Mould Board Plough (82), Hassan district accounted for the largest number of Disc Harrow (79), Hassan district accounted for the largest number of Cultivator (77) & seed cum fertilizers (74). Kolar district accounted for the largest number of Levelling Kharah (67), Kodagu district had accounted for the largest number of Seed Planter (40) and Cane Crusher (30), Kolar district had accounted for the largest number of Bund Former (55) per 100 operational holdings in the State. (Table 9.1B)

Table – 9.1 Contd...

Number of Agricultural implements used by operational holders, 2016-17

B: Animal operated equipments:

SI. NO	District	Wooden Plough		Mould Board Plough		Disc Harrow	
		Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area
1	2	3	4	5	6	7	8
1	Belagavi	20 (70)	12 (38)	26 (63)	16 (35)	15 (52)	10 (29)
2	Bagalkote	14 (32)	7 (15)	20 (47)	11 (22)	16 (45)	8 (21)
3	Vijayapura	11 (9)	4 (3)	12 (50)	5 (18)	13 (51)	5 (18)
4	Kalaburagi	27 (37)	12 (15)	33 (92)	15 (39)	31 (64)	15 (27)
5	Bidar	31 (66)	18 (36)	31 (63)	18 (35)	23 (18)	14 (10)
6	Raichur	10 (53)	5 (25)	8 (44)	4 (21)	7 (57)	4 (27)
7	Koppal	52 (43)	29 (21)	45 (47)	25 (23)	30 (22)	17 (11)
8	Gadag	11 (53)	5 (22)	13 (55)	6 (23)	19 (50)	9 (20)
9	Dharwad	22 (82)	10 (34)	23 (47)	11 (19)	25 (86)	12 (35)
10	U. Kannada	23 (50)	29 (56)	17 (51)	21 (57)	17 (39)	21 (43)
11	Haveri	60 (85)	38 (48)	45 (68)	28 (38)	62 (80)	39 (45)
12	Ballari	38 (74)	22 (39)	26 (39)	15 (20)	31 (45)	18 (24)
13	Chitradurga	14 (89)	8 (45)	26 (61)	14 (31)	13 (62)	7 (32)
14	Davanagere	23 (70)	17 (47)	22 (60)	17 (40)	19 (62)	14 (41)
15	Shivamogga	7 (49)	6 (39)	56 (67)	51 (53)	48 (57)	44 (46)
16	Udupi	6 (43)	8 (52)	5 (16)	7 (20)	0 (0)	0 (0)
17	Chikkamagaluru	35 (53)	25 (39)	56 (57)	41 (42)	39 (33)	29 (25)
18	Tumakuru	16 (62)	13 (38)	8 (69)	6 (42)	3 (18)	2 (11)
19	Kolar	37 (48)	47 (49)	39 (69)	50 (69)	67 (46)	86 (46)
20	Bengaluru (U)	29 (93)	37 (89)	27 (82)	35 (78)	32 (53)	42 (50)
21	Bengaluru (R)	44 (53)	57 (60)	42 (45)	55 (51)	39 (36)	50 (41)
22	Mandya	10 (56)	17 (78)	42 (74)	70 (102)	13 (26)	21 (36)
23	Hassan	54 (51)	64 (51)	82 (80)	98 (80)	79 (44)	94 (44)
24	D.Kannada	1 (32)	1 (37)	0 (14)	0 (16)	0 (0)	0 (0)
25	Kodagu	45 (59)	20 (76)	45 (66)	20 (84)	59 (9)	26 (4)
26	Mysuru	59 (71)	76 (75)	66 (75)	84 (80)	35 (29)	45 (31)
27	Chamarajanagar	36 (64)	36 (61)	40 (84)	40 (79)	25 (2)	24 (2)
28	Ramanagara	10 (24)	15 (30)	79 (73)	114 (93)	38 (10)	55 (12)
29	Chikkaballapur	38 (37)	47 (34)	23 (30)	29 (28)	16 (18)	20 (16)
30	Yadgir	6 (35)	3 (17)	5 (56)	3 (28)	9 (40)	5 (20)
	Total	30 (54)	22 (35)	36 (60)	27 (38)	29 (39)	21 (25)

Note: - Figures in brackets correspond to 2011-12

Table – 9.1 Contd...

Number of Agricultural implements used by operational holders, 2016-17

B: Animal operated equipments: Contd...

