

67 वां अंक

67th Issue

मुख्य फसलों
पर
फसल प्राक्कलन सर्वेक्षण
के
समेकित परिणाम

Consolidated Results
Of
Crop Estimation Survey
On
Principal Crops

2014-15



प्रस्तावना

भारत में प्रमुख खाद्यान्न तथा गैर-खाद्यान्न फसलों पर उपज दरों का आंकलन “फसल प्राक्कलन सर्वेक्षण” नामक राष्ट्रीय कार्यक्रम के अन्तर्गत अधिकांश राज्यों/संघ-राज्यों में फसल कटाई प्रयोगों के संचालन के आधार पर किया जाता है। वर्तमान में खाद्यान्नों के कुल उत्पादन के 95 प्रतिशत से भी अधिक का अनुमान 29 राज्यों/संघ-राज्यों में वैज्ञानिक आधार पर संचालित फसल कटाई प्रयोगों से प्राप्त उपज दरों के आधार पर किया जाता है।

2. राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय (रा.प्र.स.का.) का क्षेत्र संकार्य प्रभाग (क्षे. सं. प्र.) प्रमुख फसलों की उपज दरों के आंकलन हेतु सर्वेक्षणों (फ.प्र.स.) के आयोजन तथा संचालन में राज्यों/संघ-राज्यों को तकनीकी मार्गदर्शन प्रदान करता है। अपनी समन्वयी भूमिका का उत्तरदायित्व निभाने अंतर्गत रा.प्र.स.का. (क्षे. सं. प्र.) यह सुनिश्चित करने में विशेष ध्यान रखता है कि विभिन्न राज्यों/संघ-राज्यों द्वारा एक जैसी मानक तकनीक, कार्यविधि एवं प्रक्रिया अपनायी जाए। इसके अतिरिक्त रा.प्र.स.का., राज्यों/संघ-राज्यों के सहयोग से फसल सांख्यिकी सुधार (फ. सां. सु.) योजना के अन्तर्गत क्षेत्रफल परिगणना, क्षेत्रफल समुच्चयन एवं फसल कटाई प्रयोगों के प्रतिदर्श जांच कार्यक्रम को भी कार्यान्वित करता है। यह कार्यालय फसल कटाई प्रयोगों पर प्रतिदर्श जांच के कार्यक्रम का कार्यान्वयन करते समय, प्रतिदर्श ग्रामों के चयन, क्षेत्र कर्मचारियों के प्रशिक्षण तथा क्षेत्र कार्य के पर्यवेक्षण आदि में भी सहयोग देता है। इस प्रक्रिया में फसल उपज आंकलन हेतु फसल कटाई प्रयोग के संचालन सम्बन्धी कुछ महत्वपूर्ण सूक्ष्म स्तरीय जानकारी एकत्र करता है।
3. इन विश्लेषित फसल प्राक्कलन सर्वेक्षण के समेकित निष्कर्षों को रा.प्र.स.का. (क्षे. सं. प्र.) द्वारा “प्रमुख फसलों पर फसल प्राक्कलन सर्वेक्षण के समेकित परिणाम” नामक शीर्षक के अन्तर्गत इस वार्षिक प्रकाशन के रूप में निकाला जाता है।
4. वर्तमान प्रकाशन इस श्रृंखला का 67वां अंक है। प्रतिवेदन का उद्देश्य विभिन्न राज्यों/संघ राज्यों में सर्वेक्षण के बहुमुखी पक्षों/पहलुओं जैसे कार्य-क्षेत्र, विस्तारण, सर्वेक्षण-अभिकल्प तथा प्रतिदर्श आकार इत्यादि की संक्षिप्त समीक्षा करना तथा वर्ष 2014-15 के दौरान मानक-त्रुटि के साथ फसल उपज दर आंकलित कर सर्वेक्षण के परिणामों पर ध्यान केन्द्रित करना है।
5. वर्ष 2014-15 के दौरान फ. प्रा. स. के अंतर्गत विभिन्न राज्यों तथा संघ-राज्यों में 55 खाद्यान्न तथा 16 गैर-खाद्यान्न फसलों को शामिल करते हुए 13,08,025 फसल कटाई प्रयोगों को नियोजित किया गया है जिनकी संख्या पिछले वर्ष 11,16,906 थी। इस प्रतिवेदन



में किये गये विश्लेषण तथा प्राप्त किए गये निष्कर्ष मुख्य रूप से सम्बन्धित राज्यों/संघ-राज्यों के राज्य कृषि सांख्यिकी प्राधिकारों द्वारा प्रदत्त आंकड़ों तथा जानकारी पर आधारित हैं। यहां यह उल्लेख करना आपेक्षित है कि कर्नाटक एवं महाराष्ट्र राज्य के राज्य प्राधिकारों द्वारा फसल प्राक्कलन सर्वेक्षण से संबन्धित पूर्ण सूचना उपलब्ध ना करवाए जाने के फलस्वरूप संबन्धित आँकड़े प्रतिवेदन में शामिल नहीं किए जा सके हैं। ऊपर वर्णित दोनों राज्यों से संबंधित आंकड़ों को इसी कारणवश वर्ष 2013-14 के 66 वें अंक में भी शामिल नहीं किया जा सका था। इस प्रतिवेदन के प्रस्तुतीकरण में विभिन्न राज्यों के राज्य कृषि सांख्यिकी प्राधिकारों एवं उच्च स्तरीय समन्वय समिति के अध्यक्षों एवं सदस्यों द्वारा दिये गये समर्थन एवं सहयोग के लिए आभार व्यक्त किया जाता है।

6. प्रतिवेदन की विषय वस्तु एवं प्रस्तुतीकरण में सुधार हेतु सुझावों का स्वागत है।

अप्रैल, 2018

राकेश कुमार
अपर महानिदेशक



PREFACE

In India, estimates of yield rates of principal food and non-food crops are obtained on the basis of crop cutting experiments conducted in majority of States/UTs under the National Programme of Crop Estimation Surveys (CES). At present, over 95 percent of the production of foodgrains is estimated on the basis of yield rates obtained from the crop cutting experiments conducted on scientific basis spread over 29 States/UTs.

2. Field Operations Division (FOD) of the National Sample Survey Office (NSSO) has been providing technical guidance to States/UTs for organizing and conducting CES for estimating yield rates of principal crops. The FOD also ensures adoption of uniform standard technique, methodology and procedures by different States/UTs. In addition, NSSO in collaboration with the States/UTs implements sample check programmes on Area Enumeration, Area Aggregation and conduct of Crop Cutting Experiments under the Scheme of Improvement of Crop Statistics (ICS). While executing the programme of sample checks on Crop Cutting Experiments, the operational aspects of the conduct of crop cutting experiments right from selection of sample villages, training of field staff and supervision of field work are duly taken into consideration. In the process, certain vital micro-level details relating to conduct of crop cutting experiments for estimation of crop yield are also captured.
3. The analysed results of CES are consolidated and brought out by NSSO (FOD) in this annual publication titled **“Consolidated Results of Crop Estimation Survey on Principal Crops”**.
4. The present publication is the **67th** issue of the series. The report purposes to review briefly the multifaceted aspects such as scope, coverage, survey design and sample size etc. of the survey in various States/UTs and focuses attention on the results of



the surveys in setting out the estimates of crop yields and associated standard errors during the year 2014-15.

5. **13,08,025** crop cutting experiments covering 55 food and 16 non-food crops were planned in different States/UTs during 2014-15 as compared to **11,16,906** experiments planned in the previous year under CES. The analysis made and conclusions drawn in the report are primarily based on the data and information furnished by the SASAs of the concerned States/UTs. It is, however, pertinent to mention here that the information pertaining to States of Karnataka and Maharashtra could not be included for want of complete information on CES from the respective State Governments. The related information pertaining to these two above mentioned states could not be included in our 66th issue for the year 2013-14 also for the same reason. The support and co-operation received from State Agriculture Statistics Authorities (SASA), the Chairpersons and members of High Level *Coordination* Committee (HLCC) of various States in the presentation of the report is gratefully acknowledged.
6. Suggestions for further improvement in the content and presentation of the Report are welcome.

April, 2018

Rakesh Kumar
Addl. Director General



प्रकाशन से जुड़े अधिकारीगण

1.	श्री एस.आर. जोशी	उप महानिदेशक
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3.	श्री आलोक कुमार	उप निदेशक
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6.	श्री प्रमेन्द्र	कनिष्ठ सांख्यिकी अधिकारी

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A. Agricultural Statistics Schemes & NSSO

1. National Sample Survey Office (NSSO)

The Directorate of National Sample Survey (NSS), established in the year 1950, was reorganized into the present NSSO under the Government of India's Resolution of 5th March, 1970. The organisation now consists of four functional Divisions with a Director General (DG) at the apex level. Each of the Divisions viz. (i) Survey Design and Research Division, (ii) Data Processing Division (iii) Coordination and Publication Division and (iv) Field Operations Division is headed by an Additional Director General. The Field Operations Division (FOD) undertakes the field work relating to Socio - Economic Surveys, Industrial Surveys, Surveys for collection of retail prices in urban and rural areas, Urban Frame Survey for updation of area frame in urban areas for use in Socio-Economic Surveys & Methodological Surveys/Studies. Agriculture Statistics Headquarters of Field Operation Division is engaged with Agricultural Surveys under the scheme for Improvement of Crop Statistics (ICS).

2. Timely Reporting Scheme (TRS)

The Ministry of Agriculture initiated TRS in 1968-69 in land record states in order to reduce the time lag between completion of sowing and the availability of estimates of area sown and similarly between the completion of harvesting and availability of estimates of production in respect of important crops.

3. Establishment of an Agency for Reporting Agricultural Statistics (EARAS)

The Ministry of Agriculture sponsored a scheme in 1975-76 for Establishment of an Agency for Reporting Agricultural Statistics (EARAS) in three permanently settled States of Kerala, Odisha & West Bengal and later extended it to Arunachal Pradesh, Nagaland, Sikkim and Tripura.

4. General Crop Estimation Surveys (GCES)

Crop Estimation Surveys (CES) are conducted by States and Union Territories for obtaining sufficiently precise estimates of average yield of principal food and non food crops using the objective technique of Crop Cutting Experiments (CCE) by applying scientific sampling method.

5. Improvement of Crop Statistics (ICS)

The scheme of ICS which had a modest beginning in the year 1973-74 reached to the optimum coverage in subsequent years. The scheme is closely related to the schemes of TRS, EARAS and GCES and was initiated with the objective of pointing out deficiencies in the system of collection of area & yield statistics through the joint efforts of the NSSO (FOD) & State Agricultural Statistics Authority (SASA) and to suggest remedial measures. NSSO (FOD) is also entrusted with the responsibility of providing technical guidance and assistance to the states in developing suitable survey techniques for obtaining timely and reliable estimates of crop area & yield and imparting training to State Government field personnel. The scheme is operation in 21 states and 1 U.T at present covering about 44 crops.

B. Concepts & Definitions

1(a). Food crops

The food crops cover Cereals, Pulses & Beans, Small Millets, Condiments & Spices, Fruits & Vegetables and Sugar (Sugarcane & Cocoa).

1(b). Non-Food crops

The non-food crops include Oil-seeds, Fibres and Drugs & Narcotics.

2(a). Temporarily settled States

States and Union Territories which have been cadastrally surveyed and where area & land use statistics form a part of the land records maintained by the revenue agency are referred to as “Temporarily Settled States”. This system is followed in 18 States namely, Andhra Pradesh, Assam (excluding hill districts), Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttarakhand and Uttar Pradesh, and the five Union Territories of Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Delhi and Puducherry, covering about 86% of area.

2(b). Permanently settled States

Kerala, Odisha and West Bengal are categorised as “Permanently Settled States”, as there is no land revenue agency at the village level and crop area & land use statistics are collected through a scheme of sample surveys. These States cover about 9% of area.

2(c). Other States

Parts of Assam (hill districts), Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura and the two Union Territories of Andaman & Nicobar Islands and Lakshadweep, for which only “conventional” estimates are available, cover about 5% of area.

3. Seasons

Agricultural Year can be broadly divided into the following three major seasons based on the periods of sowing and harvesting:

Kharif	-	July to December
Rabi	-	January to March
Summer (or Zaid Rabi)	-	April to June

4. Reference period

The reference period for a survey is Agricultural Year (July to June) e.g. year 2014-15 is July 2014 to June 2015.

5. Crop mixtures

Two or more crops of the same season grown in a patch with the constituent crops being sown intermixed or in different rows, will constitute a crop mixture.

6. Geographical Area

India has an area of 3,287,263 sq. km. It is the seventh largest country of the world after Russia, Canada, China, the U.S.A., Brazil and Australia. India accounts for about 2.4 per cent of the total surface area of the world.

7. Nine fold classification of Area

- a. Forests

Area not available for cultivation

- b. Area under non-agricultural uses
- c. Barren and Unculturable land whether in isolated blocks or within cultivated holding.

Other uncultivated land excluding Current fallow

- d. Permanent pastures and other grazing lands
- e. Miscellaneous tree crops and groves not included in the net area sown
- f. Culturable waste

Fallow land

- g. Fallow land other than current fallow
- h. Current fallow: This represents cropped area which is kept fallow during the current year.
- i. Net area sown: This represents the total area sown with crops and orchards. Area sown more than once in the same year is counted only once.

8. Gross Cropped Area

This represents the total area sown once and/or more than once in a particular year, i.e. the area is counted as many times as there are sowings in a year. This total area is also known as total cropped area or total area sown.

9. Area Sown more than once

This represents the areas on which crops are cultivated more than once during the agricultural year. This is obtained by deducting Net Area Sown from Gross Cropped Area.

10. Irrigated Area

The area is assumed to be irrigated for cultivation through sources such as canals (Govt & Private), tanks, tube-wells, other wells and other sources.

11. Cropping Intensity

Cropping intensity refers to raising of a number of crops from the same field during one agricultural year; it can be expressed as

$$\text{Cropping Intensity} = (\text{Gross Cropped Area} / \text{Net Sown Area}) \times 100$$

12. Recovery ratio

The first weight of the produce taken out from the plants i.e. cobs in case of Jowar, Bajra, Maize, weight of grains in case of Paddy, Wheat, Barley, Gram etc, the ratio between the cobs to grain (wet), Paddy to rice (after taking away husk) are known as recovery ratio.

- i) **Driage ratio:** The ratio of weight between the wet grains or produce to dried and marketable produce is known as Driage ratio.
- ii) **Ginning ratio:** The weight of cotton to lint Cotton without seeds (i.e. cotton minus seeds) is known as ginning ratio. This ratio is obtained from ginning factories.

- iii) **Net weight:** In Agricultural Statistics, the net weight will always be more than gross weight. While reporting the weight of crop (produce) when sown in mixture, the percentage of the experimental crop sown in that mixture is also given. In this case, one has to work out the produce had it been sown pure.

13. Moisture meter

Moisture meter is an instrument to measure the moisture content in the grains from which the drriage ratio can be calculated.

14. Improved Agricultural Practices

Agricultural practices include irrigation, crop rotation, application of fertilizers & pesticides, and the domestication of livestock. Improved agricultural practices could increase production, which can allow the population to feed itself without imports, or it might allow excess production so that the surplus can be sold to have increased buying power for other goods and services. The improved practices can reduce the cost of fertilizer and use of fuel. Also, some practices preserve the land environmentally, such as reducing erosion, etc.

15. Conventional Method of Yield Estimation :-

(a) Annawari system

Under 'traditional method', the yield per hectare is obtained either in terms of a direct estimate in quintals per hectare by eye-appraisal or as the product of 'normal yield' and the 'condition factor'.

(b) Normal Yield

The normal yield is somewhat vaguely defined as the yield which is typical of the area. It is considered to be the yield on the average soil in a year of average character. The normal yield is the yield for which past experiences have shown to be most occurring crop yield. This is the typical crop yield of the local area, which a cultivator has a right to expect and with which he is content, while if he gets more, he has reason to rejoice and if he gets less he has reason to complain. Normal yields have been fixed usually for each district empirically on the basis of past experience.

(c) Condition factor

The condition factor is an estimate of the crop yield in a given year in relation to normal yield and is usually fixed in terms of annas, with a specified number of annas, with a specified number of annas representing normal yield.

(d) Calculation of yield

The lower officers of Revenue and Agriculture departments make a guess of the condition factor of the crop in their jurisdiction on the basis of their impression through personal observations and enquiries with local cultivators and pass on their experience.

16. Statistical Methods of Yield Estimation:-

General Crop Estimation Surveys (GCES)

GCES consists of performing a specified number of crop cutting experiments in randomly selected fields. Crop cutting experiment conducted under well designed estimation survey is an effective technique for estimating the average yield by selecting the field, randomly locating a plot of a specified size, harvesting, threshing, weighing and recording the weight of the produce from the plot. The sampling design of GCES is that of stratified multistage random sampling, in which Taluks/CD Blocks/Anchals are taken as strata, villages within the stratum as FSUs, and plots of specified size within the field (survey numbers/sub-survey numbers) as ultimate units of sampling. In the land record states, villages selected under TRS in a stratum for the current year forms the sampling frame of FSUs for GCES.

17. Conversion factor

Converting the yield from Grams per plot to Kg. per hectare

$$\frac{\text{Weight of produce in Gms.}}{\text{Plot size in Sqr. Mtrs.}} \times 10$$

18. Standard Error

The calculation of standard errors and their study is helpful in assessing the adequacy of the sample size, trend of changes in yield rates and in planning other allied studies. It is calculated as under:-

$$\% \text{ Standard Error} = \frac{\text{S.E. of the Estimate}}{\text{Estimate}} \times 100$$



कार्य सारांश

प्रत्येक राज्य/जिला/प्रभाग या ऐसे प्रशासनिक स्तरों के लिए, प्रमुख खाद्यान्न तथा गैर-खाद्यान्न फसल का प्रति हैक्टेयर औसत उपज आंकलन जो कि फसल उत्पादन आंकलन की दृष्टि से बहुत महत्वपूर्ण है, फसल आंकलन सर्वेक्षण कार्यक्रम के अन्तर्गत वैज्ञानिक रूप से नियोजित फसल कटाई प्रयोगों से प्राप्त किया जाता है। वर्ष 2014-15 के लिए फसल प्राक्कलन सर्वेक्षण की मुख्य विशेषताएँ निम्न हैं:

1. वर्ष 2014-15 के दौरान फसल प्राक्कलन सर्वेक्षण कार्यक्रम के अन्तर्गत 55 खाद्यान्न तथा 16 गैर-खाद्यान्न फसलों को शामिल किया गया। **(पैरा-3.3)**

2. आन्ध्र प्रदेश, बिहार, गुजरात, झारखंड, कर्नाटक, महाराष्ट्र, राजस्थान तथा तमिलनाडु में कुछ महत्वपूर्ण फसलों के लिए दो परतीय के साथ-साथ चार परतीय स्तरीकरण को अपनाया गया है, जबकि मध्य प्रदेश तथा छत्तीसगढ़ में धान तथा गेहूँ के लिए तीन परतीय वर्गीकरण को अपनाया गया। **(पैरा-4.4 और सारणी.3)**

3. गत वर्ष के कुल 11,16,906 प्रयोगों की तुलना में वर्ष 2014-15 के लिए विभिन्न फसलों के कुल प्रयोग 13,08,025 नियोजित किये गए। प्रतिदर्श आकार में 1,91,119 प्रयोगों की वृद्धि खाद्यान्न फसलों में 1,74,588 प्रयोगों तथा गैर- खाद्यान्न फसलों में 16,531 प्रयोगों की वृद्धि के कारण हुई। **(पैरा-7.1)**

4. खाद्यान्न फसलों के लिए 11,23,610 प्रयोगों में से 48,166 (4.29%) प्रयोग केवल 16 फल तथा सब्जी की फसलों पर 13 राज्यों में नियोजित किये गये। **(पैरा-7.5 और परिशिष्ट-II)**

5. फसल कटाई प्रयोगों के संचालन में लगे प्राथमिक कर्मियों के लिए नियमित प्रशिक्षण कार्यक्रमों को वर्ष 2014-15 के दौरान सभी राज्यों/संघ राज्यों में आयोजित किया गया। छत्तीसगढ़ (सांख्यिकी/कृषि) हिमाचल प्रदेश (खरीफ में राजस्व), कर्नाटक (कृषि), मध्य प्रदेश (राजस्व), उत्तरप्रदेश (खरीफ में राजस्व), उत्तराखंड (राजस्व) तथा दादर एवं नागर हवेली (विकास एवं योजना) प्रशिक्षण केन्द्रों में विभिन्न एजेंसियों की उपस्थिति अखिल भारतीय औसत (88 प्रतिशत) से कम थी। अप्रशिक्षित कर्मचारियों द्वारा फसल कटाई प्रयोगों का क्षेत्र कार्य किये जाने से इसकी वस्तुनिष्ठता पर विपरीत प्रभाव पड़ता है। अनुपस्थित रहे प्राथमिक कर्मियों के लिए अलग से प्रशिक्षण कार्यक्रम आयोजित करने की सम्भावनाओं को और अधिक मुहैया करवाए जाने की आवश्यकता है। **(पैरा-8.2)**

6. फसल कटाई प्रयोग के संचालन में कार्यरत प्राथमिक कर्मियों को प्रशिक्षण देने के लिए आयोजित कुल 1433 प्रशिक्षण केन्द्रों में से 713 (49.75%) प्रशिक्षण केन्द्रों में रा.प्र.स.का. के कर्मचारियों ने पर्यवेक्षक के रूप में भाग लिया और 55 (3.84%) केन्द्रों में प्रशिक्षण अधिकारी के रूप में भाग लिया। **(पैरा-8.3)**

7. फसल प्राक्कलन सर्वेक्षण के अन्तर्गत नियोजित प्रयोगों में से लगभग 16 प्रतिशत प्रयोगों का ही पर्यवेक्षण किया गया जिसमें रा.प्र.स.का. द्वारा कार्यान्वित फसल सांख्यिकी सुधार योजना के अंतर्गत 1 प्रतिशत पर्यवेक्षण भी सम्मिलित है। आन्ध्र प्रदेश, बिहार, छत्तीसगढ़, हरियाणा, हिमाचल प्रदेश, जम्मू एवं कश्मीर, मध्य प्रदेश, मेघालय, पंजाब, राजस्थान, उत्तराखंड तथा पश्चिम बंगाल में राज्य सांख्यिकी विभाग द्वारा कुल पर्यवेक्षण 10 प्रतिशत से कम था।
(पैरा-9.2)

8. फसल सांख्यिकी सुधार योजना के अंतर्गत फसल कटाई प्रयोगों पर प्रतिदर्श जांच के निष्कर्ष यह दर्शाते हैं कि केवल 53% फसल कटाई प्रयोग निर्धारित कार्यप्रणाली के अनुसार सम्पन्न किए गए। इन निष्कर्षों को नियमित रूप से विभिन्न राज्य कृषि सांख्यिकी प्राधिकारों के ध्यान में लाया गया। समस्या वाले क्षेत्रों को उच्च स्तरीय समन्वय समिति की बैठकों में चर्चा के दौरान सामने लाने पर भी पर्याप्त जोर दिया गया है।
(पैरा-9.5)

9. वर्ष 2014-15 के दौरान फसल प्राक्कलन सर्वेक्षण के अंतर्गत कुल प्रत्युत्तर 94 प्रतिशत था। असम, बिहार, छत्तीसगढ़, हरियाणा, जम्मू एवं कश्मीर, हिमाचल प्रदेश, झारखण्ड, मध्य प्रदेश, पश्चिम बंगाल तथा दादर एवं नगर हवेली में प्रत्युत्तर 90 प्रतिशत से कम था। फसल अनुमानों की विश्वसनीयता को बढ़ाने हेतु इन सभी राज्यों के राज्य प्राधिकारों को प्रत्युत्तर बढ़ाने के लिए उचित उपचारी उपाय अपनाए जाने की आवश्यकता है।
(पैरा-10.2)

10. अप्रत्युत्तरों को नियंत्रित करने हेतु प्रभावी उपचारी कदम उठाने के उद्देश्य से यह आवश्यक है कि क्षेत्र स्तर पर अप्रत्युत्तर तथा सारणीयन स्तर पर प्रयोगों को रद्द करने के कारणों का विश्लेषण किया जाए।
(पैरा-10.6)

11. फसल प्राक्कलन सर्वेक्षण 2014-15 के परिणामों से स्पष्ट होता है कि मक्का, गेहूँ, जौ, अरहर, राई एवं सरसों तथा कपास को छोड़ कर ज्यादातर महत्वपूर्ण फसलों में पिछले वर्ष की तुलना में अखिल भारतीय स्तर पर उपज दर अनुमानों में बढ़ौत्तरी आयी है।
(पैरा-11.3)

12. फसलों के उपज दरों के अनुमानों का मानक त्रुटि प्रतिशत, आंध्र प्रदेश में तिल (रबी) छत्तीसगढ़ में ज्वार एवं कोदो-कुटकी, कर्नाटक में ज्वार (ग्रीष्म उच्च उपज सिंचित); बाजरा (खरीफ स्थानीय); मक्का (खरीफ स्थानीय सिंचित व असिंचित); रागी (खरीफ स्थानीय व रबी उच्च उपज असिंचित); आलू (खरीफ व रबी); प्याज (रबी); मूंगफली (रबी असिंचित), पश्चिम बंगाल में अरहर एवं अलसी और महाराष्ट्र में तिल (रबी) फसल के लिए ज्यादा (10 प्रतिशत से अधिक) पाया गया। महत्वपूर्ण फसलों के आंकलन में अपेक्षित परिशुद्धता सुनिश्चित करने के लिए या तो प्रतिदर्श आकार बढ़ाकर या अप्रत्युत्तर की दर को कम कर मानक त्रुटि को घटाने के लिए समुचित कदम उठाने की आवश्यकता है।
(पैरा-11.5 और सारणी 17)

13. उपज दरों के स्तरीकरणोत्तर विश्लेषण को कुछ राज्यों में कुछ फसलों पर लागू किया जा रहा है। यह आवश्यक है कि इस विश्लेषण के क्षेत्र को सभी राज्यों में अधिक से अधिक फसलों पर लागू किया जाए।
(पैरा-12.2)



EXECUTIVE SUMMARY

Estimates of average yield per hectare of principal food and non-food crops for each State/District/Division or such administrative levels which are of importance from the point of view of working out estimates of crop production, are derived from scientifically planned crop cutting experiments under the programme of Crop Estimation Surveys. The salient features of the Crop Estimation Surveys for the year 2014-15 are highlighted below:-

1. 55 food and 16 non-food crops were covered under the programme of Crop Estimation Surveys (CES) during the year 2014-15. **(Para - 3.3)**
2. Two-fold as well as four-fold stratification has been adopted for some important crops in Andhra Pradesh, Bihar, Gujarat, Jharkhand, Karnataka, Maharashtra, Rajasthan and Tamil Nadu. In Madhya Pradesh and Chhattisgarh, however, a three fold classification has been adopted for Paddy and Wheat. **(Para - 4. 4 & Table-3)**
3. A total of 13,08,025 crop cutting experiments were planned on different crops during 2014-15 as compared to 11,16,906 experiments in the previous year. The increase of 1,91,119 experiments in the sample size is due to increase of 1,74,588 experiments under food crops and increase of 16531 experiments under non- food crops. **(Para -7.1)**
4. Out of 11,23,610 experiments for food crops, only 48,166 (4.29 %) experiments were planned on 16 fruits and vegetable crops covered in 13 States. **(Para - 7.5 & Appendix-II)**
5. Regular programmes of training for primary workers engaged in the conduct of crop cutting experiments were organised in all the States/UTs during 2014-15. Attendance of various agencies at the training centers was less than All India average (88 %) in Chhattisgarh (Statistical/Agriculture), Himachal Pradesh (Revenue in Kharif, Rabi), Karnataka (Agriculture), Madhya Pradesh (Revenue), Uttarakhand (Revenue), Uttar Pradesh (Revenue in Kharif) and Dadra & Nagar Haveli (Development & Planning). Conducting of the experiments by untrained personnel would impact its objectivity adversely. The feasibility of organising separate training for the absentee primary workers needs to be explored. **(Para - 8.2)**
6. In all, out of the 1433 training centers, NSSO officials participated in 713 (49.75%) centers as observers and imparted training in 55 (3.84 %) centers. **(Para-8.3)**
7. 16% of the experiments planned under CES during 2014-15 were supervised. This includes 1% experiment which were supervised by the NSSO under Scheme of Improvement of Crop Statistics. The total supervision by State Statistical Department was below 10% in Andhra Pradesh, Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Meghalaya, Punjab, Rajasthan, Uttarakhand and West Bengal. **(Para-9.2)**

8. The findings of the sample check on crop cutting experiments under the Scheme of Improvement of Crop Statistics show that only 53% sample experiments were conducted as per the prescribed procedure. These findings are brought to the notice of the various State Agricultural Statistics Authorities (SASAs) on a regular basis. Adequate emphasis is also given to focus on the problem areas in the deliberations of the High Level Co-ordination Committee meetings of the States. **(Para-9.5)**
9. In 2014-15, the overall response under CES was 94 percent. In Assam, Bihar, Chhattisgarh, Haryana, Jammu & Kashmir, Himachal Pradesh, Jharkhand, Madhya Pradesh, West Bengal and Dadra & Nagar Haveli, the response was below 90 per cent. Adequate remedial measures need to be taken by SASAs of these States to improve the response so as to increase the reliability of the crop yield estimates. **(Para-10.2)**
10. With a view to taking effective remedial measures to control non-response, it is necessary to analyse the reasons for non-response at field level and rejection of experiments at the tabulation stage. **(Para - 10.6)**
11. The results of CES for 2014-15 reveal that the yield rate estimates at All-India level increased as compared to the previous year for majority of important crops except Maize, Wheat, Barley, Redgram, Rape & Mustard and Cotton. **(Para-11.3)**
12. The percentage standard error of the estimates of yield rate of crops was found to be high (more than 10%) in Andhra Pradesh for Sesamum (Rabi), Chhattisgarh for Jowar & Kodon Kutki, Karnataka for Jowar (Sum Hyv.Ir.), Bajra (Kharif Tr.), Maize (Kharif Tr. Ir., Kharif Tr. UI), Ragi (Kharif Tr., Rabi Hyv. UI), Potato (Kh. & Rabi), Onion (Rabi), Groundnut (Rabi UI), West Bengal for Redgram & Linseed and Maharashtra for Sesamum Rabi. Suitable steps need to be taken to reduce the standard error either by increasing the sample size or reducing the rate of non-response to ensure the desired precision in estimates at least in respect of important crops. **(Para-11.5 & Table-17)**
13. Post-stratification analysis of yield rates as is being adopted by some States for a few crops. It is necessary to extend the scope of this analysis to more crops in all the States. **(Para-12.2)**



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INTRODUCTION

1

- 1.1 Agricultural sector continues to play a dominant and vital role in the Indian Economy by contributing a sizable share in the National Product and absorbing bulk of the economic activity pursued by majority of the population. In the context of primacy of Agriculture, timely and reliable statistics on crop production is of vital importance and significance. Crop Production has two major components viz., Area sown and average Yield rate. The primary responsibility for collection of statistics on these two aspects rests with the State/UT Governments. Statistics of land use and area under crops are obtained as by-product of land revenue administration in respect of the land record States/UTs, commonly known as Temporarily Settled States. On the other hand, the Permanently Settled States, viz., Kerala, Odisha and West Bengal are reporting land utilisation and area statistics based on sample surveys. At present, over **95 percent** of foodgrain production is estimated on the basis of yield rates obtained from scientifically planned crop cutting experiments conducted under the programme of Crop Estimation Surveys (CES) carried out by the State/UT Governments.
- 1.2 In 1962, Agriculture Statistics Division of Directorate of National Sample Survey started publication of systematic series of reports on its work and the first such review was published in September 1964 containing consolidated results of Crop Estimation Surveys on principal food crops carried out in the States from 1949-50 to 1960-61. Field Operations Division (FOD) of National Sample Survey Office (NSSO) continues to consolidate the results of crop cutting experiments under Crop Estimation Survey every year on the basis of information received from various State Government/UTs. The report attempts to bring out the consolidated results on principal food and non food crops. The present report is Sixty Seventh in the existing series and relates to the Agriculture year 2014-15.



OBJECTIVE

2

2.1 The primary objective of Crop Estimation Surveys is to obtain fairly reliable estimates of average yield rates of principal food and non-food crops for each State and Union Territory and for lower administrative unit such as Block, District etc. which are important from the point of view of crop production. The estimates of yield rates, thus arrived at, are generally adopted for the compilation of official estimates of crop production and used for the purposes of planning, policy formulation and implementation.

2.2 Under the programme of Crop Estimation Surveys, data on yield rates are collected through organising and conducting crop cutting experiments by applying statistical techniques of random sampling. The crop cutting experiment consists of identification & marking of an experimental plot of a specified size & shape in a selected field on the principle of random sampling, harvesting & threshing the produce and recording the weight of the produce. For a part of the experimental produce or in some cases for the entire produce of experiment, further processing of the harvested produce is done for determining the percentage recovery of dry grains or the marketable produce. For Paddy and Cotton, the yield is expressed in terms of Rice and Lint respectively after applying the standard recovery ratio and ginning ratio.



COVERAGE

3

- 3.1 During 2014-15, Crop Estimation Surveys (CES) was conducted in 20 land record States/UTs, 3 EARAS States and 6 other States / UTs as given in **Table-1**.

Table –1: Details of CES coverage during 2014-15

States in which C E S was conducted	
Land Record States/UTs	1. Andhra Pradesh
	2. Assam
	3. Bihar
	4. Chhattisgarh
	5. Gujarat
	6. Haryana
	7. Himachal Pradesh
	8. Jammu & Kashmir
	9. Jharkhand
	10. Karnataka
	11. Madhya Pradesh
	12. Maharashtra
	13. Punjab
	14. Rajasthan
	15. Tamil Nadu
	16. Uttar Pradesh
	17. Uttarakhand
	18. Delhi
	19. Dadra & Nagar Haveli
	20. Puducherry
EARAS States	1. Kerala
	2. Odisha
	3. West Bengal
Other States and UTs	1. Andaman district of A & N Islands
	2. Daman & Diu
	3. Goa
	4. Manipur
	5. Meghalaya
	6. Tripura
States/UTs in which CES was not conducted	
1. Arunachal Pradesh	4. Mizoram
2. Chandigarh	5. Nagaland
3. Lakshadweep	6. Sikkim



- 3.2 Details of crops for which crop cutting experiments under CES were planned in States/UTs together with the year of initiation of the survey and adoption of CES results for estimates of production are given in **Appendix-I**. It also gives information about the stratum, pre-stratification, if any, made in different States and size & shape of the plot adopted for the crop cutting experiments. It is evident that there is no uniformity among the States in respect of the plot size and shape even for major crops. Attempts need to be made to adopt the uniform shape and size of the cuts at least for important crops.
- 3.3 During the agricultural year 2014-15, a total of 71 crops comprising 55 food and 16 non-food crops were covered under CES in different States/UTs. The details of different categories of crops are given in Table –2 and also presented in Chart I & II.

