

Government of Karnataka

## REPORT ON ESTIMATES OF

# AREA OF PRINCIPAL CROPS UNDER 

## TIMELY REPORTING SCHEME

## IN KARNATAKA

## 2020-21

## PREFACE

The centrally sponsored "Timely Reporting Scheme" is being implemented in the State since 1969-70 which aims to arrive at quick and reliable estimates of area under principal crops. Districtwise area under selected principal crops has been estimated based on the data from sample villages for all the three seasons during 2020-21 which constitute 20 percent of total villages. This report is based on the fifth set of $20 \%$ villages selected among the five sets of villages commencing from 2016-17 to 2020-21 covering 15 crops. While estimating area, classification of crops as traditional and high yielding variety and also status of irrigation are taken into account.

This report is prepared in the Agricultural Statistics Division of the Directorate of Economics and Statistics. Suggestions for improvement of this report are most welcome.

Team Associated in the Preparation of Report

| Smt. J. Mangala | Joint Director |
| :--- | :--- |
| Smt. T.S. Girija | Deputy Director |
| Smt. E. Pushpa | Assistant Director |
| Kum. M. Hameeda | Enumerator |
| Sri. Hanumantaraya | Enumerator |

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## TIMELY REPORTING OF ESTIMATES OF AREA OF PRINCIPAL CROPS IN KARNATAKA 2020-21

### 1.1 Introduction

The "Timely Reporting Scheme" sponsored by Government of India is being implemented in the State since 1969-70, with an objective to arrive at quick, reliable and accurate estimates of area under selected principal crops soon after the end of each season. These estimates of area are worked out on the basis of the actual enumeration in $20 \%$ of total villages selected in the State every year. The area estimates under this scheme will help the Government in assessing agricultural prospects during the year and to take quick policy measures relating to agricultural output, imports, minimum support price and exports of the agricultural commodities etc.

### 1.2 Objective

The main objective of the scheme is to obtain reliable and statistically precise area estimates under selected principal crops soon after the end of each season. The area is estimated separately for irrigated and unirrigated category crops for both traditional and high yielding varieties.

### 1.3 Coverage

The time schedule of timely reporting scheme of the State covering the period from $1^{\text {st }}$ April 2020 to $31^{\text {th }}$ March 2021 is divided into three seasons viz., kharif, rabi and summer (see Para 1.4). Totally 15 major crops are covered under the scheme but the number of crop coverage varies from season to season. However, Paddy, Maize, Ragi and Sunflower crops are common for all the three seasons. Crop coverage in each season is as follows:-
a) Kharif:

1. Paddy
2. Jowar
3. Maize
4. Ragi 5. Bajra
5. Tur 7. Groundnut 8. Sesamum 9. Sunflower
$\begin{array}{llllll}\text { b) Rabi: } & \text { 1. Paddy } & \text { 2. Jowar } & \text { 3. Maize } & \text { 4. Ragi } & \text { 5. Wheat } \\ & \text { 8. Cotton } & \text { 7. Gram }\end{array}$
c) Summer: 1. Paddy 2. Maize 3. Ragi 4. Groundnut 5. Sunflower.

### 1.4 Time Schedule

The time schedule for crop area enumeration was as follows:

| Sl. <br> No. | Agricultural Season | Sowing period | Crop enumeration period |
| :---: | :---: | :---: | :---: |
| 1 | Kharif - Early <br> - Late | $\begin{aligned} & 1^{\text {st }} \text { April } 2020 \text { to } 30^{\text {th }} \text { June } 2020 \\ & 1^{\text {st }} \text { July } 2020 \text { to } 31^{\text {st }} \text { August } 2020 \end{aligned}$ | $\begin{aligned} & 1^{\text {st }} \text { July } 2020 \text { to } 9^{\text {th }} \text { July } 2020 \\ & 1^{\text {st }} \text { Sept } 2020 \text { to } 9^{\text {th }} \text { Sept } 2020 \end{aligned}$ |
| 2 | Rabi | $1^{\text {st }}$ Sept 2020 to 30 ${ }^{\text {th }}$ Dec 2020 | $1^{\text {st }}$ Jan 2021 to $9^{\text {th }}$ Jan 2021 |
| 3 | Summer | $1^{\text {st }}$ Jan 2021 to 31 ${ }^{\text {st }}$ March 2021 | $1^{\text {st }}$ April 2021 to 9 ${ }^{\text {th }}$ April 2021 |

### 1.5 Sampling design

1) Linear systematic sampling method, suggested by the Directorate of Economics and Statistics, Government of India, New Delhi, is adopted, treating each taluk as a stratum. $20 \%$ of total villages in each taluk are selected every year. All the village accountant circles in each taluk and all the villages in each village accountant circle are arranged in random order for preparing a sample frame to select the sampling unit.
2) The selection of $20 \%$ sample villages in each taluk is done as per systematic sampling technique from the sampling frame stated above, with an interval of five sample units with a different random strata adopting non-overlapping sampling procedure.
3) Commencing the year 2016-17, $20 \%$ of villages are selected every year under the scheme, so that $100 \%$ villages are covered in five years i.e. by 2020-21. This report is based on the data collected from the fifth set of villages selected for the year 2020-21.

### 1.6 Organization of field work

1) The Directorate of Economics and Statistics was entrusted with the responsibility of implementation of the scheme and the field work was assigned to the Village Accountants of the Revenue Department.
2) To improve the quality of field work and to point out different kinds of mistakes committed by the Village Accountants in recording the crop area, supervision is essential. In Karnataka state from 2018-19 GIS mobile app based Crop Survey was started and conducted during kharif season only. From 2019-20 onwards crop survey was conducted in all three seasons. Since Kharif 2019, under crop survey Directorate of Economics and Statistics has been assigned the responsibility of $1 \%$ verification of the crop survey data capture through mobile app as $3^{\text {rd }}$ party audit. For the $1 \%$ verification Directorate of Economics and Statistics was taken up verification in all the TRS villages ( $20 \%$ of total villages). The supervision of field work was entrusted to Agriculture, Horticulture and Statistics department. The District Statistical Officers and their staff from the Economics \& Statistics Department were also involved in the supervision work.
3) The District Statistical Officers were assigned with the overall responsibility of implementation of the scheme in their jurisdiction.

### 1.7 Training

The District Statistical Officers impart training to the field staff with regard to the procedure to be followed in the area enumeration and in recording the crop area in the prescribed crop abstracts from the RTC. Supervisory staffs of the Horticulture/Revenue Agriculture and Statistics Departments were also trained during kharif season well before the commencement of the area enumeration work.

### 1.8 Sample size and receipt position of crop abstracts

During the year under review, in all 5712 villages were selected under the scheme. The details of number of villages selected and the number of the crop abstracts received in each season and other such particulars are given in Table-1.

Table - 1
Seasonwise receipt position of crop abstracts

| Sl. <br> No. | Particulars | Kharif | Rabi | Summer |
| :---: | :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| 1. | No. of Villages selected | 5712 | 5712 | 5712 |
| 2. | No. of Villages from which <br> crop abstracts received | 5706 | 5644 | 5424 |
| 3. | Percentage response | 100 | 99 | 95 |

### 1.9 Supervision

The details of supervision conducted by Statistics, Horticulture and Agriculture Departments are given in Table- 2.

Table-2
Number of villages Supervised

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Agency | No. of villages (Kharif + Rabi + Summer) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2020-21 |  | Percentage of supervision |  |
|  |  | Allotted | Supervised |  |  |
|  |  |  |  | 2020-21 | 2019-20 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Statistics | 11514 | 11223 | 97.47 | 99.44 |
| 2 | Agriculture | 1742 | 1711 | 98.22 | 97.26 |
| 3 | Horticulture/ Revenue | 1655 | 1615 | 97.58 | 97.02 |

### 1.10 Procedure for Estimating Area of Crops:

The formula adopted for estimating the area under selected crops and working out the sampling error of such estimates by the ratio method and compile the same with crop survey data.

## A. Ratio Method:

1. Let k be the number of taluks in a district.
2. Yij be the area under a crop in the $\mathrm{j}^{\text {th }}$ village of the $\mathrm{i}^{\text {th }}$ taluk in the current year.
3. $X_{i j}$ be the area under that crop in the $j^{\text {th }}$ village of the $\mathrm{i}^{\text {th }}$ taluk during the previous year.
4. ni be the total number of villages selected in the $\mathrm{i}^{\text {th }}$ taluk.
5. Ni be the total number of villages in the $\mathrm{i}^{\text {th }}$ taluk.
6. Rc be the combined ratio estimates of the given crop in the district.
7. X is the area under that crop during previous ASCR report.
$\wedge$
8. $\mathrm{Y}_{\mathrm{Rc}}$ be the estimates of the area of the crop in the district.
a) Area Estimates by Ratio Method

$$
\hat{Y_{R c}}=\left[\begin{array}{cc}
\sum_{i=1}^{k} & N_{i} \bar{Y}_{i} \\
\sum_{i=1}^{K} & N_{i} \bar{X}_{i}
\end{array}\right.
$$

Where $\mathrm{X}=$ the total area under the crop in the district during the previous year.

## CHAPTER - 2

## 2. Results of the scheme

Area estimates have been worked out by using ratio method, comparing the same with reconciled area. Crop wise details of the estimates are presented in the ensuing paragraphs.