Sl. NO	District	Cultivator		Seed-cum Fertilizer Drill		Levelling Kharah		Seed Planter	
		Per 100 operationa l holdings	Per 100 Hectare of operated area	Per 100 operationa l holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area
1	2	3	4	5	6	7	8	9	10
1	Belagavi	24 (66)	15 (37)	27 (67)	17 (37)	9 (46)	6 (25)	2 (9)	1 (5)
2	Bagalkote	25 (62)	13 (29)	26 (70)	14 (32)	8 (39)	4 (18)	1 (2)	1 (1)
3	Vijayapura	13 (84)	5 (30)	13 (88)	5 (32)	13 (73)	5 (26)	3 (2)	1 (1)
4	Kalaburagi	32 (85)	15 (36)	33 (92)	16 (38)	22 (26)	10 (11)	0 (3)	0 (1)
5	Bidar	29 (47)	17 (26)	26 (67)	15 (37)	12 (12)	7 (7)	0 (1)	0 (0)
6	Raichur	7 (66)	4 (31)	7 (66)	4 (31)	6 (44)	3 (20)	5 (4)	3 (2)
7	Koppal	29 (36)	16 (17)	48 (60)	27 (29)	39 (45)	22 (22)	17 (1)	9 (1)
8	Gadag	27 (65)	12 (27)	30 (84)	14 (35)	8 (62)	4 (25)	1 (2)	1 (1)
9	Dharwad	27 (81)	13 (33)	29 (83)	14 (34)	19 (71)	9 (29)	3 (8)	1 (3)
10	U. Kannada	21 (30)	26 (34)	12 (22)	14 (24)	12 (31)	15 (34)	1 (0)	1 (0)
11	Haveri	72 (81)	45 (46)	72 (70)	45 (40)	46 (68)	29 (38)	7 (7)	5 (4)
12	Ballari	29 (50)	17 (26)	23 (52)	14 (27)	23 (40)	14 (21)	16 (13)	9 (7)
13	Chitradurga	12 (65)	6 (33)	13 (69)	7 (35)	16 (52)	9 (27)	5 (3)	3 (1)
14	Davanagere	21 (54)	15 (36)	16 (41)	12 (28)	12 (27)	9 (18)	1 (2)	1 (1)
15	Shivamogga	48 (52)	43 (42)	24 (40)	22 (31)	49 (53)	44 (42)	5 (3)	5 (3)
16	Udupi	0 (0)	0 (0)	1 (11)	2 (13)	6 (3)	8 (3)	0 (0)	0 (0)
17	Chikkamagaluru	42 (33)	30 (24)	35 (2)	26 (1)	38 (30)	27 (23)	12 (7)	9 (5)
18	Tumakuru	9 (43)	7 (27)	2 (18)	1 (11)	0 (13)	0 (8)	0 (1)	0 (1)
19	Kolar	65 (40)	83 (41)	52 (36)	67 (36)	67 (59)	85 (59)	51 (2)	65 (2)
20	Bengaluru (U)	31 (51)	40 (49)	7 (16)	9 (15)	27 (46)	35 (44)	1 (1)	2 (1)
21	Bengaluru (R)	41 (50)	54 (57)	34 (44)	45 (50)	10 (21)	13 (24)	0 (3)	1 (3)
22	Mandya	24 (34)	40 (47)	15 (13)	25 (18)	18 (28)	29 (38)	4 (1)	7 (1)
23	Hassan	77 (48)	92 (49)	62 (28)	74 (28)	61 (38)	72 (38)	37 (1)	44 (1)
24	D.Kannada	0 (0)	0 (0)	0 (0)	0 (0)	0 (5)	0 (5)	0 (0)	0 (0)
25	Kodagu	58 (3)	26 (1)	51 (3)	22 (1)	65 (21)	28 (9)	40 (0)	18 (0)
26	Mysuru	29 (28)	37 (30)	20 (17)	26 (18)	17 (17)	22 (18)	2 (3)	3 (4)
27	Chamarajanagar	7 (23)	7 (21)	2 (14)	2 (13)	1 (4)	1 (4)	0 (0)	0 (0)
28	Ramanagara	64 (24)	92 (30)	60 (27)	87 (35)	23 (5)	33 (7)	8 (0)	12 (1)
29	Chikkaballapur	19 (25)	23 (23)	20 (13)	24 (12)	10 (6)	12 (6)	1 (0)	1 (0)
30	Yadgir	10 (69)	6 (35)	12 (65)	7 (32)	7 (36)	4 (18)	1 (1)	0 (0)
	Total	31 (49)	23 (31)	30 (46)	22 (29)	22 (34)	16 (22)	8 (3)	6 (2)

Note:- Figures in brackets correspond to 2011-12

Table – 9.1 Contd...