Table - 2: Crops covered under CES during 2014-15

S. No.	Particulars	No. of crops (%)
Food Crops		
1	Cereals (Paddy, Jowar, Bajra, Maize, Ragi (Mandua), Wheat, Barley)	7 (13%)
2	Pulses & Beans (Gram (Bengalgram), Redgram (Tur/Arhar), Greengram (Moong), Blackgram (Urd), Lakh (Khesari), Masur, Horsegram (Kulthi), Peas, Moth, Cowpea (Lobia), Guar, Chowla	12 (22%)
3	Small Millets (Sawan (Jhangora), Korra, Kodon-Kutki (Kodan), Navane, Save, Samai, Varagu)	7 (13%)
4	Condiments & Spices (Chillies, Cumin, Fennel, Arecanut, Pepper, Saffron, Turmeric, Ginger, Garlic, Coriander, Methi)	11 (20%)
5	Fruits & Vegetables (Lichi, Banana, Mango, Guava, Jackfruit, Cashewnut, Tapioca, Pine Apple, Potato, Onion, Brinjal, Tomato, Cauliflower, Papaya, Plantain, Avare (Sem))	16 (29%)
6	Sugar (Sugarcane & Cocoa)	2 (3%)
	Total	55
Non –Food Crops		
1	Oil Seeds (Groundnut, Sesamum (Gingelly), Castor, Rape & Mustard, Linseed (Alsi), Safflower, Sunflower, Soyabean, Tara Meera, Coconut, Niger)	11 (69%)
2	Fibres (Cotton, Jute, Mesta)	3 (19%)
3	Drugs & Narcotics (Tobacco, Isabgol)	2 (12%)
	Total	16



Chart - I

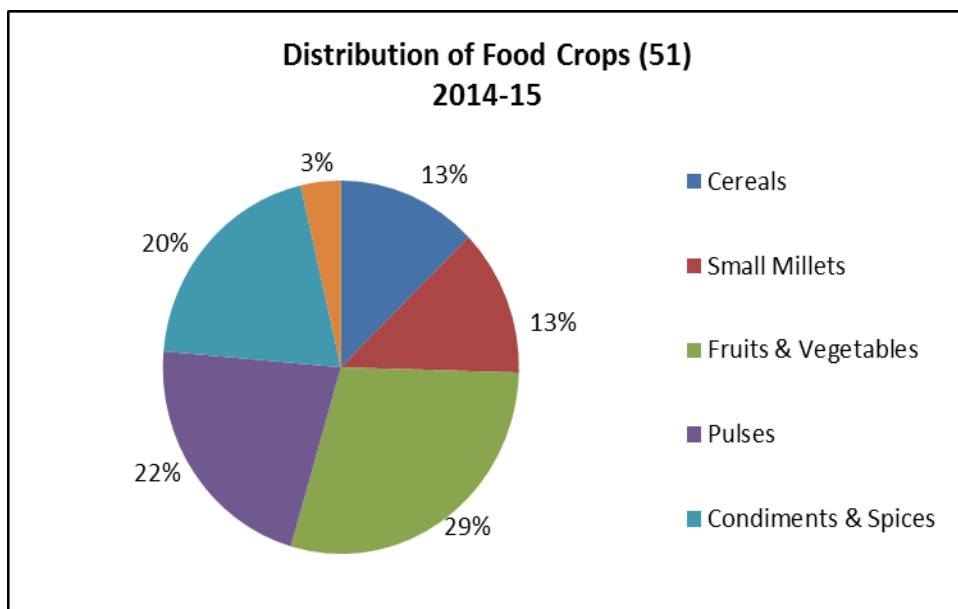
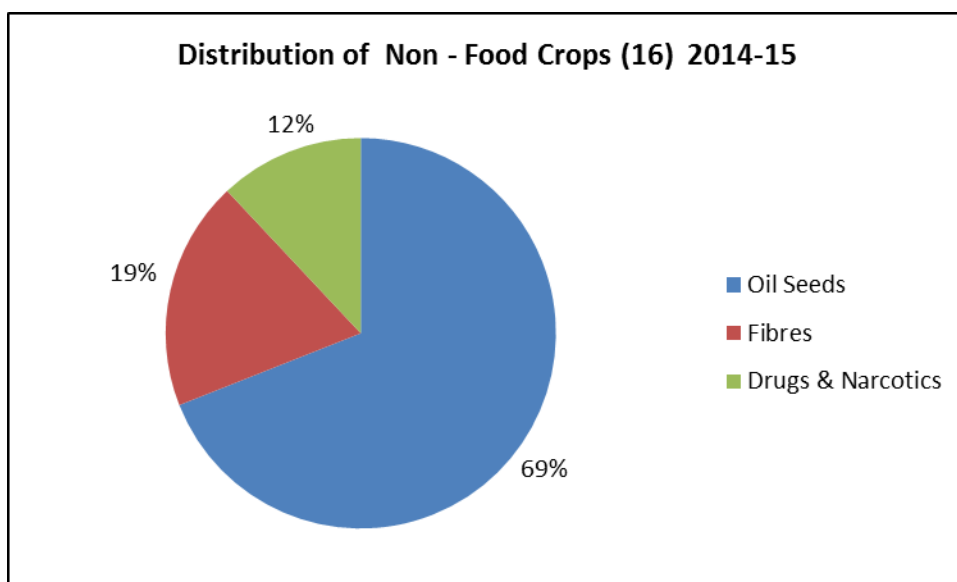


Chart – II





3.4 The Field Operations Division (FOD) of the National Sample Survey Office (NSSO) continuously reviews the coverage of crops under CES in States / UTs from the point of view of its importance, relative significance etc. measured in terms of share in All India production. No addition and deletion of crops was done during 2014-15 as compared to the crops covered during 2013-14.



SAMPLING

4

- 4.1 The sampling design generally adopted for the CES during 2014-15 is that of Stratified Multi-Stage Random Sampling, with Tehsils/Taluks/RI circles/CD Blocks/Anchals etc. as Strata and revenue village within a Stratum as the First Stage Unit of sampling, survey number/field within each selected village as the Second Stage Unit of sampling and experimental plot of a specified shape and size as the ultimate unit of sampling. **Appendix -I** inter-alia, gives the stratum, shape and size of the experimental plot for each crop in different States/UTs. In each selected primary unit of sampling, generally two survey numbers/fields growing the experimental crop are selected for conducting crop cutting experiments. However, in Dadra and Nagar Haveli, three survey numbers/ fields are selected instead of two.
- 4.2 Generally, 80-120 experiments are conducted for a crop in a major district, where a district is considered as major for a given crop if the area under the crop in the district exceeds 80,000 hectares or lies between 40,000 and 80,000 hectares but exceeds the average area per district in the State. Otherwise, district is considered as minor for a given crop. Experiments in minor districts are so adjusted that the precision of the estimate is fairly high and the workload on the field staff is manageable. On an average, about 44 or 46 experiments are planned in a minor district. The number of experiments allotted to a district is distributed among the strata within the district roughly in proportion to the area under the crop in the stratum.



- 4.3 In the 3 non-land record States of Kerala, Odisha and West Bengal, both area and yield are estimated on the basis of sample surveys. The crop cutting experiments are planned in a sub-sample of the primary units selected for the purpose of area enumeration. While the general procedure for selection of sampling units at different stages is the same as that in other States, some special features in these States need specific mention. In **Kerala**, block/city corporation or municipalities with an area of 10 sq. kms. and above are treated as separate stratum. Municipalities with an area of less than 10 sq. kms. are merged with adjoining blocks and treated as a single stratum. These blocks are divided into a number of Investigator Zones depending on the area of a block, nature of land etc. City corporation area is divided into three Investigator Zones. Each Municipality with an area more than 10 sq. kms. is treated as a single Investigator Zone. The number of crop cutting experiments conducted in each Investigator Zone is 8 per season for Paddy, 3 each for Coconut and Banana, and 2 each for Tapioca, Arecanut, Cashewnut, Pepper, Plantain, Sesamum and Jackfruit in an agricultural year. In Municipal area having separate Investigator Zone, 10 crop cutting experiments are conducted in respect of Paddy per season and 5 for Coconut per year. For City Corporation areas, 8 experiments for Paddy per season and 5 for Coconut per year in one Investigator Zone are conducted. In **Odisha**, crop-cutting experiments for Paddy are conducted in 40% of EARAS villages having even serial nos. except serial nos. ending with “Zero” i. e. 10, 20, etc. in each block and for other crops, 50% of sample villages occurring against the even serial nos. i.e. 2,4,6, etc. during Autumn and Winter Seasons. In Summer season, all the villages selected for Area Enumeration Survey under EARAS are covered under CES for Paddy and other crops. For Paddy, the crop cutting experiments are planned in proportion to crop area subject to minimum of two and maximum of four experiments in a village. For other crops, only one experiment is conducted in a village. In the State of **West Bengal**, the area and yield surveys conducted by the Bureau of Applied Economics & Statistics (BAE&S) on the basis of grid sampling followed till 1985-86, has been dispensed with and the Scheme “Establishment of an Agency for Reporting Agricultural Statistics” (EARAS) has become not only the primary source for area statistics but also the source to provide the frame for selection of villages for conduct of crop cutting experiments under CES in the State. Since Kharif 1996-97,



the frame for sampling of plots for CCEs is prepared by BAE&S on its own. Ten mouzas out of all the EARAS mouzas in a block are randomly selected for CCE. A 10% systematic sample (subject to a minimum of 100 plots) of all the plots in a selected mouza, is taken and the type of land use for each plot in the sample is identified. In this way, a sub-frame of plots cultivating each crop is prepared for each such mouza. If the number of plots cultivating a crop in a mouza is too small, all the plots cultivating the crop are enumerated. The plots for conducting CCEs are sampled out of this sub-frame. In all, 20 plots are taken in the form of two inter-penetrating sub-samples of size 10 each for each block for a crop. On the basis of these, two independent estimates of yield rate are obtained for a block and these are later combined to give an overall estimate.

- 4.4 In some States, the sampling design takes into account the stratification according to inputs viz. Irrigation and Seed variety for major crops. Details of such stratification are given **Table-3**. While the idea of evolving a general design for stratification needs examination, it is felt that there would be practical difficulties in attempting stratification according to variety mainly due to non-availability of required data in the present system of area statistics at different levels.



Table - 3: Stratification according to inputs adopted in sampling design during 2014-15

Sl. No.	State	Crop for which pre- stratification is done according to		
		Irrigation & seed	Irrigation	Seed
1.	Andhra Pradesh	-	Paddy (Kharif & Rabi)	-
2.	Bihar	Paddy (Agh.) & Wheat	Paddy (Bha.) & Sugarcane	Paddy (Gar.) & Maize (Bha. & Gar.)
3.	Chhattisgarh	Paddy* & Wheat*	-	-
4.	Gujarat	-	Paddy (Kharif), Wheat & Cotton	-
5.	Jharkhand	-	-	Paddy (Agh.) & Wheat
6.	Karnataka	Paddy (Kharif, Rabi.* & Sum.*), Jowar (Kharif Rabi & Sum.**), Bajra (Kharif), Maize (Kharif, Rabi & Sum.**), Ragi (Kharif, Rabi & Sum.***) & Wheat	Groundnut [@] (Kharif, Rabi & Sum.), Cotton (Kharif), Gram, Sunflower (Kharif, Rabi & Sum. *)	Maize (Sum.)
7.	Madhya Pradesh	Paddy* & Wheat*	-	-
8.	Maharashtra	-	Paddy (Kharif), Jowar (Rabi), Bajra, Wheat & Cotton.	-
9.	Rajasthan	-	Gram & Wheat	-
10.	Tamil Nadu	-	Jowar, Bajra, Maize, Ragi, Groundnut, Sesamum & Cotton.	-

* Pre –stratification according to seed is only for irrigated.

@ Pre-stratification is only in the relevant districts and not for the State as a whole.

** Pre –stratification according to irrigation is only for HYV.



ORGANISATION

5

5.1 Assignment relating to planning of survey, training of field staff, organisation of field work and tabulation of data is the responsibility of the State Agricultural Statistics Authority (SASA) in each State/UT. The SASA in the State is either the Director of the Bureau/Directorate of Economics and Statistics or the Director of Agriculture or the Director of Land Record depending on the administrative arrangements in each State/UT. The primary field work of the survey is generally entrusted to the staff of the State Department of Revenue, Agriculture, Community Development or Statistics, exclusively or as a part of their normal duties. In the five States viz. Assam, Kerala, Meghalaya and Odisha and in the UT of Puducherry, the primary work during 2014-15 was carried out by trained whole time staff of the Department of Statistics. **Appendix- III** gives State-wise information about the primary agency assigned with the task of conduct of crop cutting experiments on different crops. Workload of the primary field staff of different agencies in the State/UT in the two seasons and also for the entire year is shown in **Appendix - IV**. It is observed that at all India level, 6.5 percent and 10.3 percent of the primary workers had to conduct more than 12 experiments during Kharif and Rabi respectively. Likewise, 8.7 percent of the primary workers had to conduct more than 20 experiments annually during 2014-15. As per the detail given in Table-5, it is observed that the workload of primary worker during the year was high (more than the All India figures) in Goa, Kerala, Madhya Pradesh, Odisha, West Bengal, Dadra & Nagar Haveli and Puducherry.



Table - 4: Details of the high workload of primary workers during 2014-15

State	Agency for field work	Total strength	No. of primary workers conducted more than		
			12 Experiments Kharif	Rabi	20 Expts. Annually
Goa	Agriculture Kh.	16	16	-	16
	Agriculture Rabi	21	-	21	21
Kerala	Statistical	1065	-	-	811
Madhya Pradesh	Revenue	5937	1072	1275	1285
Odisha	Statistical	456	-	-	456
West Bengal	Agriculture	233	218	233	171
Dadra & Nagar Haveli	Development & Planning	7	7	-	7
	Soil Conservation Division	10	10	-	10
	Agriculture Dept.	3	3	-	3
Puducherry	Statistical Rabi-I	11	-	10	-

5.2 Heavy work load of primary workers adversely affects the results of crop cutting experiments and may also lead to loss of experiments. States may make efforts to ensure at experiments are allotted to the primary workers as per the norms in order to improve the quality in the conduct of experiments.



CO-ORDINATION

6

- 6.1 The Field Operations Division of National Sample Survey Office i.e. NSSO (FOD) has the overall responsibility of assisting the States/UTs in developing suitable techniques for obtaining reliable and timely estimates, providing technical guidance and ensuring adoption of uniform concepts, definitions and procedures in CES in the States/UTs. It reviews the design, plan, details of implementation and the results of the surveys. NSSO (FOD) also associates itself with the conduct of training camps organised for the State field staff in the capacity of trainers and observers. Under the scheme namely Improvement of Crop Statistics (ICS), it participates in the primary field work on sample basis by exercising technical supervision.
- 6.2 The NSSO (FOD) received plan of work of CES for the year 2014-15 from most of the States and offered comments, wherever necessary, with regard to planning and organisation of the survey. Some of the earlier suggestions with regard to timely selection of sample units, improving the response rates, ensuring adequate departmental supervision, timely communication of preliminary results and supply of equipment were reiterated. NSSO(FOD) stresses on adoption of uniform plot size by States as far as possible for the conduct of Crop Cutting Experiments.



SAMPLE SIZE

7

- 7.1 During the year 2014-15, a total of 13,08,025 experiments were planned under CES at All India level. The corresponding figure during 2013-14 was 11,16,906 experiments. This shows an increase of 1,91,119 experiments during 2014-15. The increase in sample size is due to increase of 1,74,588 experiments under food crops and increase of 16531 experiments under non- food crops as shown in Table 5 below.
- 7.2 The number of experiments planned over the last 10 years, given in **Table-5**, shows an overall rising trend, indicating the overwhelming response to the adoption of objective sampling technique of crop cutting experiments in greater magnitude from year to year for estimation of yield rates in the country. The number of experiments is showing steady increase over the past few years owing to the need for crop yield estimates at lower administrative levels i.e. Block, Gram Panchayats in the wake of Government's efforts of providing insurance cover to farmers for crop damage under Pradhan Mantri Fasal Bima Yojana (PMFBY).

Table –5: Number of experiments planned under CES during 2014-15

Year	Kharif			Rabi/Sum.			Total		
	Food	Non-Food	Total	Food	Non-Food	Total	Food	Non-Food	Total
2005-06	427846	100611	528457	296041	63446	359487	723887	164057	887944
2006-07	446505	104469	550974	299106	70103	369209	745611	174572	920183
2007-08	489671	106748	596419	306138	71061	377199	795809	177809	973618
2008-09	433612	84688	518300	304113	69344	373457	737725	154032	891757
2009-10 @	470887	100605	571492	307216	72049	379265	778103	172654	950757
2010-11 *	433789	84023	517812	333409	68004	401413	767198	152027	919225
2011-12 #	438205	87113	525318	328639	72660	401299	766844	159773	926617
2012-13 **	453042	92265	545307	327987	73790	401777	781029	166055	947084
2013-14***	532491	90424	622915	416531	77460	493991	949022	167884	1116906
2014-15 ###	649352	96000	745352	474258	88415	562673	1123610	184415	1308025

@ It includes figures for the year 2005-06 for Jammu & Kashmir.

* It includes figures for the year 2005-06 for Jammu & Kashmir and Jharkhand, Uttarakhand and for the year 2009-10 as no data for subsequent years 2010-11, 2012-13 and 2013-14 was received from respective SASA, till finalization of the Report. In the State of Tamil Nadu, data in respect of NAIS not included.

It includes figures for the year 2009-10 for Jharkhand and for the year 2010-11 for Bihar, Haryana, Maharashtra and Daman & Diu as no data was received till the finalization of the Report.

** It includes figures repeated for the year 2010-11 in the states of Bihar and Maharashtra.

*** It includes figures repeated for the year 2010-11 in the state of Maharashtra and 2012-13 in the state of Gujarat.

It includes figures repeated for the year 2010-11 in the state of Maharashtra and 2013-14 in the state of Karnataka

- 7.3 **Table-6** gives the percentage of food and non-food crops season-wise (Kharif and Rabi) to the total experiments planned at the interval of every 5 years starting from 1974-75. As seen from the



table, there is consistent increase in the number of experiments planned for Rabi non-food crops under CES up to 1994-95.

Table-6: Summary of Experiments planned under CES since 1974-75

Year	Total Experiments	Percentage of Kharif Crops		Percentage of Rabi Crops	
		Food	Non-Food	Food	Non -Food
1974-75	193639	43.0	18.9	33.5	4.6
1979-80	268782	51.7	10.7	32.2	5.4
1984-85	303465	50.2	10.3	32.0	7.5
1989-90 *	373094	47.9	9.3	35.1	7.7
1994-95	446003	46.7	9.4	34.5	9.4
1999-2000@	477514	47.4	10.6	33.6	8.4
2004-05	816315	49.1	9.0	35.0	6.9
2009-10	950757	49.5	10.6	32.3	7.6
2012-13 **	947084	47.8	9.7	34.7	7.8
2013-14***	1116906	47.7	8.1	37.3	6.9
2014-15 ##	1308025	49.7	7.3	36.3	6.7

* It does not include figures for West Bengal and Meghalaya as information was not received.

@ It includes figures for the year 1998-99 for Jammu & Kashmir as no data for the year 1999-2000 was received from SASA.

** It includes figures repeated for the year 2010-11 in the states of Bihar and Maharashtra.

*** It includes figures repeated for the year 2010-11 in the state of Maharashtra and 2012-13 in the state of Gujarat.

It includes figures repeated for the year 2010-11 in the state of Maharashtra and 2013-14 in the state of Karnataka

7.4 Details of number of experiments planned under CES during 2014-15 for food and non-food crops are given in **Annexure-I (a)**. It may be seen from the Annex-I(a) that out of total 13,08,025 experiments planned, 11,23,610 (86%) were on food crops and 1,84,415 (14%) on non-food crops (Chart -III). Corresponding shares in cropped area under food and non-food crops which may be seen from **Annexure-V** were 80% and 20% respectively (Chart -IV). If season-wise details are considered, it may be observed that Kharif crops account for a major share of 7,45,352 (57%) experiments and Rabi crops for 5,62,673 (43%) experiments.

Chart – III

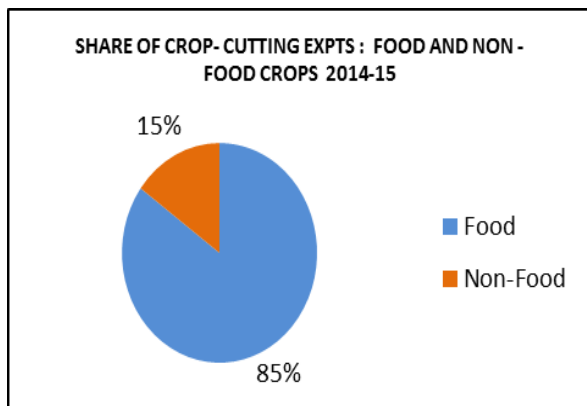
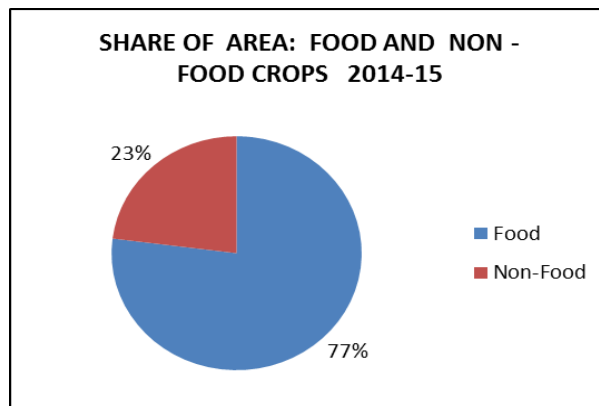


Chart – IV





- 7.5 Fruits and Vegetables form an essential component of human diet. Sixteen important fruits and vegetable crops in 13 States were covered under CES (**Appendix-II**) on which information has been presented in this report. It can be seen from the **Table-7** that out of 11,23,610* (86%) experiments for food crops, only 48,166* (4.29 %) experiments were covered under 16 fruits and vegetable crops. Among fruits and vegetable crops, 19% of the experiments were accounted for fruits and 81% for vegetable crops.

Table –7: Fruits and Vegetables covered under CES during 2014-15

<u>Sl. No.</u>	<u>Fruits</u>	<u>No. of Experiments Planned</u>
1	Lichi	300
2	Banana	3022
3	Mango	2220
4	Guava	250
5	Jackfruit	1918
6	Pineapple	1572
7	Papaya	32
Total		9314
<u>Sl. No.</u>	<u>Vegetables</u>	<u>No. of Experiments Planned</u>
1	Tapioca	1596
2	Cashewnut	1549
3	Potato	26581
4	Onion	3294
5	Brinjal	1700
6	Tomato	1500
7	Cauliflower	300
8	Plaintain	1622
9	Avare	710
Total		38852

The Centrally Sponsored Scheme “Crop Estimation Survey on Fruits and Vegetables” which started in the year 1982-83 is no longer in operation. However, considering the importance of Horticulture for the national economy and nutrient security, the Department of Agriculture & Cooperation, Ministry of Agriculture has launched a national level programme on horticulture



assessment and development, called CHAMAN (Coordinated Horticulture Assessment and Management using geo-informatics) from September, 2014. This programme envisages use of satellite remote sensing data for area and production estimation of 7 horticultural crops (Potato, Onion, Tomato, Chili, Mango, Banana and Citrus) in selected districts of major producing States. The programme also uses GIS (Geographical Information System) tools along with remote sensing data for generating action plans for horticultural development (site suitability, infrastructure development, crop intensification, orchard rejuvenation, aqua-horticulture, etc.). Another component of CHAMAN is to carry out research activities on horticultural crop condition studies, diseases assessment and precision farming. Two National Level Agencies have been identified for implementing this programme i.e. Mahalanobis National Crop Forecast Centre (MNCFC) of Department of Agriculture & Cooperation for the remote sensing component and the Indian Agricultural Statistical Research Institute (IASRI) for the field survey component. The programme is being jointly implemented through Space Applications Centre, Ahmedabad; National Remote Sensing Centre, Hyderabad; State Horticulture Departments; State Remote Sensing Centres, National Horticulture Research & Development Foundation, Nasik; India Meteorological Department and ICAR Centres. The project CHAMAN is likely to be completed by March 2018.

- 7.6 The States of Uttar Pradesh (17%), Maharashtra (10%), Madhya Pradesh (16%), Rajasthan (7%) and Karnataka (7%) have accounted for more than 57 percent of the gross cropped area (Chart-V). However, the distribution of experiments over States/UTs reveals that more than 74 percent of the experiments were planned in Uttar Pradesh (46%), Karnataka (7%), Maharashtra (7%), Bihar (8%) and Rajasthan (7%) (Chart-VI).

* Figures for experiments planned are obtained from Annexure V.



Chart – V

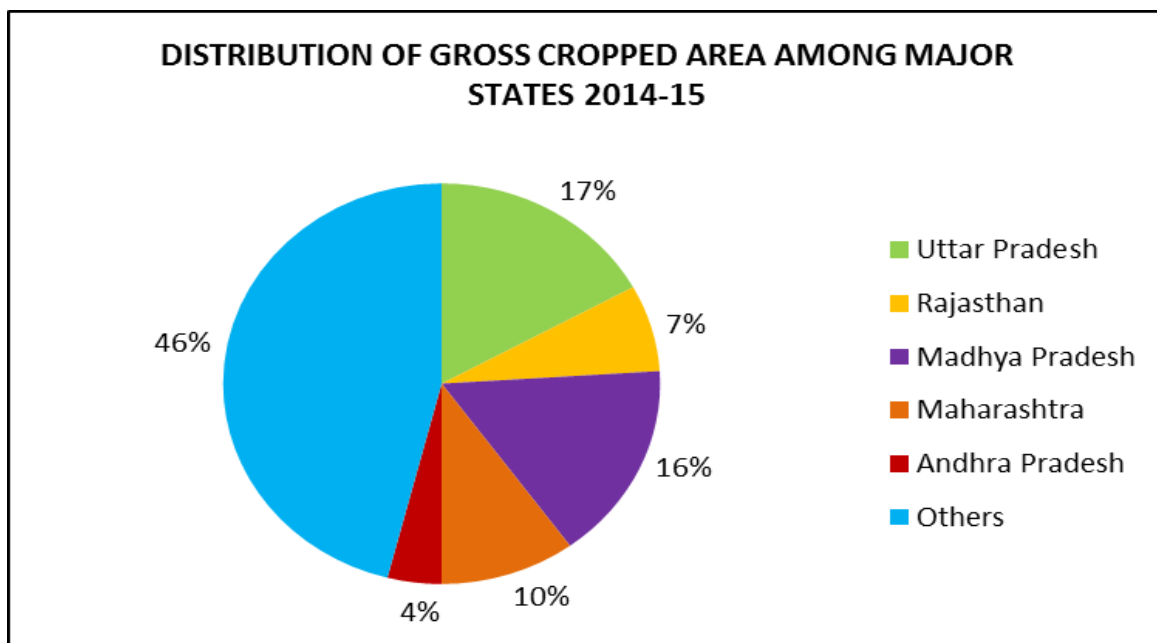
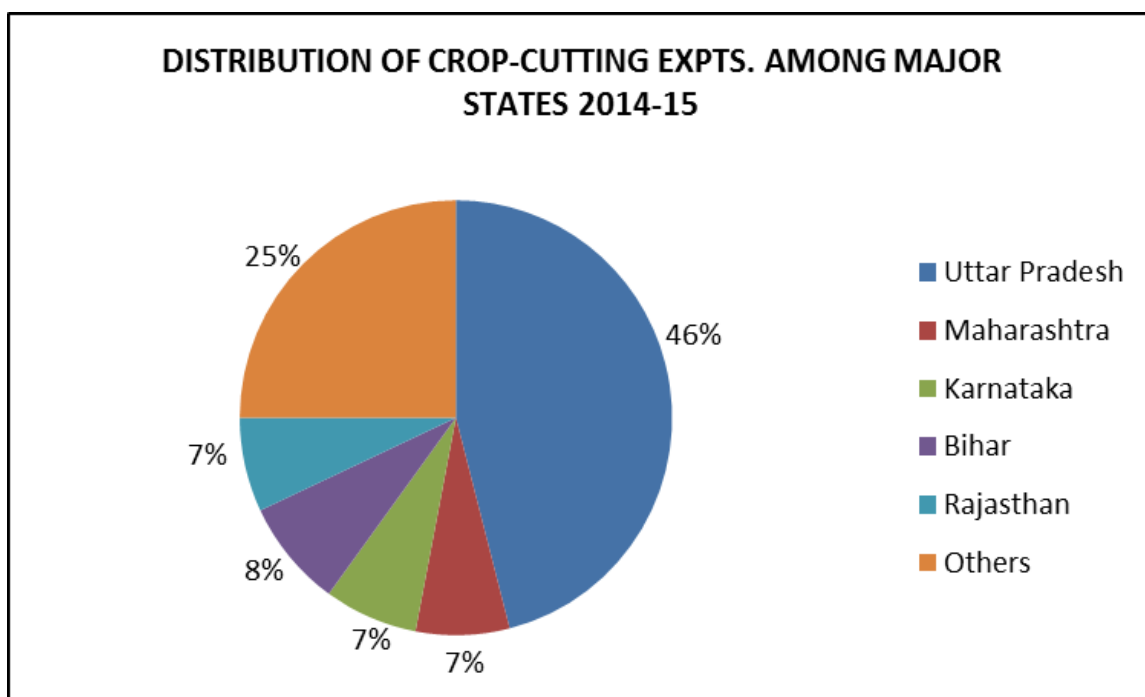


Chart – VI





7.7 **Table-8** shows increase of 2,90,227 experiments during 2014-15 due to increase in number of experiments planned for a number of crops in the States of Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal and Puducherry. The total number of experiments planned decreased by 99108 due to decrease in experiments planned in the States of Andhra Pradesh, Bihar, Kerala, Odisha, Jharkhand and Meghalaya. The net increase of experiments in the States is 1,91,119 during 2013-14 over 2013-14. There was no change in planning in the States of Assam, Karnataka, Haryana, Maharashtra, Dadra & Nagar Haveli and Daman & Diu, whereas for the States of Karnataka and Maharashtra information was not received.

Table-8: Comparison of number of experiments planned during 2014-15 and 2013-14

States showing increase in experiments planned	No. of experiments planned			States showing decrease in experiments planned	No. of experiments planned		
	2014-15	2013-14	Net increase over previous year		2014-15	2013-14	Net decrease over previous year
Chhattisgarh	13442	12764	678	Andhra Pradesh	19714	32638	12924
Goa	623	566	57	Bihar	107586	176186	68600
Gujarat	24196	23408	788	Kerala	29030	32938	3908
Himachal Pradesh	5002	4986	16	Odisha	47505	49083	1578
Jammu & Kashmir	5398	53980	8	Jharkhand	24540	36574	12034
Madhya Pradesh	50985	50858	127	Meghalaya	2020	2084	64
Punjab	6892	6886	6	Total			99108
Rajasthan	92408	72082	20326				
Tamilnadu	9180	8300	880				
Uttar Pradesh	600358	350144	250214				
Uttarakhand	8278	6898	1380				
West Bengal	56766	41077	15689				
Puducherry	298	240	58				
		Total	290227				

7.8 **Annexes-I(b) and I(c)** give the State-wise details of experiments planned for food crops during Kharif and Rabi, 2013-14 respectively and **Annexes-1(d) and 1(e)** give similar details for non-food crops. Summary of details are presented in **Table-9 & Table-10**. On examination of these tables, it can be concluded that except for Paddy and Wheat, the representation of remaining 10 main crops has decreased in percentage terms as compared to previous year.



Table – 9: Details of experiments planned on Food and Non- Food Crops during 2014-15

S. No.	Particulars	No. of Expts.	Percentage
A.	FOOD CROPS	1123610	85.90
1	Cereals	839887	64.21
2	Pulses & beans	188220	14.39
3	Small Millets	3664	0.28
4	Sugar & Cocoa	28789	2.20
5	Condiments & Spices	14884	1.14
6	Fruits & Vegetables	48166	3.68
B.	NON-FOOD CROPS	184415	14.10
1	Oil Seeds	158270	12.10
2	Fiber Crops	23343	1.79
3	Drugs & Narcotics	2802	0.21
	TOTAL	1308025	100

Table- 10: Distribution of experiments planned for Main Crops during 2014-15

Sl. No.	Crop	No. of Expts.	% to Total Expts.
1.	Paddy	365415	27.94
2.	Wheat	285643	21.84
3.	Maize	74547	5.70
4.	R & M	59004	4.51
5.	Bajra	56454	4.31
6.	Gram	51523	3.94
7.	Jowar	38908	2.97
8.	Redgram	31833	2.43
9.	Groundnut	31412	2.40
10.	Blackgram	30753	2.35
11.	Sugarcane	27993	2.14
12.	Sesamum	25532	1.95

7.9 **Annexures -V** also provide information on the percentage of area covered under CES to the total area in the CES States. Crop-wise summary for main crops is presented in **Table-11**, which indicates that the area covered under CES for food and non- food crops was substantial. However, there exists a need for extending CES in different States to cover important pulses, oil seeds and cash crops. The issue of extending the scope of the CES to encompass important crops which are not covered at present needs attention of the concerned States/UTs. Distribution of area and experiments by category of crops are presented in **Chart-VII** and **Chart-VIII** respectively.