### 2.1 Paddy

It is an important cereal crop grown in 15.14 hectares of area during 2020-21. The area covered under the crop was more in Raichuru followed by Ballary and Yadagiri districts. About 69.92 \% of the area under the crop was covered in Kharif season alone.

Seasonwise estimates of area as per ratio method along with reconciled area under paddy are given below in Table-3.

$$
\begin{gathered}
\text { Table }-3 \\
\text { Seasonwise Estimated and Reconciled area under Paddy crop }
\end{gathered}
$$

| Season | Estimated area <br> as per Ratio <br> Method | Reconciled <br> area (as per <br> Crop survey) | \% variation <br> over Reconciled <br> area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 954912 | 1058794 | -9.8 |
| Rabi | 33104 | 34152 | -3.1 |
| Summer | 414823 | 421344 | -1.5 |
| Total | $\mathbf{1 4 0 2 8 3 9}$ | $\mathbf{1 5 1 4 2 9 0}$ | $\mathbf{- 7 . 4}$ |

Compared to reconciled total area, the estimated area of Paddy under ratio method was lower. During all the three seasons, the percentage of variation over reconciled area was lower.

Estimated area under irrigated/unirrigated category as per ratio method and the reconciled area are given in Table-4.

Table-4
Season and Varietywise area Estimated by Ratio method under Paddy crop

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  |  | Reconciled area (as per Crop survey) | \% variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 10226 | 196 | 126 | 10548 | 15771 | -33.1 |
|  | Unirrigated | 16949 | 100 | 0 | 17049 | 42901 | -60.3 |
|  | Total | 27175 | 296 | 126 | 27597 | 58672 | -53.0 |
| High <br> Yielding | Irrigated | 721979 | 30872 | 414697 | 1167548 | 1241214 | -5.9 |
|  | Unirrigated | 205758 | 1936 | 0 | 207694 | 214404 | -3.1 |
|  | Total | 927737 | 32808 | 414697 | 1375242 | 1455618 | -5.5 |
| Total | Irrigated | 732205 | 31068 | 414823 | 1178096 | 1256985 | -6.3 |
|  | Unirrigated | 222707 | 2036 | 0 | 224743 | 257305 | -12.7 |
|  | Total | 954912 | 33104 | 414823 | 1402839 | 1514290 | -7.4 |

## Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled Area under Paddy Crop (in hectares)



As per the reconciled area, the irrigated area under paddy crop was $83.01 \%$ and unirrigated was $16.99 \%$, whereas under ratio method it was $83.98 \%$ and $16.02 \%$ respectively. In case of high yielding and traditional varieties the percentage of area under reconciled area was $96 \%$ and $4 \%$ as against the estimated area of $98 \%$ and $2 \%$ respectively. The percentage variation of estimated area under ratio method over reconciled area was $-6.3 \%$ under irrigated category, -12.7 \% under unirrigated category and $-7.4 \%$ to the total during 2020-21. Districtwise details are given in Appendix-2.1.

### 2.2 Jowar

Jowar is another important cereal crop with 7.5 lakh hectares of area in the State, of which $88.04 \%$ of area was cultivated during Rabi season alone. Belagavi stands first in the area coverage i.e., $20 \%$ followed by Kulburgi (11\%) and Haveri (10\%). Seasonwise information is given in Table-5.

$$
\text { Table - } 5
$$

Seasonwise Estimated and Reconciled area under Jowar crop

|  | Area in hectares |  |  |
| :--- | :---: | :---: | :---: |
| Season | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | \% variation <br> over <br> Reconciled <br> area |
| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| Kharif | 86896 | 89680 | -3.1 |
| Rabi | 643967 | 659992 | -2.4 |
| Total | $\mathbf{7 3 0 8 6 3}$ | $\mathbf{7 4 9 6 7 2}$ | $\mathbf{- 2 . 5}$ |

From the above table, the variation of area under ratio method compared to reconciled area was $-3.1 \%$ and $-2.4 \%$ during kharif and Rabi seasons respectively.

Area by varieties and status of irrigation worked out by ratio method and the reconciled area are given in Table-6.

Table - 6
Season and Varietywise area estimated by Ratio method and Reconciled area under Jowar crop

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  | Reconciled area (as per Crop survey) | \% variation over Reconciled area |
|  |  | Kharif | Rabi | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Traditional (Local) | Irrigated | 1900 | 8370 | 10270 | 10753 | -4.5 |
|  | Unirrigated | 15774 | 177937 | 193711 | 198305 | -2.3 |
|  | Total | 17674 | 186307 | 203981 | 209058 | -2.4 |
| High <br> Yielding | Irrigated | 15341 | 69862 | 85203 | 90617 | -6.0 |
|  | Unirrigated | 53881 | 387798 | 441679 | 449997 | -1.8 |
|  | Total | 69222 | 457660 | 526882 | 540614 | -2.5 |
| Total | Irrigated | 17241 | 78232 | 95473 | 101370 | -5.8 |
|  | Unirrigated | 69655 | 565735 | 635390 | 648302 | -2.0 |
|  | Total | 86896 | 643967 | 730863 | 749672 | -2.5 |

Out of total estimated area and reconciled jowar area, in both the cases $28 \%$ of area was under traditional variety and the remaining $72 \%$ area was under hybrid variety. District-wise details are given in Appendix - 2.2.

Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled Area under Jowar Crop (in hectares)


### 2.3 Ragi

Ragi is the third most important cereal crop largely grown in southern districts with 8 lakh hectares of area during 2020-21. The major Ragi growing districts are Tumakuru (21\%), Hassan (10\%), Mysuru (10\%), Mandya (9\%) and Ramanagara (9\%) which account for $59 \%$ of the total Ragi area of the State. About $90 \%$ of the area was covered under kharif season itself. Season wise area estimated as per ratio method is given in Table-7.

Table - 7
Seasonwise Estimated and Reconciled area under Ragi crop
Area in hectares

| Season | Estimated area <br> as per Ratio <br> Method | Reconciled <br> area (as per <br> Crop survey) | \% <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 717208 | 718048 | -0.1 |
| Rabi | 66230 | 70141 | -5.6 |
| Summer | 10320 | 12545 | -17.7 |
| Total | $\mathbf{7 9 3 7 5 8}$ | $\mathbf{8 0 0 7 3 4}$ | $\mathbf{- 0 . 9}$ |

The percentage variation of area estimated by ratio method over reconciled area was -0.9 compared to reconciled area. Estimated area under Ratio method was lower in all the three seasons.

Table- 8 depicts estimated area by status of irrigation.

Table - 8
Season and Varietywise area Estimated by Ratio method under Ragi crop

|  |  |  |  |  |  | Area in hectares |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  |  | Reconciled area (as per Crop survey) | \% variation over Reconciled area |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 100 | 3897 | 524 | 4521 | 7295 | -38.0 |
|  | Unirrigated | 4560 | 43 | 0 | 4603 | 6531 | -29.5 |
|  | Total | 4660 | 3940 | 524 | 9124 | 13826 | -34.0 |
| High <br> Yielding | Irrigated | 65368 | 40507 | 9796 | 115671 | 117906 | -1.9 |
|  | Unirrigated | 647180 | 21783 | 0 | 668963 | 669002 | -0.01 |
|  | Total | 712548 | 62290 | 9796 | 784634 | 786908 | -0.3 |
| Total | Irrigated | 65468 | 44404 | 10320 | 120192 | 125201 | -4.0 |
|  | Unirrigated | 651740 | 21826 | 0 | 673566 | 675533 | -0.3 |
|  | Total | 717208 | 66230 | 10320 | 793758 | 800734 | -0.9 |

Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled area under Ragi Crop (in hectares)


786908 hectares of reconciled area was covered by high yielding varieties of which, $85 \%$ was unirrigated. Out of total estimated area $98.9 \%$ was covered by High Yield variety and remaining under local variety. Estimated area was lower under Traditional and high yielding variety when compared to reconciled area. The percentage of variation under Irrigated and Unirrigated area was -4.0 and -0.3 respectively. District wise details are given in Appendix- 2.3

### 2.4 Maize

Maize is yet another cereal crop grown in more than 17 lakh hectares in the State. Maize growing Major districts are Belagavi (13\%), Haveri (13\%) and Ballary (11\%). $89 \%$ of the area was covered under kharif season alone.

Seasonwise estimated area as per ratio method is given in Table - 9

Table - 9
Seasonwise Estimated and Reconciled area under Maize crop
Area in hectares

| Season | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | \% variation <br> over Reconciled <br> area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 1526138 | 1563684 | -2.4 |
| Rabi | 148097 | 149419 | -0.9 |
| Summer | 45865 | 49147 | -6.7 |
| Total | $\mathbf{1 7 2 0 1 0 0}$ | $\mathbf{1 7 6 2 2 5 0}$ | $\mathbf{- 2 . 4}$ |

The Variation of estimated area under ratio method over reconciled area was $-2.4 \%$ in kharif, $-0.9 \%$ in Rabi and $-6.7 \%$ in summer season. The total estimated area was lower under ratio method when compared to the reconciled area.

Estimated area by variety and irrigated/unirrigated as per ratio method and the reconciled area are given in Table -10 .