Number of Agricultural implements used by operational holders, 2016-17

B: Animal operated equipments: Contd...

Sl. NO	District	Cane Thresher		Bund Former		Potato & Groundnut Digger		Animal Drawn Puddler	
		Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area
1	2	3	4	5	6	7	8	9	10
1	Belagavi	N	N	1	1	0	0	0	0
		N	N	(0)	(0)	N	N	N	N
2	Bagalkote	N	N	N	N	0	0	0	0
		N	N	(2)	N	(2)	N	(1)	(1)
3	Vijayapura	1	N	2	1	0	0	0	0
		N	N	(5)	(2)	(0)	(0)	(0)	(0)
4	Kalaburagi	0	0	N	N	0	0	0	0
		(2)	(1)	N	N	(0)	(0)	(0)	(0)
5	Bidar	N	N	N	N	0	0	0	0
		(2)	N	N	N	N	N	(0)	(0)
6	Raichur	N	N	3	2	0	0	0	0
		(9)	(4)	(1)	(1)	N	N	(0)	(0)
7	Koppal	2	1	8	5	0	0	0	0
		(1)	(1)	(3)	(1)	(0)	(0)	N	N
8	Gadag	0	0	2	1	0	0	0	0
		(0)	(0)	N	N	(0)	(0)	(0)	(0)
9	Dharwad	0	0	1	1	0	0	0	0
		N	N	(13)	(5)	N	N	(0)	(0)
10	U. Kannada	1	1	4	5	0	0	0	0
		N	N	N	N	N	N	N	N
11	Haveri	0	0	3	2	0	0	0	0
		(1)	(1)	(2)	(1)	N	N	(0)	(0)
12	Ballari	7	4	13	8	0	0	0	0
		(2)	N	(0)	(0)	(0)	(0)	(0)	(0)
13	Chitradurga	N	N	5	3	0	0	0	0
		N	N	(2)	N	(0)	(0)	(0)	(0)
14	Davanagere	0	0	8	6	0	0	0	0
		N	N	(4)	(3)	N	N	N	N
15	Shivamogga	N	N	31	28	0	0	0	0
		(2)	(1)	(9)	(7)	N	N	(0)	(0)
16	Udupi	0	0	3	3	0	0	0	0
		N	N	(2)	(2)	N	N	(0)	(0)
17	Chikkamagaluru	N	N	10	7	0	0	0	0
		(5)	(4)	(21)	(15)	(1)	(1)	(1)	N
18	Tumakuru	0	0	0	0	0	0	0	0
		N	N	(6)	(4)	(0)	(0)	N	N
19	Kolar	2	2	55	70	0	0	0	0
		N	N	(58)	(58)	(2)	(2)	(1)	(1)
20	Bengaluru (U)	1	1	8	10	0	0	0	0
		N	N	N	N	N	N	(0)	(0)
21	Bengaluru (R)	N	1	1	1	0	0	0	0
		(1)	(2)	(15)	(17)	(0)	(0)	(0)	(0)
22	Mandya	1	1	5	9	0	0	0	0
		(3)	(4)	(4)	(5)	N	N	N	N
23	Hassan	N	N	22	26	0	0	0	0
		(1)	(1)	(3)	(3)	N	N	N	N
24	D.Kannada	N	N	0	0	0	0	0	0
		N	N	(0)	(0)	(0)	(0)	(0)	(0)
25	Kodagu	30	13	34	15	0	0	0	0
		N	N	(0)	(0)	(0)	(0)	N	N
26	Mysuru	N	N	2	2	0	0	0	0
		(4)	(4)	(1)	(1)	N	N	N	N
27	Chamarajanagar	N	N	0	0	0	0	0	0
		(0)	(0)	N	N	(0)	(0)	(0)	(0)
28	Ramanagara	0	0	5	8	0	0	0	0
		N	N	N	N	(0)	(0)	(0)	(0)
29	Chikkaballapur	8	10	2	2	0	0	0	0
		(1)	(1)	(9)	(9)	N	N	N	N
30	Yadgir	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Total	0	0	7	5	0	0	0	0
		(1)	(1)	(5)	(3)	N	N	N	N

Note:- Figures in brackets correspond to 2011-12 'N' indicates Nil

9.6 The number of Sprayers used by 100 operational holders individually is 4 in the State. The number of Sprayers used per 100 operational holdings is highest with 29 in Bidar, followed by 19 in Shivamogga, 15 each in Gadag and Chikkamagaluru, 9 in Dakshina Kannada during 2016-17 survey. (Table 9.1C)

