## REPORT ON ESTIMATES OF AREA OF PRINCIPAL CROPS UNDER TIMELY REPORTING SCHEME IN KARNATAKA 2022-23



DIRECTORATE OFECONOMICS AND STAHSTICS:


## Government of Karnataka

# REPORT ON ESTIMATES OF <br> AREA OF PRINCIPAL CROPS UNDER TIMELY REPORTING SCHEME <br> IN KARNATAKA 

## 2022-23

## 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. District wise area under selected principal crops has been estimated based on the data from sample villages for all the three seasons during 2022-23 which constitute 20 percent of total villages. This report is based on the second set of $20 \%$ villages selected among the five sets of villages commencing from 2021-22 to 2025-26 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

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

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## 1. TIMELY REPORTING OF ESTIMATES OF AREA OF PRINCIPAL CROPS IN KARNATAKA 2022-23

### 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 2022 to $31^{\text {st }}$ March 2023 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 crops 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 6. Tur 7. Groundnut 8. Sesamum 9. Sunflower
b) Rabi:

1. Paddy 2. Jowar 3. Maize
2. Ragi 5. Wheat
3. Cotton 7. Gram
4. Sugarcane 9. Sunflower 10. Safflower 11. Linseed
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:

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Agricultural Season | Sowing period | Crop Enumeration Period |
| :---: | :---: | :---: | :---: |
| 1 | Kharif <br> Early <br> Late | $\begin{gathered} 1^{\text {st }} \text { April } 2022 \\ \text { to } \\ 30^{\text {th }} \text { June } 2022 \end{gathered}$ | $\begin{gathered} 1^{\text {st }} \text { July } 2022 \\ \text { to } \\ 31^{\text {st }} \text { July } 2022 \end{gathered}$ |
|  |  | $\begin{gathered} 1^{\text {st }} \text { July } 2022 \\ \text { to } \\ 31^{\text {st }} \text { August } 2022 \end{gathered}$ | $\begin{gathered} 1^{\text {st }} \text { September } 2022 \\ \text { to } \\ 30^{\text {th }} \text { September } 2022 \end{gathered}$ |
| 2 | Rabi | $1{ }^{\text {st }}$ September 2022 to <br> $31^{\text {st }}$ December 2022 | $1^{\text {st }}$ January 2023 <br> to <br> $31^{\text {st }}$ January 2023 |
| 3 | Summer | $1^{\text {st }}$ January 2023 <br> to <br> $31^{\text {st }}$ March 2023 | $\begin{gathered} 1^{\text {st }} \text { April } 2023 \\ \text { to } \\ 30^{\text {th }} \text { April } 2023 \end{gathered}$ |

### 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 2021-22, $20 \%$ of villages are selected every year under the scheme, so that $100 \%$ villages are covered in five years i.e. by 2025-26. This report is based on the data collected from the second set of villages selected for the year 2022-23.

### 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 (During 2022-23 field work was conducted by Private Resident under Crop Survey through Mobile App).
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 Application based Crop Survey was started and conducted only during kharif season. From 2019-20 onwards crop survey was conducted in all the 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, 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 5880 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.

$$
\text { Table - } 1
$$

Season wise receipt position of Crop Abstracts

| Sl. <br> No. | Particulars | Kharif | Rabi | Summer |
| :---: | :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| 1. | No. of Villages selected | 5880 | 5880 | 5880 |
| 2. | No. of Villages from which <br> crop abstracts received | 5880 | 5880 | 5880 |
| 3. | Percentage response | 100 | 100 | 100 |

### 1.9 Supervision

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

Table-2
Number of villages Supervised

| Sl. <br> No. | Agency | 2022-23 - No. of villages <br> (Kharif + Rabi + Summer) |  | Percentage of <br> supervision |  |
| :---: | :--- | :---: | :---: | :---: | :---: |
|  |  | Allotted | Supervised | $\mathbf{2 0 2 2 - 2 3}$ | $\mathbf{2 0 2 1 - 2 2}$ |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Statistics | 11362 | 11179 | 98.39 | 98.51 |
| 2 | Agriculture | 1176 | 1172 | 99.66 | 97.25 |
| 3 | Horticulture | 1601 | 1592 | 99.44 | 97.76 |

### 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 $j^{\text {th }}$ village of the $i^{\text {th }}$ taluk in the current year.
3. $\mathrm{X}_{\mathrm{ij}}$ be the area under that crop in the $\mathrm{j}^{\text {th }}$ 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 $i^{\text {th }}$ taluk.
6. $\hat{R} c$ 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

$$
\hat{Y}_{\mathrm{Rc}}=\left[\begin{array}{cc}
\sum_{\mathrm{i}=1}^{\mathrm{k}} & \mathrm{NiY}_{\mathrm{i}}^{-} \\
\sum_{\mathrm{i}=1}^{\mathrm{K}} & \mathrm{NiX}_{\mathrm{i}}^{-}
\end{array}\right] \mathrm{X}
$$

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 13.6 lakh hectares of area during 2022-23. The area covered under the crop was more in Raichur followed by Ballari, Yadagiri, Davanagere and Koppala districts. About $71.2 \%$ of the area under the crop was covered in Kharif season alone.

Season wise estimates of area as per Ratio Method along with reconciled area under paddy are given below in Table-3.

Table - 3
Season wise Estimated and Reconciled area under Paddy crop
Area in hectares

| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
|  | 2 | 3 | 4 |
| Kharif | 1046583 | 964922 | 8.5 |
| Rabi | 92945 | 94139 | -1.3 |
| Summer | 213128 | 296365 | -28.1 |
| Total | $\mathbf{1 3 5 2 6 5 6}$ | $\mathbf{1 3 5 5 4 2 6}$ | $\mathbf{- 0 . 2}$ |

Compared to reconciled area, the estimated area of Paddy under ratio method was lower. During kharif season, the percentage of variation over reconciled area was higher.

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

## Table-4

Season wise and Variety wise area Estimated by Ratio method under Paddy crop

|  |  | Estimated area as per Ratio Method |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Variety | Irrigated/ Unirrigated |  |  |  |  | Reconciled area (as per Crop survey) | Percentage of variation over Reconciled area |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 1506 | 198 | 4 | 1708 | 5121 | -66.6 |
|  | Unirrigated | 39642 | 120 | 0 | 39762 | 59721 | -33.4 |
|  | Total | 41148 | 318 | 4 | 41470 | 64842 | -36.0 |
| High Yielding | Irrigated | 667679 | 92627 | 213124 | 973430 | 1137220 | -14.4 |
|  | Unirrigated | 337756 | 0 | 0 | 337756 | 153365 | 120.2 |
|  | Total | 1005435 | 92627 | 213124 | 1311186 | 1290584 | 1.6 |
| Total | Irrigated | 669185 | 92825 | 213128 | 975138 | 1142341 | -14.6 |
|  | Unirrigated | 377398 | 120 | 0 | 377518 | 213085 | 77.2 |
|  | Total | 1046583 | 92945 | 213128 | 1352656 | 1355426 | -0.2 |

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


As per the reconciled area, the irrigated area under paddy crop was $84.28 \%$ and unirrigated was $15.72 \%$ whereas, under ratio method it was $72.09 \%$ and $27.91 \%$ respectively. In case of traditional and high yielding varieties, the percentage of area under reconciled area was 5\% and $95 \%$ as against the estimated area was $3 \%$ and $97 \%$ respectively. The percentage variation of estimated area under ratio method over reconciled area was -14.6 under irrigated category, 77.2 under unirrigated category and -0.2 to the total during 2022-23. District wise details are given in Appendix-2.1.