Table - 10
Season and Varietywise Estimated area by Ratio method under Maize crop

| Variety |  | Estimated area as per Ratio Method |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Irrigated/ <br> Unirrigated |  |  |  |  | Reconciled area (as per Crop survey) | \% variation over <br> Reconciled area |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 3071 | 4435 | 343 | 7849 | 11992 | -34.5 |
|  | Unirrigated | 17633 | 1401 | 0 | 19034 | 25580 | -25.6 |
|  | Total | 20704 | 5836 | 343 | 26883 | 37572 | -28.4 |
| High Yielding | Irrigated | 430379 | 123552 | 45522 | 599453 | 608674 | -1.5 |
|  | Unirrigated | 1075055 | 18709 | 0 | 1093764 | 1116004 | -2.0 |
|  | Total | 1505434 | 142261 | 45522 | 1693217 | 1724678 | -1.8 |
| Total | Irrigated | 433450 | 127987 | 45865 | 607302 | 620666 | -2.2 |
|  | Unirrigated | 1092688 | 20110 | 0 | 1112798 | 1141584 | -2.5 |
|  | Total | 1526138 | 148097 | 45865 | 1720100 | 1762250 | -2.4 |

## Varietywise and Source wise Estimated Area (Ratio Method) and Reconciled area under Maize Crop (in hectares)



It is observed from the above table that, under ratio method, the total estimated irrigated area was $35.3 \%$, out of which $98.7 \%$ of area sown with hybrid variety. As per reconciled area, $35.2 \%$ of area was irrigated, of which the area sown with hybrid variety was $98.1 \%$. The variation of estimated irrigated and unirrigated area by ratio method over reconciled area was low i.e. $-2.2 \%$ and $-2.5 \%$ respectively. Districtwise details are given in Appendix-2.4

### 2.5 Bajra

Bajra crop was grown in 2.2 lakh hectares in the State during the year. It is largely grown in Koppal (35\%), Bagalakote (18\%), Raichuru (16\%), Vijayapura (13\%) and Ballari (7\%) districts in the State. These 5 districts alone contribute $89 \%$ of the total cropped area of the Bajra crop in the State. Total area estimated under the crop by ratio method was lower compared to the reconciled area. Only $0.4 \%$ of area estimated had traditional variety and the remaining $99.6 \%$ of the area was sown with high yielding variety as per ratio estimates whereas, under reconciled area $0.9 \%$ area was covered under traditional variety and $99.1 \%$ area was covered under hybrid variety.

Estimated area of Bajra crop varietywise and irrigated/unirrigated category by ratio method and reconciled area are given in Table-11.

## Table - 11 <br> Varietywise Estimated and Reconciled area under Bajra crop

Area in hectares

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method | Reconciled area (as per Crop survey) | \% variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| Traditional (Local) | Irrigated | 14 | 30 | -53.3 |
|  | Unirrigated | 849 | 1928 | -56.0 |
|  | Total | 863 | 1958 | -55.9 |
| High Yielding | Irrigated | 19349 | 19146 | 1.1 |
|  | Unirrigated | 190046 | 194733 | -2.4 |
|  | Total | 209395 | 213879 | -2.1 |
| Total | Irrigated | 19363 | 19176 | 1.0 |
|  | Unirrigated | 190895 | 196661 | -2.9 |
|  | Total | 210258 | 215837 | -2.6 |

Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled Area under Bajra Crop (in hectares)


It is observed from the above table that, under ratio method there was variation of $1.0 \%$ under irrigated area and $-2.9 \%$ under unirrigated area whereas, the variation under hybrid and traditional variety is $-2.1 \%$ and $-55.9 \%$ respectively when compared to reconciled area. Districtwise details are given in Appendix-2.5

### 2.6 Wheat

Wheat crop is grown only in Rabi season nearly in 2.1 lakh hectares. About 64990 hectares of area is covered by Belagavi district (31.5\%) followed by Vijayapura district 46350 hectares ( $22.5 \%$ ). As per Ratio Method the total estimated area was high when compared to reconciled area. Details are given in Table - 12 .

Table - 12
Varietywise Estimated and Reconciled area under Wheat crop

| Variety | Irrigated/ <br> Unirrigated | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | \% variation <br> over <br> Reconciled <br> area |
| :--- | :--- | :---: | :---: | :---: |
|  | 2 |  | 3 | 4 |
|  |  |  |  |  |
| Traditional <br> (Local) | Irrigated | 11551 | 12941 | -10.7 |
|  | Unirrigated | 19386 | 23953 | -19.1 |
|  | Total | $\mathbf{3 0 9 3 7}$ | $\mathbf{3 6 8 9 4}$ | -16.1 |
| High <br> Yielding | Irrigated | 141870 | 131331 | 8.0 |
|  | Unirrigated | 38261 | 37842 | 1.1 |
|  | Total | $\mathbf{1 8 0 1 3 1}$ | $\mathbf{1 6 9 1 7 3}$ | 6.5 |
| Total | Irrigated | 153421 | 144272 | 6.3 |
|  | Unirrigated | 57647 | 61795 | -6.7 |
|  | Total | $\mathbf{2 1 1 0 6 8}$ | $\mathbf{2 0 6 0 6 7}$ | 2.4 |

## Variety wise and Source wise Estimated Area (Ratio Method) and Reconciled Area under Wheat Crop (in hectares)



It can be seen from the above table that, under Ratio Method out of total estimated area irrigated area was 153421 ( $73 \%$ ) of which, the irrigated area under High Yield Variety was $92 \%$ and Traditional (Local) was $8 \%$. Under reconciled area, the area under irrigation was 144272 (70\%) of which, area under High Yield Variety was $91 \%$ and Traditional (Local) was 9\%. Districtwise details are given in Appendix- 2.5

Estimated area for cereal crops under ratio method and reconciled area is given in Table-13 and also graphically presented below.

$$
\text { Table - } 13
$$

## Estimated (Ratio Method) and reconciled (as per crop survey) area under Cereals

| Crop Name | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | \% variation <br> over Reconciled <br> area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Paddy | 1402839 | 1514290 | -7.4 |
| Jowar | 730863 | 749672 | -2.5 |
| Ragi | 793758 | 800734 | -0.9 |
| Maize | 1720100 | 1762250 | -2.4 |
| Bajra | 210258 | 215837 | -2.6 |
| Wheat | 211068 | 206067 | 2.4 |

## Estimated Area (Ratio Method) and Reconciled Area (as per crop survey)

 under Cereals (in hectares)

### 2.7 Tur

Tur crop is one of the important long duration pulse crop grown only in kharif season. About 16.6 lakh hectares of area was under this crop during 2020-21 of which, 5.9 lakh hectares grown in Kulburgi and 5.2 lakh hectares in Vijayapura districts which constitutes $67.2 \%$ of the total area of the crop in the state. It is observed that the estimated area by ratio method was lower to the extent of $1.3 \%$ when compared to the reconciled area. Details of estimated area given in table-14 and districtwise details are given in Appendix-2.5.

### 2.8 Bengalgram

Bengalgram is also an important pulse crop of the State grown in nearly 7.2 lakh hectares in Rabi season. Gadaga district is covered with 1.2 lakh hectares of area which works out to $17.3 \%$ of the total State area. The estimated area by ratio method was lower to the extent of $1.1 \%$ when compared the reconciled area.

Estimated area under Tur and Bengal gram crop is given in Table-14 and districtwise details are given in Appendix-2.5.

Table - 14
Estimated and Reconciled area under Tur and Bengal gram crops

| Crop | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | \% variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Tur | 1642793 | 1664122 | -1.3 |
| Bengal gram | 715264 | 723571 | -1.1 |

Estimated area for pulse crops under ratio method and reconciled area is graphically presented below.

Estimated (Ratio Method) and Reconciled area under Pulses (in hectares)


### 2.9 Groundnut

Groundnut is an important oilseed crop grown in about 5.9 lakh hectares in the State. Though it is grown in Kharif and Summer seasons, about $86 \%$ of the area is cultivated during kharif season alone. Predominant groundnut growing districts are Chitradurga (1.6 lakh hectares) and Tumakuru ( 0.88 lakh hectares), which accounted for $43 \%$ of the total area of the State. Seasonwise estimates of area are given in Table-15.