Table – 11: Percentage of area covered under CES during 2014-15

Sl. No.	Crop	%age of area covered by CES to total area under the crop in the States covered
1.	Paddy (Kharif)	89
	Paddy (Rabi / Sum.)	99
2.	Jowar (Kharif)	89
	Jowar (Rabi / Sum.)	19
3.	Bajra (Kharif & Rabi / Sum.)	84
4.	Maize (Kharif)	90
	Maize (Rabi / Sum.)	70
5.	Ragi (Kharif & Rabi / Sum.)	86
6.	Wheat	93
7.	Barley	86
8.	Gram	96
9.	Redgram/Tur (Kharif&Rabi)	89
10.	Sugarcane	95
11.	Sunflower (Kharif)	98
	Sunflower (Rabi / Sum.)	88
12.	Groundnut (Kharif)	98
	Groundnut (Rabi / Sum.)	83
13.	Sesamum(Kharif& Rabi/Sum.)	88
14.	Castor	93
15.	Rape & Mustard	92
16.	Linseed	66
17.	Safflower	91
18,	Coconut	100
19.	Niger	68
20.	Cotton	34
21.	Jute	99
22.	Mesta	91
23.	Tobacco	60



Chart-VII

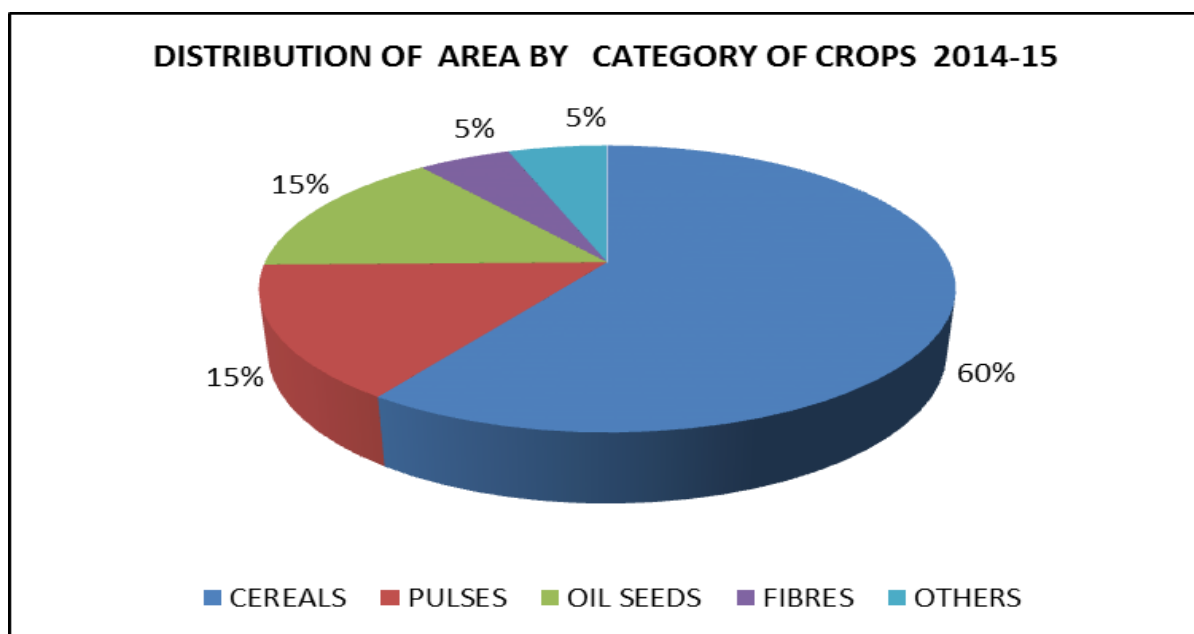
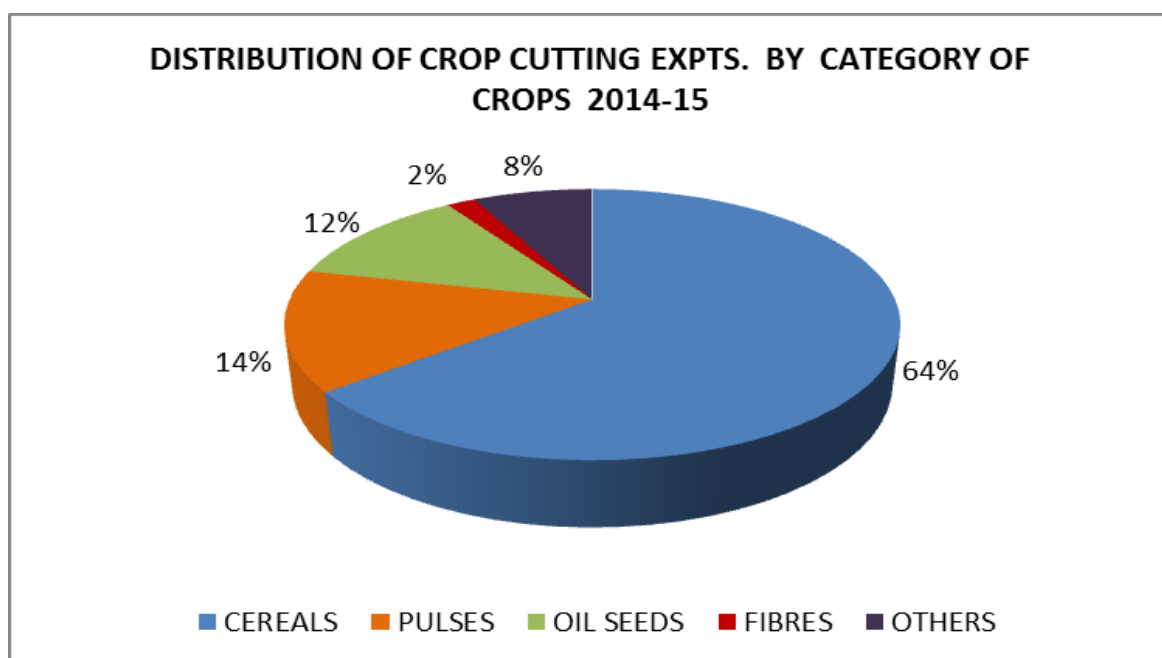


Chart- VIII





TRAINING

8

- 8.1 A programme for imparting training to primary workers engaged in the conduct of crop cutting experiments under CES is held in each State by respective agencies (**Annex-II**) at the beginning of each season/year. In Goa, Haryana, Himachal Pradesh, Jammu & Kashmir, Maharashtra, Punjab, Rajasthan, Uttar Pradesh and Puducherry, the training was held in the beginning of each crop season and in other States, it was held at the commencement of the agricultural year 2014-15. NSSO officials also participated in the training programmes either as trainers or as observers.
- 8.2 **Annex-II** shows the agency-wise details of the number of training centres, number of primary workers who attended the training and the extent of NSSO participation in the training programmes in the year 2014-15. During the year, training was organised in 1430 centres. At All India level, 40748 out of 45099 primary workers were called for training and 35822 attended the training camps resulting in 88% attendance in CES training camps. States where the attendance of primary workers of various agencies was less than the All-India average were Chhattisgarh (Statistical/Agriculture), Himachal Pradesh (Revenue in Kharif, Rabi) Karnataka (Agriculture), Madhya Pradesh (Revenue), Uttarakhand (Revenue), Uttar Pradesh (Revenue in Kharif) and Dadra & Nagar Haveli (Development & Planning). It is essential that all the staff engaged in the conduct of crop cutting experiments are fully familiar with the technical aspects, the methodology and operational procedures relevant to the conduct of the experiments. Conduct of experiments by untrained personnel would introduce subjectivity and result in generation of unreliable data. To obviate this, the feasibility of arranging separate training for absentees subsequently needs to be explored.
- 8.3 During 2014-15, the officers of NSSO (FOD) posted in different States associated themselves with the training programmes, either as trainers or observers in all the States except in Andhra Pradesh, Assam, Bihar, Goa, Gujarat, Jammu & Kashmir, Jharkhand, Kerala, Meghalaya, Odisha, Tamil Nadu, Uttarakhand, West Bengal, Dadra & Nagar Haveli, Daman & Diu and Puducherry. In all, out of the 1433 training centers, NSSO officials participated in 713 (49.75%) centers as observers and imparted training in 55 (3.84 %) centers.



SUPERVISION

9

9.1 Supervision of field work is an essential part of any large-scale sample survey for ensuring quality of data collected. A threefold approach is adopted in the States for supervision of crop cutting experiments planned under CES. This includes the following:-

- (i) Supervision by the statistical staff of State Agricultural Statistics Authorities (SASA),
- (ii) Supervision by the Departmental staff i.e. by the supervisory officers of the Departments whose workers are responsible for the conduct of crop cutting experiments in the field and
- (iii) Supervision by the Technical personnel of the NSSO (FOD).

In the States of Assam, Meghalaya, Odisha and the UT of Puducherry, the field work and supervision were done only by the Statistical Department. In the case of Himachal Pradesh and Union Territory of Dadra & Nagar Haveli, though there are other supervisory agencies, the supervision was done by the State Statistical Departments only. Though supervision of the conduct of crop cutting experiments in various States was in vogue prior to inception of the Agricultural Statistical Wing, NSSO (FOD), NSSO personnel started supervision under the Scheme for Improvement of Crop Statistics (ICS) in 20 States and 1 Union Territory from the year 1973-74 (Rabi) onwards. Under this Scheme, State Statistical Staff also undertakes similar sample checks on matching sample basis. During the year 2014-15, total number of experiments planned for sample check under the ICS Scheme were 15,662 for each Central and as well for State samples during Kharif, Rabi and Summer seasons.

9.2 **Annex -III (a)** shows State-wise total number of experiments planned under CES, number of experiments inspected by each agency and breakup of these supervisory checks for Kharif and Rabi seasons according to food and non-food crops. **Annex- III (b)** gives crop-wise details of experiments supervised by each agency in a State. Summary of details of supervision at All India level is given in **Table -11 and Table - 12**.



Table –12: Supervision of crop cutting experiments during 2014-15

Item	No. of expts. Planned	No. of Experiments Supervised by					
		State Statistical Department		Other State Departments		NSSO	
		Total (%)	At Harvest (%)	Total (%)	At Harvest (%)	Total (%)	At Harvest (%)
1	2	3	4	5	6	7	8
Kharif							
Food Crops	649352	32410 (10)	31398 (10)	66578 (23)	66071 (23)	7608 (1)	7301 (1)
Non-Food Crops	96000	8503 (15)	8479 (15)	14477 (28)	14448 (28)	1630 (2)	1596 (2)
Combined	745352	40913 (11)	39877 (11)	81055 (23)	80519 (23)	9238 (1)	8897 (1)
Rabi							
Food Crops	474258	13813 (8)	13527 (8)	37160 (24)	36843 (24)	4582 (1)	4501 (1)
Non-Food Crops	88415	4325 (8)	4291 (8)	15243 (32)	15142 (32)	985 (1)	959 (1)
Combined	562673	18138 (8)	17818 (8)	52403 (26)	51985 (26)	5567 (1)	5460 (1)
TOTAL (Percentage)	1308025	59051 (10)	57695 (10)	133458 (24)	132504 (24)	14805 (1)	14357 (1)

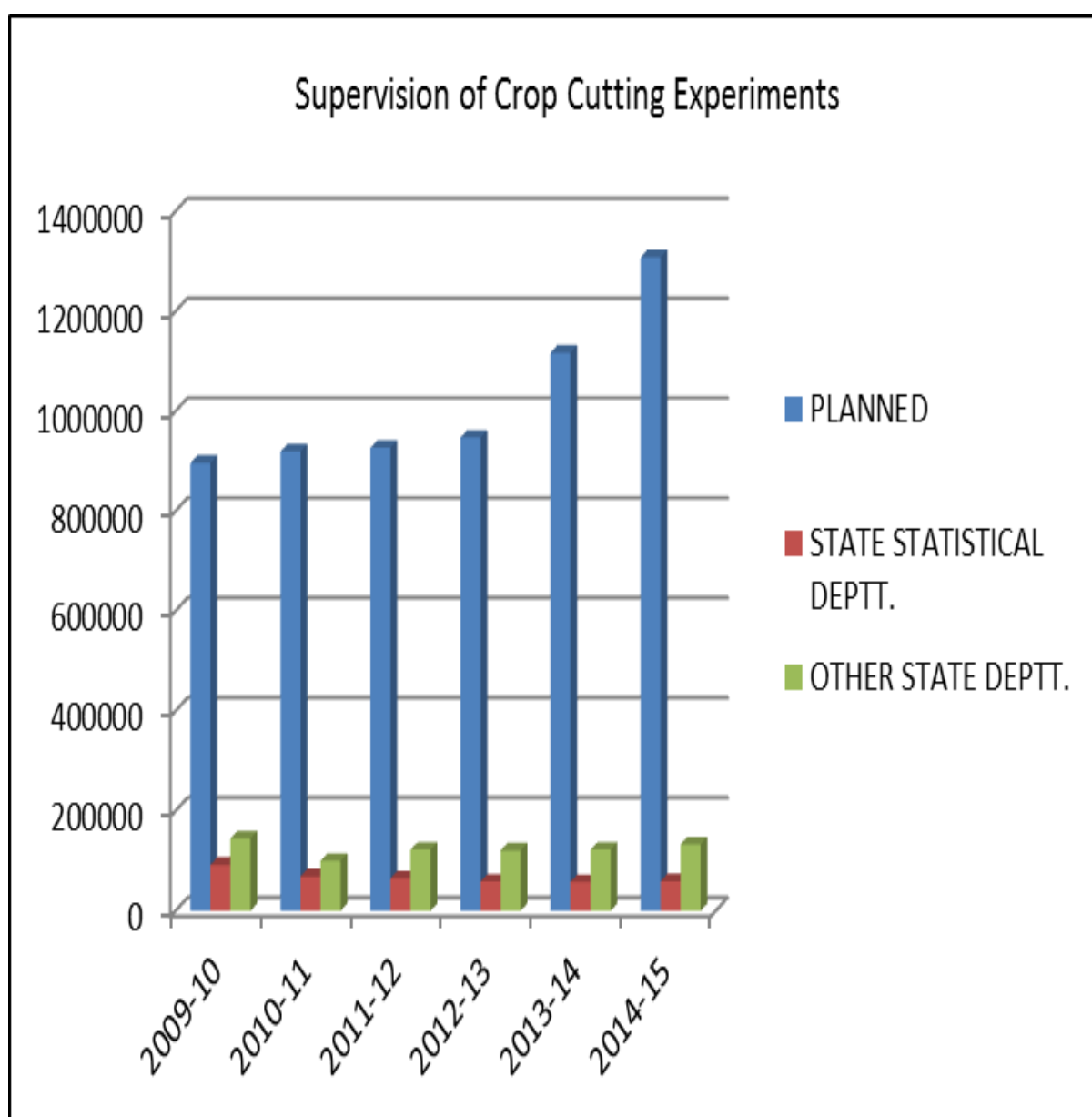
* Total Percentages have been calculated by including only those States from which complete data was received.

During 2014-15, about 16% of the total experiments planned were supervised, out of which 10 percent were supervised by the State Statistical Department, 24 percent by other State Departments and 1 percent by NSSO. However, the supervision was conducted at harvest stage in approximately 99% cases. It may also be observed from the State-wise position as given in **Annex–III (a)** that the total supervision by State Statistical Department was above 25 percent in the States of Goa, Gujarat, Kerala, Odisha, Tamil Nadu, and Union Territories of Dadra & Nagar Haveli, Daman & Diu and Puducherry and was below 10 percent in the States of Andhra Pradesh, Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Meghalaya, Punjab, Rajasthan, Uttarakhand and West Bengal. Total supervision by other State Departments was above 25 percent in case of Madhya Pradesh, Odisha, Rajasthan, Uttarakhand and Daman & Diu and was below 10 percent in the States of Bihar, Chhattisgarh



and West Bengal. Total supervision by NSSO officers in individual States varied from 0.4 percent in Uttar Pradesh to 10 percent in Punjab and Puducherry. Above details are summarised in the following Bar diagram (Chart-IX). Inspection plays an integral part in the improvement of data collection of data and requires due attention of the supervisory officers.

Chart – IX





No information regarding the supervision by State agencies has been received from Jharkhand, Maharashtra and Uttar Pradesh although the supervisory agencies are in existence.

- 9.3 **Annex-III (a)** also gives the breakup of experiments supervised during the two major seasons. It is seen that the supervision was well distributed between both the seasons as well as over food and non-food crops. Crop-wise details of supervision given in **Annex-III (b)** are summarised in **Table-13**. It is seen that at All India level, the total supervision (adding up figures for all the concerned departments) varied between 7 and 50 percent for important crops like Paddy, Jowar, Bajra, Maize, Ragi, Wheat, Barley, Groundnut, Sesamum, Cotton and Jute, and in the range of 18 to 47 percent for crops like Gram, other Pulses and Beans, Small Millets, Condiments & Spices, Linseed, Castor, Rape & Mustard and other Oilseeds. For other crops like Sugars, Drugs & Narcotics, Fruits & Vegetables and Mesta, the supervision was in the range of 5 to 43 percent, which needs improvement. It is evident from the data presented that there is a need to increase the level of supervision for the crops by all the related departments. This will definitely have a lasting effect on the improvement of the quality of data collected in the field.



Table-13: Crop- wise percentage of experiments supervised during 2014-15

Crop	Percentage of Experiments supervised by							
	State Statistical Deptt		Other State Departments		NSSO		All Deptts	
	Total	At Harvest stage	Total	At Harvest stage	Total	At Harvest stage	Total	At Harvest stage
1	2	3	4	5	6	7	8	9
Paddy	11	10	17	17	1	1	14	13
Jowar	12	12	25	25	2	2	16	16
Bajra	11	11	42	42	1	1	18	17
Maize	8	8	37	37	1	1	26	26
Wheat	6	6	26	26	1	1	7	7
Barley	5	5	37	36	4	4	32	31
Gram	5	5	27	27	1	1	18	18
Other Pluses & Beans	5	5	16	15	1	1	27	27
Small Millets	9	9	18	17	2	2	31	29
Sugars	4	4	3	3	2	2	9	9
Condiments & Spices	14	14	19	19	1	1	45	44
Fruits & Veg.	6	6	6	6	0	0	21	21
Ragi	15	15	33	33	2	2	50	32
Groundnut	12	12	16	16	2	2	36	36
Sesamum	7	7	17	17	1	1	32	31
Castor	21	21	24	24	2	2	47	47
Rape & Mustard	3	3	19	19	1	1	23	23
Linseed	4	3	16	16	6	6	21	20
Other Oil Seeds	9	9	15	15	1	1	29	29
Cotton	11	11	28	28	3	3	18	18
Jute	8	8	4	4	2	2	12	12
Mesta	6	6	-	-	-	-	5	5
Drugs & Narcotics	3	3	21	21	-	-	43	43

9.4 An idea about the extent of participation by the State Statistical and the NSSO officials under the Scheme for Improvement of Crop Statistics (ICS) by way of association in the sample check on crop cutting experiments may be taken from the details presented in **Table-14**. It is seen that a total of



25130 (2.31%) experiments out of the 10,87,648 experiments planned (for the crops covered under ICS) were spot checked at harvest stage either by Central or State agencies during 2014-15 as against 25841 (2.8%) experiments out of 926878 experiments planned during 2013-14. Details of Crop-wise allocation of number of experiments under ICS States are presented in **Appendix VII**. The sample checks are undertaken by the supervisory staff of NSSO (FOD) and State Govts. on matching basis in two non-overlapping samples.

Table -14: Supervision under ICS scheme during 2014-15

Sl. No.	State	Number of Experiments			Percentage of Supervision under ICS at harvest stage	
		Planned under CES (for important crops covered under ICS)	Supervised under ICS at harvest stage by			
			Central Staff	State Staff		Total
1	2	3	4	5	6	7
1.	Andhra Pradesh	15252	1105	983	2088	13.69
2.	Assam	11250	480	392	872	7.75
3.	Bihar	99756	660	292	952	0.95
4	Chhattisgarh	11580	346	332	678	5.85
5.	Gujarat	16858	610	620	1230	7.30
6.	Haryana	8994	686	562	1248	13.88
7.	Himachal Pradesh	5002	266	248	514	10.28
8.	Jammu & Kashmir	4908	254	94	348	7.09
9.	Jharkhand	19200	216	125	341	1.78
10.	Karnataka	63684	819	867	1686	2.65
11.	Kerala	16311	517	515	1032	6.33
12.	Madhya Pradesh	46628	1108	918	2026	4.35
13.	Maharashtra	83108	961	662	1623	1.95
14.	Odisha	16548	820	826	1646	9.95
15.	Punjab	6892	684	584	1268	18.40
16.	Rajasthan	74572	906	738	1644	2.20
17.	Tamil Nadu	6792	742	668	1410	20.76
18.	Uttarakhand	6948	146	118	264	3.80
19.	Uttar Pradesh	526430	2282	508	2790	0.53
20.	West Bengal	46637	721	691	1412	3.03
21.	Puducherry	298	28	30	58	19.46
	All States	1087648	14357	10773	25130	2.31



Note: Important crops include Paddy, Jowar, Bajra, Maize, Ragi, Wheat, Barley, Gram, Tur, Cotton, Jute, Sugarcane, Groundnut and Rape & Mustard.

9.5 Sample checks under ICS scheme are being undertaken since the year 1973-74 specifically to assess the extent to which the prescribed techniques and procedures are adhered to by the State primary workers while conducting the experiments and provide spot guidance, wherever necessary. As detailed in **Annexure III-C**, the findings of the sample checks reveal that during 2014-15, 53 percent experiments were conducted as per the prescribed procedures. The occurrence of one or more type of discrepancy was observed in the remaining set of analyzed experiments. There exists ample scope for improvement specially with regard to selection of random numbers and locating & marking of plots (e4) in addition to reporting of ancillary particulars like irrigation, varieties of seed, fertilizers/manures (e6). The sample checks revealed that the primary workers assigned with the task of conducting the experiment do not use, in sizeable number of cases (more than All India figures), the equipment supplied for the purpose. This incidence was particularly noticeable in the States of Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh and Uttarakhand. The tendency to delegate the work of crop cutting experiments to others including untrained workers was observed to be comparatively high (more than All India figures) in case of Bihar (Summer 4%), Jharkhand (Early Kharif 3%, Late Kharif 4%, Rabi 6%), Uttar Pradesh (Kharif 17%, Rabi 23% and Summer 25%) and Uttarakhand (Rabi 13%) during 2014-15. Although these small percentages do not speak for themselves, the damage done to the quality of fieldwork is substantial. Proper arrangements are needed in this regard for ensuring training of the field worker entrusted with CES work especially for those officials who are joining these ranks after the regular training camps are over, or those entrusted with these duties as a stop gap arrangement.



RESPONSE

10

- 10.1 State-wise number of experiments analysed and percentage response during Kharif and Rabi seasons for food and non - food crops under CES are detailed in **Annex-IV (a)**.
- 10.2 In 2014-15, the overall response for c.c. experiments recorded was 94 percent. Percentage response for food crops during Kharif and Rabi, 2014-15 was 94 % and 95% respectively and for non-food crops, it was 93 % & 91 % respectively. Response was below 90 percent in Assam (88%) Bihar (83 %), Chhattisgarh (82%), Haryana (89%), Jammu & Kashmir (77%), Himachal Pradesh (85%), Jharkhand (82%), Madhya Pradesh (88%), West Bengal (81%) and Dadra & Nagar Haveli (71%). Special measures are needed to improve the percentage of response to more than 90 percent in these States.
- 10.3 An analysis of non-response was attempted with a view to focus and identify the specific causes leading to non- response, facilitating taking adequate corrective measures. State-wise details of number of experiments that could not be taken up for analysis are given in **Annex-IV (b)**. For all crops taken together, it is seen that 94.1 percent of the total number of experiments planned were analysed. Of the remaining (5.9 percent) experiments, which could not be analysed, 6.3 percent were reported to be lost in the field, 0.8 percent were reported to be rejected at tabulation stage and for 1.2 percent of experiments, precise reasons for the exclusion were not available.
- 10.4 Out of 6.3 percent experiments lost in the field, no specific reasons had been reported in respect of 4.7 percent experiments while 4.0 percent experiments were lost due to harvesting of the crop by the cultivator prior to the date fixed for the experiments.
- 10.5 At All India level, data for 1.2 percent of the experiments could not be included for analysis. Such cases where more than 5% experiments were rejected at the tabulation stage include the State of Himachal Pradesh (6.1%) and UT of Dadra & Nagar Haveli (12.8 %). The percentage of experiments lost (in the field + rejected by Statistician) was more than 10 % in the States like Assam (12.2 %), Bihar (16.6 %), Chhattisgarh (17.6%), Haryana (10.6%), Himachal Pradesh (14.7%), Jammu & Kashmir (23 %), Jharkhand (17.5%), Madhya Pradesh (12.3 %), West Bengal (19.5 %) and Union Territory of Dadra & Nagar Haveli (29.5 %).



- 10.6 No reason could be ascribed for exclusion of experiments from analysis in 0.3 % of experiments in Chhattisgarh and 9.4% of experiments in Haryana. Non-response is to be kept within the permissible margin and timely remedial measures needs to be taken for exercising adequate checks.
- 10.7 Results of crop cutting experiments for each crop along with the number of experiments planned and analysed indicating the response achieved during 2014-15 are given in **Annex -V. Table-15** shows the crop-wise percentage response at All India level for important crops during 2014-15.

**Table-15: Crop - wise percentage response at All India level
for important crops under CES 2014-15**

Sl.No.	Crop	Response (%)
1.	Paddy (Kharif)	94
	Paddy (Rabi / Sum.)	88
2.	Jowar (Kharif)	88
	Jowar (Rabi)	95
3.	Bajra (Kharif)	98
	Bajra (Sum.)	94
4.	Maize (Kharif)	90
	Maize (Rabi / Sum.)	87
5.	Ragi (Kharif)	94
	Ragi (Rabi / Sum.)	91
6.	Wheat	98
7.	Barley	90
8.	Gram	92
9.	Redgram/Tur	95
10.	Sugarcane	90
11.	Groundnut (Kharif)	95
	Groundnut (Rabi / Sum.)	90
12.	Sesamum (Kharif)	95
	Sesamum (Rabi)	87
13.	Castor	96
14.	Rape & Mustard	94
15.	Linseed	89
16.	Cotton	94
17.	Jute	79



RESULTS

11

- 11.1 The estimates of average yield rate along with percentage Standard Error are presented in **Annex-V**. The method of estimation followed by the States for working out the average yield rate and its Standard Error (SE) is explained in **Appendix-V**. The trend of area, yield rates and production under important crops during 2010-11 to 2014-15 are presented in **Charts-X to XII** respectively.
- 11.2 The results of CES for 2014-15 reveal that for some crops, response was very low in few States. For instance, it was less than 50 percent in Bihar for Rice (Gar HYV 44%, Gar. LV 38%), Maize (Gar.) (35%), Chillies (34%), Lichi (41%), Banana (22%); Mango (32%); Guava (13%); Jackfruit (22%); Tomato (48%); Chhattisgarh for Chillies (31%), Potato (17%), Onion (33%), Gujarat for Jowar (Kharif 49%), Haryana for Sunflower Rabi (35%), Jharkhand for Sugarcane (34%), Brinjal (Aghani 44%) Karnataka for Jowar (Sum. Hyv. Ir.) (17%), West Bengal for Maize (47%) and Dadara & Nagar Haveli for Ragi (44%). **Such cases of extreme low response affects the reliability of estimates of yield rate.**
- 11.3 Estimates of average yield rates at All India Level for the year 2014-15 and for the previous year for some important crops are given in **Table-16**. These results show that the average yield per hectare during 2014-15 was more than that of previous year for Rice (Kh. & Rabi/Sum.), Jowar (Kh. & Rabi.), Bajra, Ragi, Gram, Sugarcane, Groundnut (Kh. & Rabi/ Summer), Sesamum, Castor, Linseed and Jute crops. In case of Maize, Wheat, Barley, Redgram, Rape & Mustard and Cotton the average yield has shown decline as compared to the previous year 2013-14.



Table -16: Comparison of CES Yield Rates during 2014-15 and 2013-14

Sl. No.	Crop	Yield rate in (kg/ha.)		Percentage difference
		2014-15	2013-14	
1.	Rice (Kharif)	2638	2424	8.83
	Rice (Rabi/Sum.)	3545	3480	1.87
2.	Jowar (Kharif)	1223	1102	10.98
	Jowar (Rabi/ Sum.)	833	814	2.33
3.	Bajra (Comb.)	1340	1246	7.54
4.	Maize (Comb.)	2807	3086	-9.04
5.	Ragi (Comb.)	1596	1589	0.44
6.	Wheat	2640	3214	-17.86
7.	Barley	2308	2602	-11.30
8.	Gram	896	728	23.08
9.	Redgram/Tur	784	816	-3.92
10.	Sugarcane	75536	73286	3.07
11.	Groundnut (Kharif)	1518	1032	47.09
	Groundnut (Rabi / Sum.)	1865	1863	0.11
12.	Sesamum (Comb.)	452	377	19.89
13.	Castor	2122	1787	18.75
14.	Rape & Mustard	1099	1198	-8.26
15.	Linseed	466	427	9.13
16.	Cotton (Lint)	648	807	-19.70
17.	Jute	2692	2648	1.66

11.4 The dimension of the standard error provides an idea about the precision of the estimate. In an attempt to standardise the measure, generally it is expressed in percentage terms. The percentage standard error of the estimates of average yield are furnished along with the estimates in **Annex-V**. Standard error was not calculated for any crop in Goa, Gujarat (except Groundnut Kh. and Rape & Mustard), Jammu & Kashmir (except Rice and Maize), Jharkhand, Punjab and Uttar Pradesh. The standard error was also not calculated in Andhra Pradesh for Gram, Bihar for Rice, Maize, Ragi, Wheat, Barley, Gram Redgram, Greengram, Lakh, Masur, Sugarcane, Potato (Agh.), Cauliflower, Onion, Rape & Mustard, Jute and Mesta; Haryana for Barley, Redgram, Sugarcane, Sunflower Rabi and Cotton; Madhya Pradesh for Banana and Papaya; Maharashtra for Bajra and Linseed; Meghalaya for Potato (Sum.), Kerala for Sugarcane, Cocoa, Turmeric, Ginger, Mango, Jackfruit, Cashewnut, Pineapple, Plantain and Sesamum.



11.5 Technically, standard errors are associated with efficiency of the estimates and the degree of precision reduces with increase in the standard error. For crop yield, the desirable range of standard error at State level is between 0 to 5 percent. It is observed that in a good number of cases, the standard errors were above the desirable limits. The State Governments may consider increasing the sample size of the concerned crops with increased supervision. **Table-17** presents the cases where the standard errors were higher than the desirable range.

Table-17: State-wise crops with high standard error during 2014-15

Sl.No	State	Crop with percentage S.E.
1.	Andhra Pradesh	Jowar Kh. (8.9), Bajra (5.6), Ragi Rabi (5.3), Greengram Kh. (6.2), Horsegram Kh. (6.7), Sesamum Kh. (6.9) & Rabi (11.1). Sunflower Kh. (6.1) , Castor (7.6) and Tobacco (5.7)
2.	Assam	Blackgram Rabi (7.7)
3.	Bihar	Banana (5.4); Guava (6.8); Brinjal Rabi (7.8)
4.	Chhattisgarh	Jowar (11.7), Wheat (5.8), Kodon Kutki (10.3), Potato (6.1), Onion (7.5), Sesamum (6.9) and Soyabean (8.9).
5.	Haryana	Maize (5.9).
6.	Jammu & Kashmir	Rice (6)
7.	Karnataka	Rice Kh. Tra. Ir. (7.7); Kh. Tra. UI (5.4) Rabi Hyv Ir. (6.1); Jowar Kh. Tra UI (7.9); Rabi Tra. Ir. (9.6); Rabi Tra. UI (5.1); Sum. Hyv Ir. (24.4), Bajra Kh. Hyv Ir. (5.2); Kh. Tra (12.3), Maize Kh. Tra. Ir. (38.8); Rabi Hyv UI (8.5); Sum. Hyv Ir.(5.4); Ragi Kh. Tr. (21.5); Rabi Hyv Ir (6.1); Rabi Hyv. UI.(13.5); Sum. Hyv Ir (7.4); Wheat Tra Ir. (8.6); Tra. UI. (8.3), Greengram Rabi (9.2), Blackgram Rabi (9.2), Sugarcane (5.5); Save (7.2), Chillies Kh. (5.5); Potato Kh. (12.6); Rabi (13.3), Onion Kh. (5.2); Rabi (22.2); Tobacco (6.4); Groundnut Kh. Ir. (5.3), Rabi UI (13.4); Cotton (6.3)
8.	Madhya Pradesh	Lakh (5.1), Kodon-Kutki (6.2) and Chillies (5.5)
9.	Maharashtra	Gram (9.9), Sesamum Rabi (19.4) and Tobacco (5.4).
10.	Odisha	Horsegram Sum. (7.5) , Groundnut Win. (7), Sesamum Sum. (5.4) and Jute (8.8)
11..	Rajasthan	Sugarcane (6.7)
12.	West Bengal	Redgram (11.0), Bengalgram (7.9), Linseed (10.4) and Mesta (5.5)