### 2.2 Jowar

Jowar is another important cereal crop with 5.6 lakh hectares of area in the State of which, $89 \%$ of area was cultivated during Rabi season alone. Belagavi stands first in the area coverage i.e., $19.3 \%$ followed by, Kalaburagi (10.4\%), Raichur (9.5\%) and Haveri $(9.1 \%)$. Season wise information is given in Table-5.

$$
\text { Table - } 5
$$

## Season wise Estimated and Reconciled area under Jowar crop

Area in hectares

| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| Kharif | 65266 | 63684 | 2.5 |
| Rabi | 450758 | 498878 | -9.6 |
| Total | $\mathbf{5 1 6 0 2 4}$ | $\mathbf{5 6 2 5 6 2}$ | $\mathbf{- 8 . 3}$ |

From the above table, the variation of area under ratio method compared to reconciled area was $2.5 \%$ and $-9.6 \%$ 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 wise and Variety wise area Estimated by Ratio method and Reconciled area under Jowar crop

Area in hectares

| Variety | Irrigated/ <br> Unirrigated | Estimated area as per Ratio Method |  |  | Reconciled area (as per Crop survey) | Percentage of variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Rabi | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Traditional (Local) | Irrigated | 165 | 4765 | 4930 | 6255 | -21.2 |
|  | Unirrigated | 9287 | 71722 | 81009 | 126942 | -36.2 |
|  | Total | 9452 | 76487 | 85939 | 133197 | -35.5 |
| High Yielding | Irrigated | 18864 | 86637 | 105501 | 107988 | -2.3 |
|  | Unirrigated | 36950 | 287634 | 324584 | 321376 | 1.0 |
|  | Total | 55814 | 374271 | 430085 | 429365 | 0.2 |
| Total | Irrigated | 19029 | 91402 | 110431 | 114244 | -3.3 |
|  | Unirrigated | 46237 | 359356 | 405593 | 448318 | -9.5 |
|  | Total | 65266 | 450758 | 516024 | 562562 | -8.3 |

Out of total estimated jowar area $17 \%$ was under traditional variety and the remaining $83 \%$ was under high yield variety, as against $24 \%$ and $76 \%$ of reconciled area respectively. District wise details are given in Appendix - 2.2.

Variety wise and Source wise 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 8.3 lakh hectares of area during 2022-23. The major Ragi growing districts are Tumakuru (18.2\%), Hassan (13.3\%), Mysuru (12.5\%), Mandya (8.3\%) and Bengaluru Rural (7.5\%) which account for $59.8 \%$ of the total Ragi area of the State. About $84.6 \%$ of the area was covered under kharif season itself. Season wise area estimated as per ratio method is given in Table-7.

$$
\text { Table - } 7
$$

Season wise Estimated and Reconciled area under Ragi crop

|  |  | Area in hectares |  |
| :---: | :---: | :---: | :---: |
| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| 1 | 2 | 3 | 4 |
| Kharif | 665353 | 702338 | -5.3 |
| Rabi | 107360 | 117987 | -9.0 |
| Summer | 6061 | 9395 | -35.5 |
| Total | $\mathbf{7 7 8 7 7 4}$ | $\mathbf{8 2 9 7 2 0}$ | -6.1 |

The percentage variation of area estimated by ratio method over reconciled area was -6.1. Estimated area under Ratio method was lower in all the three seasons. Table-8 depicts estimated area by status of irrigation.

Table - 8
Season wise and Variety wise 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) | Percentage <br> of <br> variation <br> over <br> Reconciled <br> area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 3 | 2375 | 0 | 2378 | 3745 | -36.5 |
|  | Unirrigated | 21998 | 2505 | 0 | 24503 | 23942 | 2.3 |
|  | Total | 22001 | 4880 | 0 | 26881 | 27687 | -2.9 |
| High <br> Yielding | Irrigated | 20878 | 50388 | 6061 | 77327 | 93054 | -16.9 |
|  | Unirrigated | 622474 | 52092 | 0 | 674566 | 708978 | -4.9 |
|  | Total | 643352 | 102480 | 6061 | 751893 | 802032 | -6.3 |
| Total | Irrigated | 20881 | 52763 | 6061 | 79705 | 96799 | -17.7 |
|  | Unirrigated | 644472 | 54597 | 0 | 699069 | 732920 | -4.6 |
|  | Total | 665353 | 107360 | 6061 | 778774 | 829720 | -6.1 |

Variety wise and Source wise Estimated Area (Ratio Method) and Reconciled area under Ragi Crop (in hectares)


802032 hectares ( $96.7 \%$ ) of reconciled area was covered by high yielding variety. Out of total estimated area, $96.5 \%$ area was covered by High Yielding variety and remaining under traditional variety. Estimated area was lower under both traditional and high yielding variety when compared to reconciled area. The area estimated under ratio method in case of irrigated area was lower when compared to reconciled area. District wise details are given in Appendix- 2.3

### 2.4 Maize

Maize is yet another cereal crop grown in more than 19.5 lakh hectares in the State. Maize growing major districts are Haveri (17\%), Vijayanagara (11\%) and Belagavi ( $10 \%$ ). $81 \%$ of the area was covered under kharif season alone. Season wise estimated area as per ratio method is given in Table - 9

Table - 9

## Season wise Estimated area and Reconciled area under Maize crop

|  | Area in hectares |  |  |
| :--- | :---: | :---: | :---: |
| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop survey) | Percentage of <br> variation over <br> Reconciled area |
| 1 | 2 | 3 | 4 |
| Kharif | 1526727 | 1577716 | -3.2 |
| Rabi | 287136 | 299449 | -4.1 |
| Summer | 63467 | 72770 | -12.8 |
| Total | 1877330 | 1949935 | -3.7 |

The Percentage variation of estimated area under ratio method over reconciled area was -3.2 in Kharif, -4.1 in Rabi and -12.8 in Summer season. The total estimated area was lower under ratio method when compared to the reconciled area.

Estimated area by season wise, variety wise and source wise as per ratio method and the reconciled area are given in Table - 10 .

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

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  |  | Reconciled area (as per Crop survey) | Percentage of variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Kharif | Rabi | Summer | Total |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Traditional (Local) | Irrigated | 1348 | 2064 | 1553 | 4965 | 5424 | -8.5 |
|  | Unirrigated | 2676 | 0 | 0 | 2676 | 5034 | -46.8 |
|  | Total | 4024 | 2064 | 1553 | 7641 | 10458 | -26.9 |
| High Yielding | Irrigated | 401245 | 260713 | 61658 | 723616 | 735071 | -1.6 |
|  | Unirrigated | 1121458 | 24359 | 256 | 1146073 | 1204406 | -4.8 |
|  | Total | 1522703 | 285072 | 61914 | 1869689 | 1939478 | -3.6 |
| Total | Irrigated | 402593 | 262777 | 63211 | 728581 | 740495 | -1.6 |
|  | Unirrigated | 1124134 | 24359 | 256 | 1148749 | 1209440 | -5.0 |
|  | Total | 1526727 | 287136 | 63467 | 1877330 | 1949935 | -3.7 |

Variety wise 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 $38.8 \%$ out of which, $99.3 \%$ of area sown with high yielding variety. As per reconciled area, $38 \%$ of area was irrigated of which, the area sown with high yielding variety was $99.3 \%$. The percentage variation of estimated irrigated and unirrigated area by ratio method over reconciled area was -1.6 and -5.0 respectively. District wise details are given in Appendix-2.4

### 2.5 Bajra

Bajra crop was grown in 1.2 lakh hectares in the State during the year. It is largely grown in Koppala (33.3\%), Raichur (18.5\%), Vijayapura (16.3\%) and Bagalakote ( $12.5 \%$ ) districts in the State. These 4 districts contribute $80.6 \%$ of the total cropped area of the Bajra crop in the State. Total area estimated under the crop by ratio method was lower when compared to the reconciled area. $2 \%$ of area estimated had traditional variety and the remaining $98 \%$ of the area was sown with high yielding variety as per ratio estimates whereas, under reconciled area only $1 \%$ area was covered under traditional variety and remaining $99 \%$ area was covered under high yielding variety. Estimated area of Bajra crop by variety wise and source wise by ratio method and reconciled area are given in Table-11.