## Table - 15

## Seasonwise Estimated and Reconciled area under Groundnut crop

| Season | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop hectares <br> survey) | \% variation <br> over Reconciled <br> area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 508068 | 508774 | -0.1 |
| Summer | 76444 | 80133 | -4.6 |
| Total | 584512 | 588907 | -0.7 |

The estimated area under ratio method was lower side to the extent of $0.7 \%$ when compared with Reconciliation area. Varietywise and irrigated/un irrigated details are given in Table-16.

$$
\text { Table - } 16
$$

## Season and Varietywise estimated area by Ratio method and Reconciled area under Groundnut crop

Area in hectares

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  | Reconciled area (as per Crop survey) |  |  | ```% variation over Reconciled area``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Summer | Total | Kharif | Summer | Total |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Traditional (Local) | Irrigated | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
|  | Unirrigated | 1 | 0 | 1 | 0 | 0 | 0 | 0.0 |
|  | Total | 1 | 0 | 1 | 0 | 0 | 0 | 0.0 |
| High <br> Yielding | Irrigated | 38998 | 76378 | 115376 | 40241 | 80014 | 120255 | -4.1 |
|  | Unirrigated | 469069 | 66 | 469135 | 468533 | 119 | 468652 | 0.1 |
|  | Total | 508067 | 76444 | 584511 | 508774 | 80133 | 588907 | -0.7 |
| Total | Irrigated | 38998 | 76378 | 115376 | 40241 | 80014 | 120255 | -4.1 |
|  | Unirrigated | 469070 | 66 | 469136 | 468533 | 119 | 468652 | 0.1 |
|  | Total | 508068 | 76444 | 584512 | 508774 | 80133 | 588907 | -0.7 |

## Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled area under Groundnut Crop (in hectares)



It is seen from the above table that, the estimated area under irrigation as per ratio method was on lower side to the extent of $4.1 \%$ and under unirrigated it was higher side to the extent of $0.1 \%$. The total area under high yielding variety was on lower side to the extent of $0.7 \%$ when compared with reconciled area. Districtwise details are given in Appendix - 2.6

### 2.10 Sunflower

Sunflower is another important oilseed crop grown in about 1.2 lakh hectares in the State. Gadaga had the largest area ( 0.21 lakh hectares) followed by Bagalkote ( 0.20 lakh hectares), Belagavi ( 0.18 lakh hectares) and Koppal ( 0.12 lakh hectares). Total area in these four districts alone contributes $58 \%$ of sunflower area of the State.

Seasonwise estimated area under ratio method is given in Table - 17

Table - 17
Seasonwise Estimated and Reconciled area under Sunflower crop

| Season | Estimated <br> area as per <br> Ratio Method | Reconciled area in hectares <br> (as per Crop <br> survey) | \% variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 74107 | 76541 | -3.2 |
| Rabi | 42280 | 43252 | -2.2 |
| Summer | 2907 | 3540 | -17.9 |
| Total | $\mathbf{1 1 9 2 9 4}$ | $\mathbf{1 2 3 3 3 3}$ | $\mathbf{- 3 . 3}$ |

It is seen from the above table that, the area estimated under ratio method was lower side when compared with reconciled area. Comparative information showing the season wise and variety wise estimates of area irrigated and high yielding variety by ratio method and reconciled area are given in Table - 18 .

$$
\text { Table - } 18
$$

## Season and Varietywise area Estimated under Ratio method and reconciled area under Sunflower crop

Area in hectares

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  |  | Reconciled area (as per Crop survey) | $\%$ <br> variation <br> over <br> Reconciled <br> area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 0 | 0 | 0 | 0 | 0 | 0.0 |
|  | Unirrigated | 0 | 0 | 0 | 0 | 0 | 0.0 |
|  | Total | 0 | 0 | 0 | 0 | 0 | 0.0 |
| High Yielding | Irrigated | 16603 | 24556 | 2907 | 44066 | 48407 | -9.0 |
|  | Unirrigated | 57504 | 17724 | 0 | 75228 | 74926 | 0.4 |
|  | Total | 74107 | 42280 | 2907 | 119294 | 123333 | -3.3 |
| Total | Irrigated | 16603 | 24556 | 2907 | 44066 | 48407 | -9.0 |
|  | Unirrigated | 57504 | 17724 | 0 | 75228 | 74926 | 0.4 |
|  | Total | 74107 | 42280 | 2907 | 119294 | 123333 | -3.3 |

## Varietywise and Sourcewise Estimated Area (Ratio Method) and Reconciled area under Sunflower Crop (in hectares)



It is clear from the above table that, in the ratio method the estimated area under hybrid variety was lower when compared to the reconciled area. The percentage variation of area estimated under ratio method over reconciled area was -3.3 . The entire area under the crop was high yield variety. Districtwise details are given in Appendix -2.7.

### 2.11 Sesamum

Sesamum crop is grown in 0.22 lakh hectares, mainly in rain fed areas during kharif season only. It is largely grown in Koppala 0.07 lakh hectares, Kulburgi 0.04 lakh hectares and Mysuru 0.02 lakh hectares. Percentage variation of estimated area under ratio method over reconciled area was lower to the extent of $6.6 \%$. The entire area under the crop was grown as high yield variety. Estimated area under Sesamum, is given in Table-19. Districtwise area details are given in Appendix -2.8

### 2.12 Safflower

Safflower is an important oilseed crop grown about 0.27 lakh hectares of area in Rabi season during 2020-21. It is largely grown in Bidar district ( 0.08 lakh hectares) followed by Dharwad ( 0.07 lakh hectares) and Gadaga ( 0.04 lakh hectares). Estimated area by ratio method was lower to the extent of $8.1 \%$ when compared to reconciled area. The entire area under the crop was grown as high yield variety. Estimated area under Safflower is given in Table-19. Districtwise area details are given in Appendix - 2.8.

### 2.13 Linseed

Linseed is another oilseed crop grown in the State during Rabi season only. Out of 212 hectares of area about $38 \%$ of area was sown in Belagavi and Chitradurga districts. Estimated area by ratio method was lower to the extent of $38.2 \%$ when compared with reconciled area. Estimated area under Linseed is given in Table-19. District wise area sown details are given in Appendix - 2.8.

Estimated area for oilseed crops under ratio method and reconciled area is given in Table-19 and also graphically presented below.

Table - 19
Estimated area (Ratio Method) and Reconciled area (as per crop survey) Under Oilseed Crops

| Crop Name | Estimated area as <br> per Ratio Method | Reconciled area (as <br> per Crop survey) | \% variation <br> over Reconciled <br> area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Groundnut | 584512 | 588907 | -0.7 |
| Sunflower | 119294 | 123333 | -3.3 |
| Sesamum | 20705 | 22161 | -6.6 |
| Safflower | 24624 | 26795 | -8.1 |
| Linseed | 131 | 212 | -38.2 |

Estimated (Ratio Method) and Reconciled area under Oilseed Crops (in hectares)


### 2.14 Cotton

Cotton is an important cash crop largely grown in Dharwad, Gadaga, Yadgir and Kulburgi districts. 0.17 lakh hectares of area was covered under the crop during 2020-21. The variation of estimated area over reconciled area as per ratio method was $-8.4 \%$. Variety wise and irrigated/unirrigated details are given in Table-20. The district wise area details are given in Appendix-2.9.

Table - 20
Varietywise Estimated and Reconciled area under Cotton crop

| Variety | Irrigated/ <br> Unirrigated | Estimated area as per Ratio Method | Reconciled area (as per Crop survey) | \% variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| Traditional (Local) | Irrigated | 149 | 166 | -10.2 |
|  | Unirrigated | 3407 | 4323 | -21.2 |
|  | Total | 3556 | 4489 | -20.8 |
| High <br> Yielding | Irrigated | 3129 | 3758 | -16.7 |
|  | Unirrigated | 8592 | 8426 | 2.0 |
|  | Total | 11721 | 12184 | -3.8 |
| Total | Irrigated | 3278 | 3924 | -16.5 |
|  | Unirrigated | 11999 | 12749 | -5.9 |
|  | Total | 15277 | 16673 | -8.4 |

### 2.15 Sugarcane

Sugarcane is an irrigated crop, which is grown in all the seasons. Out of 2.6 lakh hectares of area under the crop, $52 \%$ of cropped area is found in Belagavi district alone followed by, Bagalakote (22\%), Vijayapura (10\%) and Mandya (3\%) districts. Estimated area by Ratio method was lower to the extent of $1.5 \%$ when compared to reconciled area. Variety wise and irrigated/unirrigated details are given in Table-21. District wise details of estimates are given in Appendix - 2.9.

Table - 21
Varietywise Estimated and Reconciled area under Sugarcane crop

| Variety | Irrigated/ <br> Unirrigated | Estimated <br> area as per <br> Ratio Method | Reconciled <br> area (as per <br> Crop survey) | \% variation <br> over <br> Reconciled <br> area |
| :--- | :--- | :---: | :---: | :---: |
|  | 2 | 3 | 4 | 5 |
|  | Irrigated | 189973 | 189888 | 0.0 |
|  | Unirrigated | 0 | 8 | -100.0 |
|  | Total | $\mathbf{1 8 9 9 7 3}$ | $\mathbf{1 8 9 8 9 6}$ | $\mathbf{0 . 0}$ |
| High <br> Yielding | Irrigated | 68393 | 72369 | -5.5 |
|  | Unirrigated | 191 | 230 | -17.0 |
|  | Total | $\mathbf{6 8 5 8 4}$ | $\mathbf{7 2 5 9 9}$ | $\mathbf{- 5 . 5}$ |
| Total | Irrigated | 258366 | 262257 | -1.5 |
|  | Unirrigated | 191 | 238 | -19.7 |
|  | Total | $\mathbf{2 5 8 5 5 7}$ | $\mathbf{2 6 2 4 9 5}$ | $\mathbf{- 1 . 5}$ |

Area estimated under Ratio method and reconciled area under Cotton and Sugarcane crops is given in Table-22

Table-22
Estimated and Reconciled area under Cotton and Sugarcane crops

| Crop | Estimated area as <br> per Ratio Method | Reconciled area in hectares <br> (as per Crop <br> survey) | \% variation over <br> Reconciled area |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Cotton | 15277 | 16673 | -8.4 |
| Sugarcane | 258557 | 262495 | -1.5 |

Graphical representation of estimated area under ratio method and reconciled area under cotton and Sugarcane crops are presented below.