Chart - X

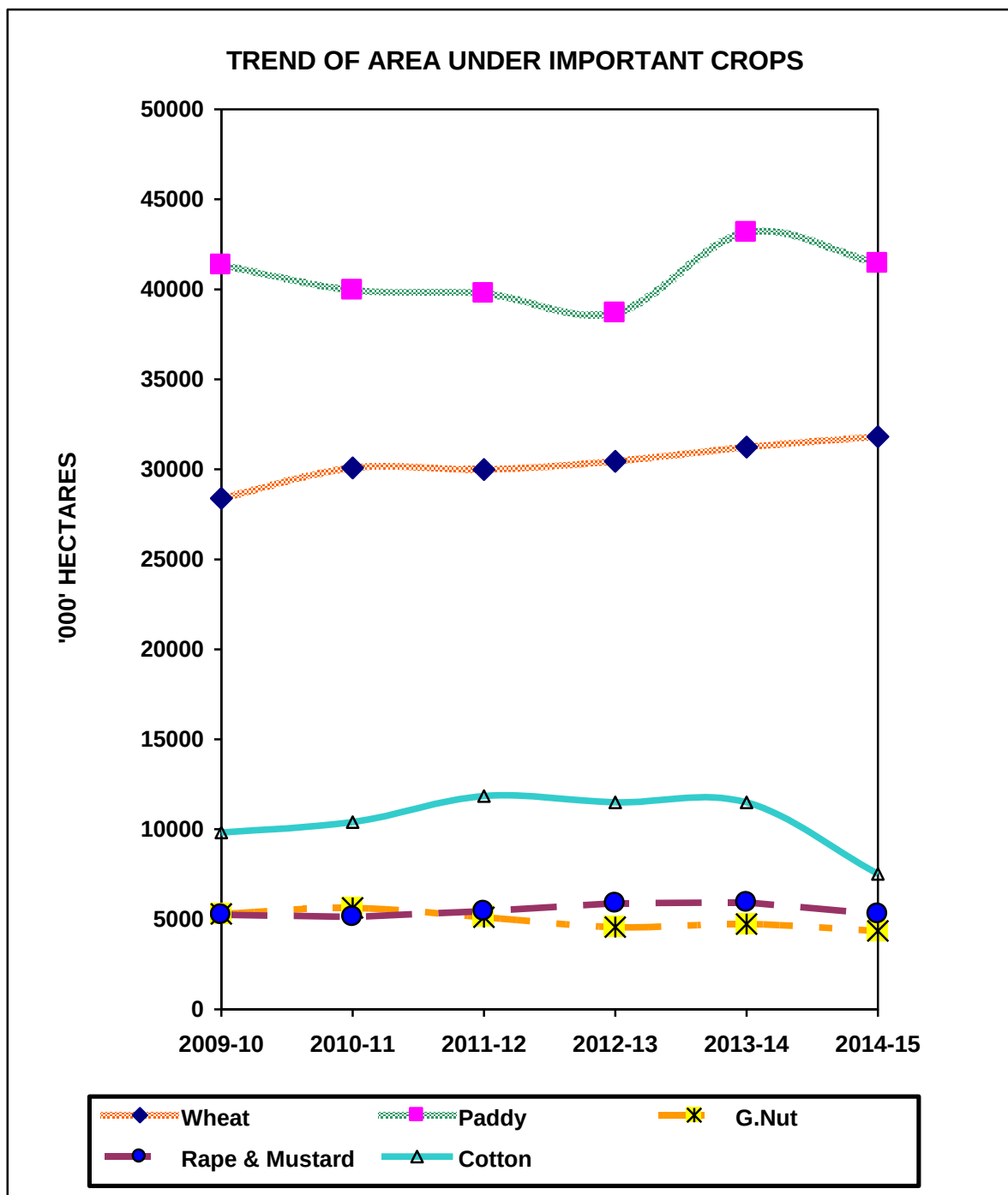




Chart – XI

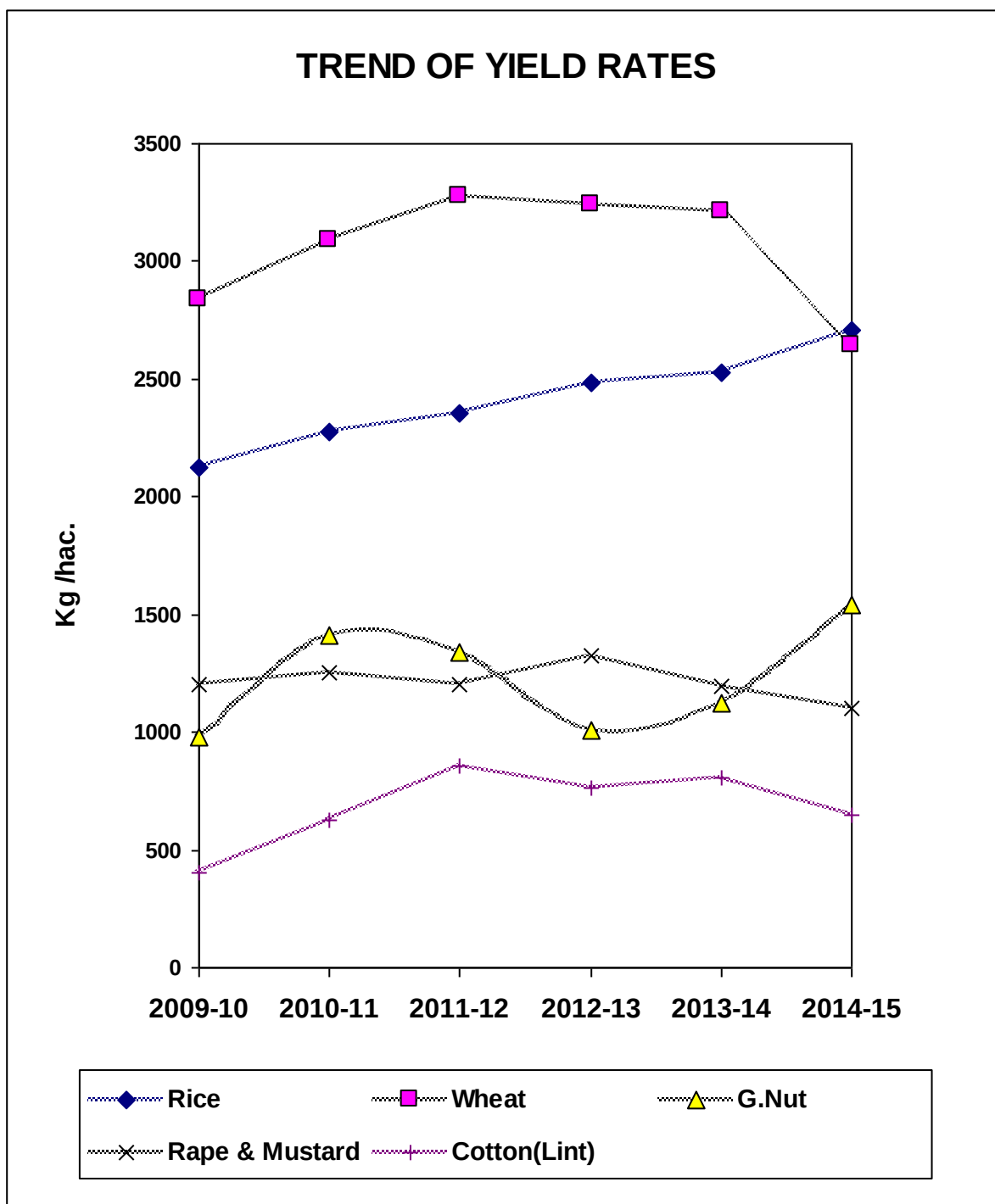
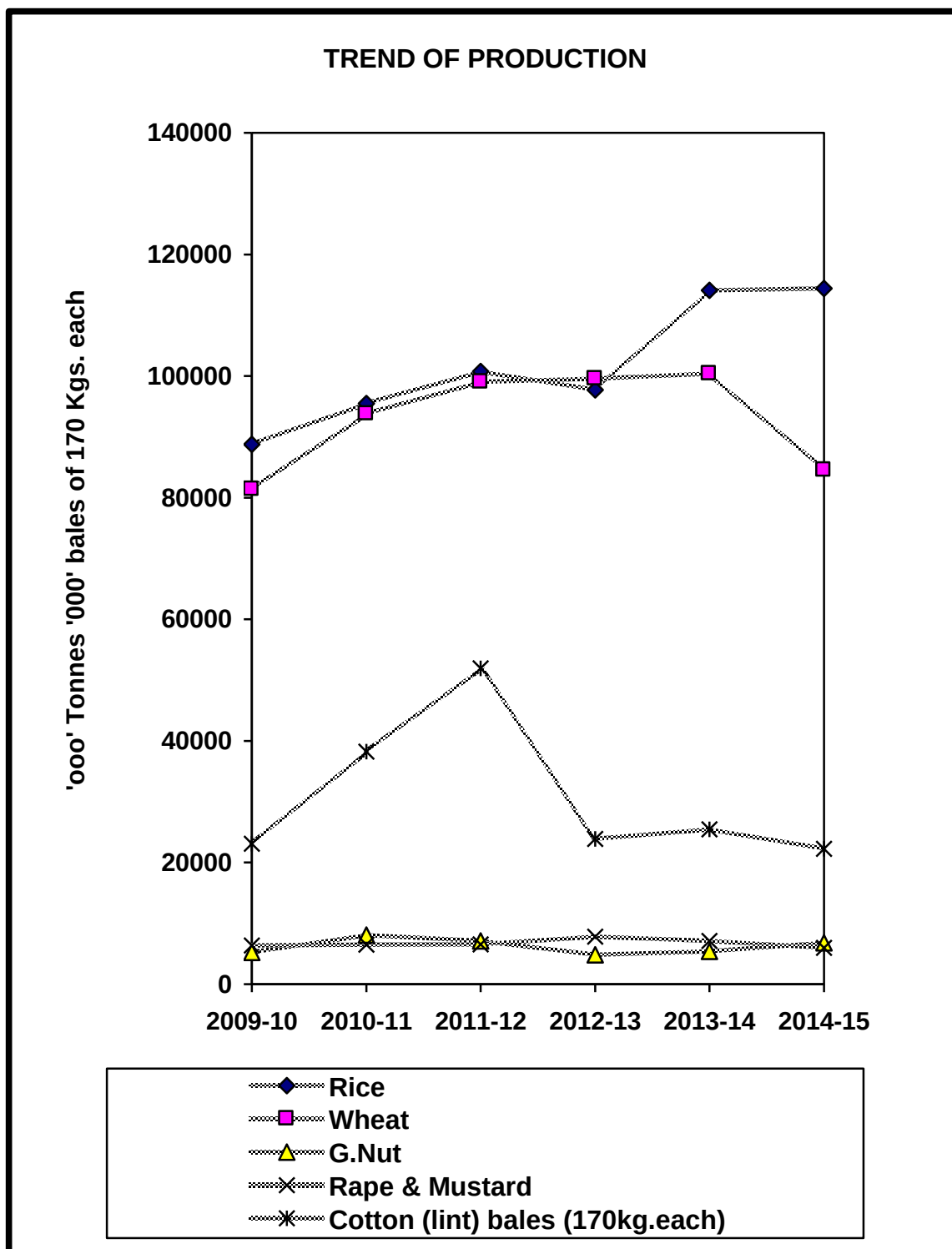




Chart - XII





11.6 Comparison of estimates of crop production for 2014-15 based on the CES results furnished by the States with the corresponding estimates issued by the Directorate of Economics and Statistics (DES), Union Ministry of Agriculture and Co-operation, shows differences in some cases. The details of such cases where the difference between the two estimates is more than 5% in area, production or average yield rate are presented in **Annex–VI**. There may be several reasons for such deviations, some of which are listed as follows:-

- (i) *Non-adoption of survey estimates for preparing official estimates for some crops in the States:* This may be due to the small size of sample adopted for these crops.
- (ii) *Adoption of survey estimates only for part of the State or part of the year (season)*
- (iii) Utilisation of previous year's area figures for official estimates.



ANCILLARY DATA

12

- 12.1 Ancillary information regarding use of inputs such as irrigation, variety of seeds, fertilizers, manures and pesticides etc. are collected in the primary schedule for crop cutting experiments. An analysis of input data by multi-fold classification, providing an idea about the extent of adoption of improved agricultural practices, enables proper appreciation of the observed yield differentials.
- 12.2 In certain States, the sampling design provides for stratification at planning stage itself. The inputs considered for this purpose are irrigation, variety of seed or both for various crops. For these crops, separate estimates of average yield for each category are available as per standard procedure. In cases where pre-stratification is not envisaged, NSSO has been advocating post-stratification analysis of the experiments according to four fold classification (Irrigated, Un-irrigated, High yielding variety and Local variety) for major crops like Rice, Jowar, Bajra, Maize and Wheat and two fold classification (Irrigated and Un-irrigated) for other crops. Under the procedure suggested, the estimates of average yield for each category are worked out as simple average at the stratum level and as weighted average at district level using corresponding area as weights. Likewise, the district level estimates are pooled in a similar manner to arrive at State level estimates. It has further been suggested that in the absence of area figures for different categories based on girdawari, TRS estimates of area may be used as weights to work out estimates at district as well as State level.
- 12.3 Preference of area figures over number of experiments adopted earlier as weights has distinct advantages and as such the procedure is being progressively adopted in many States. However, number of experiments continue to be used as weights in a large number of cases and as such average yield in such cases may not tally with the averages worked out on the basis of area figures as respective weights. Such cases are listed in **Table-18**.



Table-18: States where number of experiments have been used as weights instead of area for yield calculation during 2014-15

Sl.No.	State	Crop
1.	Assam	All Crops
2.	Himachal Pradesh	All Crops
3.	Madhya Pradesh	All Crops
4.	West Bengal	All Crops

12.4 Data according to four-fold classifications for crops of Rice, Jowar, Bajra, Maize and Wheat were not received from States listed below in **Table-19**.

Table-19: Non-receipt of data on four fold classification during 2014-15

Sl.No.	State	Crop
1.	Gujarat	Rice, Jowar, Bajra, Maize and Wheat
2.	Jammu & Kashmir	Rice, Maize and Wheat
3.	Jharkhand	Rice, Maize and Wheat
4.	Uttar Pradesh	Rice, Jowar, Bajra, Maize and Wheat

12.5 On account of operational problems, it is noticed that data as per the two fold classifications i.e. irrigated and un-irrigated, were not received (**Table-20**) from the following States for the crops mentioned against each:-

Table-20: Non-receipt of data on two fold classification during 2014-15

Sl. No.	State	Crop
1.	Gujarat	All Crops
2.	Jammu & Kashmri	All Crops
3..	Jharkhand	All Crops.
4.	Maharashtra	Arecanut, Cashewnut and Coconut.
5.	Kerala	All Crops except Rice.
6.	Rajasthan	Masur, Moth, Chowla, Sugarcane, Coriander, Methi, Castor, Tara meera and Isabgol
7.	Uttar Pradesh	All Crops.



- 12.6 Estimates of yield rates calculated separately for irrigated and un-irrigated fields are presented in **Annex-VII**. Yield rates according to four-fold classification for five major crops are detailed in **Annex-VIII**.
- 12.7 Tabulation of CES data based on the extent of area benefited by improved agricultural practices, such as use of improved variety of seed, fertilizers, manures and application of pesticides has been attempted in this report. Information about proportion of area under different agricultural practices as reported by the States is presented in **Annex-IX**. This information has not been received from Gujarat, Jammu & Kashmir, Maharashtra and Uttar Pradesh for all the crops; Andhra Pradesh for Soyabean; Jharkhand for Barley & Masur; Rajasthan for Linseed; Kerala for all crops except Paddy & Tapioca and Madhya Pradesh for Banana & Papaya crops.



DRIAGE EXPERIMENTS

13

- 13.1 The produce which is harvested and weighed at the time of actual conduct of crop cutting experiments is often different from the marketable produce. The results of the Crop Estimation Surveys are presented in terms of the marketable produce. Therefore, determination of driage ratio, ratio of weight of marketable produce to that of the harvested produce is an important stage in the entire process. For this purpose, driage experiments are carried out in all the States. Such experiments are usually conducted in a sub-sample of plots selected for crop cutting experiments. Information enabling adequate insight about the procedure followed for different crops in various States is given in **Appendix-VI**. The details include information on the form of produce harvested for first weighment, the form of marketable produce, procedure for drawing the sub-sample for driage experiments, quantity of produce kept for driage, duration of the driage experiment, level of application of driage ratios, etc.
- 13.2 Results of the driage experiments for different crops, relevant details about the number of experiments planned and analysed, percentage recovery etc., for the year 2014-15 are given in **Annex-X (a)**. The recovery percentage shown in the Annex relates to the State level, although in actual practice, district level recovery percentages are worked out and used for estimating yield rate and production.
- 13.3 In view of the practical difficulties experienced by the field staff in conducting driage experiments, it was considered desirable to examine if the driage experiments could be conducted at a central place. Exploratory studies conclusively established the feasibility of arranging driage experiments at a Central place and accordingly, central driage experiments were conducted as a part of the programme of supervision of CES in the States from 1960-61 to 1971-72. State Governments were also requested to arrange driage experiments at a few selected centres in the CES series of crop cutting experiments.



The results of the driage experiments are not being received from the States regularly. The results for Central driage experiments for 2014-15 were received only from Assam, Karnataka, Odisha and Rajasthan. These results are presented in **Annex-X (b)**. It may be noted that in Assam, Karnataka and Odisha, field driage experiments are not conducted for the crops for which central driage experiments are planned and driage ratios used for CES results of these crops are based on Central driage experiments. Only in Rajasthan, Central driage experiments are still planned along with field driage experiments. Column (7) of **Annex-X (b)** shows the recovery percentage according to field driage experiments only for one State viz., Rajasthan in 2014-15. In Rajasthan, it is seen that loss in driage as per central driage is less for all crops except Gram from field driage.

- 13.4 As it can be seen from the procedure of conducting driage experiments that various resources have to be engaged, the experimental results are to be observed on several days and then the driage factor is to be calculated. This procedure also leads to wastage of grains etc. Instead of the conventional procedure of the driage experiments, moisture meter may be used to obtain the driage ratio. Moisture meter is an instrument to measure the moisture content in the grains from which the driage ratio can be calculated. The instrument was used by Govt. of Uttar Pradesh and the results obtained were compared with those of the conventional method. It was observed that the driage ratios obtained by the two methods were comparable. Other States may also start using moisture meter for calculating the driage ratio.

(Annexures & Appendices)



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ABBREVIATIONS USED IN ANNEXURES & APPENDICES

Agh.	Aghani
Agril.	Agricultural
Aut.	Autumn
Bha.	Bhadai
CAD	Command Area Development
CD	Cane Development
CES	Crop Estimation Surveys
Comb.	Combined
Comp.	Composite
Dev.	Development
E.	Early
Expts.	Experiments
F.C.	Food - Crops
Gar.	Garma
H	Hills
Ha.	Hectares
Hyv.	High Yielding Variety
Ir.	Irrigated
Kgs.	Kilograms
Kh	Kharif
Lv.	Local Variety
M x M	Meter x Meter
N.	Natu
NA	Not Available
NC	Not Collected/ Compiled
K/K/S	Kar/ Kuruvai / Sornavari
S/T/P	Samba/ Thalady/ Pishanam
N/K	Navarai / Kodai
NFC	Non Food Crops
NR.	Not Received
Plt.	Plant
Pln.	Plain
Reg.	Regular
Rt.	Ratoon
SASA	State Agricultural Statistics Authority
Stat.	Statistical
Sum.	Summer
Tra.	Traditional
V	Virginia
UI	Un- irrigated
Wint.	Winter
NAIS	National Agricultural Insurance Scheme
VIS	Village Insurance Scheme

ANNEX-I (a) : SAMPLE SIZE-TOTAL NUMBER OF EXPERIMENTS PLANNED UNDER CES DURING 2014-15

Sl. No.	S T A T E	Number of experiments planned under CES during								
		K H A R I F			R A B I			T O T A L		
		Food Crops	Non-Food Crops	Total	Food Crops	Non-Food Crops	Total	Food Crops	Non-Food Crops	Total
1	2	3	4	5	6	7	8	9	10	11
1.	Andhra Pradesh	8194	3992	12186	5984	1544	7528	14178	5536	19714
2.	Assam	5700	600	6300	3700	1250	4950	9400	1850	11250
3.	Bihar	87400	400	87800	18910	876	19786	106310	1276	107586
4.	Chhattisgarh	6476	1174	7650	4002	1790	5792	10478	2964	13442
5.	Goa	316	37	353	190	80	270	506	117	623
6.	Gujarat	4312	6394	10706	10590	2900	13490	14902	9294	24196
7.	Haryana	4096	940	5036	3278	1300	4578	7374	2240	9614
8.	Himachal Pradesh	2560	0	2560	2442	0	2442	5002	0	5002
9.	Jammu & Kashmir \$	2992	0	2992	2096	310	2406	5088	310	5398
10.	Jharkhand	11700	0	11700	12120	720	12840	23820	720	24540
11.	Karnataka **	42466	15428	57894	23794	8460	32254	66260	23888	90148
12.	Kerala	24885	2532	27417	1613	0	1613	26498	2532	29030
13.	Madhya Pradesh #	15900	8306	24206	23413	3366	26779	39313	11672	50985
14.	Maharashtra *	43026	19312	62338	24008	6262	30270	67034	25574	92608
15.	Meghalaya	1640	56	1696	324	0	324	1964	56	2020
16.	Odisha	33419	2596	36015	7737	3753	11490	41156	6349	47505
17.	Punjab	3006	698	3704	2646	542	3188	5652	1240	6892
18.	Rajasthan	34694	8560	43254	32850	16304	49154	67544	24864	92408
19.	Tamil Nadu	6516	2664	9180	0	0	0	6516	2664	9180
20.	Uttarakhand	4656	0	4656	3622	0	3622	8278	0	8278
21.	Uttar Pradesh	284090	16764	300854	269768	29736	299504	553858	46500	600358
22.	West Bengal	21036	5547	26583	20961	9222	30183	41997	14769	56766
23.	Dadra & Nagar Haveli	156	0	156	0	0	0	156	0	156
24.	Daman & Diu	28	0	28	0	0	0	28	0	28
25.	Puducherry	88	0	88	210	0	210	298	0	298
GRAND TOTAL		649352	96000	745352	474258	88415	562673	1123610	184415	1308025

Note :

1.* : Figures repeated for the year 2010-11 in the state of Maharashtra.

2 ** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.

3. \$:Data repeated for year 2011-12 Linseed, Potato, R&M and Saffron.

4. # : Figure repeated for the year 2013-14 in respect for crops Banana, Onion and Papaya for Madhya Pradesh.

ANNEX -I (b): SAMPLE SIZE - KHARIF FOOD CROPS UNDER CES DURING 2014-15

Sl. No.	STATE		Number of Experiments Planned under the crops										Total
			Paddy	Jowar	Bajra	Maize	Ragi	Red-gram	Green-gram	Black-gram	Sugarcane	Others	
1	2		3	4	5	6	7	8	9	10	11	12	13
1.	Andhra Pradesh	REG. Ir.	4060	0	0	0	0	0	0	0	0	0	
		REG.	0	0	0	0	0	0	0	0	0	0	
											0		
		REG. UI	224	0	0	0	0	0	0	0	0	0	
		Total	4284	104	462	208	190	620	138	104	1602	482	8194
2.	Assam	Aut.	2000	0	0	0	0	0	0	0	700	0	
		Wint.	3000	0	0	0	0	0	0	0	0	0	
		Total	5000	0	0	0	0	0	0	0	700	0	5700
3.	Bihar	Bha.Hyv.	0	0	0	4556	0	0	0	0	0	0	
		Bha.Lv.	0	0	0	6104	0	0	0	0	0	0	
		Bha.Ir.	280	0	0	0	0	0	0	0	0	0	
		Bha.UI.	560	0	0	0	0	0	0	0	0	0	
		Bha.	0	0	0	0	200	0	200	0	0	0	
		Agh.Hyv.Ir.	34626	0	0	0	0	0	0	0	0	0	
		Agh.Hyv.UI.	14880	0	0	0	0	0	0	0	0	0	
		Agh.Lv.Ir.	11354	0	0	0	0	0	0	0	0	0	
		Agh.Lv.UI.	13300	0	0	0	0	0	0	0	0	0	
		Total	75000	0	0	10660	200	0	200	0	740	600	87400
4.	Chhattisgarh	Ir. Hyv.	358	0	0	0	0	0	0	0	0	0	
		Ir.Lv.	158	0	0	0	0	0	0	0	0	0	
		UI.	3072	0	0	0	0	0	0	0	0	0	
		Total	3588	80	0	1362	0	1170	0	0	0	276	6476
5.	Goa		196	0	0	0	10	0	0	0	110	0	316
6.	Gujarat	Ir.	0	0	0	0	0	0	0	0	0	0	
		UI.	0	0	0	0	0	0	0	0	0	0	
		Total	0	894	2026	1240	152	0	0	0	0	0	4312
7.	Haryana	REG.	990	0	1532	144	0	360	0	0	1070	0	
		Total	990	0	1532	144	0	360	0	0	1070	0	4096
8.	Himachal Pradesh		990	0	0	1570	0	0	0	0	0	0	2560
9.	Jammu & Kashmir	\$	1230	0	0	1454	0	0	0	0	0	308	2992
10.	Jharkhand	Bha.	720	0	0	720	0	0	0	0	0	0	
		Agh.Hyv.	7800	0	0	0	0	0	0	0	0	0	
		Agh.Lv.		0	0	0	0	0	0	0	0	0	
		Total	8520	0	0	720	720	0	0	0	300	1440	11700
11.	Karnataka **	Hyv.Ir.	4646	1060	730	2592	1290	0	0	0	0	0	
		Hyv.UI.	1882	2390	1900	3806	3428	0	0	0	0	0	
		Tra.Ir.	364	0	20	8	20	0	0	0	0	0	
		Tra.UI.	1014	270	140	0	72	0	0	0	0	0	
		Total	7906	3720	2790	6406	4810	4734	2800	1090	1060	7150	42466

1	2	3	4	5	6	7	8	9	10	11	12	13
12.	Kerala	Aut.	2541	0	0	0	0	0	0	0	0	0
		Wint.	3318	0	0	0	0	0	0	0	0	0
		Total	5859	0	0	0	0	0	0	50	18976	24885
13.	Madhya Pradesh	Ir. Hyv.	1172	0	0	0	0	0	0	0	0	0
		Ir.Lv.	738	0	0	0	0	0	0	0	0	0
		UL	2916	0	0	0	0	0	0	0	0	0
		Total	4826	2412	594	3714	0	3186	0	0	1168	15900
14.	Maharashtra *	Ir.	0	0	0	0	0	0	0	0	0	0
		UL	0	0	0	0	0	0	0	0	0	0
		Comp.	0	0	0	0	0	0	0	0	0	0
		Total	5030	5042	3900	860	968	5818	6214	4916	10278	43026
15.	Meghalaya	Aut.	322	0	0	0	0	0	0	0	0	0
		Wint.	758	0	0	0	0	0	0	0	0	0
		Total	1080	0	0	0	0	0	0	0	560	1640
16.	Odisha	Aut.	6850	0	0	2879	1108	0	622	919	0	0
		Wint.	10560	0	0	131	578	0	1353	2351	504	0
		Total	17410	0	0	3010	1686	0	1975	3270	504	5564
17.	Punjab		1984	0	0	354	0	0	0	0	668	3006
18.	Rajasthan		794	2582	8754	5462	0	0	4320	2318	450	10014
19.	Tamil Nadu	K/K/S	428	0	0	0	0	0	0	0	0	0
		S/T/P	1260	0	0	0	0	0	0	0	0	0
		N/K	300	0	0	0	0	0	0	0	0	0
		REG.Ir.	0	440	240	256	160	0	132	112	0	0
		REG.UL	0	640	204	176	200	0	308	312	0	0
		REG.	0	0	0	0	0	336	0	0	468	544
		Total	1988	1080	444	432	360	336	440	424	468	544
20.	Uttarakhand		2958	0	0	0	1086	0	0	0	612	4656
21.	Uttar Pradesh		170256	8284	34224	31004	0	14024	1924	14716	9508	150
22.	West Bengal	Aus.	4826	0	0	0	0	0	0	0	0	0
		Aman.	13268	0	0	0	0	0	0	0	0	0
		Total	18094	0	0	1177	0	0	0	1765	0	21036
23.	Dadra & N.Haveli		78	0	0	0	78	0	0	0	0	156
24.	Daman & Diu		20	0	8	0	0	0	0	0	0	28
25.	Puducherry		88	0	0	0	0	0	0	0	0	88
Grand Total			338169	24198	54734	69777	10260	30248	18011	28603	27508	47844
% of area under CES to total area under the crop in the CES States (Ref.-Annex-v, Col.-4)			89	89	84@	90	86@	89@	97	88	95@	-

Note : -

1. Crops included under "Others" are:-

Andhra Pradesh:-	Korra (94) , Horsegram (40) and Chillies (348) under Regular Scheme.
Bihar :-	Potato Agh. (250) , Brinjal Agh. (250) and Tomato Agh. (100).
Chhattisgarh :-	Kodon-Kutki (276).
Gujarat:-	Moth (216) and Garlic (130)
Jammu & Kashmir:-	Saffron (102) and Potato (206).
Jharkhand	Potato Agh. (480), Tomato Agh. (480) and Brinjal (480).
Karnataka :-	Horsegram (2760),Navane (750),Save (370),Potato (190),Onion (860),Chillies (720),Avare (Sem) (710) and Cowpea (Lobia) (790).
Kerala :-	Arecanut (1620), Tapioca (1596), Cashewnut (1549), Pepper (1617), Cocoa (796), Banana (2384), Jackfruit (1618),Plantain (1622), Turmeric (1541), Pineapple (1572), and Ginger (1441), and Mango (1620).
Madhya Pradesh:-	Kodon-Kutki (1168).
Maharashtra :-	Arecanut (N.A.) and Cashewnut (N.A.).
Meghalaya:-	Ginger (560).
Odisha:-	Horsegram-Wint. (3229) and Potato-Wint. (2335).
Rajasthan :-	Chowla (520), Moth (2130) and Gwar (7364)
Tamil Nadu:-	Horsegram (320) ,Varagu (124), Samai (100).
Uttarakhand:-	Sawan (612).
Uttar Pradesh:-	Sawan (70) and Kodan (80).

2. @ : Percentage includes both Kharif and Rabi seasons.

3. * : Figures repeated for the year 2010-11 in the state of Maharashtra .

4. ** :Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.

5. \$:Data repeated for year 2011-12 for Potato and Saffron.

ANNEX- I (c) : SAMPLE SIZE - RABI FOOD CROPS UNDER CES 2014-15

Sl. No.	S T A T E		Number of experiments planned under crops									Total
			Paddy	Jowar	Wheat	Maize	Barley	Gram	Green-gram	Black-gram	Others	
1	2		3	4	5	6	7	8	9	10	11	12
1.	Andhra Pradesh	Reg.Ir	2868	0	0	0	0	0	0	0	0	
		Reg.	0	364	0	218	0	1262	292	498	482	5984
		Total	2868	364	0	218	0	1262	292	498	482	5984
2.	Assam	Sum	1500	0	850	0	0	0	0	500	850	3700
3.	Bihar	Rabi	0	0	0	500	300	800	500	0	0	
		Hyv.Ir	0	0	5930	0	0	0	0	0	0	
		Hyv.UI	0	0	140	0	0	0	0	0	0	
		Lv.Ir	0	0	4570	0	0	0	0	0	0	
		Lv.UI	0	0	0	0	0	0	0	0	0	
		Gar.Hyv.	340	0	0	260	0	0	0	0	0	
		Gar.Lv.	100	0	0	80	0	0	0	0	0	
		Gar.	0	0	0	0	0	0	0	0	0	
		Total	440	0	10640	840	300	800	500	0	5390	18910
4.	Chhattisgarh	Hyv.Ir	0	0	1302	0	0	0	0	0		
		Lv.Ir	0	0	232	0	0	0	0	0		
		Lv.UI	0	0	596	0	0	0	0	0		
		Total	0	0	2130	0	36	1264	0	0	572	4002
5.	Goa		190	0	0	0	0	0	0	0	0	190
6.	Gujarat	Ir	0	0	4380	0	0	0	0	0	0	
		UI	0	0	358	0	0	0		0	0	
		Total	252	300	4738	0	0	1360	0	0	3940	10590
7.	Haryana		0	0	2200	0	516	562	0	0	0	3278
8.	Himachal Pradesh		0	0	1784	0	658	0	0	0	0	2442
9.	Jammu & Kashmir \$		0	0	1938	0	0	0	0	0	158	2096
10.	Jharkhand	Hyv.	0	0	7800	0	0	0	0	0	0	
		Lv.	0	0		0	0	0	0	0	0	
		Total	0	0	7800	0	0	720	0	0	3600	12120
11.	Karnataka **	Rabi Hyv.Ir	670	1102	1174	1560	0	0	0	0	0	
		Rabi Hyv.UI	0	2956	958	580	0	0	0	0	0	
		Rabi Tra.Ir	0	290	240	0	0	1358	0	0	0	
		Rabi Tra.UI	0	730	420	0	0	3522	0	0	0	
		Rabi.Hyv.	0	0	0	0	0	0	0	0	410	
		Rabi.HYV-UI	0	0	0	0	0	0	0	0	650	
		Sum.Hyv. Ir	2694	120	0	690	0	0	0	0	260	
		Sum. Tra. Ir.	0	0	0	0	0	0	0	0	0	
		Rabi Ir	0	0	0	0	0	0	0	0	0	
		Rabi UI	0	0	0	0	0	0	0	0	0	
		Total	3364	5198	2792	2830	0	4880	100	130	4500	23794

ANNEX 1(c) (Contd....)

1	2		3	4	5	6	7	8	9	10	11	12	
12.	Kerala	Rabi	0	0	0	0	0	0	0	0	0		
Sum.		1613	0	0	0	0	0	0	0	0	0		
Total		1613	0	0	0	0	0	0	0	0	0		1613
13.	Madhya Pradesh #	Hyv.Ir	0	0	5762	0	0	0	0	0	0		
		Lv.Ir	0	0	1978	0	0	4608	0	0	0		0
		Lv.UI	0	0	2686	0	0	4616	0	0	0		0
		Total	0	0	10426	0	810	9224	0	0	2953		23413
14.	Maharashtra *	Ir	0	0	0	0	0	0	0	0	0		
		UI	0	0	0	0	0	0	0	0	0		0
		Sum.	500	0	0	0	0	0	0	0	0		0
		Total	500	8848	8708	496	0	5456	0	0	0		24008
15.	Meghalaya		0	0	0	0	0	0	0	0	324	324	
16.	Odisha	Win.	0	0	0	0	0	0	0	0	0		
		Sum.	4662	0	162	326	0	0	2157	322	0		0
		Total	4662	0	162	326	0	0	2157	322	108		7737
17.	Punjab		0	0	2300	0	246	100	0	0	0	2646	
18.	Rajasthan	Ir	0	0	0	0	0	0	0	0	0		
		UI	0	0	0	0	0	0	0	0	0		0
		Comp.	0	0	0	0	0	0	0	0	0		0
		Total	0	0	17114	0	2758	8544	0	0	4434		32850
19.	Tamil Nadu		0	0	0		0	0	0	0	0	0	
20.	Uttarakhand		0	0	2958	0	664	0	0	0	0	3622	
21.	Uttar Pradesh	Zaid	0	0	0	0	0	0	0	0	664		
		Total	0	0	205960	60	1172	16342	600	700	44270	269768	
22.	West Bengal	Sum.	11647	0	0	0	0	0	0	0	0		
		Total	11647	0	3143	0	0	1009	655	0	4507	20961	
23.	Dadra & Nagar Haveli		0	0	0	0	0	0	0	0	0	0	
24.	Daman & Diu		0	0	0	0	0	0	0	0	0	0	
25.	Puducherry	I.	140	0	0	0	0	0	0	0	0		
		II.	70	0	0	0	0	0	0	0	0		0
		Total	210	0	0	0	0	0	0	0	0		0
Grand Total			27246	14710	285643	4770	7160	51523	4304	2150	76088	474258	
% of area under CES to total area under the crop in the CES States. (Ref. Annex-v, col.-4)			99	19	93	70	86	96	82	61	-	-	

Note :-

1. Crops included under "Others" are :-

Andhra Pradesh :-	Ragi (96), Horsegram (120) and Chillies (266) under regular Scheme.
Assam :-	Potato (850)
Bihar:-	Lakh (340), Masur (900), Chillies (250), Banana (500), Mango (600), Guava (250), Potato (300), Onion (300), Brinjal (250), Tomato (200), Cauliflower (300), Jackfruit (300), Lichi (300) and Redgram (600).
Chhattisgarh :-	Lakh (262), Potato (230), Chillies (32) and Onion (48) .
Gujarat:-	Bajra-Sum.(1720), Cumin (1700) and Potato (520)
Jammu & Kashmir :-	Potato (158).
Jharkhand:-	Redgram (720), Brinjal (720), Potato (720), Tomato (720) , Onion (720) and Masur (0).
Karnataka:-	Ragi-Rabi-Hyv -Irr (410), HYV-UI (650) Sum.Hyv.(260), Horsegram (3020), Potato (130), Onion- Rabi(30), Summer (0) and Chillies-Rabi (0), Summer (0).
Madhya Pradesh:-	Lakh (652), Chillies(473), Banana (138), Potato (1016), Onion(642) and Papaya (32).
Meghalaya :-	Potato-Sum.(324).
Odisha:-	Ragi-Sum.(84) and Horsegram Sum. (24).
Rajasthan :-	Cumin (2954), Methi (768), Masur (220) and Coriander (492).
Uttar Pradesh:-	Masur (18416), Peas (6932), Sawan-Zaid (20), Potato (18872), Onion- Rabi (50) and Onion- Zaid (644).
West Bengal:-	Lakh (492), Masur (2909), Peas(356), Redgram (265) and Sugarcane(485).

1. * : Figures repeated for the year 2010-11 in the state of Maharashtra.

2. \$: Data repeated for year 2013-14 Potato.

3. ** : Figures repeated for the year 2013-14 for all crops for Karnataka.

4. # : Figure repeated for the year 2013-14 in respect for crops Banana, Onion and Papaya for Madhya Pradesh.