Table - 11

## Variety wise Estimated area and Reconciled area under Bajra crop

| Variety | Irrigated/ <br> Unirrigated | Estimated area <br> as per Ratio <br> Method | Reconciled <br> area (as per <br> Crop survey) | Percentage of <br> variation over <br> Reconciled area |  |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Traditional <br> (Local) |  |  |  |  | Irrigated | 0 | 4 | 5 |
|  | Unirrigated | 2489 | 2 | -100.0 |  |  |  |  |  |
|  | Total | $\mathbf{2 4 8 9}$ | 729 | 241.6 |  |  |  |  |  |
| High Yielding | Irrigated | 14163 | 16595 | $\mathbf{2 4 0 . 5}$ |  |  |  |  |  |
|  | Unirrigated | 95461 | 101183 | -14.7 |  |  |  |  |  |
|  | Total | $\mathbf{1 0 9 6 2 4}$ | $\mathbf{1 1 7 7 7 8}$ | -5.7 |  |  |  |  |  |
| Total | Irrigated | 14163 | 16597 | $-\mathbf{- 6 . 9}$ |  |  |  |  |  |
|  | Unirrigated | 97950 | 101912 | -3.7 |  |  |  |  |  |
|  | Total | $\mathbf{1 1 2 1 1 3}$ | $\mathbf{1 1 8 5 0 9}$ | $\mathbf{- 5 . 4}$ |  |  |  |  |  |

Variety wise and Source wise 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 $-14.7 \%$ under irrigated area and $-3.9 \%$ under unirrigated area when compared to reconciled area. District wise details are given in Appendix-2.5

### 2.6 Wheat

Wheat crop is grown only in Rabi season nearly in 1.3 lakh hectares. About 47950 hectares of area is covered by Belagavi district ( $38.2 \%$ ) followed by, Vijayapura ( $23.9 \%$ ) and Bagalakote ( $17.9 \%$ ). The estimated area under ratio method for this crop was higher when compared to reconciled area. Details are given in Table-12.

Table - 12
Variety wise Estimated area and Reconciled area under Wheat crop
Area in hectares

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method | Reconciled area (as per Crop survey) | Percentage of variation over Reconciled area |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| Traditional (Local) | Irrigated | 2502 | 4380 | -42.9 |
|  | Unirrigated | 18259 | 0 | 0.0 |
|  | Total | 20761 | 4380 | 374.0 |
| High <br> Yielding | Irrigated | 90885 | 97550 | -6.8 |
|  | Unirrigated | 21483 | 23580 | -8.9 |
|  | Total | 112368 | 121130 | -7.2 |
| Total | Irrigated | 93387 | 101930 | -8.4 |
|  | Unirrigated | 39742 | 23580 | 68.5 |
|  | Total | 133129 | 125510 | 6.1 |

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 93387 ( $70 \%$ ) of which, the irrigated area under High Yielding Variety was $97 \%$ and Traditional (Local) was 3\%. Under reconciled area, the area under irrigation was 101930 ( $81 \%$ ) of which, area under High Yielding variety was $96 \%$ and Traditional (Local) was $4 \%$. The estimated area by ratio method was higher to the extent of $6.1 \%$ when compared to the reconciled area. District wise 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.

Table - 13

## Estimated area and Reconciled area under Cereals

| Crop Name | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Paddy | 1352656 | 1355426 | -0.2 |
| Jowar | 516024 | 562562 | -8.3 |
| Ragi | 778774 | 829720 | -6.1 |
| Maize | 1877330 | 1949935 | $-\mathbf{3 . 7}$ |
| Bajra | 112113 | 118509 | -5.4 |
| Wheat | 133129 | 125510 | 6.1 |

## 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 12.4 lakh hectares of area was under this crop during 2022-23 of which, 4.9 lakh hectares grown in Kalaburagi and 3.8 lakh hectares in Vijayapura districts which constitutes $69.2 \%$ 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 $4.5 \%$ when compared to the reconciled area.

### 2.8 Bengal gram

Bengal gram is also an important pulse crop of the State grown in nearly 8.4 lakh hectares in Rabi season. Gadag district is covered with 1.5 lakh hectares, 1.4 lakh hectares in Dharwad district and 1.1 lakh hectares of area in Belagavi district which works out to $48.3 \%$ of the total State area. The estimated area by ratio method was higher to the extent of $1.9 \%$ when compared to the reconciled area.

Details of Estimated area under Tur and Bengal gram crop is given in Table-14 and also graphically presented below. District wise details are given in Appendix-2.5.

## Table - 14

Estimated area and Reconciled area under Tur and Bengal gram crops

| Crop | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Tur | 1188355 | 1244936 | -4.5 |
| Bengal gram | 850805 | 835287 | 1.9 |

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


### 2.8 Groundnut

Groundnut is an important oilseed crop grown in about 3.2 lakh hectares in the State. Though it is grown in Kharif and Summer seasons, about $92 \%$ of the area is cultivated during kharif season alone. Predominant groundnut growing districts are Chitradurga (1.2 lakh hectares) and Tumakuru ( 0.5 lakh hectares) which accounted for $52.4 \%$ of the total area of the State. Season wise estimates of area are given in Table-15.

## Table - 15

## Season wise Estimated area and Reconciled area under Groundnut crop

Area in hectares

| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
|  | 2 | 3 | 4 |
| Kharif | 275460 | 297717 | -7.5 |
| Summer | 17980 | 26312 | -31.7 |
| Total | 293440 | 324029 | -9.4 |

The estimated area under ratio method was lower side to the extent of $9.4 \%$ when compared with Reconciliation area. Season wise, Variety wise and irrigated/unirrigated details are given in Table-16.

$$
\text { Table - } 16
$$

Season wise and variety wise Estimated area by Ratio method and Reconciled area under Groundnut crop

| Variety | Irrigated/ Unirrigated | Estimated area as per Ratio Method |  |  |  |  | , | ctar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Reconciled area (as per Crop survey) |  |  | Percentage of 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
|  | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| High <br> Yielding | Irrigated | 20889 | 17977 | 38866 | 19958 | 26271 | 46228 | -15.9 |
|  | Unirrigated | 254571 | 3 | 254574 | 277759 | 41 | 277801 | -8.4 |
|  | Total | 275460 | 17980 | 293440 | 297717 | 26312 | 324029 | -9.4 |
| Total | Irrigated | 20889 | 17977 | 38866 | 19958 | 26271 | 46228 | -15.9 |
|  | Unirrigated | 254571 | 3 | 254574 | 277759 | 41 | 277801 | -8.4 |
|  | Total | 275460 | 17980 | 293440 | 297717 | 26312 | 324029 | -9.4 |

It is seen from the above table that, the estimated area under irrigated and unirrigated as per ratio method was on lower side to the extent of $15.9 \%$ and $8.4 \%$ respectively and the total area under high yielding variety was on lower side to the extent of $9.4 \%$ when compared with reconciled area. District wise details are given in Appendix - 2.6

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



### 2.10 Sunflower

Sunflower is another important oilseed crop grown in about 2.50 lakh hectares in the State. Tumakuru had the largest area ( 0.40 lakh hectares) followed by Raichur (0.33 lakh hectares), Bagalakote (0.32 lakh hectares), Gadag (0.27 lakh hectares) and Koppala (0.23 lakh hectares). Total area in these 5 districts contributes $62 \%$ of sunflower area of the State. Season wise estimated area under ratio method is given in Table - 17

Table - 17
Season wise Estimated area and Reconciled area under Sunflower crop
Area in hectares

| Season | Estimated area as <br> per Ratio Method | Reconciled area <br> (as per Crop survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Kharif | 176666 | 189572 | -6.8 |
| Rabi | 55724 | 58127 | -4.1 |
| Summer | 1625 | 2595 | -37.4 |
| Total | $\mathbf{2 3 4 0 1 5}$ | $\mathbf{2 5 0 2 9 4}$ | $\mathbf{- 6 . 5}$ |

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 by ratio method and reconciled area are given in Table - 18 .

$$
\text { Table - } 18
$$

Season wise and variety wise 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) | Percentage of variation over Reconciled 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 <br> Yielding | Irrigated | 30265 | 35156 | 1625 | 67046 | 75294 | -11.0 |
|  | Unirrigated | 146401 | 20568 | 0 | 166969 | 175000 | -4.6 |
|  | Total | 176666 | 55724 | 1625 | 234015 | 250294 | -6.5 |
| Total | Irrigated | 30265 | 35156 | 1625 | 67046 | 75294 | -11.0 |
|  | Unirrigated | 146401 | 20568 | 0 | 166969 | 175000 | -4.6 |
|  | Total | 176666 | 55724 | 1625 | 234015 | 250294 | -6.5 |

## Variety wise and Source wise 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 high yielding variety was lower to the extent of $6.5 \%$ when compared to the reconciled area. The entire area under the crop was high yielding variety. District wise details are given in Appendix -2.7.