## Estimated (Ratio Method) and Reconciled Area under Cotton and Sugarcane Crops (in hectares)




## 3. SUMMARY OF THE FINDINGS:

3.1 The area estimated under ratio method on the basis of the $20 \%$ of villages selected is almost nearer to the reconciled area figures, which helps to frame some important agriculture policies at national and state level.
3.2 The Timely Reporting Scheme was implemented in 5712 villages of the State during 2020-21, which belong to the fifth set of villages selected under the scheme for the years 2016-17 to 2020-21.
3.3 During the year the crop abstracts were received from $100 \%$ of villages in respect of Kharif, $99 \%$ of villages in Rabi and $95 \%$ of villages in Summer season.
3.4 During the year 2020-21 percentage of supervision by Statistics, Agriculture and Horticulture/Revenue Departments personnel was $97.47 \%, 98.22 \%$ and $97.58 \%$ respectively.
3.5 The estimated area under ratio method was high in respect of Wheat crop and was low in case of Paddy, Jowar, Ragi, Bajra, Maize, Tur, Groundnut, Sesamum, Sunflower, Bengal gram, Cotton, Sugarcane, Safflower and Linseed crops when compared to the reconciled area.

## APPENDIX - 1

Districtwise \& Seasonwise receipt position of village crop abstracts during 2020-21

| SI. <br> No. | Districts | No. of villages selected | Kharif * |  | Rabi ** |  | Summer *** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. of villages from which crop abstracts received | Percentage | No. of villages from which crop abstracts received | Percentage | No. of villages from which crop abstracts received | Percentage |
| 1 | Bagalkote | 118 | 118 | 100 | 118 | 100 | 118 | 100 |
| 2 | Bengaluru Rural | 211 | 211 | 100 | 211 | 100 | 211 | 100 |
| 3 | Bengaluru Urban | 105 | 105 | 100 | 100 | 95 | 100 | 95 |
| 4 | Belagavi | 229 | 228 | 100 | 227 | 99 | 187 | 82 |
| 5 | Ballari | 122 | 122 | 100 | 122 | 100 | 122 | 100 |
| 6 | Bidar | 124 | 124 | 100 | 124 | 100 | 124 | 100 |
| 7 | Chamarajanagara | 91 | 91 | 100 | 91 | 100 | 13 | 14 |
| 8 | Chikkaballapura | 300 | 300 | 100 | 300 | 100 | 300 | 100 |
| 9 | Chikakmagaluru | 220 | 218 | 99 | 219 | 100 | 220 | 100 |
| 10 | Chitradurga | 207 | 207 | 100 | 205 | 99 | 207 | 100 |
| 11 | Dakshina Kannada | 69 | 69 | 100 | 69 | 100 | 69 | 100 |
| 12 | Davanagere | 164 | 164 | 100 | 163 | 99 | 108 | 66 |
| 13 | Dharwad | 76 | 76 | 100 | 75 | 99 | 76 | 100 |
| 14 | Gadaga | 64 | 64 | 100 | 64 | 100 | 64 | 100 |
| 15 | Hasana | 509 | 509 | 100 | 508 | 100 | 507 | 100 |
| 16 | Haveri | 133 | 133 | 100 | 133 | 100 | 133 | 100 |
| 17 | Kalaburgi | 181 | 180 | 99 | 181 | 100 | 177 | 98 |
| 18 | Kodagu | 54 | 54 | 100 | 0 | 0 | 54 | 100 |
| 19 | Kolara | 351 | 351 | 100 | 351 | 100 | 333 | 95 |
| 20 | Koppala | 124 | 124 | 100 | 124 | 100 | 116 | 94 |
| 21 | Mandya | 295 | 295 | 100 | 294 | 100 | 295 | 100 |
| 22 | Mysuru | 257 | 257 | 100 | 257 | 100 | 257 | 100 |
| 23 | Raichuru | 175 | 173 | 99 | 175 | 100 | 173 | 99 |
| 24 | Ramanagara | 155 | 155 | 100 | 155 | 100 | 155 | 100 |
| 25 | Shivamogga | 311 | 311 | 100 | 311 | 100 | 306 | 98 |
| 26 | Tumakuru | 537 | 537 | 100 | 537 | 100 | 537 | 100 |
| 27 | Udupi | 53 | 53 | 100 | 53 | 100 | 53 | 100 |
| 28 | Uttara Kannada | 250 | 250 | 100 | 250 | 100 | 250 | 100 |
| 29 | Vijayapura | 127 | 127 | 100 | 127 | 100 | 78 | 61 |
| 30 | Yadagiri | 100 | 100 | 100 | 100 | 100 | 81 | 81 |
|  | STATE TOTAL | 5712 | 5706 | 100 | 5644 | 99 | 5424 | 95 |

Note: Crop Abstracts not received due to

* 6 Villages - Mapping issue/Sub merged due to flooding/Technical issues/Village under wildlife area.
** 68 Villages - Mapping issue/Sub merged due to flooding/Technical issues/zero extent/Village under wildlife area.
*** 288 Villages - Mapping issue/Zero Extent/Forest/Wild area.

APPENDIX - 2.1
Districtwise and Seasonwise Estimated Area under Ratio method and Reconciled Area for the year 2020-21
Crop: Paddy
Area: in hectares

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 64 | 58 | 37 | 44 | 0 | 2 | 101 | 104 |
| 2 | Ballari | 110370 | 109291 | 2726 | 2840 | 68184 | 69971 | 181280 | 182102 |
| 3 | Belgavi | 59727 | 61531 | 288 | 283 | 27 | 156 | 60042 | 61970 |
| 4 | Bengaluru Rural | 133 | 207 | 4 | 7 | 34 | 42 | 171 | 256 |
| 5 | Bengaluru Urban | 279 | 242 | 1 | 1 | 30 | 7 | 310 | 250 |
| 6 | Bidar | 1026 | 989 | 263 | 260 | 0 | 0 | 1289 | 1249 |
| 7 | Chamarajanagara | 10683 | 10931 | 264 | 339 | 1281 | 1226 | 12228 | 12496 |
| 8 | Chikkaballapur | 1952 | 2100 | 971 | 918 | 555 | 692 | 3478 | 3710 |
| 9 | Chikkamagalur | 12637 | 13834 | 0 | 0 | 694 | 494 | 13331 | 14328 |
| 10 | Chitradurga | 1340 | 1252 | 224 | 282 | 517 | 287 | 2081 | 1821 |
| 11 | Dakshina Kannada | 7434 | 7039 | 1101 | 1233 | 0 | 18 | 8535 | 8290 |
| 12 | Davanagere | 0 | 68111 | 388 | 488 | 58786 | 60027 | 59174 | 128626 |
| 13 | Dharwad | 11145 | 12540 | 46 | 93 | 0 | 0 | 11191 | 12633 |
| 14 | Gadag | 3055 | 3356 | 17 | 30 | 2513 | 2680 | 5585 | 6066 |
| 15 | Hassan | 40906 | 39758 | 0 | 17 | 866 | 620 | 41772 | 40395 |
| 16 | Haveri | 32159 | 34404 | 251 | 365 | 9193 | 9496 | 41603 | 44265 |
| 17 | Kalaburagi | 8732 | 8690 | 5557 | 5234 | 1595 | 1726 | 15884 | 15650 |
| 18 | Kodagu | 12372 | 21764 | 0 | 0 | 0 | 6 | 12372 | 21770 |
| 19 | Kolar | 3756 | 3907 | 621 | 523 | 570 | 841 | 4947 | 5271 |
| 20 | Koppal | 56719 | 61912 | 1369 | 1247 | 40570 | 40845 | 98658 | 104004 |
| 21 | Mandya | 60267 | 58406 | 376 | 304 | 15274 | 15247 | 75917 | 73957 |
| 22 | Mysuru | 76551 | 78018 | 0 | 0 | 10751 | 10851 | 87302 | 88869 |
| 23 | Raichur | 190437 | 191147 | 10166 | 11365 | 147971 | 150769 | 348574 | 353281 |
| 24 | Ramnagara | 3775 | 3507 | 36 | 32 | 61 | 79 | 3872 | 3618 |
| 25 | Shivamogga | 77333 | 77556 | 122 | 196 | 12170 | 12264 | 89625 | 90016 |
| 26 | Tumakuru | 3656 | 3457 | 0 | 0 | 987 | 624 | 4643 | 4081 |
| 27 | Udupi | 37651 | 36005 | 5062 | 4951 | 42 | 45 | 42755 | 41001 |
| 28 | Uttara Kannada | 29864 | 46484 | 896 | 1036 | 471 | 443 | 31231 | 47963 |
| 29 | Vijaypura | 132 | 141 | 60 | 63 | 0 | 0 | 192 | 204 |
| 30 | Yadgir | 100757 | 102157 | 2258 | 2001 | 41681 | 41886 | 144696 | 146044 |
|  | STATE TOTAL | 954912 | 1058794 | 33104 | 34152 | 414823 | 421344 | 1402839 | 1514290 |