9.7 The number of Diesel Pump sets used by 100 operational holders is 4 in the State. The number of Diesel Pump sets estimated per operational holdings is maximum in Dakshina Kannada (12). (Table 9.1C)

9.8 The number of Electric Pump Sets estimated per 100 operational holdings is 19 in the State and it is highest with 73 in Dakshina Kannada, 59 in Udupi and 43 in Bagalkote. (Table 9.1C)

9.9 The number of Power Tillers used is 3 in the State and this number is higher than state level in 6 districts i.e. Chitradurga (22), Davanagere (21) both Uttara Kannada and Dharwad (13) per 100 operational holdings. (Table 9.1C)

9.10 The number of Plant equipment & engines used per 100 hectare of operated area has 3 Sprayers, 3 Diesel Pump sets, 14 Electric pump sets and 2 Power Tillers in the State during 2016-17. (Table 9.1C)

Table – 9.1 Contd...

Number of Agricultural implements used by operational holders, 2016-17

C: Plant Equipments and Engines

Sl. NO	District	Sprayers		Diesel Pumpsets		Electric Pumpsets		Power Tillers	
		Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area	Per 100 operational holdings	Per 100 Hectare of operated area
1	2	3	4	5	6	7	8	9	10
1	Belagavi	3 (2)	2 (1)	12 (5)	7 (3)	34 (33)	22 (18)	1 (1)	1 (1)
2	Bagalkote	4 N	2 N	2 N	1 N	43 (36)	23 (17)	2 (4)	1 (2)
3	Vijayapura	1 (3)	0 (1)	1 (3)	1 (1)	4 (24)	1 (9)	1 (4)	0 (1)
4	Kalaburagi	2 N	1 N	5 N	2 N	10 (9)	5 (4)	0 (1)	0 N
5	Bidar	29 (4)	17 (2)	0 N	0 N	7 (16)	4 (9)	2 (1)	1 N
6	Raichur	17 (2)	8 (1)	0 N	0 N	0 (2)	0 (1)	8 (1)	4 N
7	Koppal	7 (4)	4 (2)	4 (1)	2 (1)	10 (21)	5 (10)	7 (2)	4 (1)
8	Gadag	15 (1)	7 (1)	0 (0)	0 N	0 (2)	0 N	3 (2)	1 (1)
9	Dharwad	4 N	2 N	2 N	1 N	1 N	0 N	13 (2)	6 N
10	U. Kannada	2 (1)	2 (2)	2 (2)	3 (2)	39 (25)	48 (28)	13 (9)	16 (11)
11	Haveri	1 N	1 N	2 N	1 N	21 (23)	13 (13)	1 (4)	1 (2)
12	Ballari	5 N	3 N	7 N	4 N	17 (4)	10 (2)	8 (1)	5 N
13	Chitradurga	4 (2)	2 N	0 (2)	0 N	0 (18)	0 (9)	22 (2)	12 (1)
14	Davanagere	1 (1)	1 (1)	4 (2)	3 (1)	1 (12)	1 (8)	21 (1)	16 (1)
15	Shivamogga	19 N	17 N	5 (4)	5 (4)	42 (15)	38 (12)	5 (1)	4 (1)
16	Udupi	0 (1)	0 (1)	15 (1)	19 (2)	59 (40)	76 (49)	4 (34)	5 (41)
17	Chikkamagaluru	15 (7)	11 (5)	9 (8)	7 (6)	18 (12)	13 (9)	6 (4)	4 (3)
18	Tumakuru	0 N	0 N	0 (2)	0 N	0 (19)	0 (12)	9 (1)	7 (1)
19	Kolar	1 (1)	2 (1)	2 (2)	2 (2)	14 (19)	18 (19)	1 (2)	1 (2)
20	Bengaluru (U)	2 N	3 N	0 (1)	0 (1)	16 (19)	20 (18)	2 (4)	3 (4)
21	Bengaluru (R)	3 N	3 N	4 (2)	5 (2)	11 (10)	15 (12)	2 (1)	3 (1)
22	Mandya	0 N	1 N	6 (1)	11 (1)	16 (2)	26 (2)	1 (1)	1 (1)
23	Hassan	3 (5)	4 (5)	6 (9)	7 (9)	7 (6)	8 (6)	4 (12)	5 (12)
24	D. Kannada	9 (3)	11 (4)	12 (27)	14 (31)	73 (78)	90 (91)	1 (20)	1 (24)
25	Kodagu	7 (9)	3 (4)	8 (69)	4 (29)	3 (64)	1 (27)	12 (6)	5 (3)
26	Mysuru	0 (4)	0 (4)	0 (3)	1 (4)	6 (6)	8 (6)	1 (5)	2 (6)
27	Chamarajanagar	0 (3)	0 (2)	1 N	1 N	33 (17)	33 (16)	0 (1)	0 (1)
28	Ramanagara	0 N	0 N	0 N	1 N	10 (8)	14 (11)	0 (2)	0 (2)
29	Chikkaballapur	2 N	2 N	0 N	0 N	6 (5)	8 (5)	1 (1)	1 (1)
30	Yadgir	0 (31)	0 (15)	1 (5)	1 (2)	6 (2)	3 (1)	0 (1)	0 (1)
	Total	4 (3)	3 (2)	4 (3)	3 (2)	19 (17)	14 (11)	3 (4)	2 (3)