ANNEX- I (d): SAMPLE SIZE- KHARIF NON-FOOD CROPS UNDER CES 2014-15

Sl. No.	S T A T E		Number of experiments planned under crops										
			Ground-nut	Sesa-mum	Castor	Coco-nut	Niger	Cotton	Jute	Mesta	Sun-flower	Soya-bean	Total
1	2		3	4	5	6	7	8	9	10	11	12	13
1.	Andhra Pradesh		2572	210	142	0	0	718	0	200	150	0	3992
2.	Assam		0	0	0	0	0	0	600	0	0	0	600
3.	Bihar		0	0	0	0	0	0	200	200	0	0	400
4.	Chhattisgarh		560	124	0	0	0	0	0	0	0	490	1174
5.	Goa		37	0	0	0	0	0	0	0	0	0	37
6.	Gujarat	Ir	0	0	0	0	0	0	0	0	0	0	
		UI	0	0	0	0	0	0	0	0	0	0	
		Total	2272	1396	2726	0	0	0	0	0	0	0	6394
7.	Haryana		0	0	0	0	0	940	0	0	0	0	940
8.	Himachal Pradesh		0	0	0	0	0	0	0	0	0	0	0
9.	Jammu & Kashmir		0	0	0	0	0	0	0	0	0	0	0
10.	Jharkhand		0	0	0	0	0	0	0	0	0	0	0
11.	Karnataka **	Ir	1100	0	0	0	0	650	0	0	1720	0	
		UI	4238	1960	0	0	0	1230	0	0	2830	0	
		Total	5338	1960	670	0	0	1880	0	0	4550	1030	15428
12.	Kerala		0	102	0	2430	0	0	0	0	0	0	2532
13.	Madhya Pradesh		1096	1654	0	0	0	998	0	0	0	4558	8306
14.	Maharashtra *	Ir	0	0	0	0	0	0	0	0	0	0	
		UI	0	0	0	0	0	0	0	0	0	0	
		Comp.	0	0	0	0	0	0	0	0	0	0	
		Total	3030	1478	0	0	692	8674	0	0	1056	4382	19312
15.	Meghalaya		0	0	0	0	0	0	56	0	0	0	56
16.	Odisha	Aut.	1034	301	0	0	0	0	156	0	0	0	
		Wint.	153	952	0	0	0	0	0	0	0	0	
		Total.	1187	1253	0	0	0	0	156	0	0	0	2596
17.	Punjab		0	0	0	0	0	698	0	0	0	0	698
18.	Rajasthan		2092	3198	0	0	0	1576	0	0	0	1694	8560
19.	Tamil Nadu	Reg.Ir	700	216	0	0	0	564	0	0	48	0	1528
		Reg.UI	460	256	0	0	0	256	0	0	164	0	1136
		Reg.	0	0	0	0	0	0	0	0	0	0	0
		Total	1160	472	0	0	0	820	0	0	212	0	2664
20.	Uttarakhand		0	0	0	0	0	0	0	0	0	0	0
21.	Uttar Pradesh		6016	9600	0	0	0	80	0	0	0	1068	16764

Annex 1(d) (Contd...)

1	2	3	4	5	6	7	8	9	10	11	12	13
22.	West Bengal	0	0	0	0	0	0	5300	247	0	0	5547
23.	Dadra & N.Haveli	0	0	0	0	0	0	0	0	0	0	0
24.	Daman & Diu	0	0	0	0	0	0	0	0	0	0	0
25.	Puducherry	0	0	0	0	0	0	0	0	0	0	0
Grand Total		25360	21447	3538	2430	692	16384	6312	647	5968	13222	96000
% of area under CES to total area under the crop in the CES States. (Ref. Annex-v, Col.-4)		98	89	93	100	68	34	99	91	98	95	-

Note:-

- * : Figures repeated for the year 2010-11 in the state of Maharashtra.
- ** Figures repeated for the year 2013-14 for all crops for Karnataka.

ANNEX 1(e) - SAMPLE SIZE - RABI NON -FOOD CROPS UNDER CES 2014-15

Sl. No.	S T A T E		Number Of Experiments Planned under the Crops									Total
			Ground Nut.	Sesamum	Rape & Mustard	Linseed	Safflower	Sunflower	Tarameera	Tobacco	Isabgo	
1	2		3	4	5	6	7	8	9	10	11	12
1.	Andhra Pradesh	(Reg.)	672	80	0	0	0	340	0	(N) 158	0	
										(V) 294	0	1544
		Total	672	80	0	0	0	340	0	452	0	1544
2.	Assam		0	0	1250	0	0	0	0	0	0	1250
3.	Bihar		0	0	876	0	0	0	0	0	0	876
4.	Chhatisgarh		0	0	1030	760	0	0	0	0	0	1790
5.	Goa		80	0	0	0	0	0	0	0	0	80
6.	Gujarat		1800	0	1100	0	0	0	0	0	0	2900
7.	Haryana		0	0	1040	0	0	260	0	0	0	1300
8.	Himachal Pradesh		0	0	0	0	0	0	0	0	0	0
9	Jammu & Kashmir \$		0	0	286	24	0	0	0	0	0	310
10.	Jharkhand		0	0	720	0	0	0	0	0	0	720
11.	Karnataka **	Rabi-Ir	0	0	0	0	0	1764	0	0	0	
		Rabi UI	70	0	0	0	0	2436	0	0	0	
		Sum.Ir	0	0	0	0	0	1490	0	0	0	
		Sum.UI	0	0		0	0	0	0	0	0	
		Rabi/Sum.	0	0	0	470	1850	0	0	0	0	
		Total	70	0	0	470	1850	5690	0	380	0	8460
12.	Kerala		0	0	0	0	0	0	0	0	0	0
13.	Madhya Pradesh		0	0	2214	1152	0	0	0	0	0	3366
14.	Maharashtra *	Rabi	0	20	0	358	2812	642	0	56	0	
		Sum.	1922	0	0	0	0	452	0	0	0	
		Total	1922	20	0	358	2812	1094	0	56	0	6262
15.	Meghalaya		0	0	0	0	0	0	0	0	0	0
16.	Odisha	Wint.	0	0	2083	0	0	0	0	0	0	
		Sum.	1001	669	0	0	0	0	0	0	0	
		Total	1001	669	2083	0	0	0	0	0	0	3753
17.	Punjab		0	0	542	0	0	0	0	0	0	542
18.	Rajasthan	Ir	0	0	0	0	0	0	0	0	0	0
		UI	0	0	0	0	0	0	0	0	0	0
		Comp.	0	0	0	0	0	0	0	0	0	0
		Total	0	0	13274	0	0	0	1260	0	1770	16304
19.	Tamil Nadu		0	0	0	0	0	0	0	0	0	0
20.	Uttarakhand		0	0	0	0	0	0	0	0	0	0
21.	Uttar Pradesh	Rabi	0	0	0	0	0	0	0	124	0	
		Zaid	0	0	0	0	0	60	0	20	0	
		Total	0	0	29452	80	0	60	0	144	0	29736

ANNEX 1(e) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12
22.	West Bengal	507	3316	5137	262	0	0	0	0	0	9222
23.	Dadra & N.Haveli	0	0	0	0	0	0	0	0	0	0
24.	Daman & Diu	0	0	0	0	0	0	0	0	0	0
25.	Puducherry	0	0	0	0	0	0	0	0	0	0
	Grand Total	6052	4085	59004	3106	4662	7444	1260	1032	1770	88415
	% of area under CES to total area under the crop in the CES States. (Ref. Annex-v, Col.4)	83	85	92	66	91	88	97	60	98	-

Note :-

1. * : Figures repeated for the year 2010-11 in the state of Maharashtra.
2. \$: Data repeated for year 2011-12 Linseed and R&M.
3. ** : 21-03-2018 Figures repeated for the year 2013-14 for all crops for Karnataka.

ANNEX - II : TRAINING OF PRIMARY WORKERS UNDER CES 2014-15

Sl. No.	STATE	AGENCY	Number of Centres			Attendance of Primary Staff.				
			Total	Covered by		Total Strength	Total Called	Total Attended		Trained by NSSO officer
				NSSO				In Numbers	In Percentage (%)	
				As training officers	As observers					
1	2	3	4	5	6	7	8	9	10	11
1.	Andhra Pradesh	Statistical	N.A.							
		Agriculture								
2.	Assam	Statistical	N.A.							
3.	Bihar	Revenue	N.A.							
		Statistical	N.A.							
		Agriculture	N.A.							
4	Chhatisgarh	Statistical/Agriculture	27	-	27	2005	2005	1620	81	-
		Agriculture								
5.	Goa	Agriculture (Kharif)	1	-	-	16	16	16	100	-
		Agriculture (Rabi)	1	-	-	21	21	21	100	-
6.	Gujarat	Agriculture	N.A.							
7.	Haryana	Agriculture (Kharif)	35	5	35	739	739	731	99	-
		Revenue (Kharif)				-	-	-	-	
		Agriculture (Rabi)	35	4	30	672	672	650	97	-
		Revenue (Rabi)				-	-	-	-	-
8.	Himachal Pradesh	Revenue (Kharif)	10	-	8	190	190	159	84	-
		Agriculture (Kharif)	10	10	-	168	168	161	96	161
		Revenue (Rabi)	8	-	8	190	190	159	84	-
		Agriculture (Rabi)	10	10	-	168	168	161	96	-
9.	Jammu &	Revenue (Kharif)	N.A.							
	Kashmir	Revenue (Rabi)								
10.	Jharkhand	Agriculture	N.A.							
11.	Karnataka	Revenue	173	-	16	7580	5940	5230	88	-
		Agriculture	197	-	14	4520	3485	2985	86	-
		Rural Development & Panchayati Raj	171	-	6	5526	3850	3500	91	
12.	Kerala	Statistical	14	-	-	1065	1065	996	94	-
13.	Madhya Pradesh	Revenue	47	-	47	5937	5937	4877	82	-
14.	Maharashtra	Revenue (Kharif)	19	-	19	913	913	913	100	-
		Zila Parishad (Kharif)								-
		Agriculture (Kharif)								-
		Revenue (Rabi)	22	-	22	1212	1212	1183	98	-
		Zila Parishad (Rabi)								-
		Agriculture (Rabi)								-
15.	Meghalaya	Statistical	N.A.							
16.	Odisha	Statistical	30	-	-	456	456	456	100	-
17.	Punjab	Agriculture (Kharif)	75	2	75	656	656	656	100	-
		Agriculture (Rabi)	80	4	83	645	645	645	100	-

1	2	3	4	5	6	7	8	9	10	11
18.	Rajasthan	Agriculture (Kharif)	94	13	90	2789	2789	2789	100	-
		Agiculture (Rabi)	85	7	83	2917	2917	2917	100	2872
19.	Tamil Nadu	Agriculture	3	-	3	939	939	907	97	159
20.	Uttarakhand	Revenue (Kharif)	65	0	0	1801	1801	1009	56	0
		Revenue (Plain)	52	0	0	1347	1347	841	62	N.A.
		Revenue (Hills)	16	0	0	454	454	312	69	N.A.
21.	Uttar Pradesh	Revenue (Kharif)	56	-	62	873	873	749	86	-
		Revenue (Rabi)	19	-	27	841	841	781	93	-
		Revenue (Zaid)	58	-	58	1113	1113	1022	92	-
		Cane Dev. Staff	-	-	-	-	-	-	-	-
		Cotton Dev. Staff								
22.	West Bengal	Statistical	18	-	-	233	233	233	100	-
23.	Dadra & Nagar	Development & Planning	-	-	-	7	7	5	71	-
	Haveli	Division Soil Conservation	-	-	-	10	10	10	100	-
		Agriculture Deptt.	-	-	-	3	3	3	100	
24.	Daman & Diu	Rural Development	-	-	-	4	4	4	100	-
		Revenue Department	-	-	-	7	7	7	100	-
		Statistical Department	-	-	-	3	3	3	100	-
25.	Puducherry	Statistical (Kharif)	N.A.							
		(Rabi-I)	1	-	-	11	11	11	100	
		(Rabi-II)	1	-	-	7	7	7	100	
Total			1433	55	713	46038	41687	36729	88	3192

Note: (i) : Figures in col. 10 indicate the percentage of col. 9 to col. 8.

ANNEX III(a):SUPERVISION OF FIELD WORK-ALL CROPS (SEASON-WISE) UNDER CES 2014-15

Sl. No.	S T A T E	Season	Food / Non Food Crops	Number of experiments planned	Number & percentage of experiments Supervised by											
					State Statistical Department				Other State Department				NSSO			
					Total	%	At Harvest	%	Total	%	At Harvest	%	Total	%	At Harvest	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1.	Andhra Pradesh	Kharif	Food	8194	314	4	314	4	Not Available				571	7	548	7
			Non-Food	3992	166	4	166	4					274	7	272	7
			Comb.	12186	480	4	480	4					845	7	820	7
		Rabi	Food	5984	142	2	141	2					250	4	244	4
			Non-Food	1544	30	2	30	2					50	3	41	3
			Comb.	7528	172	2	171	2					300	4	285	4
		Total		19714	652	3	651	3					1145	6	1105	6
		Kharif	Food	5700	807	14	807	14	Not Available				232	4	232	4
			Non-Food	600	122	20	122	20					26	4	26	4
			Comb.	6300	929	15	929	15					258	4	258	4
			Food	3700	611	17	611	17					154	4	154	4
			Non-Food	1250	200	16	200	16					68	5	68	5
			Comb.	4950	811	16	811	16					222	4	222	4
		Total		11250	1740	15	1740	15					480	4	480	4
3.	Bihar	Kharif	Food	87400	699	1	699	1	20	0	20	0	340	0	302	0
			Non-Food	400	Not Available											
			Comb.	87800	699	1	699	1	20	0.02	20	0.02	340	0	302	0
		Rabi	Food	18910	452	2.4	452	2.4	31	0.16	31	0.16	336	2	324	2
			Non-Food	876	26	3	26	3	0	0	0	0	34	4	34	4
			Comb.	19786	478	2.4	478	2.4	31	0.16	31	0.16	370	2	358	2
		Total		107586	1177	1	1177	1	51	0.05	51	0.05	710	0.7	660	0.6
		Kharif	Food	6476	160	2	160	2	934	14	672	10	198	3	196	3
			Non-Food	1174	Not Available				18	2	12	1	Not Available			
			Comb.	7650	160	2	160	2	952	12	684	9	198	3	196	3
			Food	4002	84	2	82	2	162	4	82	2	80	2	80	2
			Non-Food	1790	66	4	64	4	106	6	42	2	70	4	70	4
			Comb.	5792	150	3	146	3	268	5	124	2	150		150	
		Total		13442	310	2	306	2	1220	9	808	6	348	3	346	3
5.	Goa @	Kharif	Food	316	134	42	116	37	Not Available							
			Non-Food	37	14	38	12	32								
			Comb.	353	148	42	128	36								
		Rabi	Food	190	78	41	70	37								
			Non-Food	80	22	28	20	25								
			Comb.	270	100	37	90	33								
		Total		623	248	40	218	35								

ANNEX III (a) (Contd..)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
6.	Gujarat	Kharif	Food	4312	1228	28	1228	28	1040	24	1040	24	136	3	132	3				
			Non-Food	6394	1800	28	1800	28	1246	19	1246	19	248	4	248	4				
			Comb.	10706	3028	28	3028	28	2286	21	2286	21	384	4	380	4				
		Rabi	Food	10590	3206	30	3206	30	2734	26	2734	26	182	2	182	2				
			Non-Food	2900	610	21	610	21	546	19	546	19	48	2	48	2				
			Comb.	13490	3816	28	3816	28	3280	24	3280	24	230	2	230	2				
		Total		24196	6844	28	6844	28	5566	23	5566	23	614	3	610	3				
7.	Haryana	Kharif	Food	4096	198	5	100	2	706	17	532	13	260	6	260	6				
			Non-Food	940	20	2	20	2	146	16	128	14	53	6	53	6				
			Comb.	5036	218	4	120	2	852	17	660	13	313	6	313	6				
		Rabi	Food	3278	78	2	48	1	576	18	438	13	273	8	273	8				
			Non-Food	1300	32	2	24	2	202	16	174	13	100	8	100	8				
			Comb.	4578	110	2	72	2	778	17	612	13	373	8	373	8				
		Total		9614	328	3	192	2	1630	17	1272	13	686	7	686	7				
8.	Himachal Pradesh	Kharif	Food	2560	202	8	202	8	Not Available				138	5	136	5				
			Non-Food	Not Available				Not Available												
			Comb.	2560	202	8	202	8					138	5	136	5				
		Rabi	Food	2442	170	7	170	7					130	5	130	5				
			Non-Food	Not Available				Not Available												
			Comb.	2442	170	7	170	7					130	5	130	5				
		Total		5002	372	7	372	7					268	5	266	5				
9.	Jammu & Kashmir \$	Kharif	Food	2992	156	5	140	5	Not Available				148	5	138	5				
			Non-Food	Not Available																
			Comb.	2992	156	5	140	5					0	0	0	0	148	5	138	5
		Rabi	Food	2096	119	6	99	5									120	6	116	6
			Non-Food	310	47	15	27	9									0	-	0	-
			Comb.	2406	166	7	126	5					0	0	0	0	120	5	116	5
		Total		5398	322	6	266	5					0	0	0	0	268	5	254	5
10.	Jharkhand	Kharif	Food	11700	Not Available								118	1	118	1				
			Non-Food	0									Not Available							
			Comb.	11700									118	1	118	1				
		Rabi	Food	12120									80	1	78	1				
			Non-Food	720									20	3	20	3				
			Comb.	12840									100	1	98	1				
		Total		24540									218	1	216	1				
11.	Karnataka **	Kharif	Food	42466	5089	12	5037	12	7380	17	7352	17	436	1	426	1				
			Non-Food	15428	1946	13	1924	12	3162	20	3158	20	162	1	155	1				
			Comb.	57894	7035	12	6961	12	10542	18	10510	18	598	1	581	1				
		Rabi	Food	23794	2464	10	2452	10	3550	15	3540	15	188	1	182	1				
			Non-Food	8460	902	11	900	11	985	12	982	12	66	1	56	1				
			Comb.	32254	3366	10	3352	10	4535	14	4522	14	254	1	238	1				
		Total		90148	10401	12	10313	11	15077	17	15032	17	852	1	819	1				

ANNEX III (a) (Contd..)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
12.	Kerala	Kharif	Food	24885	6031	24	5237	21	0	0	0	0	370	1	369	1
			Non-Food	2532	1757	69	1757	69	0	0	0	0	50	2	48	2
			Comb.	27417	7788	28	6994	26	0	0	0	0	420	2	417	2
		Rabi	Food	1613	785	49	609	38	0	0	0	0	100	6	100	6
			Non-Food	Not Available												
			Comb.	1613	785	49	609	38	0	0	0	0	100	6	100	6
		Total		29030	8573	30	7603	26	0	0	0	0	520	2	517	2
13.	Madhya Pradesh #	Kharif	Food	15900	52	0.3	52	0.3	4945	31	4945	31	393	2	373	2
			Non-Food	8306	31	0.4	31	0.4	3266	39	3266	39	228	3	221	3
			Comb.	24206	83	0.3	83	0.3	8211	34	8211	34	621	3	594	2
		Rabi	Food	23413	115	0.5	115	0.5	5655	24	5655	24	390	2	384	2
			Non-Food	3366	26	1	26	1	829	25	829	25	132	4	130	4
			Comb.	26779	141	0.5	141	0.5	6484	24	6484	24	522	2	514	2
		Total		50985	224	0.4	224	0.4	14695	29	14695	29	1143	2	1108	2
14.	Maharashtra *	Kharif	Food	43026	Not Available								490	1	357	1
			Non-Food	19312									242	1	228	1
			Comb.	62338									732	1	585	1
		Rabi	Food	24008									390	2	362	2
			Non-Food	6262									16	0	14	0
			Comb.	30270									406	1	376	1
		Total		92608									1138	1	961	1
15.	Meghalaya @	Kharif	Food	1640	44	3	44	3	117	7	88	5	Not Available			
			Non-Food	56	1	2	1	2	3	5	2	4				
			Comb.	1696	45	3	45	3	120	7	90	5				
		Rabi	Food	324	9	3	9	3	73	23	18	6				
			Non-Food	Not Available												
			Comb.	324	9	3	9	3	73	23	18	6				
		Total		2020	54	3	54	3	193	10	108	5				
16.	Odisha	Kharif	Food	33419	11338	34	11338	34	29655	89	29655	89	650	2	645	2
			Non-Food	2596	748	29	748	29	2172	84	2172	84	0	0	0	0
			Comb.	36015	12086	34	12086	34	31827	88	31827	88	650	2	645	2
		Rabi	Food	7737	2885	37	2885	37	6362	82	6362	82	180	2	175	2
			Non-Food	3753	1256	33	1256	33	3110	83	3110	83	0	0	0	0
			Comb.	11490	4141	36	4141	36	9472	82	9472	82	180	2	175	2
		Total		47505	16227	34	16227	34	41299	87	41299	87	830	2	820	2
17.	Punjab \$	Kharif	Food	3006	150	5	134	4	505	17	491	16	306	10	305	10
			Non-Food	698	38	5	38	5	74	11	74	11	72	10	72	10
			Comb.	3704	188	5	172	5	579	16	565	15	378	10	377	10
		Rabi	Food	2646	228	9	191	7	495	19	461	17	271	10	267	10
			Non-Food	542	10	2	10	2	74	14	68	13	40	7	40	7
			Comb.	3188	238	7	201	6	569	18	529	17	311	10	307	10
		Total		6892	426	6	373	5	1148	17	1094	16	689	10	684	10

ANNEX III (a) (Contd..)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
18.	Rajasthan	Kharif	Food	34694	763	2	763	2	19438	56	19438	56	352	1	352	1		
			Non-Food	8560	229	3	229	3	4324	51	4324	51	155	2	153	2		
			Comb.	43254	992	2	992	2	23762	55	23762	55	507	1	505	1		
		Rabi	Food	32850	685	2	685	2	16225	49	16225	49	317	1	317	1		
			Non-Food	16304	302	2	302	2	9353	57	9353	57	84	1	84	1		
			Comb.	49154	987	2	987	2	25578	52	25578	52	401	1	401	1		
		Total		92408	1979	2	1979	2	49340	53	49340	53	908	1	906	1		
19.	Tamil Nadu	Kharif	Food	6516	3246	50	3246	50	Not Available				776	12	742	11		
			Non-Food	2664	1319	50	1319	50	Not Available				Not Available					
			Comb.	9180	4565	50	4565	50	0	0	0	0	776	8	742	8		
		Rabi	Food	Not Applicable														
			Non-Food															
			Comb.															
		Total		9180	4565	50	4565	50	0	0	0	0	776	8	742	8		
20.	Uttarakhand	Kharif	Food	4656	387	8	387	8	1236	27	1236	27	90	2	88	2		
			Non-Food	Not Available														
			Comb.	4656	387	8	387	8	1236	27	1236	27	90	2	88	2		
		Rabi	Food	3622	305	8	305	8	1091	30	1091	30	58	2	58	2		
			Non-Food	Not Available														
			Comb.	3622	305	8	305	8	1091	30	1091	30	58	2	58	2		
		Total		8278	692	8	692	8	2327	28	2327	28	148	2	146	2		
21.	Uttar Pradesh	Kharif	Food	284090	Not Available								1336	0	1323	0		
			Non-Food	16764									40	0.2	40	0.2		
			Comb.	300854									1376	0	1363	0		
		Rabi	Food	269768	Not Available								820	0	820	0		
			Non-Food	29736									100	0	99	0		
			Comb.	299504									920	0	919	0		
		Total		600358									2296	0.4	2282	0		
22.	West Bengal	Kharif	Food	21036	1262	6	1262	6	594	2.8	594	2.8	258	1	249	1		
			Non-Food	5547	312	6	312	6	66	1.2	66	1.2	80	1	80	1		
			Comb.	26583	1574	6	1574	6	660	2.5	660	2.5	338	1	329	1		
		Rabi	Food	20961	1207	6	1207	6	206	1.0	206	1.0	243	1	237	1		
			Non-Food	9222	796	9	796	9	38	0.4	38	0.4	157	2	155	2		
			Comb.	30183	2003	7	2003	7	244	0.8	244	0.8	400	1	392	1		
		Total		56766	3577	6	3577	6	904	1.6	904	1.6	738	1	721	1		
23.	Dadra & Nagar Haveli @	Kharif	Food	156	52	33	34	22	Not Available									
			Non-Food	Not Available														
			Comb.	156	52	33	34	22										
		Rabi	Food	Not Available														
			Non-Food															
			Comb.															
		Total		156	52	33	34	22										

ANNEX III (a) (Contd..)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
24.	Daman & Diu @	Kharif	Food	28	20	71	20	71	8	29	8	29	Not Available				
			Non-Food	Not Available													
			Comb.	28	20	71	20	71	8	29	8	29					
		Rabi	Food	Not Available													
			Non-Food														
			Comb.														
		Total		28	20	71	20	71	8	29	8	29					
25.	Puducherry	Kharif	Food	88	78	89	78	89	Not Available				10	11	10	11	
			Non-Food	Not Available									Not Available				
			Comb.	88	78	89	78	89					10	11	10	11	
		Rabi	Food	210	190	90	190	90					20	10	18	9	
			Non-Food	Not Available									Not Available				
			Comb.	210	190	90	190	90					20	10	18	9	
		Total		298	268	90	268	90									30
TOTAL %			Kharif	Food	649352	32410	10	31398	10	66578	23	66071	23	7608	1	7301	1
				Non-Food	96000	8503	15	8479	15	14477	28	14448	28	1630	2	1596	2
				Comb.	745352	40913	11	39877	11	81055	23	80519	23	9238	1	8897	1
			Rabi	Food	474258	13813	8	13527	8	37160	24	36843	24	4582	1	4501	1
				Non-Food	88415	4325	8	4291	8	15243	32	15142	32	985	1	959	1
				Comb.	562673	18138	8	17818	8	52403	26	51985	26	5567	1	5460	1
			Grand Total			1308025	59051	10	57695	10	133458	24	132504	24	14805	1	14357

Note :- (i) % : Percentage figures given under Col.7, 9, 11, 13, 15 and 17 are based on total figures in col. 5. The data in column 5 have been excluded for percentage calculation at all India level where data under any of columns 6, 8, 10, 12, 14 and 16 has not been received from concerned States.

(ii). * : Figures repeated for the year 2010-11 in the state of Maharashtra.

(iii)** : Figures repeated for the year 2011-12 in respect of crop Cowpea and for the year 2013-14 for all other crops for Karnataka.

(iv) # : Figure repeated for the year 2013-14 in respect for crops Banana, Onion and Papaya for Madhya Pradesh.

(v) \$\$: Data repeated for year 2011-12 for crops Linseed, Potato, R&M and Saffron.

(vi) @ : ICS Scheme is not operational in Goa.

(vii) \$: Data for state statistical department and other statistical department repeated for the year 2012-13 for all the crops in Punjab.

ANNEX III(b) SUPERVISION OF FIELD WORK - CROP-WISE UNDER CES 2014-15

Sl. No	S T A T E	Season	Number of Expts Planned	No.of Experiments Supervised by											
				State Statistical Departmen				Other State Department				N.S.S.O.			
				Total	%	At Harves	%	Total	%	At Harvest	%	Total	%	At Harvest	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Paddy															
1.	Andhra Pradesh	Kharif	4284	186	4	186	4	Not Available				300	7	281	7
		Rabi	2868	92	3	91	3					170	6	166	6
2.	Assam	Aut.	2000	259	13	259	13					80	4	80	4
		Wint.	3000	450	15	450	15					118	4	118	4
		Sum.	1500	232	15	232	15					40	3	40	3
3.	Bihar	Bha.	840	30	4	30	4	0	0	0	0	236	28	200	24
		Agh.	74160	609	1	609	1	20	0.03	20	0.03	36	0.05	36	0.05
		Gar.	440	16	4	16	4	0	0	0	0	34	8	30	7
4.	Chhattisgarh		3588	80	2	80	2	596	17	462	13	80	2	80	2
5.	Goa @	Kharif	196	90	46	76	39	Not Available							
		Rabi	190	78	41	70	37								
6.	Gujarat	Kharif	Not Available												
		Sum.	252	146	58	146	58	42	17	42	17	Not Available			
7.	Haryana		990	48	5	28	3	240	24	216	22	90	9	90	9
8.	Himachal Pradesh		990	76	8	76	8	Not Available				50	5	50	5
9.	Jammu & Kashmir		1230	58	5	52	4	Not Available				64	5	60	5
10.	Jharkhand	Bha.	720	Not Available								78	11	78	11
		Agh.	7800									20	0	20	0
11.	Karnataka ***	Kharif	7906	1028	13	1026	13	1436	18	1424	18	144	2	144	2
		Rabi	670	94	14	94	14	107	16	104	16	36	5	36	5
		Sum	2694	346	13	346	13	402	15	401	15	0	0	0	0
12.	Kerala	Aut.	2541	1207	48	779	31	0	0	0	0	100	4	100	4
		Wint.	3318	1542	46	1210	36	0	0	0	0	100	3	100	3
		Sum.	1613	785	49	609	38	0	0	0	0	100	6	100	6
13.	Madhya Pradesh		4826	8	0.2	8	0.2	1426	30	1426	30	100	2	100	2
14.	Maharashtra *	Kharif	5030	Not Available								75	1	72	1
		Sum	500									Not Available			
15.	Meghalaya @	Aut.	322	8	2	8	2	21	7	16	5	Not Available			
		Wint.	758	21	3	21	3	56	7	42	6				
16.	Odisha	Aut.	6850	2659	39	2659	39	6431	94	6431	94	220	3	218	3
		Wint.	10560	4138	39	4138	39	9993	95	9993	95	270	3	268	3
		Sum.	4662	1829	39	1829	39	3935	84	3935	84	140	3	135	3
17.	Punjab \$		1984	102	5	89	4	408	21	399	20	188	9	188	9
18.	Rajasthan	Kharif	794	1	0	1	0	384	48	384	48	Not Available			
19.	Tamil Nadu	K/K/S	428	211	49	211	49	Not Available				60	14	55	13
		S/T/P	1260	626	50	626	50	Not Available				120	10	117	9
		N/K	300	150	50	150	50	Not Available				40	13	40	13

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
20.	Uttarakhand		2958	243	8	243	8	750	25	750	25	50	2	50	2
21.	Uttar Pradesh		170256	Not Available								660	0	658	0
22.	West Bengal	Aus.	4826	303	6	303	6	74	1.5	74	1.5	98	2	89	2
		Aman	13268	754	6	754	6	488	3.7	488	3.7	160	1	160	1
		Sum.	11647	499	4	499	4	178	2	178	2	134	1	130	1
23.	Dadra and Nagar Haveli @		78	40	51	25	32	Not Available							
24.	Daman & Diu @	Kharif	20	16	80	16	80	4	20	4	20	Not Available			
25.	Puducherry	I	88	78	89	78	89	Not Available				10	11	10	11
		II	140	130	93	130	93					10	7	10	7
		III	70	60	86	60	86					10	14	8	11
Total			365415	19328	11	18313	10	26991	17	26789	17	4221	1	4117	1
2. JOWAR.															
1.	Andhra Pradesh	Kharif	104	8	8	8	8	Not Available				50	48	50	48
		Rabi	364	16	4	16	4					40	11	38	10
2.	Chhattisgarh		80	Not Available				14	17.5	8	10	Not Available			
3.	Gujarat	Kharif	894	258	29	258	29	150	17	150	17	Not Available			
		Rabi	300	118	39	118	39	54	18	54	18				
4.	Karnataka ***	Kharif	3720	453	12	453	12	572	15	570	15	42	1	42	1
		Rabi	5078	472	9	470	9	762	15	757	15	70	1	67	1
		Sum.	120	18	15	18	15	6	5	6	5	Not Available			
5.	Madhya Pradesh		2412	4	0.2	4	0.2	767	32	767	32	94	4	86	4
6.	Maharashtra *	Kharif	5042	Not Available								64	1	57	1
		Rabi	8848									148	2	127	1
7.	Rajasthan	Kharif	2582	88	3	88	3	1434	56	1434	56	59	2	59	2
8.	Tamil Nadu		1080	542	50	542	50	Not Available				60	6	59	5
9.	Uttar Pradesh		8284	Not Available								40	0	40	0
Total			38908	1977	12	1975	12	3759	25	3746	25	667	2	625	2
3. BAJRA.															
1.	Andhra Pradesh.		462	30	6	30	6	Not Available				36	8	36	8
2.	Gujarat	Kharif	2026	618	31	618	31	492	24	492	24	96	5	94	5
		Sum.	1720	542	32	542	32	406	24	406	24	Not Available			
3.	Haryana		1532	86	6	34	2	276	18	192	13	102	7	102	7
4.	Karnataka ***	Kharif	2790	292	10	288	10	366	13	366	13	48	2	46	2
5.	Madhya Pradesh		594	Not Available				128	22	128	22	Not Available			
6.	Maharashtra *		3900	Not Available								56	1	38	1
7.	Rajasthan		8754	144	2	144	2	5698	65	5698	65	60	1	60	1
8.	Tamil Nadu		444	221	50	221	50	Not Available				40	9	39	9

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
9.	Uttar Pradesh		34224	Not Available								150	0	150	0				
10.	Daman & Diu @		8	4	50	4	50	4	50	4	50	Not Available							
Total			56454	1937	11	1881	11	7370	42	7286	42	588	1	565	1				
4. MAIZE.																			
1.	Andhra Pradesh	Kharif	208	4	2	4	2	Not Available				50	24	50	24				
		Rabi	218	Not Available			Not Available												
2.	Bihar	Bha.	10660	32	0	32	0					Not Available				30	0	30	0
		Rabi	500	Not Available			Not Available												
		Gar.	340																
3.	Chhattisgarh		1362	40	3	40	3	228	17	180	13	40	3	40	3				
4.	Gujarat		1240	302	24	302	24	326	26	326	26	40	3	38	3				
5.	Haryana		144	2.0	-	-		18	13	12	8	18	13	18	13				
6.	Himachal Pradesh		1570	126	8	126	8	Not Available				88	6	86	5				
7.	Jammu & Kashmir		1454	64	4	60	4	Not Available				84	6	78	5				
8.	Jharkhand	Bha.	720	Not Available								20	3	20	3				
9.	Karnataka ***	Kharif	6406	800	12	784	12	1014	16	1012	16	50	1	50	1				
		Rabi	2140	230	11	230	11	352	16	352	16	Not Available							
		Sum.	690	56	8	56	8	44	6	44	6								
10.	Madhya Pradesh		3714	30	0.8	30	0.8	1558	42	1558	42	79	2	79	2				
11.	Maharashtra *	Kharif	860	Not Available															
		Rabi	496																
12.	Odisha	Aut.	2879	866	30	866	30	2548	89	2548	89	Not Available							
		Wint.	131	43	33	43	33	100	76	100	76	40	31	39	30				
		Sum.	326	154	47	154	47	260	80	260	80	Not Available							
13.	punjab \$		354	24	7	21	6	46	53	44	12	48	14	47	13				
14.	Rajasthan	Kharif	5462	150	3	150	3	3106	57	3106	57	50	1	50	1				
15.	Tamil Nadu		432	216	50	216	50	Not Available				40	9	36	8				
16.	Uttar Pradesh	Kharif	31004	Not Available								168	1	161	1				
		Rabi	60									Not Available							
17.	West Bengal		1177	57	5	57	5	12	1	12	1	Not Available							
Total			74547	3196	8	3171	8	9612	37	9554	37	845	1	822	1				
5. RAGI.																			
1.	Andhra Pradesh	Kharif	190	Not Available								Not Available							
		Rabi	96																
2.	Bihar	Bha.	200																
3.	Goa @		10	4	40			Not Available											
4.	Gujarat		152	50	33	50	33	72	47	72	47								
5.	Jharkhand		720	Not Available															
6.	Karnataka ***	Kharif	4810	618	13	612	13	942	20	942	20	40	1	40	1				
		Rabi	1060	108	10	108	10	214	20	214	20	Not Available							
		Sum.	260	16	6	16	6	28	11	28	11								