### 2.11 Sesamum

Sesamum crop is grown in 0.20 lakh hectares mainly in rainfed areas during kharif season only. It is largely grown in Mandya 0.05 lakh hectares, Koppala 0.04 lakh hectares and Mysuru 0.03 lakh hectares. Percentage variation of estimated area under ratio method over reconciled area was higher to the extent of 2.7 . The entire area under the crop was grown as high yielding variety. Estimated area under Sesamum is given in Table-19. District wise area details are given in Appendix-2.8.

### 2.12 Safflower

Safflower is an important oilseed crop grown about 0.62 lakh hectares of area in Rabi season during 2022-23. It is largely grown in Bidar district (0.26 lakh hectares) followed by Kalaburagi ( 0.16 lakh hectares) and Gadag ( 0.08 lakh hectares). Estimated area by ratio method was lower to the extent of $10.4 \%$ when compared to reconciled area. The entire area under the crop was grown as high yielding variety. Estimated area under Safflower is given in Table-19. District wise 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 140 hectares of area about $65 \%$ of area was sown in Tumakuru, Vijayapura and Davanagere districts. Estimated area by ratio method was lower to the extent of $7.9 \%$ when compared with reconciled area. Estimated area under Linseed is given in Table-19. District wise area 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.

$$
\text { Table - } 19
$$

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

| Crop Name | Estimated area as in hectares <br> per Ratio Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Groundnut | 293440 | 324029 | -9.4 |
| Sunflower | 234015 | 250294 | $-\mathbf{- 6 . 5}$ |
| Sesamum | 20371 | 19844 | $\mathbf{2 . 7}$ |
| Safflower | 55606 | 62045 | $\mathbf{- 1 0 . 4}$ |
| Linseed | 129 | 140 | $\mathbf{- 7 . 9}$ |

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



### 2.14 Cotton

Cotton is an important cash crop largely grown in Raichur, Dharwad, Vijayapura, Gadag and Belagavi districts. 0.18 lakh hectares of area was covered under the crop during 2022-23. The variation of estimated area as per ratio method over reconciled area was $-11.0 \%$. Variety wise and irrigated/unirrigated details are given in Table-20. The district wise area details are given in Appendix-2.9.

Table - 20
Variety wise Estimated area and Reconciled area under Cotton crop

| Variety | Irrigated/ <br> Unirrigated | Estimated area <br> as per Ratio <br> Method | Reconciled area <br> (as per Crop <br> survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :--- | :---: | :---: | :---: |
|  | 2 |  | 3 | 4 |
|  | Irrigated | 46 | 201 | -77.1 |
|  | Unirrigated | 3062 | 3281 | -6.7 |
|  | Total | $\mathbf{3 1 0 8}$ | $\mathbf{3 4 8 2}$ | $\mathbf{- 1 0 . 7}$ |
| High <br> Yielding | Irrigated | 4649 | 6684 | -30.4 |
|  | Unirrigated | 8492 | 8096 | 4.9 |
|  | Total | $\mathbf{1 3 1 4 1}$ | $\mathbf{1 4 7 8 0}$ | $\mathbf{- 1 1 . 1}$ |
| Total | Irrigated | 4695 | 6885 | -31.8 |
|  | Unirrigated | 11554 | 11377 | 1.6 |
|  | Total | $\mathbf{1 6 2 4 9}$ | $\mathbf{1 8 2 6 2}$ | $\mathbf{- 1 1 . 0}$ |

Variety wise and Source wise Estimated area (Ratio Method) and Reconciled Area under Cotton Crop (in hectares)


### 2.15 Sugarcane

Sugarcane is an irrigated crop, which is grown in all the seasons. Out of 3 lakh hectares of area under the crop, $56 \%$ of cropped area is found in Belagavi district alone followed by, Bagalakote (22\%) and Vijayapura (8\%) districts. Estimated area by Ratio
method was higher to the extent of $1.9 \%$ when compared to reconciled area. Estimated area of Sugarcane crop by variety wise and source wise by ratio method and reconciled area are given in Table-21. District wise details of estimates are given in Appendix-2.9.

$$
\text { Table - } 21
$$

Variety wise Estimated area and Reconciled area under Sugarcane crop

| Variety | Irrigated/ <br> Unirrigated | Estimated area <br> as per Ratio <br> Method | Reconciled <br> area (as per <br> Crop survey) | Percentage of <br> variation over <br> Reconciled area |
| :--- | :--- | :---: | :---: | :---: |
|  | 2 |  | 3 | 4 |
|  | Irrigated | 209547 | 212041 | -1.2 |
|  | Unirrigated | 560 | 764 | -26.7 |
|  | Total | $\mathbf{2 1 0 1 0 7}$ | $\mathbf{2 1 2 8 0 5}$ | $\mathbf{- 1 . 3}$ |
| High <br> Yielding | Irrigated | 95707 | 87068 | 9.9 |
|  | Unirrigated | 0 | 127 | -100.0 |
|  | Total | $\mathbf{9 5 7 0 7}$ | $\mathbf{8 7 1 9 5}$ | $\mathbf{9 . 8}$ |
| Total | Irrigated | 305254 | 299109 | 2.1 |
|  | Unirrigated | 560 | 891 | -37.1 |
|  | Total | $\mathbf{3 0 5 8 1 4}$ | $\mathbf{3 0 0 0 0 0}$ | $\mathbf{1 . 9}$ |

Variety wise and Source wise Estimated area (Ratio Method) and Reconciled Area under Sugarcane Crop (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 5880 villages of the State during 2022-23, which belong to the second set of villages selected under the scheme for the years 2021-22 to 2025-26.
3.3 During the year the crop abstracts were received from all the villages in respect of Kharif, Rabi and Summer seasons.
3.4 During the year 2022-23, percentage of supervision by Statistics, Agriculture and Horticulture Departments personnel was 98.39, 99.66 and 99.44 respectively.
3.5 The estimated area under ratio method was high in respect of Wheat, Bengal gram, Sesamum, Sugarcane crops and it was low in case of Paddy, Jowar, Ragi, Maize, Bajra, Tur, Groundnut, Sunflower, Safflower, Linseed and Cotton crops when compared to the reconciled area.

## APPENDIX - 1

District wise \& Season wise receipt position of village Crop Abstracts during 2022-23

| Sl. <br> No. | Districts | Kharif <br> villages <br> selected |  | No. of villages <br> from which <br> crop abstracts <br> received | Percen <br> tage | No. of villages <br> from which <br> crop abstracts <br> received | Percen <br> tage | No. of villages <br> from which <br> crop abstracts <br> received |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## APPENDIX - 2.1