RCA: Reconciled Crop Area

## APPENDIX - 2.2

## Districtwise and Seasonwise estimated area under Ratio method and Reconciled area for the year 2020-21

Crop: Jowar

| Sl. <br> No. | Districts | Kharif |  | Rabi |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 1448 | 1623 | 62055 | 61235 | 63503 | 62858 |
| 2 | Ballari | 11336 | 11494 | 10765 | 13312 | 22101 | 24806 |
| 3 | Belgavi | 10559 | 11022 | 139722 | 138974 | 150281 | 149996 |
| 4 | Bengaluru Rural | 3000 | 3907 | 188 | 308 | 3188 | 4215 |
| 5 | Bengaluru Urban | 1348 | 1114 | 0 | 11 | 1348 | 1125 |
| 6 | Bidar | 7569 | 7775 | 30644 | 31769 | 38213 | 39544 |
| 7 | Chamarajanagara | 10328 | 10287 | 45 | 56 | 10373 | 10343 |
| 8 | Chikkaballapur | 4570 | 4822 | 170 | 258 | 4740 | 5080 |
| 9 | Chikkamagalur | 14 | 50 | 1749 | 2836 | 1763 | 2886 |
| 10 | Chitradurga | 4875 | 4599 | 4143 | 4154 | 9018 | 8753 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 888 | 815 | 2465 | 3145 | 3353 | 3960 |
| 13 | Dharwad | 593 | 610 | 42881 | 43447 | 43474 | 44057 |
| 14 | Gadag | 803 | 1110 | 51841 | 55549 | 52644 | 56659 |
| 15 | Hassan | 4414 | 5323 | 136 | 158 | 4550 | 5481 |
| 16 | Haveri | 263 | 334 | 76793 | 76709 | 77056 | 77043 |
| 17 | Kalaburagi | 749 | 772 | 81289 | 78507 | 82038 | 79279 |
| 18 | Kodagu | 1 | 0 | 0 | 0 | 1 | 0 |
| 19 | Kolar | 2351 | 2165 | 188 | 274 | 2539 | 2439 |
| 20 | Koppal | 2114 | 2208 | 23018 | 26275 | 25132 | 28483 |
| 21 | Mandya | 0 | 0 | 6 | 9 | 6 | 9 |
| 22 | Mysuru | 4242 | 4953 | 168 | 116 | 4410 | 5069 |
| 23 | Raichur | 3134 | 3210 | 42148 | 49046 | 45282 | 52256 |
| 24 | Ramnagara | 1657 | 1572 | 235 | 341 | 1892 | 1913 |
| 25 | Shivamogga | 25 | 66 | 367 | 383 | 392 | 449 |
| 26 | Tumakuru | 10372 | 9602 | 435 | 455 | 10807 | 10057 |
| 27 | Udupi | 0 | 3 | 0 | 0 | 0 | 3 |
| 28 | Uttara Kannada | 23 | 32 | 56 | 53 | 79 | 85 |
| 29 | Vijaypura | 0 | 19 | 51345 | 51473 | 51345 | 51492 |
| 30 | Yadgir | 220 | 193 | 21115 | 21139 | 21335 | 21332 |
|  | STATE TOTAL | 86896 | 89680 | 643967 | 659992 | 730863 | 749672 |

RCA: Reconciled Crop Area

## APPENDIX - 2.3

## Districtwise and Seasonwise Estimated area under Ratio method and Reconciled area for the year 2020-21

Crop: Ragi
Area: in hectares

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 52 | 60 | 64 | 73 | 0 | 0 | 116 | 133 |
| 2 | Ballari | 11591 | 11052 | 13218 | 12025 | 1361 | 974 | 26170 | 24051 |
| 3 | Belgavi | 1687 | 1604 | 119 | 122 | 0 | 14 | 1806 | 1740 |
| 4 | Bengaluru Rural | 55791 | 56282 | 524 | 790 | 24 | 64 | 56339 | 57136 |
| 5 | Bengaluru Urban | 18611 | 17615 | 146 | 161 | 0 | 3 | 18757 | 17779 |
| 6 | Bidar | 94 | 76 | 0 | 22 | 0 | 0 | 94 | 98 |
| 7 | Chamarajanagara | 8727 | 8911 | 36 | 38 | 128 | 238 | 8891 | 9187 |
| 8 | Chikkaballapur | 40996 | 42754 | 786 | 872 | 295 | 394 | 42077 | 44020 |
| 9 | Chikkamagalur | 49975 | 50990 | 585 | 841 | 0 | 0 | 50560 | 51831 |
| 10 | Chitradurga | 39302 | 38332 | 7922 | 8186 | 1272 | 3376 | 48496 | 49894 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 5498 | 5730 | 5319 | 5153 | 1493 | 1503 | 12310 | 12386 |
| 13 | Dharwad | 25 | 52 | 27 | 35 | 0 | 0 | 52 | 87 |
| 14 | Gadag | 38 | 50 | 8 | 26 | 0 | 0 | 46 | 76 |
| 15 | Hassan | 72510 | 73765 | 4015 | 4590 | 115 | 108 | 76640 | 78463 |
| 16 | Haveri | 157 | 197 | 206 | 261 | 27 | 22 | 390 | 480 |
| 17 | Kalaburagi | 48 | 61 | 62 | 79 | 0 | 39 | 110 | 179 |
| 18 | Kodagu | 24 | 18 | 0 | 0 | 0 | 0 | 24 | 18 |
| 19 | Kolar | 66619 | 66602 | 0 | 0 | 116 | 136 | 66735 | 66738 |
| 20 | Koppal | 38 | 51 | 24 | 27 | 0 | 6 | 62 | 84 |
| 21 | Mandya | 56229 | 56793 | 9939 | 11984 | 3969 | 4138 | 70137 | 72915 |
| 22 | Mysuru | 54253 | 52971 | 22514 | 24113 | 652 | 460 | 77419 | 77544 |
| 23 | Raichur | 62 | 58 | 35 | 38 | 0 | 0 | 97 | 96 |
| 24 | Ramnagara | 68152 | 68388 | 479 | 472 | 599 | 561 | 69230 | 69421 |
| 25 | Shivamogga | 276 | 447 | 0 | 15 | 59 | 100 | 335 | 562 |
| 26 | Tumakuru | 166413 | 165119 | 77 | 80 | 210 | 395 | 166700 | 165594 |
| 27 | Udupi | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 28 | Uttara Kannada | 0 | 3 | 8 | 11 | 0 | 0 | 8 | 14 |
| 29 | Vijaypura | 32 | 58 | 117 | 122 | 0 | 11 | 149 | 191 |
| 30 | Yadgir | 8 | 8 | 0 | 5 | 0 | 3 | 8 | 16 |
|  | STATE TOTAL | 717208 | 718048 | 66230 | 70141 | 10320 | 12545 | 793758 | 800734 |

[^0]APPENDIX - 2.4

## Districtwise and Seasonwise estimated area under Ratio method and Reconciled area for the year 2020-21

Crop: Maize Area: in hectares

| Sl. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 64127 | 62780 | 13886 | 14400 | 3056 | 3736 | 81069 | 80916 |
| 2 | Ballari | 189758 | 191186 | 2200 | 2642 | 481 | 667 | 192439 | 194495 |
| 3 | Belgavi | 162457 | 164785 | 55217 | 52886 | 12697 | 13067 | 230371 | 230738 |
| 4 | Bengaluru Rural | 8476 | 8353 | 232 | 359 | 93 | 91 | 8801 | 8803 |
| 5 | Bengaluru Urban | 848 | 1063 | 25 | 19 | 1 | 4 | 874 | 1086 |
| 6 | Bidar | 984 | 1146 | 380 | 544 | 2 | 9 | 1366 | 1699 |
| 7 | Chamarajanagara | 31613 | 34955 | 2965 | 2956 | 731 | 911 | 35309 | 38822 |
| 8 | Chikkaballapur | 53371 | 54735 | 1432 | 1152 | 327 | 393 | 55130 | 56280 |
| 9 | Chikkamagalur | 18650 | 21266 | 384 | 431 | 0 | 0 | 19034 | 21697 |
| 10 | Chitradurga | 107512 | 112415 | 3544 | 3589 | 1115 | 949 | 112171 | 116953 |
| 11 | Dakshina Kannada | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | Davanagere | 127592 | 136731 | 1739 | 1694 | 2123 | 3720 | 131454 | 142145 |
| 13 | Dharwad | 54386 | 56404 | 8210 | 8195 | 739 | 809 | 63335 | 65408 |
| 14 | Gadag | 75075 | 81901 | 9743 | 10093 | 153 | 191 | 84971 | 92185 |
| 15 | Hassan | 119017 | 121705 | 2555 | 2911 | 416 | 344 | 121988 | 124960 |
| 16 | Haveri | 203718 | 204341 | 18622 | 18205 | 4606 | 5071 | 226946 | 227617 |
| 17 | Kalaburagi | 2760 | 2727 | 480 | 622 | 268 | 311 | 3508 | 3660 |
| 18 | Kodagu | 350 | 371 | 0 | 46 | 0 | 0 | 350 | 417 |
| 19 | Kolar | 1685 | 1741 | 721 | 858 | 311 | 379 | 2717 | 2978 |
| 20 | Koppal | 87406 | 89674 | 4301 | 5207 | 156 | 398 | 91863 | 95279 |
| 21 | Mandya | 4502 | 4666 | 736 | 869 | 638 | 824 | 5876 | 6359 |
| 22 | Mysuru | 42473 | 43564 | 5951 | 6285 | 603 | 766 | 49027 | 50615 |
| 23 | Raichur | 713 | 751 | 710 | 856 | 0 | 6 | 1423 | 1613 |
| 24 | Ramnagara | 3231 | 3252 | 826 | 986 | 524 | 518 | 4581 | 4756 |
| 25 | Shivamogga | 57534 | 57671 | 1746 | 2025 | 6053 | 7182 | 65333 | 66878 |
| 26 | Tumakuru | 37550 | 33791 | 253 | 336 | 127 | 93 | 37930 | 34220 |
| 27 | Udupi | 0 | 2 | 50 | 62 | 0 | 0 | 50 | 64 |
| 28 | Uttara Kannada | 7794 | 8519 | 1332 | 1307 | 213 | 695 | 9339 | 10521 |
| 29 | Vijaypura | 62475 | 63110 | 9607 | 9638 | 10407 | 7954 | 82489 | 80702 |
| 30 | Yadgir | 81 | 78 | 250 | 246 | 25 | 59 | 356 | 383 |
|  | STATE TOTAL | 1526138 | 1563684 | 148097 | 149419 | 45865 | 49147 | 1720100 | 1762250 |