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7.	Maharashtra *		968	Not Available											
8.	Odisha	Aut.	1108	248	22	248	22	1019	92	1019	92	Not Available			
		Wint.	578	71	12	71	12	456	79	456	79				
		Sum.	84	40	48	40	48	69	82	69	82				
9.	Tamil Nadu		360	180	50	180	50					40	11	40	11
10.	Uttarakhand		1086	108	10	108	10	314	29	314	29	40	4	38	3
11.	Dadra and Nagar Haveli @		78	12	15	9	12	Not Available				Not Available			
		Not Available													
Total			11760	1455	15	1442	15	3114	33	3114	33	120	2	118	2
6. WHEAT.															
1.	Assam		850	122	14	122	14	Not Available				44	5	44	5
2.	Bihar		10640	392	4	392	4	14	0	14	0	228	2	224	2
3.	Chhattisgarh		2130	44	2	44	2	102	5	62	3	40	2	40	2
4.	Gujarat		4738	1282	27	1282	27	1326	28	1326	28	142	3	142	3
5.	Haryana		2200	70	3	46	2	378	17	300	14	180	8	180	8
6.	Himachal Pradesh		1784	130	7	130	7	Not Available				96	5	96	5
7.	Jammu & Kashmir		1938	103	5	91	5	Not Available				120	6	116	6
8.	Jharkhand		7800	Not Available								40	1	40	1
9.	Karnataka ***		2792	294	11	288	10	498	18	498	18	44	2	42	2
10.	Madhya Pradesh		10426	58	0.6	58	0.6	3015	29	3015	29	250	2	244	2
11.	Maharashtra *		8708	Not Available								146	2	141	2
12.	Odisha	Sum.	162	85	52	85	52	138	85	138	85	Not Available			
13.	punjab \$		2300	206	9	169	7	473	21	443	19	217	9	213	9
14.	Rajasthan		17114	307	2	307	2	8397	49	8397	49	128	1	128	1
15.	Uttarakhand		2958	227	8	227	8	832	28	832	28	58	2	58	2
16.	Uttar Pradesh		205960	Not Available								570	0	570	0
17.	West Bengal		3143	312	10	312	10	14	0.4	14	0.4	109	3	107	3
Total			285643	3632	6	3553	6	15187	26	15039	26	2412	1	2385	1
7. BARLEY															
1.	Bihar		300	Not Available											
2.	Chhattisgarh		36												
3.	Haryana		516	6	1	2	0	128	25	76	15	30	6	30	6
4.	Himachal Pradesh		658	40	6	40	6	Not Available				34	5	34	5
5.	Jharkhand		Not Available												
6.	Madhya Pradesh		810	2	0	2	0	138	17	138	17	Not Available			
7.	punjab \$		246	22	9	22	9	8	3	8	3	26	11	26	11
8.	Rajasthan		2758	124	4	124	4	1304	47	1304	47	80	3	80	3
9.	Uttarakhand		664	78	12	78	12	259	39	259	39	Not Available			
10.	Uttar Pradesh		1172	Not Available											

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11.	West Bengal		Not Available												
Total			7160	272	5	268	5	1837	37	1785	36	170	4	170	4
8.GRAM (BENGALGRAM)															
1.	Andhra Pradesh		1262	34	3	34	3	Not Available				40	3	40	3
2.	Bihar		800	28	4	28	4	17	2	17	2	36	5	32	4
3.	Chhattisgarh		1264	40	3	38	3	22	2	16	1	40	3	40	3
4.	Gujarat		1360	506	37	506	37	346	25	346	25	40	3	40	3
5.	Haryana		562	2	-	-	-	70	12	62	11	63	11	63	11
6.	Jharkhand		720	Not Available								20	3	20	3
7.	Karnataka ***		4880	444	9	444	9	550	11	550	11	38	1	37	1
8.	Madhya Pradesh		9224	53	0.6	53	0.6	2384	26	2384	26	140	2	140	2
9.	Maharashtra *		5456	Not Available								96	2	94	2
10.	punjab \$		100	Not Available				14	14	10	10	28	28	28	28
11.	Rajasthan		8544	192	2	192	2	3965	46	3965	46	109	1	109	1
12.	Uttar Pradesh		16342	Not Available								50	0	50	0
13.	West Bengal		1009	81	8	81	8	2	0	2	0	Not Available			
Total			51523	1380	5	1376	5	7370	27	7352	27	700	1	693	1
9.REDGRAM (TUR/ARHAR)															
1.	Andhra Pradesh		620	24	4	24	4	Not Available				40	6	40	6
2.	Bihar	Rabi	600	16	3	16	3	Not Available				38	6	38	6
3.	Chhattisgarh		1170	NA				42	4	4	0	40	3	40	3
4.	Gujarat		Not Available												
5.	Haryana		360	22	6	10	3	68	19	36	10	Not Available			
6.	Jharkhand	Rabi	720	Not Available								20	3	18	3
7.	Karnataka ***		4734	470	10	466	10	894	19	894	19	38	1	36	1
8.	Madhya Pradesh		3186	10	0.3	10	0.3	821	26	821	26	80	3	78	2
9.	Maharashtra *		5818	Not Available								98	2	96	2
10.	Tamil Nadu		336	168	50	168	50	Not Available							
11.	Uttar Pradesh		14024	Not Available								60	0	60	0
12.	West Bengal	Rabi	265	10	4	10	4	Not Available							
Total			31833	720	7	704	7	1825	19	1755	19	414	1	406	1
10. GREENGRAM (MOONG)															
1.	Andhra Pradesh	Kharif	138	8	6	8	6	Not Available				36	26	34	25
		Rabi	292	Not Available								Not Available			
2.	Bihar	Kharif	200	Not Available											
		Rabi	500												
3.	Gujarat	Kharif													
4.	Karnataka ***	Kharif	2800	352	13	348	12	504	18	504	18	34	1	28	1
		Rabi	100	12	12	12	12	8	8	8	8	Not Available			
5.	Maharashtra *	Kharif	6214	Not Available								84	1	14	0

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
6.	Odisha	Aut.	622	260	42	260	42	499	80	499	80	Not Available				
		Wint.	1353	329	24	329	24	978	72	978	72					
		Sum.	2157	671	31	671	31	1661	77	1661	77	40	2	40	2	
7.	Rajasthan	Kharif	4320	70	2	70	2	1890	44	1890	44	49	1	49	1	
8.	Tamil Nadu		440	220	50	220	50	Not Available				40	9	37	8	
9.	Uttar Pradesh	Kharif	1924	Not Available								Not Available				
		Zaid	600									40	7	40	7	
10.	West Bengal	Sum.	655	34	5	34	5	Not Available				Not Available				
Total				22315	1956	16	1952	16	5540	49	5540	49	323	2	242	1
11. BLACKGRAM (URD/MATHIKALAI)																
1.	Andhra Pradesh	Kharif	104	Not Available				Not Available				Not Available				
		Rabi	498													
2.	Assam	Rabi	500	95	19	95	19					30	6	30	6	
3.	Gujarat	Rabi	Not Available									Not Available				
4.	Karnataka ***	Kharif	1090	92	8	92	8	220	20	220	20					
		Rabi	130	14	11	14	11	12	9	12	9					
5.	Maharashtra *	Kharif	4916	Not Available								55	1	28	1	
6.	Odisha	Aut.	919	365	40	365	40	832	91	832	91	Not Available				
		Wint.	2351	577	25	577	25	1885	80	1885	80	40	2	40	2	
		Sum.	322	104	32	104	32	279	87	279	87	Not Available				
7.	Rajasthan	Kharif	2318	94	4	94	4	1684	73	1684	73	39	1.7	39	1.7	
8.	Tamil Nadu		424	212	50	212	50	Not Available				40	9.4	37	8.7	
9.	Uttar Pradesh	Kharif	14716	Not Available								58	0	58	0	
		Zaid	700									40	6	40	6	
10.	West Bengal		1765	148	8	148	8	20	1	20	1	Not Available				
Total				30753	1701	17	1701	17	4932	55	4932	55	302	2	272	2
12. LAKH (KHESARI)																
1.	Bihar		340	Not Available								Not Available				
2.	Chhattisgarh		262	Not Available				38	15	4	2					
3.	Madhya Pradesh		652					30	5	30	5					
4.	West Bengal		492	23	5	23	5	Not Available								
Total				1746	23	5	23	5	68	7	34					4
13. MASUR																
1.	Bihar		900	Not Available								Not Available				
2.	Jharkhand		0													
3.	Rajasthan		220	10	5	10	5	152	69	152	69					
4.	Uttar Pradesh		18416	Not Available								60	0.3	60	0.3	
5.	West Bengal		2909	192	7	192	7	12	1.4	12	1.4	Not Available				
Total				22445	202	6	202	6	164	5	164	5	60	0.3	60	0.3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
14. HORSEGRAM (KULTHI)															
1.	Andhra Pradesh	Kharif	40	Not Available											
		Rabi	120												
2.	Karnataka ***	Kharif	2760	356	13	354	13	543	20	534	19	Not Available			
		Rabi	3020	298	10	298	10	500	17	500	17				
3.	Odisha	Wint.	3229	872	27	872	27	2554	79	2554	79	40	1	40	1
		Sum.	24	2	8	2	8	20	83	20	83	Not Available			
4.	Tamil Nadu		320	160	50	160	50	Not Available							
Total			9513	1688	18	1686	18	3617	40	3608	40	40	1	40	1
15. PEAS															
1.	Uttar Pradesh		6932	Not Available								Not covered in I.C.S.			
2.	West Bengal		356	15	4	15	4	Not Available							
Total			7288	15	4	15	4								
16. MOTH															
1.	Gujarat	Kharif	Not Available												
2.	Rajasthan	Kharif	2130	62	3	62	3	894	42	894	42	55	3	55	3
Total			2130	62	3	62	3	894	42	894	42	55	4	55	4
17. CHOWLA															
1.	Rajasthan	Kharif	520	12	2	12	2	354	68	354	68	Not covered in I.C.S.			
18. GUAR															
1.	Gujarat		Not Available									Not covered in I.C.S.			
2	Rajasthan		7364	118	2	118	2	3766	51	3766	51				
19. SAWAN (JHANGORA)															
1.	Uttarakhand		612	36	6	36	6	172	327	172	28	Not covered in I.C.S.			
2	Uttar Pradesh	Kharif	70	Not Available											
		Zaid	20												
Total			702	36	6	36	6	172	28	172	28				
20. KORRA															
1.	Andhra Pradesh		94	Not Available								Not covered in I.C.S.			
21. KODON-KUTKI (KODRA)															
1.	Chhattisgarh		276	40	14	40	14	54	20	18	7	38	14	36	13
2.	Madhya Pradesh		1168	NA				245	21	245	21	40	3	30	3
3.	Uttar Pradesh (Kodon)		80	Not Available											
Total			1524	40	14	40	14	299	21	263	18	78	5	66	5
22. NAVANE															
1.	Karnataka ***		750	86	11	84	11	126	17	126	17	Not covered in I.C.S.			
23. SAVE															
1.	Karnataka ***		370	48	13	48	13	54	15	50	14	Not covered in I.C.S.			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
24. SAMAI															
1.	Tamil Nadu		100	50	50	50	50	Not Available				Not covered in I.C.S.			
25. VARAGU															
1.	Tamil Nadu		124	56	45	56	45	Not Available				Not covered in I.C.S.			
26. SUGARCANE															
1.	Andhra Pradesh		1602	54	3	54	3	Not Available				59	4	57	4
2.	Assam		700	98	14	98	14					34	5	34	5
3.	Bihar		740	28	4	28	4					38	5	36	5
4	Goa @		110	40	36	40	36	Not Available							
5	Haryana		1070	40	4	28	3	104	10	76	7	50	5	50	5
6	Jharkhand		300	Not Available											
7.	Karnataka ***		1060	130	12	130	12	76	7	76	7	40	4	40	4
8.	Kerala		50	23	46	23	46	Not Available							
9.	Maharashtra *		10278	Not Available								58	1	52	1
10.	Odisha	Wint.	504	131	26	131	26	405	80	405	80	Not Available			
11.	punjab \$		668	24	4	24	4	51	8	48	7	70	10	70	10
12.	Rajasthan		450	24	5	24	5	228	51	228	51	40	9	40	9
13.	Tamil Nadu		468	234	50	234	50	Not Available				50	11	50	11
14.	Uttar Pradesh		9508	Not Available								200	2	196	2
15.	West Bengal	Rabi	485	41	38	41	8	Not Available							
Total			27993	867	11	855	11	864	23	833	22	639	2	625	2
27. COCOA															
1.	Kerala		796	266	33.4	266	33.4	Not Available				Not covered in I.C.S.			
28. CHILLIES.															
1.	Andhra Pradesh	Kharif	348	Not Available								Not covered in I.C.S.			
		Rabi	266												
2.	Bihar		250												
3.	Chhattisgarh		32												
4.	Karnataka ***	Kharif	720	62	9	62	9	156	22	156	22				
		Rabi	0	18	-	16	-	22	-	22	-				
		Sum.	0	24	-	24	-	10	-	10	-				
5.	Madhya Pradesh		473	2	0	2	0	88	19	88	19				
Total			2089	106	9	104	9	276	23	276	23				

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29. CUMIN															
1.	Gujarat		1700	514	30	514	30	462	27	462	27	Not covered in I.C.S.			
2.	Rajasthan		2954	42	1	42	1	1617	55	1617	55				
Total			4654	556	12	556	12	2079	45	2079	45				
30. FENNEL															
1.	Gujarat *		Not Available									Not covered in I.C.S.			
31. ARECANUT															
1.	Kerala		1620	521	32	521	32	Not Available				40	2	40	2
2.	Maharashtra *		0	Not Available											
Total			1620	521	32	521	32	0	0	0	0	40	2	40	2
32. PEPPER															
1.	Kerala		1617	302	19	302	19	Not Available				40	2	39	2
33. SAFFRON															
1.	Jammu & Kashmir \$\$		102	12	12	10	10	Not Available				Not covered in I.C.S.			
34. TURMERIC															
1.	Kerala		1541	219	14.2	219	14.2	Not Available				Not covered in I.C.S.			
35. GINGER															
1.	Kerala		1441	218	15.1	218	15.1	Not Available				Not covered in I.C.S.			
2.	Meghalaya @		560	15	3	15	3	40	7	30	5				
Total			2001	233	12	233	12	40	7	30	5				
36. GARLIC															
1.	Gujarat		Not Available									Not covered in I.C.S.			
37. CORIANDER															
1.	Rajasthan		492	6	1	6	1	310	63	310	63	Not covered in I.C.S.			
38. LICHI															
1.	Bihar		300	Not Available								Not covered in I.C.S.			
39. BANANA															
1.	Bihar		500	Not Available											
2	Gujarat		0												
3	Kerala		2384	403	17	403	17	Not Available				50	2	50	2
4	Madhya Pradesh #		138	Not Available											
Total			3022	403	17	403	17	0	0	0	0	50	2	50	2
40. MANGO															
1.	Bihar		600	Not Available								Not covered in I.C.S.			
2	Kerala		1620												

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
41. GUAVA																			
1.	Bihar		250	Not Available								Not covered in I.C.S.							
42. JACKFRUIT																			
1.	Bihar		300	Not Available								Not covered in I.C.S.							
2.	Kerala		1618	141	8.7	141	8.7	Not Available											
Total			1918	141	8.7	141	8.7	0	0	0	0								
43. CASHEWNUT																			
1.	Kerala		1549	429	12	429	12	0	0	0	0	Not covered in I.C.S.							
2.	Maharashtra *		0	Not Available															
Total			1549	429	28	429	28	0	0	0	0								
44. TAPIOCA																			
1.	Kerala		1596	439	28	405	25	Not Available				40	3	40	3				
45. PINE APPLE																			
1.	Kerala		1572	165	10.5	165	10.5	Not Available				Not covered in I.C.S.							
46. POTATO																			
1.	Assam		850	162	19	162	19	Not Available				40	5	40	5				
2.	Bihar	Agh.	250	Not Available															
		Rabi	300																
3.	Chhattisgarh		230																
4.	Gujarat	Rabi	520	98	19	98	19	98	19	98	19	Not Available							
5.	Jammu & Kashmir \$\$	Kh.	206	22	11	18	9	Not Available											
		Rabi	158	16	10	8	5												
6.	Jharkhand	Agh.	480	Not Available															
		Rabi	720																
7.	Karnataka ***	Kh.	190	32	17	32	17	50	26	50	26								
		Rabi	130	Not Available				17	13	16	12								
8.	Madhya Pradesh	Rabi	1016	Not Available															
9.	Meghalaya @	Sum.	324	9	3	9	3	73	23	18	6								
10.	Odisha	Wint.	2335	779	33	779	33	1955	84	1955	84	40	2	40	2				
11.	Uttar Pradesh	Rabi	18872	Not Available								60	0	60	0				
Total			26581	1118	24	1106	24	2193	57	2137	55	140	1	140	1				
47. ONION																			
1.	Bihar		300	Not Available								Not covered in I.C.S.							
2.	Chhattisgarh		48																
3.	Gujarat		Not Available																
4.	Jharkhand		720	Not Available															
5.	Karnataka ***	Kh.	860	100	12	96	11	198	23	198	23								
		Rabi	30	20	67	18	60	18	60	18	60								
		Sum.	0	Not Available															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
6.	Madhya Pradesh #		642	Not Available				Not Available							
7.	Uttar Pradesh	Rabi	50	Not Available											
		Zaid	644												
Total			3294	120	13	114	13	216	24	216	24				
48. BRINJAL															
1.	Bihar	Agh.	250	Not Available								Not covered in I.C.S.			
		Rabi	250												
2.	Jharkhand	Agh.	480												
		Rabi	720												
Total			1700	-	-	-	-	-	-	-	-				
49.TOMATO															
1.	Bihar	Agh.	100	Not Available								Not covered in I.C.S.			
		Rabi	200												
2.	Jharkhand	Agh.	480												
		Rabi	720												
Total			1500	-	-	-	-	-	-	-	-				
50. CAULIFLOWER															
1.	Bihar		300	Not Available								Not covered in I.C.S.			
51. PAPAYA (PAPITA)															
1.	Madhya Pradesh #		32	Not Available								Not covered in I.C.S.			
52. PLANTAIN															
1.	Kerala		1622	156	10	156	10	Not Available				Not covered in I.C.S.			
53. METHI															
1.	Rajasthan		768	4	1	4	1	480	63	480	63	Not covered in I.C.S.			
54. GROUNDNUT															
1.	Andhra Pradesh	Kharif	2572	156	6	156	6	Not Available				180	7	180	7
		Rabi	672	30	4	30	4					50	7	41	6
2.	Chhattisgarh		560	Not Available				4	1	4	1	Not Available			
3.	Goa @	Kharif	37	14	38	12	32	Not Available				Not covered in I.C.S.			
		Rabi	80	22	28	20	25								
4.	Gujarat	Kharif	2272	784	35	784	35	186	8	186	8	148	7	148	7
		Sum.	1800	378	21	378	21	280	16	280	16	Not Available			
5.	Karnataka ***	Kharif	5338	688	13	684	13	962	18	962	18	68	1	61	1
		Rabi	70	10	14	10	14	8	11	8	11	Not Available			
		Sum.	0	230	-	230	-	198	-	198	-	32	-	28	-
6.	Madhya Pradesh		1096	14	1	14	1	483	44	483	44	40	4	38	3
7.	Maharashtra *	Kharif	3030	Not Available								47	2	41	1
		Sum.	1922									Not Available			

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
8.	Odisha	Aut.	1034	276	27	276	27	862	83	862	83	Not Available			
		Wint.	153	25	16	25	16	124	81	124	81				
		Sum.	1001	406	41	406	41	810	81	810	81				
9.	Rajasthan		2092	59	3	59	3	1167	56	1167	56	40	2	40	2
10.	Tamil Nadu		1160	579	50	579	50	Not Available				100	9	96	8
11.	Uttar Pradesh		6016	Not Available								Not Available			
12.	West Bengal		507	38	7	38	7	Not Available							
Total			31412	3709	19	3701	19	5084	33	5084	33	705	4	673	4
55. SESAMUM (GINGELLY)															
1.	Andhra Pradesh	Kharif	210	Not Available											
		Rabi	80												
2.	Chhattisgarh		124	Not Available				6	5	2	2	Not Available			
3.	Gujarat		1396	374	27	374	27	314	22	314	22	50	4	50	4
4.	Karnataka ***		1960	270	14	268	14	300	15	300	15	Not Available			
5.	Kerala		102	19	19	19	19	Not Available							
6.	Madhya Pradesh		1654	Not Available				411	25	411	25	40	2	40	2
7.	Maharashtra *	Kharif	1478	Not Available								Not Available			
		Rabi	20												
8.	Odisha	Aut.	301	91	30	91	30	259	86	259	86	Not Available			
		Wint.	952	295	31	295	31	789	83	789	83				
		Sum.	669	235	35	235	35	534	80	534	80				
9.	Rajasthan		3198	98	3	98	3	1731	54	1731	54	75	2	73	2
10.	Tamil Nadu		472	240	51	240	51	Not Available				46	10	42	9
11.	Uttar Pradesh		9600	Not Available								40	0	40	0
12.	West Bengal		3316	256	8	256	8	8	0.2	8	0.2	48	1	46	1
Total			25532	1878	15	1876	15	4352	32	4348	32	299	2	291	2
56. CASTOR															
1.	Andhra Pradesh		142	10	7	10	7	Not Available				34	24	34	24
2.	Gujarat		2726	642	24	642	24	746	27	746	27	50	2	50	2
3.	Karnataka ***		670	90	13	90	13	106	16	106	16	Not Available			
Total			3538	742	21	742	21	852	25	852	25	84	3	84	3
57. RAPE & MUSTARD															
1.	Assam		1250	200	16	200	16	Not Available				68	5	68	5
2.	Bihar		876	26	3	26	3					34	4	34	4
3.	Chhattisgarh		1030	30	3	28	3	84	8	26	3	30	3	30	3
4.	Gujarat		1100	232	21	232	21	266	24	266	24	48	4	48	4

Annex III (b) (Contd....)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5.	Haryana		1040	32	3	24	2	202	19	174	17	100	10	100	10
6.	Jammu & Kashmir \$		286	40	14	22	8					Not Available			
7.	Jharkhand		720	Not Available								20	3	20	3
8.	Madhya Pradesh		2214	16	1	16	1	526	24	526	24	58	3	56	3
9.	Odisha	Wint.	2083	615	30	615	30	1766	85	1766	85	Not Available			
10.	punjab \$		542	10	2	10	2	74	14	68	13	40	7	40	7
11.	Rajasthan		13274	252	2	252	2	8219	62	8219	62	84	1	84	1
12.	Uttar Pradesh		29452	Not Available								100	0	99	0
13.	West Bengal		5137	490	10	490	10	30	0.6	30	0.6	109	2	109	2
Total			59004	1943	7	1915	7	11167	42	11075	41	691	1	688	1
58. LINSEED															
1.	Chhattisgarh		760	36	5	36	5	22	3	16	2	40	5	40	5
2.	Jammu & Kashmir \$		24	7	29	5	21					Not Available			
3.	Karnataka ***		470	30	6	30	6	66	14	66	14				
4.	Madhya Pradesh		1152	10	1	10	1	303	26	303	26	74	6	74	6
5.	Maharashtra *		358	Not Available								Not Available			
6.	Uttar Pradersh		80												
7.	West Bengal		262	12	5	12	5	Not Available							
Total			3106	95	4	93	3	391	16	385	16	114	6	114	6
59. SAFFLOWER															
1.	Karnataka ***		1850	86	5	86	5	230	12	230	12	Not Available			
2.	Maharashtra *		2812	Not Available								16	1	14	0
Total			4662	86	5	86	5	230	12	230	12	16	1	14	0
60. SUNFLOWER															
1.	Andhra Pradesh	Kharif	150	Not Available											
		Rabi	340												
2.	Haryana	Rabi	260												
3.	Karnataka ***	Kharif	4550	584	13	580	13	1390	31	1386	30	40	1	40	1
		Rabi	4200	318	8	318	8	380	9	378	9	34	1	28	1
		Sum.	1490	166	11	164	11	88	6	88	6	Not Available			
4.	Maharashtra *	Kharif	1056	Not Available											
		Rabi	642												
		Sum.	452												
5.	Tamil Nadu		212	106	50	106	50	Not Available							
6.	Uttar Pradesh	Zaid	60	Not Available											
Total			13412	1174	11	1168	11	1858	18	1852	18	74	1	68	0.8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
61. SOYABEAN															
1.	Andhra Pradesh			Not Available											
2.	Chhattisgarh		490	Not Available				8	2	6	1	Not Available			
3.	Karnataka ***		1030	152	15	140	14	144	14	144	14				
4.	Madhya Pradesh		4558	17	0	17	0	1967	43	1967	43	100	2	100	2
5.	Maharashtra *		4382	Not Available								64	1	56	1
6.	Rajasthan		1694	18	1	18	1	578	34	578	34	Not Available			
7.	Uttar Pradesh		1068	Not Available											
Total			13222	187	3	175	2	2697	35	2695	35	164	2	156	2
62. TARA MEERA															
1.	Rajasthan		1260	16	1	16	1	546	43	546	43	Not covered in I.C.S.			
63.COCONUT															
1.	Kerala		2430	1738	72	1738	72	Not Available				50	2	48	2
2.	Maharashtra *		0	Not Available											
Total			2430	1738	72	1738	72	0	0	0	0	50	2	48	2
64. NIGER															
1.	Maharashtra *		692	Not Available											
65. COTTON															
1.	Andhra Pradesh		718	Not Available				Not Available				60	8	58	8
2.	Gujarat		Not Available												
3.	Haryana		940	20	2	20	2	146	16	128	14	53	6	53	6
4.	Karnataka ***		1880	162	9	162	9	260	14	260	14	54	3	54	3
5.	Madhya Pradesh		998	Not Available				405	41	405	41	48	5	43	4
6.	Maharashtra *		8674	Not Available								131	2	131	2
7.	punjab \$		698	38	5	38	5	74	11	74	11	72	10	72	10
8.	Rajasthan		1576	54	3	54	3	848	54	848	54	40	3	40	3
9.	Tamil Nadu		820	394	48	394	48	Not Available				100	12	94	11
10.	Uttar Pradesh		80	Not Available											
Total			16384	668	11	668	11	1733	28	1715	28	558	3	545	3
66. JUTE															
1.	Assam		600	122	20	122	20	Not Available				26	4	26	4
2.	Bihar		200	Not Available											
3.	Meghalaya @		56	1	2	1	2	3	5	2	4	Not Available			
4.	Odisha	Aut.	156	61	39	61	39	138	88	138	88	Not Available			
5.	West Bengal		5300	296	6	296	6	66	1.2	66	1.2	80	2	80	2
Total			6312	480	8	480	8	207	4	206	4	106	2	106	2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
67.MESTA																		
1.	Andhra Pradesh		200	Not Available														
2.	Bihar		200															
3.	West Bengal		247	16	6	16	6	Not Available										
Total			647	16	6	16	6	0	0	0	0	0	-	0	-			
68.TOBACCO																		
1.	Andhra Pradesh		452	Not Available								Not covered in I.C.S.						
2.	Gujarat		Not Available															
3.	Karnataka ***		380	62	25	62	25	14	4	14	4							
4.	Maharashtra *		56	Not Available														
5.	Uttar Pradesh	Rabi	124															
		Zaid	20															
Total			1032	62	16	62	16	14	4	14	4							
69. ISABGOL																		
1.	Gujarat		Not Available								Not covered in I.C.S.							
2.	Rajasthan		1770	34	2	34	2	588	33	588					33			
Total			1770	34	2	34	2	588	33	588					33			
70. AVARE (SEM)																		
1.	Karnataka ***		710	88	12	82	12	104	15	104	15	Not covered in I.C.S.						
71. COWPEA (LOBIA)																		
1.	Karnataka ***		790	82	10	80	10	126	16	126	16	Not covered in I.C.S.						

Note :- (i) % : Percentage figures given under Col.6, 8, 10, 12, 14 and 16 are based on total figures in col. 4. The data in column 4 have been excluded for percentage calculation at all India level where data under any of columns 5, 7, 9, 11, 13 and 15 has not been received from concerned States.

(ii). * : Figures repeated for the year 2010-11 in the state of Maharashtra.

(iii)*** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.

(iv) \$: data for state statistical department and other statistical department repeated for the year 2012-13.

(v) \$\$: Data repeated for year 2011-12 for Linseed, Potato, R&M and Saffron.

(vi) # : Figure repeated for the year 2013-14 in respect for crops Banana, Onion and Papaya for Madhya Pradesh.

(vii) @ : ICS Scheme is not operational in Goa.

Annex-III (C) INCIDENCE OF ERRORS, USE OF EQUIPMENT AND DELEGATION OF WORK OF CROP CUTTING EXPERIMENTS DURING 2014-15

S.No.	State	Season	% of expts where no error noticed	% of expts where errors noticed (sum of e1 to e8)	% of expts for which primary workers did not use supplied items				% of expts. for which the work was delegated	% of expts. for which the work was conducted by untrained workers
					Tape	Pegs	Balance	Weight		
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	Kharif	63	41	10	5	10	10	1	0
		Rabi	58	49	6	3	7	7	1	0
2	Assam	Early Kharif	56	47	5	0	7	7	0	0
		Late Kharif	69	36	4	5	4	4	0	0
		Rabi	57	43	5	4	5	5	0	0
		Summer	43	57	11	3	11	11	0	0
3	Bihar	Autumn (Bha.)	47	54	17	10	15	15	0	0
		Winter (Agh.)	51	53	18	9	15	15	0	0
		Rabi	48	53	19	11	17	17	0	0
		Summer	48	72	0	0	0	0	4	0
4	Chhattisgrah	Kharif	78	25	27	20	45	32	2	0
		Rabi	96	4	32	7	41	21	1	0
5	Gujarat	Kharif	61	42	54	4	49	49	0	0
		Rabi	65	36	60	4	54	57	0	0
6	Haryana	Kharif	81	20	35	7	14	11	0	0
		Rabi	71	28	29	10	13	12	0	0
7	Himachal Pradesh	Kharif	62	47	22	26	37	32	0	0
		Rabi	66	42	20	18	35	30	0	0
8	Jammu & Kashmir	Kharif	14	177	13	3	11	11	0	0
		Rabi	9	122	24	2	12	12	0	0
9	Jharkhand	Early Kharif	58	42	49	30	32	30	3	0
		Late Kharif	60	40	36	21	19	16	4	4
		Rabi	56	42	12	0	6	6	6	2
10	Karnataka	Kharif	52	50	19	6	22	22	0	0
		Rabi	44	59	19	3	18	19	0	0
		Summer	56	44	19	4	18	15	0	0
11	Kerala	Autumn	94	7	3	13	10	9	0	0
		Winter	99	2	4	12	6	7	0	0
		Summer	78	23	1	6	5	5	0	0
12	Madhya Pradesh	Kharif	65	42	13	40	44	44	0	0
		Rabi	57	53	15	34	42	37	1	0
13	Maharashtra	Kharif	40	108	30	9	18	16	2	0
		Rabi	35	103	17	10	11	11	2	1
14	Odisha	Autumn	95	5	0	0	1	1	0	0
		Winter	96	5	1	1	1	1	0	0
		Summer	93	8	0	0	0	0	0	0
15	Punjab	Kharif	42	69	10	3	3	3	0	0
		Rabi	38	65	10	1	1	1	0	0
16	Rajasthan	Kharif	42	71	37	20	25	25	0	0
		Rabi	44	69	33	10	23	22	0	0

Annex3c Continued.

1	2	3	4	5	6	7	8	9	10	10
17	TamilNadu	Total @	48	58	13	22	16	16	1	0
18	Uttar Pradesh	Kharif	49	75	24	3	25	24	17	13
		Rabi	58	58	30	2	27	27	23	20
		Zaid Rabi	61	59	37	12	43	45	25	24
19	Uttarakhand	Kharif	24	96	4	6	12	12	0	0
		Rabi	42	72	21	25	30	28	13	0
20	West Bengal #	Aus.	78	21	0	2	0	0	0	0
		Aman	40	61	0	0	0	0	0	0
		Rabi	54	49	2	2	2	2	0	0
		Summer	66	34	0	0	0	0	0	0
21	Puducherry	Kharif	50	50	0	0	0	0	0	0
		Rabi I	60	70	0	0	0	0	0	0
		Rabi II	0	100	0	0	0	0	0	0
For States Covered		All Seasons	53	52	19	10	19	18	2	1

- Note :-
- 1. e₁= Error in selection of survey/sub-survey nos.
 - 2. e₂= Error in selection of field within survey/sub-survey nos.
 - 3. e₃= Error in measurement of field.
 - 4. e₄= Error in selection of random nos.,location and marking of plots.
 - 5. e₅= Error in weighment of produce.
 - 6. e₆= Error in reporting ancillary information.
 - 7. e₇= Inadeqate arrangements for storing of produce for driage and incorrect reporting of constituents in crop mixture.
 - 8. e₈ = Others.
 - 9. \$= In Kerala whole year data has been included in Summer season.
 - 10. @= For the year as a whole (total of all seasons).
 - 11. #= ISI Equipments in place of Tape.
 - 12 . Sum total of percentages of Col. (4) and (5) can exceed 100% because in one experiment, more than one error may occur.