Note:- Figures in brackets correspond to 2011-12 'N' indicates Nil

10 Agricultural Credit:-

10.1 According to 2016-17 survey estimates, about 45.5% of the operational holders had availed credit against 38.6% in 2011-12. The percentage number of holders availed credit is found to be highest in the districts viz., Bidar (87.5%), followed by Bagalkote (82.5%), Vijayapura (81.5%), Kodagu (71.6%), Belagavi (66.6%), Shivamogga (64.0%) and Chikkamagaluru (55.2%). (Table 10.1)

10.2 Co-operative Societies continued to play vital role in extending credit facilities in rural areas. The percentage number of holders availing credit from the Co-operative sector workout to be 30.1%, while the remaining 69.9% of the holder's availed loan from the other sources, such as, Commercial Bank Branches, Regional Rural Banks etc. during 2016-17. (Table 10.1)

10.3 The ailment of credit through Co-operative sector is the highest in Bidar district accounted for 85.0% and lowest in Kolar district 0.5%. (Table 10.1)

Table - 10.1

Percentage of Number of operational holders who availed credit and the amount of credit availed by districts, 2016-17

(Amount in Lakhs.)

Sl. No.	District	Percentage of holders who availed credit from			Amount of credit availed
		Total	Co-operative	Others	
1	2	3	4	5	6
1	Belagavi	66.6 (46.8)	47.7 (41.2)	32.2 (7.0)	480066.15 (9194129.0)
2	Bagalkote	82.55 (50.2)	70.86 (44.6)	25.66 (13.4)	292801.49 (6859269.0)
3	Vijayapura	81.5 (63.0)	75.7 (54.4)	19.1 (12.1)	255975.5 (8521108.0)
4	Kalaburagi	26.2 (41.1)	10.5 (5.3)	15.7 (38.2)	65257.8 (5585094.0)
5	Bidar	87.5 (90.7)	85.0 (82.8)	2.9 (10.7)	80767.2 (2521122.0)
6	Raichur	52.7 (36.1)	27.4 (18.6)	25.5 (21.7)	164081.0 (6052267.0)
7	Koppal	29.6 (43.2)	17.7 (19.9)	18.8 (40.8)	98040.9 (4073384.0)
8	Gadag	58.7 (61.4)	3.3 (15.2)	56.0 (51.7)	150878.1 (4556471.0)
9	Dharwad	49.7 (26.2)	12.0 (7.6)	43.6 (19.5)	80626.1 (1971790.0)
10	U Kannada	55.0 (51.0)	47.2 (44.0)	13.1 (13.0)	76668.2 (2879354.0)
11	Haveri	59.2 (59.1)	8.5 (31.5)	51.6 (30.0)	158223.0 (3798565.0)
12	Ballari	60.3 (35.3)	35.8 (26.5)	28.4 (23.0)	217418.9 (5402416.0)
13	Chitradurga	47.6 (43.5)	21.3 (21.1)	26.9 (24.5)	81989.7 (4522068.0)
14	Davanagere	54.6 (63.3)	28.9 (49.1)	28.5 (19.5)	130465.0 (8070409.0)
15	Shivamogga	64.0 (59.0)	46.6 (41.8)	22.9 (20.5)	104729.8 (4965943.0)
16	Udupi	30.5 (9.7)	21.6 (5.3)	9.0 (5.0)	43866.2 (1272586.0)
17	Chikkamagaluru	55.2 (74.6)	37.1 (57.4)	23.7 (47.8)	136129.9 (11456785.0)
18	Tumakuru	48.3 (12.2)	39.5 (7.5)	10.1 (10.8)	93777.9 (3828134.0)
19	Kolar	4.3 (17.1)	0.5 (8.0)	3.8 (9.6)	19324.5 (1727442.0)
20	Bengaluru (U)	52.3 (26.1)	46.9 (7.2)	5.5 (20.4)	32808.7 (768582.0)
21	Bengaluru (R)	10.5 (12.0)	4.8 (7.4)	6.5 (7.5)	13841.0 (2006866.0)
22	Mandya	37.5 (15.3)	30.7 (13.1)	9.8 (2.9)	118467.2 (1628358.0)
23	Hassan	24.7 (37.9)	19.1 (29.5)	12.3 (8.8)	85957.1 (4526176.0)
24	D. Kannada	51.1 (27.9)	40.6 (15.6)	15.8 (13.9)	108959.4 (3553115.0)
25	Kodagu	71.6 (81.4)	64.1 (38.4)	24.7 (74.6)	107037.7 (6114403.0)
26	Mysuru	24.8 (39.6)	10.8 (27.0)	16.4 (16.3)	132329.1 (5437276.0)
27	Chamarajanagar	13.1 (4.9)	1.5 (1.3)	25177.0 (6.3)	11.6 (1232390.0)
28	Ramanagara	26.9 (8.3)	25.4 (7.0)	1.5 (3.0)	40165.5 (677971.0)
29	Chikkaballapur	11.9 (2.2)	9.3 (1.8)	6.0 (1.5)	34033.2 (201637.0)
30	Yadgir	57.1 (41.8)	14.1 (8.8)	43.0 (33.1)	87942.3 (2549534.0)
	Total	45.5 (38.6)	30.1 (25.4)	19.5 (17.8)	3536301.4 (1259546.6)