RCA: Reconciled Crop Area

## APPENDIX - 2.5

## Districtwise and Cropwise estimated area under Ratio method and Reconciled area for the year 2020-21

| Sl. <br> No. | Districts | Bajra |  | Wheat |  | Tur |  | Bengalgram |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 37421 | 38143 | 31546 | 31746 | 52441 | 53033 | 43806 | 47244 |
| 2 | Ballari | 15133 | 15698 | 117 | 103 | 14044 | 14185 | 12754 | 14106 |
| 3 | Belgavi | 10515 | 11937 | 69554 | 64990 | 13319 | 14747 | 114368 | 113314 |
| 4 | Bengaluru Rural | 0 | 19 | 0 | 0 | 947 | 1071 | 142 | 139 |
| 5 | Bengaluru Urban | 43 | 36 | 0 | 0 | 775 | 695 | 0 | 1 |
| 6 | Bidar | 432 | 604 | 7710 | 8215 | 141772 | 142503 | 71059 | 68910 |
| 7 | Chamarajanagara | 155 | 151 | 20 | 25 | 375 | 375 | 1803 | 2396 |
| 8 | Chikkaballapur | 164 | 175 | 0 | 2 | 3107 | 3548 | 169 | 331 |
| 9 | Chikkamagalur | 36 | 42 | 0 | 0 | 197 | 273 | 5332 | 6862 |
| 10 | Chitradurga | 1159 | 1928 | 403 | 338 | 4893 | 4982 | 36298 | 37056 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 543 | 442 | 100 | 180 | 431 | 520 | 5372 | 6379 |
| 13 | Dharwad | 0 | 42 | 19690 | 22763 | 138 | 290 | 100167 | 102766 |
| 14 | Gadag | 1546 | 2567 | 14559 | 16594 | 561 | 575 | 120453 | 124927 |
| 15 | Hassan | 0 | 14 | 0 | 0 | 633 | 745 | 1202 | 1253 |
| 16 | Haveri | 23 | 37 | 420 | 377 | 132 | 135 | 3428 | 3686 |
| 17 | Kalaburagi | 1915 | 1842 | 14267 | 12937 | 582364 | 593700 | 41727 | 35802 |
| 18 | Kodagu | 0 | 4 | 0 | 0 | 3 | 2 | 0 | 0 |
| 19 | Kolar | 0 | 134 | 0 | 0 | 1221 | 1258 | 3 | 11 |
| 20 | Koppal | 72679 | 74684 | 1090 | 1184 | 34046 | 34588 | 62899 | 63374 |
| 21 | Mandya | 7 | 10 | 0 | 1 | 667 | 617 | 0 | 4 |
| 22 | Mysuru | 4 | 11 | 0 | 0 | 3241 | 3355 | 251 | 286 |
| 23 | Raichur | 35056 | 34391 | 103 | 127 | 156309 | 156218 | 33953 | 35363 |
| 24 | Ramnagara | 28 | 29 | 0 | 4 | 1633 | 1780 | 0 | 13 |
| 25 | Shivamogga | 0 | 2 | 0 | 1 | 48 | 68 | 0 | 5 |
| 26 | Tumakuru | 221 | 149 | 0 | 0 | 14672 | 14344 | 551 | 552 |
| 27 | Udupi | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 3 | 0 | 0 | 0 | 12 | 0 | 14 |
| 29 | Vijaypura | 28404 | 28119 | 51387 | 46350 | 521656 | 524850 | 58743 | 58145 |
| 30 | Yadgir | 4774 | 4623 | 102 | 130 | 93168 | 95652 | 784 | 632 |
|  | STATE TOTAL | 210258 | 215837 | 211068 | 206067 | 1642793 | 1664122 | 715264 | 723571 |

RCA: Reconciled Crop Area

APPENDIX - 2.6

## Districtwise and Seasonwise estimated area under Ratio method and Reconciled area for the year 2020-21

Crop: Groundnut
Area: in hectares

| SI. <br> No. | Districts | Kharif |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 2632 | 2803 | 24033 | 24200 | 26665 | 27003 |
| 2 | Ballari | 53697 | 53402 | 8607 | 9712 | 62304 | 63114 |
| 3 | Belgavi | 23966 | 24731 | 2830 | 2607 | 26796 | 27338 |
| 4 | Bengaluru Rural | 196 | 227 | 0 | 4 | 196 | 231 |
| 5 | Bengaluru Urban | 48 | 40 | 0 | 0 | 48 | 40 |
| 6 | Bidar | 37 | 84 | 0 | 2 | 37 | 86 |
| 7 | Chamarajanagara | 3217 | 3425 | 0 | 14 | 3217 | 3439 |
| 8 | Chikkaballapur | 35587 | 35259 | 201 | 300 | 35788 | 35559 |
| 9 | Chikkamagalur | 635 | 716 | 0 | 0 | 635 | 716 |
| 10 | Chitradurga | 161544 | 159881 | 3749 | 3967 | 165293 | 163848 |
| 11 | Dakshina Kannada | 0 | 5 | 0 | 0 | 0 | 5 |
| 12 | Davanagere | 9587 | 10670 | 485 | 599 | 10072 | 11269 |
| 13 | Dharwad | 30077 | 29292 | 373 | 321 | 30450 | 29613 |
| 14 | Gadag | 38574 | 39650 | 6144 | 7561 | 44718 | 47211 |
| 15 | Hassan | 0 | 173 | 120 | 198 | 120 | 371 |
| 16 | Haveri | 24765 | 24598 | 6587 | 6372 | 31352 | 30970 |
| 17 | Kalaburagi | 388 | 508 | 195 | 201 | 583 | 709 |
| 18 | Kodagu | 1 | 4 | 0 | 0 | 1 | 4 |
| 19 | Kolar | 11948 | 11600 | 31 | 49 | 11979 | 11649 |
| 20 | Koppal | 11112 | 11244 | 9151 | 9238 | 20263 | 20482 |
| 21 | Mandya | 321 | 442 | 0 | 32 | 321 | 474 |
| 22 | Mysuru | 1415 | 1518 | 0 | 8 | 1415 | 1526 |
| 23 | Raichur | 482 | 585 | 1008 | 1342 | 1490 | 1927 |
| 24 | Ramnagara | 1019 | 970 | 0 | 4 | 1019 | 974 |
| 25 | Shivamogga | 91 | 97 | 166 | 123 | 257 | 220 |
| 26 | Tumakuru | 87633 | 86872 | 1391 | 1054 | 89024 | 87926 |
| 27 | Udupi | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 31 | 31 | 42 | 31 | 73 |
| 29 | Vijaypura | 8491 | 9358 | 10339 | 11073 | 18830 | 20431 |
| 30 | Yadgir | 605 | 589 | 1003 | 1110 | 1608 | 1699 |
|  | STATE TOTAL | 508068 | 508774 | 76444 | 80133 | 584512 | 588907 |