## District wise and Season wise Estimated Area under Ratio method and

 Reconciled Area for the year 2022-23Crop: Paddy
Area: in hectares

| SI. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 7 | 24 | 0 | 0 | 0 | 0 | 7 | 24 |
| 2 | Ballari | 90304 | 87740 | 2979 | 2524 | 17200 | 64116 | 110483 | 154380 |
| 3 | Belagavi | 37914 | 52941 | 46 | 51 | 43 | 103 | 38003 | 53095 |
| 4 | Bengaluru Rural | 90 | 138 | 0 | 4 | 2 | 53 | 92 | 194 |
| 5 | Bengaluru Urban | 122 | 161 | 0 | 0 | 0 | 0 | 122 | 161 |
| 6 | Bidar | 739 | 853 | 0 | 0 | 0 | 0 | 739 | 853 |
| 7 | Chamarajanagara | 7524 | 8145 | 572 | 626 | 942 | 1157 | 9038 | 9927 |
| 8 | Chikkaballapura | 1078 | 1465 | 582 | 507 | 454 | 987 | 2114 | 2959 |
| 9 | Chikkamagalur | 6563 | 8954 | 0 | 219 | 262 | 331 | 6825 | 9505 |
| 10 | Chitradurga | 527 | 474 | 108 | 125 | 70 | 135 | 705 | 734 |
| 11 | Dakshina Kannada | 3484 | 6186 | 841 | 1127 | 0 | 9 | 4325 | 7322 |
| 12 | Davanagere | 40582 | 62378 | 301 | 406 | 43585 | 54027 | 84468 | 116811 |
| 13 | Dharwad | 9271 | 8986 | 0 | 15 | 0 | 74 | 9271 | 9076 |
| 14 | Gadag | 2221 | 3016 | 1981 | 2136 | 0 | 2674 | 4202 | 7825 |
| 15 | Hassan | 38324 | 32307 | 889 | 733 | 53 | 230 | 39266 | 33270 |
| 16 | Haveri | 28102 | 28438 | 564 | 271 | 10667 | 10221 | 39333 | 38930 |
| 17 | Kalaburagi | 6476 | 8007 | 529 | 1207 | 2454 | 1695 | 9459 | 10909 |
| 18 | Kodagu | 11538 | 13440 | 0 | 1 | 0 | 7 | 11538 | 13448 |
| 19 | Kolara | 2737 | 2715 | 181 | 159 | 135 | 701 | 3053 | 3575 |
| 20 | Koppala | 59954 | 59670 | 3622 | 2136 | 48903 | 45048 | 112479 | 106854 |
| 21 | Mandya | 42972 | 60391 | 187 | 106 | 14434 | 16034 | 57593 | 76532 |
| 22 | Mysuru | 83547 | 85847 | 0 | 6 | 11433 | 12492 | 94980 | 98346 |
| 23 | Raichur | 140528 | 174181 | 66364 | 67867 | 11345 | 21500 | 218237 | 263548 |
| 24 | Ramanagara | 2814 | 3022 | 0 | 83 | 50 | 24 | 2864 | 3128 |
| 25 | Shivamogga | 88015 | 72054 | 62 | 94 | 9683 | 10132 | 97760 | 82280 |
| 26 | Tumakuru | 2978 | 3409 | 0 | 106 | 9 | 222 | 2987 | 3737 |
| 27 | Udupi | 28778 | 35781 | 6095 | 5407 | 0 | 24 | 34873 | 41212 |
| 28 | Uttara Kannada | 204983 | 38830 | 343 | 606 | 69 | 421 | 205395 | 39856 |
| 29 | Vijayanagara | 11626 | 13827 | 5088 | 6569 | 0 | 8074 | 16714 | 28470 |
| 30 | Vijayapura | 36 | 75 | 0 | 33 | 3385 | 0 | 3421 | 108 |
| 31 | Yadagiri | 92749 | 91467 | 1611 | 1015 | 37950 | 45875 | 132310 | 138357 |
|  | STATE TOTAL | 1046583 | 964922 | 92945 | 94139 | 213128 | 296365 | 1352656 | 1355426 |

RCA: Reconciled Crop Area

## APPENDIX - 2.2

## District wise and Season wise Estimated Area under Ratio method and Reconciled area for the year 2022-23

Crop: Jowar
Area: in hectares

| SI. <br> No. | Districts | Kharif |  | Rabi |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 1386 | 788 | 41164 | 39320 | 42550 | 40108 |
| 2 | Ballari | 4988 | 4678 | 17366 | 17170 | 22354 | 21848 |
| 3 | Belagavi | 6671 | 6256 | 102827 | 102390 | 109498 | 108646 |
| 4 | Bengaluru Rural | 2306 | 1874 | 86 | 188 | 2392 | 2062 |
| 5 | Bengaluru Urban | 718 | 727 | 0 | 30 | 718 | 757 |
| 6 | Bidar | 257 | 164 | 31614 | 35310 | 31871 | 35474 |
| 7 | Chamarajanagara | 10981 | 13235 | 220 | 223 | 11201 | 13458 |
| 8 | Chikkaballapura | 3117 | 886 | 618 | 543 | 3735 | 1429 |
| 9 | Chikkamagalur | 954 | 1392 | 4347 | 2699 | 5301 | 4091 |
| 10 | Chitradurga | 1621 | 1933 | 3226 | 3682 | 4847 | 5615 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 220 | 273 | 2721 | 3226 | 2941 | 3499 |
| 13 | Dharwad | 107 | 110 | 29344 | 28372 | 29451 | 28482 |
| 14 | Gadag | 94 | 131 | 22454 | 26034 | 22548 | 26165 |
| 15 | Hassan | 4897 | 3738 | 841 | 1256 | 5738 | 4994 |
| 16 | Haveri | 55 | 81 | 14248 | 50894 | 14303 | 50975 |
| 17 | Kalaburagi | 64 | 147 | 56409 | 58086 | 56473 | 58233 |
| 18 | Kodagu | 0 | 176 | 0 | 0 | 0 | 176 |
| 19 | Kolara | 491 | 795 | 71 | 224 | 562 | 1019 |
| 20 | Koppala | 1017 | 1043 | 13487 | 15414 | 14504 | 16457 |
| 21 | Mandya | 0 | 0 | 0 | 24 | 0 | 24 |
| 22 | Mysuru | 3057 | 3099 | 278 | 366 | 3335 | 3465 |
| 23 | Raichur | 6646 | 7525 | 46669 | 46036 | 53315 | 53561 |
| 24 | Ramanagara | 1879 | 1535 | 237 | 366 | 2116 | 1901 |
| 25 | Shivamogga | 0 | 1 | 0 | 3 | 0 | 4 |
| 26 | Tumakuru | 8190 | 7599 | 579 | 773 | 8769 | 8372 |
| 27 | Udupi | 0 | 0 | 0 | 7 | 0 | 7 |
| 28 | Uttara Kannada | 0 | 50 | 0 | 15 | 0 | 65 |
| 29 | Vijayanagara | 5508 | 5374 | 5641 | 6666 | 11149 | 12040 |
| 30 | Vijayapura | 0 | 22 | 48049 | 49529 | 48049 | 49551 |
| 31 | Yadagiri | 42 | 54 | 8262 | 10032 | 8304 | 10086 |
|  | STATE TOTAL | 65266 | 63684 | 450758 | 498878 | 516024 | 562562 |