Note:- Figures in brackets correspond to 2011-12

10.4 An amount of Rs. 3536 crores is estimated to have been availed as credit by the operational holders at the State level during 2016-17. The maximum amount of credit availed is reported from Belagavi district. It accounted for (13.57%) of the total credit and least amount of credit availed is reported from Bengaluru (U) district (0.92%). (Table 10.2)

10.5 Out of the total credit availed, the credit availed from P.A.C.S. is maximum (36.79%). The distribution of credit through R.R.B.B. Branches is the next highest accounting with 7.70%, C.B.B. Branches and P.L.D.B. respectively accounted for 16.34% and 39.17% of the total credit. (Table 10.2)

10.6 The amount of credit distributed through each of the sources viz., Primary Agricultural Co-operative Societies (10.54%), Primary Land Development Bank (12.25%) and Commercial Bank Branches (46.32%) is the highest in Belagavi district. Regional Rural Bank Branches (6.60%) is highest in Ballari district to the total credit. (Table 10.2)

Table - 10.2

Amount of credit availed by operational holders from different sources by districts 2016-17

(Amount in Lakhs.)

Sl. No.	District	Amount of credit availed from				Total
		P.A.C.S	P.L.D.B	C.B.B	R.R.B.B	
1	2	3	4	5	6	7
1	Belagavi	137125.7	33311.8	267713.9	41914.7	480066.2
		(583463.0)	(111269.5)	(145118.4)	(79561.8)	(919412.9)
2	Bagalkote	124107.1	17732.8	77202.2	73759.4	292801.5
		(250128.7)	(122356.1)	(47489.3)	(265952.6)	(685926.9)
3	Vijayapura	124778.4	18719.5	60761.0	51716.6	255975.5
		(524557.8)	(30543.1)	(164499.7)	(132510.1)	(852110.8)
4	Kalaburagi	20719.6	5172.1	5983.5	33382.6	65257.8
		(33943.3)	(935.0)	(228046.4)	(295584.5)	(558509.4)
5	Bidar	74853.1	3709.4	1761.9	442.8	80767.2
		(187218.9)	(8815.5)	(25393.7)	(30684.1)	(252112.2)
6	Raichur	28248.4	16024.8	112397.1	7410.8	164081.0
		(305362.0)	(26834.3)	(147060.9)	(125969.2)	(605226.7)
7	Koppal	54679.0	19354.1	11315.9	12691.9	98040.9
		(116333.2)	(35147.1)	(96728.9)	(159129.1)	(407338.4)
8	Gadag	1812.7	4024.8	55584.9	89455.6	150878.1
		(79684.0)	(23733.0)	(228409.6)	(123820.4)	(455647.1)
9	Dharwad	2800.4	940.6	34758.4	42126.6	80626.1
		(32807.0)	(15076.5)	(113228.5)	(36066.9)	(197179.0)
10	U. Kannada	48014.5	12435.2	8822.8	7395.7	76668.2
		(166321.2)	(109819.8)	(4835.3)	(6959.0)	(287935.4)
11	Haveri	10243.7	4190.3	92449.7	51339.3	158223.0
		(133897.4)	(5723.8)	(83422.3)	(156812.9)	(379856.5)
12	Ballari	91592.2	393.2	33882.7	91550.9	217418.9
		(280244.3)	(111512.9)	(53667.7)	(94816.6)	(540241.6)
13	Chitradurga	24992.2	2388.2	29241.6	25367.7	81989.7
		(115508.9)	(95791.3)	(120173.2)	(120733.2)	(452206.8)
14	Davanagere	28060.7	4842.0	65931.8	31630.6	130465.0