[^1]
## APPENDIX - 2.7

## Districtwise and Seasonwise estimated area under Ratio method and Reconciled area for the year 2020-21

Crop: Sunflower
Area: in hectares

| Sl. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 17400 | 18147 | 1207 | 1205 | 1218 | 1331 | 19825 | 20683 |
| 2 | Ballari | 4781 | 4565 | 1427 | 1747 | 54 | 42 | 6262 | 6354 |
| 3 | Belgavi | 7737 | 8095 | 11518 | 9295 | 42 | 172 | 19297 | 17562 |
| 4 | Bengaluru Rural | 0 | 5 | 0 | 1 | 0 | 3 | 0 | 9 |
| 5 | Bengaluru Urban | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 3 |
| 6 | Bidar | 50 | 68 | 20 | 37 | 0 | 0 | 70 | 105 |
| 7 | Chamarajanagara | 3963 | 4127 | 987 | 1082 | 127 | 277 | 5077 | 5486 |
| 8 | Chikkaballapur | 0 | 4 | 84 | 101 | 30 | 66 | 114 | 171 |
| 9 | Chikkamagalur | 55 | 80 | 0 | 0 | 0 | 0 | 55 | 80 |
| 10 | Chitradurga | 1291 | 1217 | 299 | 356 | 0 | 92 | 1590 | 1665 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 213 | 255 | 319 | 442 | 133 | 98 | 665 | 795 |
| 13 | Dharwad | 34 | 49 | 4094 | 4443 | 0 | 2 | 4128 | 4494 |
| 14 | Gadag | 8980 | 9263 | 9998 | 11683 | 87 | 70 | 19065 | 21016 |
| 15 | Hassan | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 65 |
| 16 | Haveri | 70 | 100 | 8197 | 8521 | 611 | 717 | 8878 | 9338 |
| 17 | Kalaburagi | 4658 | 5053 | 65 | 72 | 0 | 13 | 4723 | 5138 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolar | 0 | 2 | 0 | 9 | 0 | 2 | 0 | 13 |
| 20 | Koppal | 9952 | 9946 | 2206 | 2160 | 154 | 191 | 12312 | 12297 |
| 21 | Mandya | 0 | 7 | 1 | 2 | 0 | 9 | 1 | 18 |
| 22 | Mysuru | 440 | 566 | 0 | 0 | 0 | 1 | 440 | 567 |
| 23 | Raichur | 7603 | 7528 | 214 | 247 | 0 | 1 | 7817 | 7776 |
| 24 | Ramnagara | 5 | 7 | 0 | 0 | 0 | 0 | 5 | 7 |
| 25 | Shivamogga | 0 | 1 | 1098 | 1395 | 245 | 126 | 1343 | 1522 |
| 26 | Tumakuru | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 13 |
| 27 | Udupi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 7 | 10 | 0 | 3 | 7 | 13 |
| 29 | Vijaypura | 6328 | 6787 | 520 | 419 | 206 | 262 | 7054 | 7468 |
| 30 | Yadgir | 545 | 588 | 19 | 25 | 0 | 62 | 564 | 675 |
|  | STATE TOTAL | 74107 | 76541 | 42280 | 43252 | 2907 | 3540 | 119294 | 123333 |

RCA: Reconciled Crop Area

APPENDIX - 2.8
Districtwise and Cropwise Estimated area under Ratio method and Reconciled area for the year 2020-21

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Districts | Sesamum |  | Safflower |  | Linseed |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 790 | 877 | 281 | 408 | 12 | 12 |
| 2 | Ballari | 184 | 202 | 283 | 182 | 0 | 2 |
| 3 | Belgavi | 141 | 146 | 1165 | 1133 | 40 | 46 |
| 4 | Bengaluru Rural | 0 | 2 | 0 | 5 | 0 | 3 |
| 5 | Bengaluru Urban | 3 | 3 | 0 | 0 | 0 | 0 |
| 6 | Bidar | 791 | 934 | 5452 | 7515 | 0 | 3 |
| 7 | Chamarajanagara | 230 | 216 | 0 | 3 | 0 | 2 |
| 8 | Chikkaballapur | 0 | 4 | 0 | 0 | 15 | 12 |
| 9 | Chikkamagalur | 1299 | 1598 | 0 | 1 | 0 | 0 |
| 10 | Chitradurga | 53 | 71 | 1165 | 1070 | 26 | 34 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 8 | 13 | 0 | 16 | 0 | 0 |
| 13 | Dharwad | 4 | 10 | 5310 | 6550 | 0 | 5 |
| 14 | Gadag | 79 | 117 | 4375 | 4149 | 0 | 1 |
| 15 | Hassan | 352 | 287 | 0 | 0 | 0 | 0 |
| 16 | Haveri | 2 | 5 | 459 | 561 | 0 | 9 |
| 17 | Kalaburagi | 4069 | 4386 | 3252 | 2442 | 20 | 24 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolar | 0 | 9 | 0 | 2 | 0 | 1 |
| 20 | Koppal | 6869 | 7261 | 1418 | 1352 | 0 | 29 |
| 21 | Mandya | 1757 | 1570 | 0 | 2 | 0 | 0 |
| 22 | Mysuru | 2478 | 2277 | 0 | 0 | 0 | 0 |
| 23 | Raichur | 1407 | 1899 | 123 | 251 | 0 | 0 |
| 24 | Ramnagara | 15 | 25 | 0 | 0 | 0 | 1 |
| 25 | Shivamogga | 0 | 3 | 0 | 0 | 0 | 1 |
| 26 | Tumakuru | 51 | 68 | 0 | 0 | 0 | 0 |
| 27 | Udupi | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 0 | 0 | 0 | 2 |
| 29 | Vijaypura | 87 | 148 | 1182 | 1016 | 18 | 25 |
| 30 | Yadgir | 36 | 30 | 159 | 137 | 0 | 0 |
|  | STATE TOTAL | 20705 | 22161 | 24624 | 26795 | 131 | 212 |

RCA: Reconciled Crop Area

## APPENDIX - 2.9

Districtwise and Cropwise estimated area under Ratio method and Reconciled area for the year 2020-21

Area: in hectares

| Sl. <br> No. | Districts | Cotton |  | Sugarcane |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA |
| 1 | Bagalkote | 255 | 243 | 57469 | 58078 |
| 2 | Ballari | 1108 | 1118 | 3965 | 4641 |
| 3 | Belgavi | 863 | 1032 | 136962 | 137635 |
| 4 | Bengaluru Rural | 0 | 0 | 0 | 12 |
| 5 | Bengaluru Urban | 0 | 0 | 0 | 2 |
| 6 | Bidar | 10 | 11 | 5111 | 5919 |
| 7 | Chamarajanagara | 207 | 279 | 824 | 863 |
| 8 | Chikkaballapur | 23 | 39 | 14 | 12 |
| 9 | Chikkamagalur | 0 | 3 | 0 | 4 |
| 10 | Chitradurga | 214 | 196 | 11 | 21 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 54 | 49 | 300 | 446 |
| 13 | Dharwad | 3642 | 4191 | 7964 | 8737 |
| 14 | Gadag | 2984 | 3705 | 1924 | 1709 |
| 15 | Hassan | 0 | 6 | 389 | 424 |
| 16 | Haveri | 0 | 0 | 2423 | 3082 |
| 17 | Kalaburagi | 758 | 1237 | 4911 | 4782 |
| 18 | Kodagu | 0 | 0 | 0 | 0 |
| 19 | Kolar | 0 | 6 | 0 | 2 |
| 20 | Koppal | 259 | 256 | 451 | 649 |
| 21 | Mandya | 0 | 0 | 2980 | 2873 |
| 22 | Mysuru | 0 | 0 | 1754 | 2088 |
| 23 | Raichur | 1322 | 1183 | 471 | 478 |
| 24 | Ramnagara | 0 | 0 | 38 | 29 |
| 25 | Shivamogga | 0 | 2 | 10 | 36 |
| 26 | Tumakuru | 0 | 0 | 21 | 20 |
| 27 | Udupi | 0 | 0 | 15 | 19 |
| 28 | Uttara Kannada | 0 | 0 | 3065 | 3289 |
| 29 | Vijaypura | 722 | 791 | 27394 | 26546 |
| 30 | Yadgir | 2856 | 2326 | 91 | 99 |
|  | STATE TOTAL | 15277 | 16673 | 258557 | 262495 |

RCA: Reconciled Crop Area

## APPENDIX - 3

Cropwise percentage variation of estimates of area by ratio method over reconciled area for the year 2019-20 \& 2020-21

| Sl. <br> No. | Crop | \% variation over Reconciled area |  |
| :---: | :---: | :---: | :---: |
|  |  | 2019-20 | 2020-21 |
| I | Kharif |  |  |
| 1 | Paddy | 0.7 | -9.8 |
| 2 | Jowar | 1.9 | -3.1 |
| 3 | Ragi | -1.9 | -0.1 |
| 4 | Bajra | -8.7 | -2.6 |
| 5 | Maize | 0.7 | -2.4 |
| 6 | Tur | -0.2 | -1.3 |
| 7 | Groundnut | 1.4 | -0.1 |
| 8 | Sesamum | -13.9 | -6.6 |
| 9 | Sunflower | 1.6 | -3.2 |
| II | Rabi |  |  |
| 1 | Paddy | -2.7 | -3.1 |
| 2 | Jowar | -1.6 | -2.4 |
| 3 | Ragi | -3.9 | -5.6 |
| 4 | Wheat | -12.4 | 2.4 |
| 5 | Maize | -9.1 | -0.9 |
| 6 | Bengal gram | 2.5 | -1.1 |
| 7 | Cotton | -6.8 | -8.4 |
| 8 | Sugarcane | -17.0 | -1.5 |
| 9 | Sunflower | 12.0 | -2.2 |
| 10 | Safflower | -28.2 | -8.1 |
| 11 | Linseed | -55.4 | -38.2 |
| III | Summer |  |  |
| 1 | Paddy | -0.2 | -1.5 |
| 2 | Maize | -2.5 | -6.7 |
| 3 | Ragi | -2.3 | -17.7 |
| 4 | Groundnut (Rabi \& Summer) | -1.2 | -4.6 |
| 5 | Sunflower | -6.1 | -17.9 |


[^0]:    RCA: Reconciled Crop Area

[^1]:    RCA: Reconciled Crop Area