RCA: Reconciled Crop Area

## APPENDIX - 2.3

## District wise and Season wise Estimated Area under Ratio method and Reconciled area for the year 2022-23

Crop: Ragi
Area: in hectares

| SI. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 4 | 12 | 0 | 0 | 0 | 0 | 4 | 12 |
| 2 | Ballari | 640 | 849 | 1149 | 1349 | 0 | 222 | 1789 | 2420 |
| 3 | Belagavi | 645 | 660 | 28 | 90 | 0 | 12 | 673 | 762 |
| 4 | Bengaluru Rural | 61138 | 61437 | 460 | 534 | 0 | 54 | 61598 | 62025 |
| 5 | Bengaluru Urban | 13660 | 15125 | 430 | 436 | 0 | 0 | 14090 | 15561 |
| 6 | Bidar | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7 | Chamarajanagara | 4146 | 4025 | 38 | 43 | 28 | 69 | 4212 | 4137 |
| 8 | Chikkaballapura | 32649 | 31860 | 1838 | 1648 | 865 | 830 | 35352 | 34338 |
| 9 | Chikkamagalur | 52401 | 54494 | 1273 | 1401 | 14 | 62 | 53688 | 55957 |
| 10 | Chitradurga | 27609 | 37350 | 5817 | 6021 | 464 | 1447 | 33890 | 44818 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 9548 | 12027 | 9321 | 11154 | 173 | 549 | 19042 | 23729 |
| 13 | Dharwad | 11 | 17 | 0 | 4 | 0 | 0 | 11 | 21 |
| 14 | Gadag | 0 | 18 | 14 | 21 | 0 | 0 | 14 | 39 |
| 15 | Hassan | 94503 | 99098 | 10546 | 11148 | 12 | 172 | 105061 | 110418 |
| 16 | Haveri | 19 | 46 | 92 | 71 | 0 | 37 | 111 | 155 |
| 17 | Kalaburagi | 0 | 41 | 32 | 55 | 0 | 1 | 32 | 96 |
| 18 | Kodagu | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 19 | Kolara | 41443 | 43467 | 402 | 588 | 715 | 705 | 42560 | 44759 |
| 20 | Koppala | 0 | 13 | 23 | 29 | 0 | 0 | 23 | 42 |
| 21 | Mandya | 51419 | 58444 | 6818 | 7819 | 3081 | 2996 | 61318 | 69259 |
| 22 | Mysuru | 52501 | 60999 | 40555 | 42046 | 35 | 439 | 93091 | 103484 |
| 23 | Raichur | 28 | 31 | 0 | 40 | 0 | 0 | 28 | 71 |
| 24 | Ramanagara | 59979 | 58996 | 1277 | 1606 | 136 | 81 | 61392 | 60684 |
| 25 | Shivamogga | 29 | 85 | 0 | 3 | 10 | 17 | 39 | 105 |
| 26 | Tumakuru | 149610 | 149124 | 1218 | 1460 | 206 | 237 | 151034 | 150821 |
| 27 | Udupi | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 28 | Uttara Kannada | 0 | 6 | 0 | 2 | 0 | 0 | 0 | 8 |
| 29 | Vijayanagara | 13341 | 14053 | 26008 | 30337 | 322 | 1467 | 39671 | 45857 |
| 30 | Vijayapura | 30 | 50 | 21 | 79 | 0 | 0 | 51 | 129 |
| 31 | Yadagiri | 0 | 6 | 0 | 2 | 0 | 0 | 0 | 8 |
|  | STATE TOTAL | 665353 | 702338 | 107360 | 117987 | 6061 | 9395 | 778774 | 829720 |

RCA: Reconciled Crop Area

## APPENDIX - 2.4

## District wise and Season wise Estimated Area under Ratio method and

 Reconciled area for the year 2022-23Crop: Maize
Area: in hectares

| SI. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 54090 | 59639 | 14009 | 15037 | 4672 | 5227 | 72771 | 79903 |
| 2 | Ballari | 27040 | 23120 | 4743 | 5981 | 1993 | 614 | 33776 | 29715 |
| 3 | Belagavi | 103452 | 112159 | 64543 | 66038 | 22123 | 10540 | 190118 | 188737 |
| 4 | Bengaluru Rural | 4492 | 4888 | 103 | 175 | 0 | 130 | 4595 | 5193 |
| 5 | Bengaluru Urban | 560 | 716 | 0 | 31 | 0 | 1 | 560 | 749 |
| 6 | Bidar | 726 | 813 | 110 | 156 | 148 | 138 | 984 | 1107 |
| 7 | Chamarajanagara | 32601 | 29901 | 9340 | 8410 | 3180 | 8081 | 45121 | 46392 |
| 8 | Chikkaballapura | 47077 | 48152 | 2922 | 4226 | 1945 | 3578 | 51944 | 55956 |
| 9 | Chikkamagalur | 5284 | 6380 | 1172 | 724 | 44 | 74 | 6500 | 7178 |
| 10 | Chitradurga | 102870 | 117158 | 23977 | 22164 | 4839 | 6256 | 131686 | 145578 |
| 11 | Dakshina Kannad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 106119 | 123767 | 8268 | 6779 | 1487 | 1862 | 115874 | 132408 |
| 13 | Dharwad | 46764 | 48724 | 10013 | 10484 | 249 | 893 | 57026 | 60101 |
| 14 | Gadag | 117495 | 112054 | 11405 | 12506 | 117 | 307 | 129017 | 124867 |
| 15 | Hassan | 107594 | 106932 | 8707 | 9436 | 674 | 1198 | 116975 | 117567 |
| 16 | Haveri | 234586 | 241207 | 75174 | 74311 | 9923 | 11035 | 319683 | 326554 |
| 17 | Kalaburagi | 1935 | 1387 | 285 | 489 | 6 | 76 | 2226 | 1952 |
| 18 | Kodagu | 1843 | 1892 | 0 | 0 | 0 | 0 | 1843 | 1892 |
| 19 | Kolara | 1076 | 954 | 729 | 846 | 162 | 910 | 1967 | 2710 |
| 20 | Koppala | 113126 | 121429 | 16685 | 18963 | 357 | 867 | 130168 | 141260 |
| 21 | Mandya | 2272 | 3622 | 1154 | 1188 | 1526 | 2649 | 4952 | 7459 |
| 22 | Mysuru | 46745 | 43681 | 4747 | 6231 | 237 | 1046 | 51729 | 50959 |
| 23 | Raichur | 679 | 673 | 1387 | 1762 | 0 | 32 | 2066 | 2467 |
| 24 | Ramanagara | 2724 | 2554 | 1615 | 1480 | 21 | 46 | 4360 | 4079 |
| 25 | Shivamogga | 44468 | 44734 | 753 | 963 | 8345 | 9882 | 53566 | 55579 |
| 26 | Tumakuru | 29932 | 28103 | 1844 | 2147 | 151 | 242 | 31927 | 30491 |
| 27 | Udupi | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 28 |
| 28 | Uttara Kannada | 5867 | 7617 | 2350 | 2152 | 10 | 783 | 8227 | 10552 |
| 29 | Vijayanagara | 198842 | 199095 | 8913 | 15374 | 32 | 667 | 207787 | 215136 |
| 30 | Vijayapura | 86416 | 86285 | 12159 | 11138 | 1214 | 5581 | 99789 | 103004 |
| 31 | Yadagiri | 52 | 80 | 29 | 230 | 12 | 51 | 93 | 361 |
|  | STATE TOTAL | 1526727 | 1577716 | 287136 | 299449 | 63467 | 72770 | 1877330 | 1949935 |

[^0]
## APPENDIX - 2.5

District wise and Crop wise Estimated Area under Ratio method and Reconciled area for the year 2022-23

| $\begin{gathered} \text { Sl. } \\ \text { No. } \end{gathered}$ | Districts | Bajra |  | Wheat |  | Tur |  | Bengalgram |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 13827 | 14761 | 21782 | 22427 | 32770 | 37495 | 53878 | 57144 |
| 2 | Ballari | 1905 | 1888 | 0 | 12 | 5065 | 3751 | 6267 | 5344 |
| 3 | Belagavi | 5534 | 6392 | 45363 | 47950 | 13499 | 11516 | 119081 | 107651 |
| 4 | Bengaluru Rural | 0 | 11 | 0 | 0 | 602 | 418 | 54 | 73 |
| 5 | Bengaluru Urban | 0 | 11 | 0 | 0 | 161 | 240 | 0 | 0 |
| 6 | Bidar | 0 | 5 | 8115 | 9466 | 116072 | 113718 | 84114 | 84622 |
| 7 | Chamarajanagara | 345 | 294 | 0 | 14 | 136 | 190 | 2068 | 1163 |
| 8 | Chikkaballapura | 89 | 99 | 0 | 0 | 1806 | 1357 | 78 | 169 |
| 9 | Chikkamagalur | 0 | 12 | 0 | 1 | 275 | 55 | 5654 | 5794 |
| 10 | Chitradurga | 631 | 904 | 60 | 55 | 6947 | 6815 | 31713 | 30688 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 103 | 179 | 54 | 125 | 269 | 512 | 7232 | 6197 |
| 13 | Dharwad | 0 | 15 | 10493 | 3274 | 44 | 70 | 139883 | 141619 |
| 14 | Gadag | 2408 | 434 | 13715 | 4631 | 347 | 196 | 170369 | 153989 |
| 15 | Hassan | 0 | 8 | 0 | 0 | 107 | 227 | 880 | 1106 |
| 16 | Haveri | 0 | 9 | 107 | 217 | 66 | 107 | 4202 | 3934 |
| 17 | Kalaburagi | 431 | 266 | 4662 | 6022 | 411237 | 486238 | 39320 | 40267 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolara | 8 | 33 | 0 | 0 | 644 | 459 | 7 | 11 |
| 20 | Koppala | 36941 | 39496 | 842 | 1017 | 51017 | 34963 | 77694 | 81798 |
| 21 | Mandya | 0 | 1 | 0 | 0 | 197 | 182 | 0 | 0 |
| 22 | Mysuru | 0 | 8 | 0 | 0 | 2092 | 1836 | 254 | 546 |
| 23 | Raichur | 2450 | 21883 | 68 | 146 | 93064 | 108337 | 32775 | 35634 |
| 24 | Ramanagara | 16176 | 4 | 0 | 0 | 354 | 500 | 0 | 0 |
| 25 | Shivamogga | 0 | 1 | 0 | 0 | 0 | 19 | 0 | 0 |
| 26 | Tumakuru | 50 | 102 | 9408 | 0 | 7699 | 6609 | 342 | 329 |
| 27 | Udupi | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |
| 29 | Vijayanagara | 6820 | 7098 | 21 | 40 | 5239 | 5804 | 8122 | 56540 |
| 30 | Vijayapura | 20217 | 19314 | 18307 | 29992 | 385603 | 375180 | 65845 | 19791 |
| 31 | Yadagiri | 4136 | 5281 | 132 | 121 | 53043 | 48142 | 973 | 872 |
|  | STATE TOTAL | 112113 | 118509 | 133129 | 125510 | 1188355 | 1244936 | 850805 | 835287 |