		(372886.7)	(35678.5)	(58352.0)	(340123.5)	(807040.9)
15	Shivamogga	49748.3	10965.7	15105.9	28909.9	104729.8
		(254907.9)	(56992.1)	(13268.7)	(171425.5)	(496594.3)
16	Udupi	24773.6	109.3	17228.2	1755.0	43866.2
		(57062.8)	(24826.5)	(11019.4)	(34349.6)	(127258.6)
17	Chikkamagaluru	59126.8	15206.9	50140.0	11656.2	136129.9
		(335334.4)	(103024.5)	(60353.3)	(646966.2)	(1145678.5)
18	Tumakuru	66136.9	11983.3	5436.7	10220.9	93777.9
		(144755.1)	(67207.3)	(23783.8)	(147067.1)	(382813.4)
19	Kolar	1365.1	1487.8	8976.3	7495.3	19324.5
		(45186.7)	(26194.8)	(46078.7)	(55283.8)	(172744.2)
20	Bengaluru (U)	23965.9	7716.0	1126.8	0.0	32808.7
		(29042.1)	(11099.7)	(36593.8)	(122.3)	(76858.2)
21	Bengaluru (R)	4223.4	2476.1	1010.3	6131.2	13841.0
		(44473.8)	(9246.4)	(10994.6)	(135971.5)	(200686.6)
22	Mandya	70172.7	19226.6	21485.4	7582.5	118467.2
		(87428.1)	(10436.6)	(8990.1)	(55980.9)	(162835.8)
23	Hassan	38593.0	4869.4	40634.8	1860.0	85957.1
		(262580.2)	(29858.6)	(68919.3)	(91259.3)	(452617.6)
24	D.Kannada	51062.7	28106.2	28176.5	1614.0	108959.4
		(249925.9)	(69248.7)	(5954.4)	301823	(355311.5)
25	Kodagu	44066.4	1128.6	61704.8	137.9	107037.7
		(127175.8)	(13151.5)	(119562.6)	(351550.2)	(611440.3)
26	Mysuru	35667.4	11640.1	75754.8	9266.8	132329.1
		(289799.2)	(64206.3)	(83003.1)	(106718.8)	(543727.6)
27	Chamarajanagar	1910.6	4169.3	3643.8	33950.0	43673.7
		(19266.4)	(6731.0)	(1026.7)	(96214.8)	(123239.0)
28	Ramanagara	32944.4	2460.2	4584.0	176.9	40165.5
		(48330.7)	(9811.0)	(4727.5)	(4927.8)	(67797.1)
29	Chikkaballapur	13994.9	7078.2	11174.4	1785.7	34033.2
		(9202.2)	(3863.8)	(3533.3)	(3564.2)	(20163.7)
30	Yadgir	11296.4	62.4	76120.6	462.9	87942.3
		(36231.8)	(0.0)	(29959.7)	(188761.7)	(254953.4)
	Total	1301076.2	271924.7	1385383.2	577917.3	3536301.4
		(522306.1)	(123913.7)	(408907.1)	(204419.6)	(1259546.6)

Note: - Figures in brackets correspond to 2011-12

10.7 The estimated amount of short-term credit worked out to be Rs. 2222 crores or 62.84% of the total credit. The credit provided in the form of fertilizers and other inputs is Rs. 8543 crores or 38.45% of the total short-term credit and the remaining 61.55% or Rs. 13679 crores of credit had been provided in the form of cash during 2016-17. (Table 10.3)

10.8 The amount of short term credit distributed in the form of fertilizers is found to be the highest in Belagavi district (14.15%) and it is lowest (0.02%) in Kolar district. The amount of short term credit distributed in the form of other inputs is highest in Belagavi district (15.69%) and it is 0.03% in Kolar district. (Table 10.3)

TABLE - 10.3**Distribution of short term loan in terms of value of quantity of fertilisers and other inputs, 2016-17**

(In Lakhs.)