ANNEX - IV(a):- RESPONSE UNDER CROP ESTIMATION SURVEY 2014-15

Sl. No.	S T A T E	Kharif						Rabi						T O T A L		
		Food Crops			Non-Food Crops			Food Crops			Non-Food Crops					
		No. of Experiments			No. of Experiments			No. of Experiments			No. of Experiments			No. of Experiments		
		Planned	Analy- sed	Resp onse %	Planned	Analy- sed	Resp onse %	Planned	Analy- sed	Resp onse %	Planned	Analy- sed	Resp onse %	Planned	Analy- sed	Resp onse %
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1.	Andhra Pradesh	8194	8178	100	3992	3870	97	5984	5820	97	1544	1442	93	19714	19310	98
2.	Assam	5700	4911	86	600	556	93	3700	3223	87	1250	1182	95	11250	9872	88
3.	Bihar	87400	73110	84	400	346	87	18910	15547	82	876	742	85	107586	89745	83
4.	Chhattisgarh	6476	5508	85	1174	958	82	4002	3147	79	1790	1461	82	13442	11074	82
5.	Goa	316	316	100	37	37	100	190	186	98	80	60	75	623	599	96
6.	Gujarat	4312	3516	82	6394	6068	95	10590	9957	94	2900	2380	82	24196	21921	91
7.	Haryana	4096	3634	89	940	842	90	3278	3034	93	1300	1082	83	9614	8592	89
8.	Himachal Pradesh	2560	2157	84	NOT AVAILABLE			2442	2110	86	NOT AVAILABLE			5002	4267	85
9.	Jammu & Kashmir \$	2992	2310	77				2096	1562	75	310	282	91	5398	4154	77
10.	Jharkhand	11700	9478	81	NOT AVAILABLE			12120	10110	83	720	652	91	24540	20240	82
11.	Karnataka @	42466	40676	96	15428	14242	92	23794	22162	93	8460	7464	88	90148	84544	94
12.	Kerala	24885	24884	100	2532	2532	100	1613	1611	100	NOT AVAILABLE			29030	29027	100
13.	Madhya Pradesh #	15900	13893	87	8306	7758	93	23413	19869	85	3366	3182	95	50985	44702	88
14.	Maharashtra *	43026	39438	92	19312	17832	92	24008	22700	95	6262	5019	80	92608	84989	92
15.	Meghalaya	1640	1600	98	56	48	86	324	302	93	NOT AVAILABLE			2020	1950	97
16.	Odisha	33419	33419	100	2596	2596	100	7737	7737	100	3753	3752	100	47505	47504	100
17.	Punjab	3006	2999	100	698	694	99	2646	2638	100	542	540	100	6892	6871	100
18.	Rajasthan	34694	33790	97	8560	8030	94	32850	30570	93	16304	15034	92	92408	87424	95
19.	Tamil Nadu	6516	6437	99	2664	2632	99	NOT AVAILABLE						9180	9069	99
20.	Uttarakhand	4656	4133	89	NOT AVAILABLE			3622	3349	92	NOT AVAILABLE			8278	7482	90
21.	Uttar Pradesh	284090	280465	99	16764	16292	97	269768	266555	99	29736	28682	96	600358	591994	99
22.	West Bengal	21036	16027	76	5547	4241	76	20961	17554	84	9222	7887	86	56766	45709	81
23.	Dadra & Nagar Haveli	156	110	71	NOT AVAILABLE									156	110	71
24.	Daman & Diu	28	28	100										28	28	100
25.	Puducherry	88	88	100	NOT AVAILABLE			210	210	100	NOT AVAILABLE			298	298	100
Total		649352	611105	94	96000	89574	93	474258	449953	95	88415	80843	91	1308025	1231475	94

Note :-

1. * : Figures repeated for the year 2010-11 in the state of Maharashtra.
2. @ : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.
3. \$:Data repeated for year 2011-12 for Linseed, Potato, R&M and Saffron.
4. # : Figure repeated for the year 2013-14 in respect for crop Banana, Onion and Papaya for Madhya Pradesh.

ANNEX-IV (b) :REASONS FOR LOSS OF EXPERIMENTS UNDER CROP ESTIMATION SURVEY DURING 2014-15

Sl. No.	S T A T E	Food / Non-Food Crops	No. of Expts.		No. of Expts. not conducted due to							Rejected by statistician due to							Total Cols. (12)+ (18)+ {19}
			Planned	Analysed	A	B	C	D	E	F	Sub Total	P	Q	R	S	T	Sub Total	U	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.	Andhra Pradesh	Food	14178	13998	0	0	0	0	0	180	180	0	0	0	0	0	0	0	180
			% age	98.7							1.3						0.0	0.0	1.3
		Non Food	5536	5312	0	0	0	0	0	224	224	0	0	0	0	0	0	0	224
			% age	96.0							4.0						0.0	0.0	4.0
		Total	19714	19310	0	0	0	0	0	404	404	0	0	0	0	0	0	0	404
			% age	98.0							2.0						0.0	0.0	2.0
2.	Assam	Food	9400	8134	0	0	0	488	0	591	1079	0	0	0	0	187	187	0	1266
			% age	86.5							11.5						2.0		13.5
		Non Food	1850	1738	0	0	0	53	0	30	83	0	0	0	0	29	29	0	112
			% age	93.9							4.5						1.57		6.1
		Total	11250	9872	0	0	0	541	0	621	1162	0	0	0	0	216	216	0	1378
			% age	87.8							10.3						1.9	0.0	12.2
3.	Bihar	Food	106310	88657	0	0	0	0	0	17653	17653	0	0	0	0	0	0	0	17653
			% age	83.4							16.6						0.0	0.0	16.6
		Non Food	1276	1088	0	0	0	0	0	188	188	0	0	0	0	0	0	0	188
			% age	85.3							14.7						0.0	0.0	14.7
		Total	107586	89745	0	0	0	0	0	17841	17841	0	0	0	0	0	0	0	17841
			% age	83.4							16.6						0.0	0.0	16.6
4.	Chhattisgarh	Food	10478	8655	0	0	0	104	0	1357	1461	0	0	0	236	90	326	36	1823
			% age	82.6	0						13.9						3.1		17.4
		Non Food	2964	2419	0	0	0	0	0	545	545	0	0	0	0	0	0	0	545
			% age	81.6							18.4						0.0		18.4
		Total	13442	11074	0	0	0	104	0	1902	2006	0	0	0	236	90	326	36	2368
			% age	82.4							14.9						2.4	0.3	17.6
5.	Goa	Food	506	502	0	0	0	0	0	4	4	0	0	0	0	0	0	0	4
			% age	99.2							0.8						0.0		0.8
		Non Food	117	97	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0
			% age	82.9															0.0
		Total	623	599	0	0	0	0	0	24	24	0	0	0	0	0	0	0	4
			% age	96.1							3.9						0.0	0.0	0.6
6.	Gujarat	Food	14902	13473	0	0	0	0	1428	1	1429	0	0	0	0	0	0	0	1429
			% age	90.4							9.6						0.0		9.6
		Non Food	9294	8448	0	0	0	5	837	4	846	0	0	0	0	0	0	0	846
			% age	90.9							9.1						0.0		9.1
		Total	24196	21921	0	0	0	5	2265	5	2275	0	0	0	0	0	0	0	2275
			% age	90.6							9.4						0.0	0.0	9.4
7.	Haryana	Food	7374	6668	0	0	0	0	0	95	95	0	0	0	0	4	4	607	706
			% age	90.4							1.3						0.1	8.2	9.6
		Non Food	2240	1924	0	0	0	0	0	16	16	0	0	0	0	0	0	300	316
			% age	85.9							0.7						0.0	13.4	14.1
		Total	9614	8592	0	0	0	0	0	111	111	0	0	0	0	4	4	907	1022
			% age	89.4							1.2						0.0	9.4	10.6
8.	Himachal Pradesh	Food	5002	4267	0	0	0	0	0	430	430	16	101	26	1	161	305	0	735
			% age	85.3							8.6						6.1		14.7
		Non Food	Not Available																
			% age																0.0
		Total	5002	4267	0	0	0	0	0	430	430	16	101	26	1	161	305	0	735
			% age	85.3							8.6						6.1	0.0	14.7

ANNEX IV (b) (Contd.....)																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
9.	Jammu & Kashmir \$	Food	5088	3872	0	0	0	200	0	1016	1216	0	0	0	0	0	0	0	1216
			% age	76.1							23.9						0.0		23.9
		Non Food	310	282	0	0	0	0	0	28	28	0	0	0	0	0	0	0	28
			% age	91.0							9.0						0.0		9.0
		Total	5398	4154	0	0	0	200	0	1044	1244	0	0	0	0	0	0	0	1244
			% age	77.0							23.0						0.0	0.0	23.0
10.	Jharkhand	Food	23820	19588	0	0	4232	0	0	0	4232	0	0	0	0	0	0	0	4232
			% age	82.2							17.8						0.0		17.8
		Non Food	720	652	0	0	68	0	0	0	68	0	0	0	0	0	0	0	68
			% age	90.6							9.4						0.0		9.4
		Total	24540	20240	0	0	4300	0	0	0	4300	0	0	0	0	0	0	0	4300
			% age	82.5							17.5						0.0	0.0	17.5
11.	Karnataka ***	Food	66260	62838	208	0	0	0	1514	1700	3422	0	0	0	0	0	0	0	3422
			% age	94.8							5.2						0.0	0.0	5.2
		Non Food	23888	21706	0	0	0	0	1660	522	2182	0	0	0	0	0	0	0	2182
			% age	90.9							9.1						0.0	0.0	9.1
		Total	90148	84544	208	0	0	0	3174	2222	5604	0	0	0	0	0	0	0	5604
			% age	93.8							6.2						0.0	0.0	6.2
12.	Kerala	Food	26498	26495	0	0	0	0	0	3	3	0	0	0	0	0	0	0	3
			% age	100.0							0.0						0.0		0.0
		Non Food	2532	2532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			% age	100.0							0.0						0.0		0.0
		Total	29030	29027	0	0	0	0	0	3	3	0	0	0	0	0	0	0	3
			% age	100.0							0.0						0.0	0.0	0.0
13.	Madhya Pradesh #	Food	39313	33762	1	162	670		230	3632	4695	280	0	18	20	538	856	0	5551
			% age	85.9							11.9						2.2		14.1
		Non Food	11672	10940	0	0	112	0	0	618	730	0	0	2	0	0	2	0	732
			% age	93.7							6.3						0.0		6.3
		Total	50985	44702	1	162	782	0	230	4250	5425	280	0	20	20	538	858	0	6283
			% age	87.7							10.6						1.7	0.0	12.3
14.	Maharashtra	Food	67034	62138	0	1552	0	0	0	2828	4380	487	0	0	0	29	516	0	4896
			% age	92.7							6.5						0.8		7.3
		Non Food	25574	22851	0	879	0	0	0	1563	2442	279	0	0	0	2	281	0	2723
			% age	89.4							9.5						1.1		10.6
		Total	92608	84989	0	2431	0	0	0	4391	6822	766	0	0	0	31	797	0	7619
			% age	91.8							7.4						0.9	0.0	8.2
15.	Meghalaya	Food	1964	1902	0	0	0	10	0	52	62	0	0	0	0	0	0	0	62
			% age	96.8							3.2						0.0		3.2
		Non Food	56	48	0	0	0	0	0	8	8	0	0	0	0	0	0	0	8
			% age	85.7							14.3						0.0		14.3
		Total	2020	1950	0	0	0	10	0	60	70	0	0	0	0	0	0	0	70
			% age	96.5							3.5						0.0	0.0	3.5
16.	Odisha	Food	41156	41156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			% age	100.0							0.0						0.0		0.0
		Non Food	6349	6348	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
			% age	100.0							0.0						0.0		0.0
		Total	47505	47504	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
			% age	100.0							0.0						0.0	0.0	0.0

ANNEX IV (b) (Contd.....)																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
17.	Punjab	Food	5652	5637	0	0	0	7	0	6	13	0	0	0	0	2	2	0	15
			% age	99.7							0.2						0.0		0.3
		Non Food	1240	1234	0	0	0	1	0	5	6	0	0	0	0	0	0	0	6
			% age	99.5							0.5						0.0		0.5
		Total	6892	6871	0	0	0	8	0	11	19	0	0	0	0	2	2	0	21
			% age	99.7							0.3						0.0	0.0	0.3
18.	Rajasthan	Food	67544	64360	0	0	0	0	0	2998	2998	0	0	0	166	20	186	0	3184
			% age	95.3							4.4						0.3	0.0	4.7
		Non Food	24864	23064	0	0	0	0	0	1692	1692	0	0	0	106	2	108	0	1800
			% age	92.8							6.8						0.4		7.2
		Total	92408	87424	0	0	0	0	0	4690	4690	0	0	0	272	22	294	0	4984
			% age	94.6							5.1						0.3	0.0	5.4
19.	Tamil Nadu	Food	6516	6437	0	0	0	0	0	79	79	0	0	0	0	0	0	0	79
			% age	98.8							1.2						0.0		1.2
		Non Food	2664	2632	0	0	0	0	0	32	32	0	0	0	0	0	0	0	32
			% age	98.8							1.2						0.0		1.2
		Total	9180	9069	0	0	0	0	0	111	111	0	0	0	0	0	0	0	111
			% age	98.8							1.2						0.0	0.00	1.2
20.	Uttarakhand	Food	8278	7482	0	0	0	0	0	736	736	60	0	0	0	0	60	0	796
			% age	90.4							8.9						0.7		9.6
		Non Food	Not Available																
			% age	0.0							0.0						0.0		0.0
		Total	8278	7482	0	0	0	0	0	736	736	60	0	0	0	0	60	0	796
			% age	90.4							8.9						0.7		9.6
21.	Uttar Pradesh	Food	553858	547020	0	0	0	0	0	6838	6838	0	0	0	0	0	0	0	6838
			% age	98.8							1.2						0.0		1.2
		Non Food	46500	44974	0	0	0	0	0	1526	1526	0	0	0	0	0	0	0	1526
			% age	96.7							3.3						0.0		3.3
		Total	600358	591994	0	0	0	0	0	8364	8364	0	0	0	0	0	0	0	8364
			% age	98.6							1.4						0.0		1.4
22.	West Bengal	Food	41997	33581	0	0	0	1571	0	25	1596	141	0	0	372	0	513	0	8416
			% age	80.0							3.8						1.2	0.0	20.0
		Non Food	14769	12128	0	0	0	1407	0	3	1410	52	0	0	54	0	106	0	2641
			% age	82.1							9.5						0.7		17.9
		Total	56766	45709	0	0	0	2978	0	28	3006	193	0	0	426	0	619	0	11057
			% age	80.5							5.3						1.1	0.00	19.5
23.	Dadra & Nagar Haveli	Food	156	110	0	0	0	0	26	0	26	0	0	0	0	20	20	0	46
			% age	70.5							16.7						12.8		29.5
		Non Food	Not Available																
			% age								0.0						0.0		0.0
		Total	156	110	0	0	0	0	26	0	26	0	0	0	0	20	20	0	46
			% age	70.5							16.7						12.8		29.5
24.	Daman & Diu	Food	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			% age	100.0							0.0						0.0		0.0
		Non Food	Not Available																
			% age																0.0
		Total	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			% age	100.0							0.0						0.0	0.0	0.0

ANNEX IV(b) (Contd.....)																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
25.	Puducherry	Food	298	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			% age	100.0							0.0						0.0		0.0		
		Non Food	Not Available																		
			% age																	0.0	
		Total	298	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			% age	100.0								0.0							0.0	0.0	0.0
Grand Total %		Food	1123610	1061058	209	1714	4902	2380	3198	40224	52627	984	101	44	795	1051	2975	643	56245		
			% age	94.4							4.7						0.3	0.1	5.0		
		Non Food	184415	170417	0	879	180	1466	2497	7025	12047	331	0	2	160	33	526	300	12873		
			% age	92.4							6.5						0.3	0.2	7.0		
		Total	1308025	1231475	209	2593	5082	3846	5695	47249	64674	1315	101	46	955	1084	3501	943	69118		
			% age	94.1	0.2	2.6	12.3	4.0	1.5	4.7	6.3	0.9	0.2	0.1	0.3	0.5	0.8	1.2	6.2		

Note : Sum total of percentages in Col. (5), (12), (18) and (19) may not always be 100.

1. % : Percentage figures given under Col. 5 to 20 are based on total figures in col. 4. The data in column 4 have been excluded for percentage calculation at all India level where data under any of columns from 5 to 20 has not been received from concerned States.
- A : Primary worker being absent,on leave,transfer etc.
- B : Primary worker not attending the work due to other assignments.
- C : Primary worker not attending the work due to other reasons.
- D : Prior harvest by cultivators.
- E : Crop not available.
- F : Other reasons.
- P : Incomplete data.
- Q : Discrepant data.
- R : Unreliable data.
- S : Late receipt of returns.
- T : Other reasons.
- U : Experiments for which reasons for non inclusion in analysis are not known.
- 2.* : Figures repeated for the year 2010-11 in the state of Maharashtra.
- 3.# : Figure repeated for the year 2013-14 in respect for crops Banana, Onion and Papaya for Madhya Pradesh.
- 4.***: Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.
5. \$\$: Data repeated for year 2011-12 for Linseed, Potato, R&M and Saffron.

ANNEX-V :ESTIMATES OF YIELD RATES AND PRODUCTION UNDER CES DURING 2014-15

Sl. No.	S T A T E		Area		No. of		Resp- onse % age	Estimated yield rate (Kg/ha.)	Standard Error % age	Total Production (000 tonnes)
			under Crop		Experiments					
			Total (000) (ha.)	Coverage % age	Planned	Analysed				
1	2		3	4	5	6	7	8	9	10
1. RICE										
1.	Andhra Pradesh	(Kh.Ir.)	1565	96	4060	4060	100	3175	0.4	4968
		(Kh.UI.)	70	75	224	224	100	1856	2.5	129
		Comb.	1635	95	4284	4284	100	3119	0.4	5097
		(Rabi.Ir.)	759	97	2868	2732	95	4424	0.5	3358
2.	Assam	(Aut.)	196	100	2000	1374	69	1454	1.3	281
		(Wint.)	1883	100	3000	2956	99	2005	2.0	3718
		(Sum.)	416	99	1500	1317	88	2940	1.2	1224
3.	Bihar # and &	(Bha.Ir)	223	80	280	206	74	2609	N.A.	581
		(Bha.UI.)	358	81	560	370	66	2601	N.A.	932
		Comb.	581	81	840	576	69	2604	N.A.	1513
		(Agh.Hyv.Ir.)	1290	100	34626	28298	82	4770	N.A.	6153
		(Agh.Hyv.UI.)	371	100	14880	13566	91	3458	N.A.	1283
		(Agh.Lv.Ir.)	497	100	11354	10454	92	3671	N.A.	1825
		(Agh.Lv.UI.)	992	100	13300	12080	91	3630	N.A.	3600
		Comb.	3150	100	74160	64398	87	4083	N.A.	12861
		(Gar.Hyv.)	71	97	340	150	44	2350	N.A.	166
		(Gar.Lv.)	22	97	100	38	38	2315	N.A.	50
		Comb.	93	97	440	188	43	2342	N.A.	216
4.	Chhattisgarh	(Ir.)	1268	96	516	478	93	2532	2.3	3211
		(UI.)	2541	100	3072	2700	88	1881	0.9	4779
		Comb.	3809	99	3588	3178	89	2098	1.1	7990
5.	Goa	(Kh.)	28	100	196	196	100	2919	N.A.	81
		(Rabi)	14	100	190	186	98	2777	N.A.	39
6.	Gujarat	(Ir.)	NOT AVAILABLE							
		(UI.)								
		Comb.								
		(Sum.)	31	86	252	252	100	4815	N.A.	149

1	2		3	4	5	6	7	8	9	10
7.	Haryana		1277	76	990	974	98	3124	1.2	3989
8.	Himachal Pradesh		72	73	990	755	76	1953	2.0	127
9.	Jammu & Kashmir	(Plain)	N.A.							
		(Hills)	N.A.							
		Comb.	276	48	1230	930	76	1780	6	517
10.	Jharkhand	(Bha.)	140	N.A.	720	612	85	1461	N.A.	204
		(Agh.Hyv.Ir.)	N.A.							
		(Agh.Hyv.UI.)	849	N.A.	7800	7020	90	2124	N.A.	1803
		(Agh.Lv.Ir.)	N.A.							
		(Agh.Lv.UI.)	N.A.							
		Comb.	989	N.A.	8520	7632	90	2088	N.A.	2007
11.	Karnataka ***	(Kh.Hyv.Ir.)	665	97	4646	4586	99	3615	2.3	2285
		(Kh.Hyv.UI.)	239	69	1882	1842	98	2776	3.5	631
		(Kh.Tra.Ir.)	18	97	364	348	96	2786	7.7	47
		(Kh.Tra.UI.)	83	33	1014	1014	100	2166	5.4	170
		Comb.	1005	85	7906	7790	99	3282	1.8	3132
		(Rabi Hyv.Ir.)	38	100	670	540	81	2576	6.1	93
		(Rabi Tra. Ir.)	0	0	0	0	0	0	0.0	0
		Comb.	38	100	670	540	81	2576	6.1	93
		(Sum. Hyv.Ir.)	262	100	2694	2256	84	3732	3.4	928
12.	Kerala	(Aut.)	64	100	2541	2541	100	2524	2.0	161
		(Wint.)	89	100	3318	3317	100	2859	1.1	254
		(Sum.)	45	100	1613	1611	100	3235	1.8	146
13.	Madhya Pradesh	(Hyv. Ir.)	615	73	1172	968	83	2123	1.8	1306
		(Lv. Ir.)	95	77	738	702	95	2065	4.7	196
		Comb.	710	74	1910	1670	87	2115	1.6	1502
		(UI.)	1330	77	2916	2722	93	1452	4.8	1855
		Comb.	2040	76	4826	4392	91	1683	2.8	3357
14.	Maharashtra *	(Ir.)	N.A.							
		(UI.)								
		(Comp.)								
		Comb.	1486	N.A.	5030	4551	90	1731	0.9	2572
		(Sum.)	29	93	500	454	91	2228	1.9	66
15.	Meghalaya	(Aut.)	33	92	322	292	91	1540	0.01	76
		(Wint.)	64	96	758	756	100	1542	0.01	159

1	2		3	4	5	6	7	8	9	10
16.	Odisha	(Aut.)	583	100	6850	6850	100	1775	0.7	1036
		(Wint.)	3282	100	10560	10560	100	2378	0.3	7802
		(Sum.)	301	100	4662	4662	100	3342	1.2	1007
17.	Punjab		2894	100	1984	1982	100	3838	N.A.	11107
18.	Rajasthan #		168	96	794	764	96	3279	2.2	550
19.	Tamil Nadu #	(K/K/S)	295	98	428	422	99	4680	1.2	1383
		(S/T/P)	1317	100	1260	1252	99	4331	0.7	5704
		(N/K)	182	97	300	300	100	4728	1.1	863
		Comb.	1794	99	1988	1974	99	4429	0.5	7950
20.	Uttarakhand		248	100	2958	2531	86	3048	0.9	840
21.	Uttar Pradesh		6109	100	170256	168904	99	2254	N.A.	13771
22.	West Bengal	(Aus.)	228	100	4826	3450	71	2596	1.1	591
		(Aman)	4009	100	13268	10683	81	2740	0.6	10984
		Comb.	4237	100	18094	14133	78	2359	0.7	11575
		(Sum.)	1290	100	11647	9502	82	3373	0.6	4352
23.	Dadra & Nagar Haveli		13	51	78	76	97	4019	1.3	51
24.	Daman & Diu		2	100	20	20	100	1986	0.1	4
25.	Puducherry	(I)	3	100	88	88	100	3167	2.1	11
		(II)	9	100	140	140	100	2906	1.9	26
		(III)	4	100	70	70	100	3099	2.8	12
TOTAL		Kharif	38150	89	338169	319386	94	2638	0.3	102793
		Rabi/Sum.	3291	99	27246	23910	88	3545	0.6	11617
		Comb.	41441	90	365415	343296	94	2710	0.3	114410
2. JOWAR										
1.	Andhra Pradesh	(Kh.)	37	65	104	104	100	1487	8.9	55
		(Rabi)	105	62	364	364	100	2770	2.0	290
2.	Chhattisgarh		5	39	80	42	53	846	11.7	4
3.	Gujarat	(Kh.)	36	95	894	438	49	1220	N.A.	44
		(Rabi)	34	89	300	252	84	1425	N.A.	48

1	2		3	4	5	6	7	8	9	10
4.	Karnataka ***	(Kh.Hyv.Ir.)	24	100	1060	980	92	2077	4.2	48
		(Kh.Hyv.UI.)	110	28	2390	2032	85	1381	3.1	145
		(Kh.Tra.UI.)	17	20	270	236	87	723	7.9	12
		Comb.	152	39	3720	3248	87	1420	2.5	204
		(Rabi Hyv.Ir.)	63	96	1102	1050	95	1652	4.2	99
		(Rabi Hyv.UI.)	711	82	2956	2838	96	1076	2.6	727
		(Rabi Tra.Ir.)	8	89	290	290	100	957	9.6	7
		(Rabi.Tra.UI.)	141	18	730	730	100	775	5.1	104
		Comb.	924	73	5078	4908	97	1068	2.2	937
		(Sum.Hyv.Ir.)	0.2	100	120	20	17	1903	24.4	0.26
5.	Madhya Pradesh		190	81	2412	1810	75	1709	0.7	358
6.	Maharashtra *	(Kh.)	1062	90	5042	4519	90	1082	0.8	1150
		(Rabi Ir.)	N.A.							
		(Rabi UI.)								
		Comb.Rabi	3027	N.A.	8848	8436	95	687	0.7	2080
7.	Rajasthan #		661	99	2582	2450	95	763	3.5	505
8.	Tamil Nadu #	(Ir.)	235	97	440	400	91	2009	2.5	475
		(UI.)	180	99	640	640	100	2205	2.4	394
		Comb.	415	98	1080	1040	96	2094	1.7	869
9.	Uttar Pradesh		162	85	8284	7554	91	984	N.A.	160
T O T A L		Kharif	2720	89	24198	21205	88	1223	0.9	3349
		Rabi/Sum.	4090	19	14710	13980	95	833	0.8	3356
		Comb.	6809	47	38908	35185	90	988	0.6	6705
3. BAJRA										
1.	Andhra Pradesh		25	76	462	448	97	1289	5.6	32
2.	Gujarat	(Kh.)	179	99	2026	1886	93	1631	N.A.	292
		(Sum.)	274	96	1720	1610	94	2620	N.A.	718
3.	Haryana		393	68	1532	1456	95	1705	1	670

1	2		3	4	5	6	7	8	9	10
4.	Karnataka ***	(Kh. Hyv.Ir.)	31	100	730	700	96	1429	5.2	41
		(Kh. Hyv.UI.)	243	89	1900	1830	96	1061	3.9	245
		(Kh. Tra.)	3	100	160	150	94	598	12.3	2
		Comb.	276	90	2790	2680	96	1097	3.4	288
5.	Madhya Pradesh		238	94	594	564	95	1996	2.6	476
6.	Maharashtra *	(Ir.)	N.A.							
		(UI.)								
		(Comp.)								
		Comb.	1033	N.A.	3900	3704	95	1086	N.A.	1122
7.	Rajasthan #		4077	100	8754	8502	97	1093	1.2	4456
8.	Tamil Nadu #	(Ir.)	33	96	240	240	100	3023	3.3	100
		(UI.)	25	98	204	196	96	3150	2.0	77
		Comb.	58	97	444	436	98	3077	2.0	178
9.	Uttar Pradesh		973	100	34224	33833	99	1893	N.A.	1843
10.	Daman & Diu		0.3	100	8	8	100	1529	4.88	0.4
T O T A L		Kharif.	7252	83	54734	53517	98	1292	0.9	9357
		Rabi/Sum.	274	96	1720	1610	94	2620	-	718
		Comb.	7526	84	56454	55127	98	1340	0.8	10075
4. MAIZE										
1.	Andhra Pradesh	(Kh.)	100	50	208	208	100	3252	4.9	325
		(Rabi)	203	38	218	218	100	7909	2.8	1609
2.	Bihar #	(Bha.Hyv.)	130	72	4556	2316	51	3262	N.A.	424
		(Bha. Lv.)	147	68	6104	4547	74	2721	N.A.	401
		Comb.	277	70	10660	6863	64	2975	N.A.	825
		(Rabi)	251	82	500	446	89	3630	N.A.	914
		(Gar.Hyv.)	138	79	260	68	26	4250	N.A.	588
		(Gar.Lv.)	39	95	80	52	65	3889	N.A.	152
		Comb.	177	83	340	120	35	4170	N.A.	740
3.	Chhattisgarh		122	94	1362	1108	81	1886	3.1	230
4.	Gujarat		309	95	1240	1040	84	1256	N.A.	388
5.	Haryana		9	7	144	76	53	2000	5.9	18

1	2		3	4	5	6	7	8	9	10
6.	Himachal Pradesh		292	100	1570	1402	89	2795	1.4	736
7.	Jammu & Kashmir	(Plain)	N.A.							
		(Hills)	N.A.							
		Comb.	299	52	1454	1158	80	1236	5	360
8.	Jharkhand	(Bha.)	107	N.A.	720	648	90	1716	N.A.	183
9.	Karnataka ***	(Kh.Hyv.Ir.)	383	100	2592	2574	99	3973	3.5	1445
		(Kh.Hyv.UI.)	841	100	3806	3770	99	2984	2.6	2383
		(Kh. Tra.I)	0.1	100	8	8	100	4405	38.8	0.3
		(Kh. Tra.UI)	0	0	0	0	0	0	0	0
		Comb.	1223	100	6406	6352	99	3294	2.1	3828
		(Rabi Hyv.Ir.)	83	100	1560	1500	96	3715	4.1	293
		(Rabi Hyv.UI)	18	100	580	390	67	1707	8.5	30
		(Rabi Tra.Ir.)	0	0	0	0	0	0	0.0	0
		Comb.	101	100	2140	1890	88	3351	3.8	322
		(Sum.Hyv.)	19	100	690	690	100	3569	5.4	65
10.	Madhya Pradesh		975	90	3714	3537	95	2169	1.7	2115
11.	Maharashtra *	(Kh.)	731	75	860	773	90	3024	1.4	2209
		(Rabi)	138	50	496	378	76	2630	1.8	362
12.	Odisha	(Aut.)	89	100	2879	2879	100	2040	2.6	182
		(Wint.)	0.2	100	131	131	100	1670	2.6	0.30
		(Sum.)	3	100	326	326	100	2611	2.5	6
13.	Punjab		126	100	354	354	100	3652	N.A.	460
14.	Rajasthan #	(Kh.)	891	100	5462	5402	99	1740	1.1	1551
15.	Tamil Nadu #	(Ir.)	191	78	256	256	100	8722	2.2	1664
		(UI.)	130	95	176	176	100	7500	2.0	984
		Comb.	322	85	432	432	100	8227	1.6	2648
16.	Uttar Pradesh	(Kh.)	610	97	31004	30741	99	1840	N.A.	1123
		(Rabi)	6	84	60	60	100	2355	N.A.	14
17.	West Bengal		45	100	1177	548	47	2689	4.8	122
T O T A L		Kharif	6420	90	69777	63004	90	2712	0.8	17120
		Rabi/Sum.	899	70	4770	4128	87	3491	2.9	4033
		Comb.	7319	87	74547	67132	90	2807	0.8	21152
5. RAGI (MANDUA)										
1.	Andhra Pradesh	(Kh.)	29	92	190	190	100	947	2.3	27
		(Rabi)	5	39	96	96	100	1500	5.3	7
2.	Bihar #	(Bha.)	7	90	200	110	55	1474	N.A.	10

1	2		3	4	5	6	7	8	9	10
3.	Goa		0.015	100	10	10	100	696	N.A.	0.010
4.	Gujarat	(Kh.)	20	96	152	152	100	854	N.A.	17
5.	Jharkhand		21	N.A.	720	364	51	922	N.A.	20
6.	Karnataka ***	(Kh.Hyv.Ir.)	21	100	1290	1290	100	2401	3.9	49
		(Kh.Hyv.UI.)	588	100	3428	3402	99	1866	2.3	1043
		(Kh.Tra.)	3	29	92	92	100	2203	21.5	7
		Comb.	613	100	4810	4784	99	1887	2.2	1099
		(Rabi Hyv.Ir.)	4	23	410	360	88	2172	6.1	8
		(Rabi Hyv.UI.)	31	100	650	580	89	1041	13.5	31
		Comb.	35	91	1060	940	89	1172	10.7	39
		(Sum. Hyv.Ir.)	5	100	260	250	96	2060	7.4	9
7.	Maharashtra *		120	98	968	906	94	979	2.1	117
8.	Odisha	(Aut.)	15	100	1108	1108	100	709	1.3	11
		(Wint.)	36	100	578	578	100	750	1.7	27
		(Sum.)	0.3	100	84	84	100	910	4.0	0.3
9.	Tamil Nadu #	(Ir.)	74	94	160	160	100	3004	2.6	223
		(UI.)	30	99	200	200	100	4198	2.8	126
		Comb.	104	95	360	360	100	3348	1.9	349
10.	Uttarakhand		113	100	1086	1023	94	1485	1.069	152
11.	Dadra & N. Haveli		1	53	78	34	44	1005	1.8	1
T O T A L		Kharif	1079	86	10260	9619	94	1609	1.7	1830
		Rabi/Sum.	45	86	1500	1370	91	1299	8.6	55
		Comb.	1124	86	11760	10989	93	1596	1.7	1885
6. WHEAT										
1.	Assam		24	97	850	636	75	1217	2.3	29
2.	Bihar #	(Hyv.Ir.)	N.A.							
		(Hyv.UI.)								
		(Lv.Ir.)								
		(Lv.UI.)								
		Comb.	2154	100	10640	10332	97	1657	N.A.	3570

1	2	3	4	5	6	7	8	9	10	
3.	Chhattisgarh	(Ir.)	75	88	1534	1264	82	1554	1.7	116
		(UI)	23	85	596	498	84	1092	5.79	25
		Comb.	98	87	2130	1762	83	1446	1.7	141
4.	Gujarat	(Ir.)	1103	99	4380	4319	99	2936	N.A.	3238
		(UI.)	68	99	358	266	74	794	N.A.	54
		Comb.	1171	99	4738	4585	97	2812	N.A.	3292
5.	Haryana		2628	100	2200	2154	98	3979	0.5	10457
6.	Himachal Pradesh		330	99	1784	1566	88	2180	1.4	648
7.	Jammu & Kashmir	(Plain)	N.A.							
		(Hills)	N.A.							
		Comb.	317	76	1938	1430	74	1004	4	311
8.	Jharkhand	(Hyv.Ir.)	N.A.							
		(Lv.Ir.)	N.A.							
		(Lv.UI.)	N.A.							
		Comb.	64	N.A.	7800	7008	90	1463	N.A.	93
9.	Karnataka ***	(Hyv.Ir.)	100	79	1174	1154	98	1399	4.9	133
		(Hyv.UI.)	46	54	958	922	96	857	4.1	37
		(Tra.Ir.)	7	21	240	240	100	1390	8.6	9
		(Tra.UI.)	44	46	420	410	98	624	8.3	26
		Comb.	196	64	2792	2726	98	1099	3.5	205
10.	Madhya Pradesh	(Hyv. Ir.)	4708	96	5762	5280	92	2952	0.5	13898
		(Lv.Ir.)	747	78	1978	1566	79	2620	1.9	1957
		Comb.	5455	94	7740	6846	88	2907	0.5	15855
		(UI.)	526	92	2686	2470	92	1585	1.5	834
		Comb.	5981	93	10426	9316	89	2790	0.5	16689
11.	Maharashtra *	(Ir.)	N.A.							
		(UI.)								
		(Comb.)	1307	N.A.	8708	8208	94	1757	0.5	2296
12.	Odisha	(Sum.)	0.40	100.00	162	162	100	1628	2.9	0.7
13.	Punjab #		3505	100	2300	2294	100	4294	N.A.	15050
14.	Rajasthan #	(Ir.)	N.A.							
		(UI.)	N.A.							
		(Comp.)	N.A.							
		Comb.	3318	100	17114	16564	97	2961	0.64	9824