[^1]
## APPENDIX - 2.6

## District wise and Season wise Estimated Area under Ratio method and

 Reconciled area for the year 2022-23Crop: Groundnut
Area: in hectares

| Sl. <br> No. | Districts | Kharif |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 796 | 665 | 3188 | 2716 | 3984 | 3381 |
| 2 | Ballari | 3556 | 3036 | 180 | 537 | 3736 | 3573 |
| 3 | Belagavi | 17491 | 17096 | 555 | 1964 | 18046 | 19060 |
| 4 | Bengaluru Rural | 113 | 108 | 0 | 0 | 113 | 108 |
| 5 | Bengaluru Urban | 2 | 10 | 0 | 0 | 2 | 10 |
| 6 | Bidar | 0 | 8 | 342 | 93 | 342 | 101 |
| 7 | Chamarajanagara | 1684 | 2051 | 110 | 47 | 1794 | 2098 |
| 8 | Chikkaballapura | 14924 | 15347 | 1012 | 1006 | 15936 | 16353 |
| 9 | Chikkamagalur | 1670 | 2485 | 3 | 14 | 1673 | 2498 |
| 10 | Chitradurga | 90092 | 117215 | 2827 | 4541 | 92919 | 121756 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 2615 | 3193 | 365 | 375 | 2980 | 3568 |
| 13 | Dharwad | 21929 | 18759 | 145 | 59 | 22074 | 18818 |
| 14 | Gadag | 18166 | 17706 | 1208 | 4911 | 19374 | 22617 |
| 15 | Hassan | 160 | 219 | 0 | 38 | 160 | 257 |
| 16 | Haveri | 10086 | 8428 | 2516 | 2277 | 12602 | 10705 |
| 17 | Kalaburagi | 191 | 303 | 175 | 121 | 366 | 425 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolara | 4510 | 3705 | 20 | 8 | 4530 | 3712 |
| 20 | Koppala | 3364 | 4169 | 1435 | 1306 | 4799 | 5475 |
| 21 | Mandya | 234 | 255 | 0 | 29 | 234 | 285 |
| 22 | Mysuru | 718 | 846 | 0 | 0 | 718 | 846 |
| 23 | Raichur | 1510 | 618 | 86 | 89 | 1596 | 707 |
| 24 | Ramanagara | 1101 | 599 | 0 | 0 | 1101 | 599 |
| 25 | Shivamogga | 25 | 73 | 2 | 8 | 27 | 81 |
| 26 | Tumakuru | 45470 | 47078 | 678 | 937 | 46148 | 48015 |
| 27 | Udupi | 0 | 0 | 0 | 2 | 0 | 2 |
| 28 | Uttara Kannada | 9 | 23 | 0 | 1 | 9 | 24 |
| 29 | Vijayanagara | 30115 | 29640 | 792 | 2570 | 30907 | 32210 |
| 30 | Vijayapura | 3639 | 3549 | 1849 | 2381 | 5488 | 5930 |
| 31 | Yadagiri | 1290 | 533 | 492 | 283 | 1782 | 816 |
|  | STATE TOTAL | 275460 | 297717 | 17980 | 26312 | 293440 | 324029 |

[^2]
## APPENDIX - 2.7

## District wise and Season wise Estimated Area under Ratio method and

 Reconciled area for the year 2022-23Crop: Sunflower
Area: in hectares

| Sl. <br> No. | Districts | Kharif |  | Rabi |  | Summer |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 25175 | 29541 | 1583 | 1812 | 416 | 537 | 27174 | 31890 |
| 2 | Ballari | 1405 | 1538 | 242 | 226 | 0 | 10 | 1647 | 1774 |
| 3 | Belagavi | 4108 | 4158 | 11793 | 12703 | 187 | 150 | 16088 | 17011 |
| 4 | Bengaluru Rural | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5 | Bengaluru Urban | 0 | 13 | 0 | 1 | 0 | 0 | 0 | 14 |
| 6 | Bidar | 0 | 6 | 65 | 207 | 26 | 33 | 91 | 245 |
| 7 | Chamarajanagara | 20775 | 18607 | 690 | 411 | 149 | 392 | 21614 | 19410 |
| 8 | Chikkaballapura | 23 | 138 | 709 | 788 | 411 | 576 | 1143 | 1502 |
| 9 | Chikkamagalur | 3221 | 1883 | 0 | 0 | 0 | 0 | 3221 | 1883 |
| 10 | Chitradurga | 8469 | 9186 | 279 | 447 | 0 | 8 | 8748 | 9641 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 1597 | 1463 | 787 | 1132 | 0 | 34 | 2384 | 2628 |
| 13 | Dharwad | 0 | 12 | 5831 | 5754 | 0 | 0 | 5831 | 5766 |
| 14 | Gadag | 14441 | 11054 | 16169 | 15866 | 15 | 290 | 30625 | 27210 |
| 15 | Hassan | 221 | 2331 | 0 | 3 | 0 | 0 | 221 | 2334 |
| 16 | Haveri | 0 | 17 | 10643 | 11101 | 371 | 181 | 11014 | 11299 |
| 17 | Kalaburagi | 4787 | 5267 | 144 | 223 | 0 | 15 | 4931 | 5505 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolara | 0 | 6 | 0 | 0 | 0 | 2 | 0 | 8 |
| 20 | Koppala | 22697 | 20695 | 2397 | 2293 | 35 | 30 | 25129 | 23017 |
| 21 | Mandya | 8 | 4 | 0 | 1 | 0 | 3 | 8 | 8 |
| 22 | Mysuru | 1392 | 2408 | 0 | 0 | 0 | 0 | 1392 | 2408 |
| 23 | Raichur | 26583 | 32820 | 89 | 180 | 0 | 2 | 26672 | 33002 |
| 24 | Ramanagara | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 11 |
| 25 | Shivamogga | 0 | 412 | 197 | 160 | 4 | 28 | 201 | 599 |
| 26 | Tumakuru | 309 | 40132 | 0 | 29 | 0 | 4 | 309 | 40165 |
| 27 | Udupi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Vijayanagara | 5875 | 6084 | 3145 | 3515 | 6 | 16 | 9026 | 9615 |
| 30 | Vijayapura | 33779 | 0 | 929 | 1147 | 0 | 263 | 34708 | 1410 |
| 31 | Yadagiri | 1801 | 1785 | 32 | 128 | 5 | 23 | 1838 | 1936 |
|  | STATE TOTAL | 176666 | 189572 | 55724 | 58127 | 1625 | 2595 | 234015 | 250294 |