SI. No.	District	Short term loan			Total
		Fertiliser	Other inputs	In cash	
1	2	3	4	5	6
1	Belagavi	57857.21 (22261.96)	69948.09 (22917.73)	100750.39 (28758.34)	228555.69 (73938.03)
2	Bagalkote	3613.63 (990.30)	2828.77 (3305.33)	186520.32 (27112.43)	192962.72 (31408.07)
3	Vijayapura	62541.47 (243.76)	64446.28 (7801.42)	21208.28 (69943.46)	148196.03 (77988.65)
4	Kalaburagi	26295.87 (2992.72)	23043.49 (12383.68)	515.55 (30037.84)	49854.91 (45414.25)
5	Bidar	95.71 (3287.00)	19235.28 (340.70)	56996.47 (20132.01)	76327.46 (23759.72)
6	Raichur	6924.23 (14046.15)	1672.98 (380.62)	22907.52 (34068.71)	31504.73 (48495.49)
7	Koppal	19963.61 (217.10)	19925.68 (5081.29)	23173.90 (25037.05)	63063.19 (30335.45)
8	Gadag	1582.18 (3835.26)	3231.09 (7050.06)	83072.96 (20626.43)	87886.23 (31511.77)
9	Dharwad	817.90 (1731.61)	2770.98 (2439.83)	55475.60 (8534.49)	59064.48 (12705.93)
10	U.kannada	4307.39 (3793.56)	10910.88 (1222.56)	35872.90 (12059.19)	51091.17 (17075.32)
11	Haveri	33232.45 (955.55)	53055.50 (916.24)	35347.66 (30574.78)	121635.61 (32446.58)
12	Ballari	5444.03 (7231.11)	5884.92 (6731.69)	200965.82 (25624.77)	212294.77 (39587.58)
13	Chitradurga	3008.61 (3631.68)	7446.94 (3122.98)	63516.46 (12132.90)	73972.01 (18887.57)
14	Davanagere	32595.03 (20292.03)	6685.03 (13965.98)	16762.57 (22926.01)	56042.63 (57184.03)
15	Shivamogga	503.66 (11638.52)	714.55 (3831.72)	69230.14 (22207.79)	70448.35 (37678.04)
16	Udupi	1044.29 (21.69)	19899.76 (1531.59)	5671.02 (4828.90)	26615.07 (6382.19)
17	Chimagalur	7849.21 (4362.27)	5564.07 (5229.05)	74555.61 (67423.99)	87968.89 (77015.33)
18	Tumakuru	18912.50 (2116.23)	44633.43 (9606.73)	13339.92 (13226.59)	76885.85 (2494956)
19	Kolar	84.17 (1609.81)	171.99 (2692.46)	8288.71 (4530.31)	8544.87 (8832.58)
20	Bengaluru(U)	2297.64 (1456.55)	1154.76 (776.00)	20513.48 (4340.27)	23965.88 (6572.83)
21	Bengaluru®	3576.88 (687.16)	4603.63 (2883.34)	1235.51 (14644.21)	9416.02 (18214.71)
22	Mandya	43746.63 (3315.13)	28528.39 (5274.22)	18541.93 (4351.99)	90816.95 (12941.35)
23	Hassan	3095.94 (727.33)	1704.02 (9024.36)	51255.15 (28393.71)	56055.11 (38145.41)
24	D.Kannada	1037.98 (1926.46)	1104.05 (17282.57)	54455.04 (6007.26)	56597.07 (25216.30)
25	Kodagu	18890.18 (832.41)	855.55 (4360.99)	27488.43 (33681.58)	47234.16 (38874.99)
26	Mysuru	9070.13 (10618.53)	17215.34 (15309.29)	75320.09 (17585.94)	101605.56 (43513.77)
27	Chamrajanar	0.00 (170.55)	2859.25 (6749.59)	3239.40 (1069.21)	6098.65 (7989.37)
28	Ramanagara	10447.35 (73.00)	2219.89 (1903.74)	23111.53 (3821.86)	35778.77 (5798.60)
29	Chikkaballapur	7575.76 (371.09)	1468.03 (77.02)	10475.42 (1074.41)	19519.21 (1522.53)
30	Yadgir	22311.22 (62.46)	21876.10 (1152.61)	8108.85 (12550.73)	52296.17 (13765.81)
	Total	408722.75 (125499.12)	445658.61 (175345.52)	1367916.59 (607307.29)	2222297.95 (908151.94)

Note: - Figures in brackets correspond to 2011-12

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