[^3]APPENDIX - 2.8
Districtwise and Cropwise Estimated area under Ratio method and Reconciled area for the year 2022-23

| $\begin{gathered} \text { Sl. } \\ \text { No. } \end{gathered}$ | Districts | Sesamum |  | Safflower |  | Linseed |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ratio | RCA | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 912 | 563 | 291 | 595 | 0 | 5 |
| 2 | Ballari | 70 | 57 | 45 | 37 | 0 | 0 |
| 3 | Belagavi | 31 | 107 | 1243 | 1166 | 0 | 0 |
| 4 | Bengaluru Rural | 0 | 4 | 0 | 0 | 0 | 4 |
| 5 | Bengaluru Urban | 0 | 3 | 0 | 0 | 0 | 0 |
| 6 | Bidar | 325 | 112 | 22983 | 25755 | 0 | 2 |
| 7 | Chamarajanagara | 1274 | 1126 | 0 | 5 | 0 | 0 |
| 8 | Chikkaballapura | 0 | 3 | 0 | 1 | 0 | 9 |
| 9 | Chikkamagalur | 702 | 899 | 0 | 2 | 0 | 0 |
| 10 | Chitradurga | 0 | 49 | 296 | 420 | 43 | 11 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 9 | 43 | 17 | 65 | 0 | 14 |
| 13 | Dharwad | 0 | 2 | 4148 | 4202 | 0 | 0 |
| 14 | Gadag | 21 | 38 | 6028 | 7624 | 0 | 2 |
| 15 | Hassan | 680 | 1948 | 0 | 0 | 0 | 0 |
| 16 | Haveri | 11 | 14 | 648 | 495 | 0 | 3 |
| 17 | Kalaburagi | 236 | 399 | 15495 | 16458 | 0 | 4 |
| 18 | Kodagu | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Kolara | 0 | 4 | 0 | 0 | 0 | 0 |
| 20 | Koppala | 6399 | 4179 | 846 | 652 | 0 | 1 |
| 21 | Mandya | 4820 | 5440 | 0 | 0 | 0 | 0 |
| 22 | Mysuru | 3203 | 2752 | 0 | 0 | 0 | 0 |
| 23 | Raichur | 914 | 853 | 61 | 116 | 0 | 0 |
| 24 | Ramanagara | 320 | 800 | 0 | 0 | 0 | 0 |
| 25 | Shivamogga | 0 | 3 | 0 | 0 | 0 | 0 |
| 26 | Tumakuru | 317 | 234 | 0 | 2 | 86 | 59 |
| 27 | Udupi | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Vijayanagara | 66 | 120 | 0 | 43 | 0 | 0 |
| 30 | Vijayapura | 61 | 83 | 3310 | 4205 | 0 | 18 |
| 31 | Yadagiri | 0 | 10 | 195 | 202 | 0 | 8 |
|  | STATE TOTAL | 20371 | 19844 | 55606 | 62045 | 129 | 140 |

RCA: Reconciled Crop Area

APPENDIX - 2.9
Districtwise and Cropwise estimated area under Ratio method and Reconciled area for the year 2022-23

|  |  |  |  | Area: in hectares |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sl. <br> No. | Districts | Cotton |  | Sugarcane |  |
|  |  | Ratio | RCA | Ratio | RCA |
| 1 | Bagalakote | 108 | 146 | 63853 | 64787 |
| 2 | Ballari | 850 | 842 | 337 | 167 |
| 3 | Belagavi | 1625 | 1610 | 178121 | 167973 |
| 4 | Bengaluru Rural | 0 | 0 | 0 | 11 |
| 5 | Bengaluru Urban | 0 | 0 | 0 | 0 |
| 6 | Bidar | 0 | 0 | 8866 | 8406 |
| 7 | Chamarajanagara | 0 | 29 | 3313 | 3891 |
| 8 | Chikkaballapura | 53 | 271 | 0 | 15 |
| 9 | Chikkamagalur | 0 | 67 | 0 | 1 |
| 10 | Chitradurga | 0 | 63 | 0 | 2 |
| 11 | Dakshina Kannada | 0 | 0 | 0 | 0 |
| 12 | Davanagere | 84 | 818 | 0 | 334 |
| 13 | Dharwad | 2672 | 2511 | 2864 | 7065 |
| 14 | Gadag | 2970 | 1708 | 4900 | 1902 |
| 15 | Hassan | 0 | 16 | 135 | 287 |
| 16 | Haveri | 0 | 1322 | 2804 | 2731 |
| 17 | Kalaburagi | 1608 | 306 | 4658 | 5094 |
| 18 | Kodagu | 0 | 0 | 0 | 0 |
| 19 | Kolara | 24 | 208 | 0 | 4 |
| 20 | Koppala | 191 | 211 | 561 | 604 |
| 21 | Mandya | 0 | 0 | 3529 | 4113 |
| 22 | Mysuru | 0 | 1179 | 3214 | 2558 |
| 23 | Raichur | 3220 | 3730 | 102 | 238 |
| 24 | Ramanagara | 0 | 0 | 1576 | 24 |
| 25 | Shivamogga | 0 | 0 | 0 | 24 |
| 26 | Tumakuru | 0 | 42 | 0 | 2 |
| 27 | Udupi | 0 | 0 | 0 | 0 |
| 28 | Uttara Kannada | 0 | 0 | 0 | 1630 |
| 29 | Vijayanagara | 114 | 306 | 3800 | 4029 |
| 30 | Vijayapura | 2076 | 2240 | 22910 | 23787 |
| 31 | Yadagiri | 654 | 637 | 271 | 321 |
|  | STATE TOTAL | 16249 | 18262 | 305814 | 300000 |

RCA: Reconciled Crop Area

APPENDIX - 3
Season wise and Crop wise percentage variation of Estimates of Area by ratio method over Reconciled Area for the year 2021-22 \& 2022-23

| $\begin{gathered} \text { Sl. } \\ \text { No. } \end{gathered}$ | Crop | Percentage variation of Estimated Area over Reconciled Area |  |
| :---: | :---: | :---: | :---: |
|  |  | 2021-22 | 2022-23 |
| I | Kharif |  |  |
| 1 | Paddy | -0.8 | 8.5 |
| 2 | Jowar | -1.2 | 2.5 |
| 3 | Ragi | 0.9 | -5.3 |
| 4 | Maize | 1.3 | -3.2 |
| 5 | Bajra | 1.1 | -5.4 |
| 6 | Tur | 0.5 | -4.5 |
| 7 | Groundnut | -1.5 | -7.5 |
| 8 | Sunflower | -2.8 | -6.8 |
| 9 | Sesamum | -13.7 | 2.7 |
| II | Rabi |  |  |
| 1 | Paddy | 0.3 | -1.3 |
| 2 | Jowar | -0.6 | -9.6 |
| 3 | Ragi | -14.1 | -9.0 |
| 4 | Maize | -5.7 | -4.1 |
| 5 | Wheat | -2.1 | 6.1 |
| 6 | Bengal gram | -0.7 | 1.9 |
| 7 | Sunflower | 4.7 | -4.1 |
| 8 | Safflower | -1.4 | -10.4 |
| 9 | Linseed | -26.3 | -7.9 |
| 10 | Cotton | 5.7 | -11.0 |
| 11 | Sugarcane | -2.0 | 1.9 |
| III | Summer |  |  |
| 1 | Paddy | -5.5 | -28.1 |
| 2 | Ragi | -3.0 | -35.5 |
| 3 | Maize | -6.8 | -12.8 |
| 4 | Groundnut (Rabi \& Summer) | -4.5 | -31.7 |
| 5 | Sunflower | -7.6 | -37.4 |


[^0]:    RCA: Reconciled Crop Area

[^1]:    RCA: Reconciled Crop Area

[^2]:    RCA: Reconciled Crop Area

[^3]:    RCA: Reconciled Crop Area