1	2		3	4	5	6	7	8	9	10
15.	Uttarakhand		348	100	2958	2706	91	1852	0.89	654
16.	Uttar Pradesh		10047	100	205960	204284	99	2027	N.A.	20365
17.	West Bengal		335	100	3143	2813	90	2807	0.5	939
T O T A L			31823	93	285643	278546	98	2640	0.3	84563
7. BARLEY										
1.	Bihar #		12	89	300	273	91	1109	N.A.	13
2.	Chhattisgarh		2	60	36	24	67	1259	2.7	3
3.	Haryana		35	29	516	358	69	3143	N.A.	110
4.	Himachal Pradesh		22	53	658	544	83	1877	4.4	37
5.	Jharkhand		N.A.							
6.	Madhya Pradesh		74	74	810	788	97	1728	1.8	128
7.	Punjab #		11	93	246	244	99	3580	N.A.	39
8.	Rajasthan #		343	97	2758	2608	95	2803	1.36	962
9.	Uttarakhand		21	100	664	643	97	1182	1.34	24
10.	Uttar Pradesh		156	83	1172	941	80	1621	N.A.	253
T O T A L			676	86	7160	6423	90	2308	1.3	1569
8. GRAM (BENGALGRAM)										
1.	Andhra Pradesh		342	96	1262	1254	99	1144	N.A.	391
2.	Bihar #		60	97	800	696	87	958	N.A.	57
3.	Chhattisgarh		281	99	1264	1083	86	1035	2.5	290
4.	Gujarat		164	92	1360	1186	87	1023	N.A.	168
5.	Haryana		65	40	562	522	93	631	0.8	41
6.	Jharkhand		28	N.A.	720	648	90	879	N.A.	24
7.	Karnataka ***	(Ir.)	119	100	1358	1338	99	855	4.9	97
		(UI.)	804	100	3522	3496	99	785	2.4	599
		Comb.	923	100	4880	4834	99	794	2.1	696
8.	Madhya Pradesh		4395	94	9224	7526	82	1002	0.7	4423
9.	Maharashtra *		838	92	5456	5224	96	918	9.9	770
10.	Punjab #		18	100	100	100	100	1085	N.A.	20
11.	Rajasthan #	(Ir.)	N.A.							
		(UI.)	N.A.							
		(Comp.)	N.A.							
		Comb.	1256	100	8544	7492	88	725	2.42	911

1	2	3	4	5	6	7	8	9	10	
12.	Uttar Pradesh		534	97	16342	16072	98	316	N.A.	170
13.	West Bengal		26	100	1009	879	87	1178	1.9	31
T O T A L			8870	96	51523	47516	92	896	1.2	7992
9. REDGRAM (TUR/ ARHAR)										
1.	Andhra Pradesh		149	64	620	620	100	501	1.2	75
2.	Bihar #	(Rabi)	20	88	600	514	86	1438	N.A.	29
3.	Chhattisgarh		53	85	1170	956	82	636	2.5	34
4.	Gujarat	N.A.								
5.	Haryana		6	21	360	280	78	1068	N.A.	6
6.	Jharkhand	(Rabi)	33	N.A.	720	490	68	1819	N.A.	60
7.	Karnataka ***		812	99	4734	4626	98	970	2.1	749
8.	Madhya Pradesh		447	81	3186	2678	84	646	1.7	312
9.	Maharashtra *		1302	95	5818	5687	98	750	0.7	976
10.	Tamil Nadu #		61	94	336	336	100	1281	1.8	78
11.	Uttar Pradesh		274	75	14024	13688	98	608	N.A.	167
12.	West Bengal	(Rabi)	2	100	265	217	82	1436	11.0	3
T O T A L			3159	89	31833	30092	95	784	0.8	2489
10. GREENGRAM (MOONG)										
1.	Andhra Pradesh	(Kh.)	11	NA	138	138	100	920	6.2	10
		(Rabi)	160	48	292	292	100	820	1.9	131
2.	Bihar #	(Bha.)	9	93	200	142	71	918	N.A.	8
		(Gar.)	157	91	500	306	61	601	N.A.	94
3.	Gujarat	N.A.								
4.	Karnataka ***	(Kh.)	310	99	2800	2628	94	260	3.3	77
		(Rabi)	4	100	100	100	100	276	9.2	1
5.	Maharashtra *		554	98	6214	6018	97	672	0.6	372
6.	Odisha	(Aut.)	22	100	622	622	100	223	3.0	5
		(Wint.)	98	100	1353	1353	100	305	3.2	30
		(Sum.)	176	100	2157	2157	100	400	1.3	70
7.	Rajasthan #		894	100	4320	4233	98	515	1.9	461
8.	Tamil Nadu #		229	92	440	440	100	787	1.7	181

1	2	3	4	5	6	7	8	9	10	
9.	Uttar Pradesh	(Kh.)	40	70	1924	1868	97	304	N.A.	12
		(Zaid)	50	88	600	506	84	649	N.A.	33
10.	West Bengal	(Sum.)	28	100	655	617	94	681	2.0	19
T O T A L		Kharif	2167	97	18011	17442	97	535	0.9	1155
		Rabi/ Sum.	571	82	4304	3978	92	609	1.2	348
		Comb.	2738	94	22315	21420	96	550	0.8	1503
11. BLACKGRAM (URD /MATHIKALAI)										
1.	Andhra Pradesh	(Kh.)	19	18	104	104	100	1079	3.7	21
		(Rabi)	296	54	498	498	100	937	2.4	278
2.	Assam	(Rabi)	53	75	500	456	91	648	7.7	34
3.	Gujarat	(Rabi)	N.A.							
4.	Karnataka ***	(Kh.)	92	100	1090	1040	95	522	4.3	46
		(Rabi)	4	100	130	130	100	587	9.2	2
5.	Maharashtra *	(Kh.)	482	73	4916	4788	97	682	0.6	329
6.	Odisha	(Aut.)	23	100	919	919	100	262	1.8	6
		(Wint.)	56	100	2351	2351	100	364	1.8	20
		(Sum.)	3	100	322	322	100	400	2.8	1
7.	Rajasthan #	(Kh.)	201	97	2318	2212	95	556	2.4	112
8.	Tamil Nadu #		374	89	424	420	99	960	1.5	359
9.	Uttar Pradesh	(Kh.)	525	94	14716	14446	98	537	N.A.	282
		(Zaid)	44	81	700	600	86	526	N.A.	23
10.	West Bengal		62	100	1765	1346	76	686	7.9	42
T O T A L		Kharif	1834	88	28603	27626	97	665	0.9	1217
		Rabi/ Sum.	400	61	2150	2006	93	788	2.5	339
		Comb.	2235	83	30753	29632	96	687	0.9	1556
12. LAKH (KHESARI)										
1.	Bihar #		60	88	340	294	86	990	N.A.	60
2.	Chhattisgarh		296	67	262	214	82	953	0.0	282
3.	Madhya Pradesh		41	83	652	544	83	780	5.1	32
4.	West Bengal	(Sum.)	33	100	492	422	86	1243	3.8	41
T O T A L			430	74	1746	1474	84	964	0.6	415

1	2		3	4	5	6	7	8	9	10
13. MASUR										
1.	Bihar #		153	87	900	760	84	916	N.A.	140
2.	Jharkhand		NA							
3.	Rajasthan #		50	99	220	212	96	853	4.7	43
4.	Uttar Pradesh		389	92	18416	18130	98	511	N.A.	199
5.	West Bengal		66	100	2909	2486	85	963	1.3	64
T O T A L			658	92	22445	21588	96	676	2.8	446
14. HORSEGRAM (KULTHI)										
1.	Andhra Pradesh	(Kh.)	11	39	40	40	100	449	6.7	5
		(Rabi)	25	57	120	120	100	439	4.7	11
2.	Karnataka ***	(Kh.)	57	96	2760	2390	87	531	2.8	29
		(Rabi)	108	100	3020	2760	91	553	3.2	57
3.	Odisha	(Wint.)	38	100	3229	3229	100	344	1.0	13
		(Sum.)	0.1	100	24	24	100	329	7.5	0.04
4.	Tamil Nadu #		78	98	320	320	100	739	1.7	58
T O T A L			317	93	9513	8883	93	557	1.5	172
15. PEAS										
1.	Uttar Pradesh		400	89	6932	6760	98	748	N.A.	299
2.	West Bengal		14	100	356	255	72	1189	3.0	17
T O T A L			414	89	7288	7015	96	763	-	316
16. MOTH										
1.	Gujarat		N.A.							
2.	Rajasthan #		869	100	2130	2079	98	393	3.5	341
T O T A L			869	100	2130	2079	98	393	3.5	341
17. CHOWLA										
1.	Rajasthan #		60	97	520	494	95	649	2.9	39
18. GUAR										
1.	Gujarat									
2.	Rajasthan #		4630	100	7364	7244	98	593	2.7	2747
T O T A L			4630	100	7364	7244	98	593	2.7	2747
19. SAWAN (JHANGORA)										
1.	Uttarakhand		56	100	612	579	95	1396	1.5	78
2.	Uttar Pradesh	(Kh.)	6	98	70	70	100	734	N.A.	4
		(Zaid)	0.1	69	20	10	50	938	N.A.	0.1
T O T A L			62	100	702	659	94	1331	1.6	82

1	2	3	4	5	6	7	8	9	10	
20. KORRA.										
1.	Andhra Pradesh		9	53	94	94	100	895	4.8	8
21. KODON - KUTKI (KODRA)										
1.	Chhattisgarh		98	87	276	224	81	224	10.3	22
2.	Madhya Pradesh		170	93	1168	912	78	816	6.2	158
3.	Uttar Pradesh	(Kodon)	3	91	80	50	63	757	N.A.	2
T O T A L			271	91	1524	1186	78	601	5.5	182
22. NAVANE										
1.	Karnataka ***		7	100	750	698	93	402	4.9	3
23. SAVE										
1.	Karnataka ***		15	100	370	316	85	673	7.2	10
24. SAMAI										
1.	Tamil Nadu #		17	78	100	100	100	1451	2.5	25
25. VARAGU										
1.	Tamil Nadu #		2	95	124	112	90	2052	3.5	4
26. SUGARCANE										
1.	Andhra Pradesh	(Plt.)	64	82	816	814	100	74000	1.2	4788
		(Rt.)	75	82	786	786	100	70000	1.0	5217
		(Comb.)	139	82	1602	1600	100	71842	0.8	10005
2.	Assam		30	90	700	581	83	36760	0.1	1099
3.	Bihar #	(Ir.)	N.A.							
		(UI.)								
		(Comb.)	254	93	740	627	85	55179	N.A.	14034
4.	Goa		1	100	110	110	100	60910	N.A.	49
5.	Haryana		96	66	1070	848	79	73281	N.A.	7035
6.	Jharkhand		7	N.A.	300	102	34	42024	N.A.	294
7.	Karnataka ***		328	100	1060	1060	100	97000	5.5	30084
8.	Kerala		2	100	50	50	100	9791	N.A.	15
9.	Maharashtra *		965	93	10278	8492	83	89000	0.4	85679
10.	Odisha		10	100	504	504	100	71951	4.0	723

1	2		3	4	5	6	7	8	9	10
11.	Punjab		94	76	668	663	99	74888	N.A.	704
12.	Rajasthan #		6	97	450	410	91	73390	6.7	409
13.	Tamil Nadu #		263	99	468	467	100	107000	1.0	28075
14.	Uttar Pradesh		2216	98	9508	9311	98	65821	N.A.	145831
15.	West Bengal	(Rabi)	18	100	485	363	75	118767	2.6	2106
T O T A L			4429	95	27993	25188	90	75536	1.4	326142
27. COCOA										
1.	Kerala		13	100	796	796	100	1076	N.A.	14
28. CHILLIES										
1.	Andhra Pradesh	(Kh.)	109	77	348	348	100	5622	3.5	614
		(Rabi)	26	40	266	246	92	4879	4.8	125
2.	Bihar #	(Rabi)	2	83	250	86	34	1400	4.0	3
3.	Chhattisgarh	(Rabi)	5	6	32	10	31	893	1.4	4
4.	Karnataka ***	(Kh.)	61	100	720	690	96	1160	5.5	70
		(Rabi)	0	0	0	0	0	0	0.0	0
		(Sum.)	0	0	0	0	0	0	0.0	0
5.	Madhya Pradesh	(Rabi)	66	56	473	336	71	1104	5.5	91
T O T A L			269	72	2089	1716	82	3313	2.9	907
29. CUMIN										
1.	Gujarat	(Rabi)	276	99	1700	1642	97	677	N.A.	187
2.	Rajasthan #	(Rabi)	435	100	2954	2536	86	278	3.0	121
T O T A L			711	100	4654	4178	90	433	2.0	308
30. FENNEL										
1.	Gujarat		N.A							
31. ARECANUT										
1.	Kerala		97	100	1620	1620	100	1302	2.2	126
2.	Maharashtra *		N.A							
T O T A L			97	100	1620	1620	100	1163	2.5	126
32. PEPPER										
1.	Kerala		85	100	1617	1617	100	476	4.0	41
33. SAFFRON										
1.	Jammu & Kashmir \$\$		3	N.A.	102	96	94	3	N.A.	0.009
34. TURMERIC										
1.	Kerala		2	100	1541	1541	100	2761	N.A.	7

1	2		3	4	5	6	7	8	9	10
35. GINGER										
1.	Kerala		5	100	1441	1441	100	4789	N.A.	23
2.	Meghalaya		10	91	560	552	99	7024	0.01	65
T O T A L			15	94	2001	1993	100	6259	0.0	88
36. GARLIC										
1.	Gujarat		N.A.							
37. CORIANDER										
1.	Rajasthan #		249	99.5	492	480	98	797	3.7	199
38. LICHI										
1.	Bihar #		9	86	300	130	41	3950	1.9	34
39. BANANA										
1.	Bihar #		12	96	500	112	22	16590	5.4	204
2.	Gujarat		N.A.							
3.	Kerala		62	100	2384	2384	100	8806	1.0	545
4.	Madhya Pradesh @		N.A.	N.A.	138	80	58	N.A.	N.A.	N.A.
T O T A L			74	99	3022	2576	85	10068	1.6	749
40. MANGO										
1.	Bihar #		72	94	600	194	32	31520	2.0	22628
2.	Kerala		77	100	1620	1620	100	5616	N.A.	434
T O T A L			149	97	2220	1814	82	18133	3.5	23062
41. GUAVA										
1.	Bihar #		1	86	250	32	13	8410	6.8	8
42. JACKFRUIT										
1.	Bihar #		6	88	300	66	22	27120	1.9	155
2.	Kerala		92	100	1618	1618	100	3178	N.A.	293
T O T A L			98	99	1918	1684	88	4644	11.2	448
43. CASHEWNUT										
1.	Kerala		45	100	1549	1549	100	654	N.A.	30
2.	Maharashtra *		N.A.							
T O T A L			45	100	1549	1549	100	793	-	30
44. TAPIOCA										
1.	Kerala		75	100	1596	1596	100	38996	1.1	2944
45. PINE APPLE										
1.	Kerala		8	100	1572	1572	100	9620	N.A.	78

1	2	3	4	5	6	7	8	9	10	
46. POTATO										
1.	Assam	(Rabi)	105	91	850	814	96	7499	2.4	784
2.	Bihar #	(Agh.)	2	66	250	152	61	23126	N.A.	48
		(Rabi)	95	72	300	290	97	12270	3	1173
3.	Chhattisgarh	(Rabi)	12	31	230	38	17	5962	6.1	67
4.	Gujarat	(Rabi)	102	98	520	430	83	25667	N.A.	2609
5.	Jharkhand	(Agh.)	22	N.A.	480	260	54	7389	N.A.	158
		(Rabi)	17	N.A.	720	652	91	7164	N.A.	122
6.	Jammu & Kashmir \$\$	(Kh.)	1	N.A.	206	126	61	7305	N.A.	7
		(Rabi)	1	N.A.	158	132	84	10280	N.A.	11
7.	Karnataka ***	(Kh.)	26	97	190	122	64	6907	12.6	170
		(Rabi)	3	100	130	98	75	12931	13.3	40
8.	Madhya Pradesh	(Rabi)	67	68	1016	791	78	13892	0.9	1262
9.	Meghalaya	(Sum.)	12	98	324	302	93	11610	N.A.	139
10.	Odisha	(Wint.)	8	100	2335	2335	100	12324	1.6	104
11.	Uttar Pradesh	(Rabi)	574	93	18872	18534	98	22520	N.A.	12916
T O T A L			1048	86	26581	25076	94	18427	0.8	19610
47. ONION										
1.	Bihar #	(Rabi)	14	73	300	264	88	10700	N.A.	151
2.	Chhattisgarh	(Rabi)	6	14	48	16	33	5858	7.5	33
3.	Gujarat	(Rabi)	N.A.							
4.	Jharkhand	(Rabi)	4	N.A.	720	360	50	6086	N.A.	22
5.	Karnataka ***	(Kh.)	99	100	860	840	98	7051	5.2	661
		(Rabi)	0.4	100	30	20	67	10499	22.2	4
		(Sum.)	0	0	0	0	0	0	0.0	0
6.	Madhya Pradesh @	(Rabi)	73	92	642	458	71	18760	2.4	1377
7.	Uttar Pradesh	(Rabi)	9	21	50	40	80	15017	N.A.	140
		(Zaid)	11	51	644	618	96	15152	N.A.	165
T O T A L			216	86	3294	2616	79	11952	2.3	2554
48. BRINJAL										
1.	Bihar #	(Agh.)	19	69	250	170	68	9330	0.36	177
		(Rabi)	41	69	250	160	64	8180	7.82	334
2.	Jharkhand	(Agh.)	6	N.A.	480	212	44	8198	N.A.	43
		(Rabi)	4	N.A.	720	480	67	7754	N.A.	29
T O T A L			69	60	1700	1022	60	8472	5.2	583

1	2	3	4	5	6	7	8	9	10	
49. TOMATO										
1.	Bihar #	(Agh.)	9	45	100	72	72	10340	0.52	89
		(Rabi)	4	61	200	96	48	10120	4.39	44
2.	Jharkhand	(Agh.)	8	N.A.	480	260	54	7820	N.A.	63
		(Rabi)	5	N.A.	720	472	66	7994	N.A.	49
T O T A L			26	25	1500	900	60	9068	1.6	245
50. CAULIFLOWER										
1.	Bihar #		29	86	300	188	63	10500	N.A.	308
51. PAPAYA (PAPITA)										
1.	Madhya Pradesh @		N.A.	N.A.	32	30	94	N.A.	N.A.	N.A.
52. PLANTAIN										
1.	Kerala		57	100	1622	1622	100	8251	N.A.	468
53. METHI										
1.	Rajasthan #		82	95	768	678	88	1030	2.86	84
54. GROUNDNUT										
1.	Andhra Pradesh	(Kh.)	804	98	2572	2468	96	410	2.0	330
		(Rabi)	70	56	672	650	97	2325	1.9	163
2.	Chhattisgarh		26	81	560	400	71	1414	2.63	36
3.	Goa	(Kh.)	0.4	100	37	37	100	2031	N.A.	1
		(Rabi)	2	100	80	60	75	1873	N.A.	4
4.	Gujarat	(Kh.)	1332	99	2272	2129	94	2021	2.5	2692
		(Sum.)	51	74	1800	1340	74	1840	N.A.	94
5.	Karnataka ***	(Kh.Ir.)	31	100	1100	1072	97	1497	5.3	44
		(Kh.UI.)	434	100	4238	4068	96	804	3.3	331
		(Comb.)	464	100	5338	5140	96	850	2.9	375
		(Rab.UI.)	3	N.A.	70	70	100	1922	13.4	6
		(Sum. Ir.)	0	0	0	0	0	0	0.0	0
		(Sum. UI.)	0	0	0	0	0	0	0	0
		(Comb.)	3	N.A.	70	70	100	1922	13	6
6.	Madhya Pradesh		190	94	1096	1066	97	1604	2.9	324
7.	Maharashtra *	(Kh.)	275	91	3030	2827	93	1256	1.0	346
		(Sum.)	89	98	1922	1804	94	1394	2.5	192

1	2		3	4	5	6	7	8	9	10
8.	Odisha	(Aut.)	21	100	1034	1034	100	1032	1.5	21
		(Wint.)	2	100	153	153	100	1010	7.0	2
		(Sum.)	26	100	1001	1001	100	1471	2.5	39
9.	Rajasthan #		501	99	2092	1944	93	2019	1.6	1011
10.	Tamil Nadu #	(Ir.)	210	98	700	700	100	2340	1.8	492
		(UI.)	126	99	460	460	100	3442	2.0	434
		Comb.	336	98	1160	1160	100	2753	1.3	926
11.	Uttar Pradesh		102	93	6016	5782	96	869	N.A.	89
12.	West Bengal	(Rabi)	55	100	507	439	87	2334	2.2	129
T O T A L		Kharif	4054	98	25360	24140	95	1518	1.5	6152
		Rabi/Sum.	297	83	6052	5434	90	1865	1.2	633
		Comb.	4350	97	31412	29574	94	1541	1.4	6786
55. SESAMUM (GINGELLY)										
1.	Andhra Pradesh	(Kh.)	21	77	210	210	100	273	6.9	6
		(Rabi)	64	33	80	80	100	347	11.1	22
2.	Chhattisgarh		18	50	124	90	73	451	6.9	8
3.	Gujarat		137	95	1396	1337	96	578	N.A.	79
4.	Karnataka ***		38	100	1960	1778	91	566	4.1	21
5.	Kerala		0.3	100	102	102	100	341	N.A.	0.09
6.	Madhya Pradesh		266	73	1654	1542	93	509	2.2	153
7.	Maharashtra *	(Kh.)	53	77	1478	1240	84	360	1.3	19
		(Rabi)	3	22	20	10	50	285	19.4	1
8.	Odisha	(Aut.)	4	100	301	301	100	226	2.9	1
		(Wint.)	18	100	952	952	100	254	2.4	5
		(Sum.)	4	100	669	669	100	300	5.4	1
9.	Rajasthan #		330	99	3198	3043	95	341	3.0	112
10.	Tamil Nadu #	(Ir.)	21	91	216	216	100	629	2.1	13
		(UI.)	43	86	256	256	100	730	2.8	31
		(Comb.)	64	88	472	472	100	696	2.1	44
11.	Uttar Pradesh		382	92	9600	9366	98	186	N.A.	71
12.	West Bengal	(Sum.)	222	100	3316	2808	85	931	1.5	207
T O T A L		Kharif	1332	89	21447	20433	95	378	1.5	518
		Rabi/Sum.	293	85	4085	3567	87	788	1.7	231
		(Comb.)	1625	88	25532	24000	94	452	1.2	749

1	2	3	4	5	6	7	8	9	10	
56. CASTOR										
1.	Andhra Pradesh		46	49	142	142	100	578	7.6	27
2.	Gujarat		694	96	2726	2602	95	2238	N.A.	1548
3.	Karnataka ***		7	100	670	658	98	870	4.2	6
T O T A L			747	93	3538	3402	96	2122	1.8	1581
57. RAPE & MUSTARD										
1.	Assam		281	99	1250	1182	95	667	1.0	188
2.	Bihar #		84	80	876	742	85	85	N.A.	93
3.	Chhattisgarh		46	93	1030	842	82	576	3.3	26
4.	Gujarat		185	95	1100	1040	95	1820	1.1	337
5.	Haryana		482	64	1040	990	95	1434	0.5	691
6.	Jammu & Kashmir \$\$		59	N.A.	286	266	93	791	N.A.	48
7.	Jharkhand		27	N.A.	720	652	91	1918	N.A.	52
8.	Madhya Pradesh		622	80	2214	2046	92	994	1.3	660
9.	Odisha	(Wint.)	10	100	2083	2082	100	244	1.7	2
10.	Punjab #		31	97	542	540	100	1248	N.A.	39
11.	Rajasthan #	(Ir.)	N.A.							
		(UI.)	N.A.							
		(Comp.)	N.A.							
		Comb.	2434	100	13274	12440	94	1183	0.6	2879
12.	Uttar Pradesh		584	92	29452	28416	96	777	N.A.	454
13.	West Bengal		449	100	5137	4424	86	1069	1.0	480
T O T A L			5294	92	59004	55662	94	1099	0.4	5949
58. LINSEED (ALSI)										
1.	Chhattisgarh		31	85	760	619	81	398	3.3	12
2.	Jammu & Kashmir \$\$		0.2	N.A.	24	16	67	642	N.A.	0.1
3.	Karnataka ***		4	100	470	450	96	319	5.0	1
4.	Madhya Pradesh		98	72	1152	1136	99	548	2.3	61
5.	Maharashtra *		39	51	358	266	74	264	N.A.	10
6.	Uttar Pradesh		25	32	80	66	83	589	N.A.	15
7.	West Bengal		5	100	262	216	82	364	10.4	2
T O T A L			202	66	3106	2769	89	466	2.1	101
59. SAFFLOWER										
1.	Karnataka ***		43	100	1850	1648	89	827	3.4	34
2.	Maharashtra *		173	89	2812	2050	73	544	1.5	94
T O T A L			216	91	4662	3698	79	600	1.4	128

1	2	3	4	5	6	7	8	9	10	
60. SUNFLOWER										
1.	Andhra Pradesh	(Kh.)	11	68	150	132	88	539	6.1	6
		(Rabi)	39	67	340	286	84	877	5.0	34
2.	Haryana	(Rabi)	7	N.A.	260	92	35	4571	N.A.	32
3.	Karnataka ***	(Kh.Ir.)	35	100	1720	1518	88	864	3.9	28
		(Kh.UI.)	151	100	2830	2404	85	445	3.1	64
		Comb.	186	100	4550	3922	86	523	2.4	92
		(Rabi Ir.)	39	100	1764	1648	93	995	3.8	35
		(Rabi UI.)	172	100	2436	2190	90	412	3.4	67
		Comb.	210	100	4200	3838	91	519	2.6	102
		(Sum. Ir.)	16	100	1490	1078	72	1043	4.0	16
4.	Maharashtra *	(Kh.)	69	99	1056	845	80	514	1.9	35
		(Rabi)	139	81	642	475	74	646	2.4	90
		(Sum.)	14	86	452	358	79	567	3.0	8
5.	Tamil Nadu #		9	93	212	212	100	1408	2.4	13
6.	Uttar Pradesh	(Zaid)	2	17	60	56	93	1704	N.A.	3
T O T A L		Kharif	275	98	5968	5111	86	551	1.7	146
		Rabi/Sum.	428	88	7444	6183	83	686	1.4	286
		Comb.	702	92	13412	11294	84	633	1.1	432
61. SOYABEAN										
1.	Andhra Pradesh		N.A.							
2.	Chhattisgarh		106	97	490	468	96	465	8.9	49
3.	Karnataka ***		214	100	1030	994	97	1314	4.4	267
4.	Madhya Pradesh		5207	95	4558	4170	91	1139	1.1	6326
5.	Maharashtra *		2730	92	4382	4154	95	1582	0.6	4316
6.	Rajasthan #		923	99	1694	1632	96	1036	1.8	957
7.	Uttar Pradesh		55	96	1068	1068	100	725	N.A.	40
T O T A L			9235	95	13222	12486	94	1254	0.6	11955
62. TARA MEERA										
1.	Rajasthan #		406	97	1260	1022	81	413	3.8	170
63. COCONUT ##										
1.	Kerala		794	100	2430	2430	100	7491	0.8	5947
2.	Maharashtra *		N.A.							
T O T A L			794	100	2430	2430	100	7491	0.8	5947

1	2	3	4	5	6	7	8	9	10	
64. NIGER										
1.	Maharashtra *		35	68	692	572	83	220	2.4	8
65. COTTON \$ (Lint)										
1.	Andhra Pradesh		815	81	718	718	100	1603	2.6	1306
2.	Gujarat	(Ir.)	N.A.							
		(UI.)								
		Comb.								
3.	Haryana		647	45	940	842	90	509	N.A.	1939
4.	Karnataka ***	(Ir.)	119	N.A.	650	650	100	686	6.3	455
		(UI.)	332	N.A.	1230	1100	89	424	4.1	787
		Comb.	450	N.A.	1880	1750	93	493	3.4	1242
5.	Madhya Pradesh		578	97	998	980	98	1105	2.1	3766
6.	Maharashtra *	(Ir.)	N.A.							
		(UI.)								
		(Comp.)								
		Comb.	3942	N.A.	8674	8194	94	322	0.4	7467
7.	Punjab		420	99	698	694	99	543	N.A.	1342
8.	Rajasthan #		487	97	1576	1411	90	1601	1.6	4582
9.	Tamil Nadu #	(Ir.)	138	91	564	564	100	533	1.8	434
		(UI.)	48	99	256	224	88	580	3.7	165
		Comb.	186	93	820	788	96	545	1.7	599
10.	Uttar Pradesh		5	61	80	76	95	298	N.A.	2
T O T A L			7530	34	16384	15453	94	648	0.9	22245
66. JUTE. @@										
1.	Assam		70	93	600	556	93	1962	1.2	768
2.	Bihar #		95	96	200	178	89	2694	N.A.	1419
3.	Meghalaya		7	90	56	48	86	1722	0.01	67
4.	Odisha		1	100	156	156	100	1625	8.8	2
5.	West Bengal		567	100	5300	4030	76	2795	1.0	8808
T O T A L			740	99	6312	4968	79	2692	0.9	11064

ANNEX - V										
1	2		3	4	5	6	7	8	9	10
67. MESTA. @@										
1.	Andhra Pradesh		7	68	200	200	100	1276	2.0	50
2.	Bihar #		16	96	200	168	84	2402	N.A.	213
3.	West Bengal		9	100	247	211	85	2281	5.5	113
T O T A L			32	91	647	579	89	2122	6.0	376
68. TOBACCO										
1.	Andhra Pradesh	(N)	29	28	158	158	100	3002	5.7	86
		(V)	108	23	294	268	91	2437	2.6	263
		(Comb.)	137	24	452	426	94	2557	2.4	349
2.	Gujarat		N.A.							
3.	Karnataka ***		107	100	380	380	100	850	6.4	87
4.	Maharashtra *		1	100	56	56	100	993	5.4	1
5.	Uttar Pradesh	(Rabi)	23	91	124	124	100	4139	N.A.	97
		(Zaid)	0.1	46	20	20	100	2579	N.A.	1.0
		Comb.	23	91	144	144	100	4132	-	98
T O T A L			268	60	1032	1006	97	2004	9.9	535
69. ISABGOL										
1.	Gujarat		N.A.							
2.	Rajasthan #		356	98	1770	1572	89	331	3.2	118
T O T A L			356	98	1770	1572	89	331	3.2	118
70. AVARE (SEM)										
1.	Karnataka ***		40	98	710	662	93	963	4.2	34
71. COWPEA (LOBIA)										
1.	Karnataka ***		68	99	790	750	95	556	2.6	36

Note :-

1. : All primary data have been supplied by concerned SASA.
2. ** : Estimated average yield is in number of Jackfruits/hect. and production in million numbers for Kerala State.
3. ## : Estimated average yield is in number of coconuts/hect. and production in million nuts.
4. \$: Production of cotton in '000' bales of 170 Kgs. each.
5. * : Figures repeated for the year 2010-11 in the state of Maharashtra .
6. @@ : Production of Jute and Mesta in '000' bales of 180 Kgs. each.
7. *** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.
8. \$\$: Data repeated for year 2011-12 Linseed, Potato, R&M and Saffron.
9. # : coverage percentage repeated for the year 2013-14 .
10. : N.A. = Not Available
11. @ : Figure repeated for the year 2013-14 in respect for crop Banana, Onion and Papaya for Madhya Pradesh.
12. & : Area under the crop Total ('000 hect), Coverage Percentage, Estimated Yield Kg/hect and Production ('000 tonnes) repeated for the year 2013-14 for Rice (Gar. Hyv & Lv) for Bihar.

ANNEX - VI : COMPARISION OF SURVEY ESTIMATES AND OFFICIAL ESTIMATES IN RESPECT OF THOSE CROPS
WHERE DIFFERENCE IN AREA, PRODUCTION OR YIELD IS MORE THAN FIVE PERCENT DURING 2014-15

Sl. No.	S T A T E		SURVEY ESTIMATES			OFFICIAL ESTIMATES		
			Area in 000'ha.	Production in "000" tonnes	Yield in Kg./ha.	Area in `000'ha.	Production in "000" tonnes	Yield in Kg./ha.
1	2		3	4	5	6	7	8
1. RICE								
1.	Andhra Pradesh	Comb.	1635	5097	3119	1635	4241	2594
		Rabi Ir.	759	3358	4424	759	2993	3943
2	Bihar	Aghani	3150	12861	4083	3181	6175	1941
		Gar.	93	216	2342	82	182	2207
3	Chhattisgarh	Kharif	3809	7990	2098	3809	6322	1660
4	Gujarat	Sum.	31	149	4815	31	97	3129
5	Himachal Pradesh		72	127	1953	73	125	1728
6	Jharkhand	Kharif	989	2007	2088	1502	2811	2238
7	Madhya Pradesh		2040	3357	1683	2153	3625	1684
8	Meghalaya	Kharif	97	235	1541	97	236	2436
9	Odisha	Kharif	3865	8838	2287	3865	7291	1886
10	Rajasthan.		168	550	3279	168	367	2186
11	Tamil Nadu	Kharif	1794	7950	4429	1642	5110	3113
12	Uttarakhand		248	840	3048	248	560	2260
13	Uttar Pradesh		6109	13771	2254	5842	12093	2070
14	West Bengal	Kharif	4237	11575	2359	4086	10321	2526
15	Daman & Diu		2	4	1986	2	4	2270
16	Puducherry	Kharif	12	37	2971	13	38	3020
		Rabi/Sum.	4	12	3099	4	15	3681
2. JOWAR								
1.	Andhra Pradesh	Rabi	105	290	2770	105	231	2202
2	Gujarat	Kharif	36	44	1220	111	156	1403
		Rabi	34	48	1425	34	40	1176
3	Madhya Pradesh		190	358	1709	220	377	1714
4	Tamil Nadu	Kharif	415	869	2094	348	513	1475
3. BAJRA								
1.	Andhra Pradesh		25	32	1289	28	38	1357
2.	Gujarat		453	1010	2229	460	771	1677
3	Madhya Pradesh		238	476	1996	225	445	1978
4	Daman & Diu		0.3	0.4	1529	1	2	3922
4. MAIZE								
1	Bihar	Bha.	277	825	2975	277	687	2476
		Rabi	428	1654	3853	429	1530	3854
2	Gujarat		309	388	1256	301	469	1558
3	Haryana		9	18	2000	8	18	2250
4	Himachal Pradesh		292	736	2795	293	579	1979
5	Jammu & Kashmir		299	360	1236	299	531	1204
6	Jharkhand	Bha.	107	183	1716	264	466	1768
7	Madhya Pradesh		975	2115	2169	1132	2128	1880
8	Tamil Nadu	Ir.	191	1664	8722	191	1084	5682
9	Uttar Pradesh	Kharif	610	1123	1840	643	1143	1778
5. RAGI (MANDUA)								
1	Gujarat	Kharif	20	17	854	20	16	800
2	Jharkhand		21	20	922	14	12	838
6. WHEAT								
1	Bihar		2154	3570	1657	2154	3987	1851
2	Gujarat		1171	3292	2812	1112	3059	2751
3	Odisha	Sum.	0.40	0.7	1628	0	1	1650
4	Uttar Pradesh		10047	20365	2027	9846	22417	2277
7. BARLEY								
1	Haryana		35	110	3143	33	105	3182
2	Madhya Pradesh		74	128	1728	83	104	1257
3	Uttar Pradesh		156	253	1621	170	315	1853

ANNEX -VI (Contd..)								
1	2		3	4	5	6	7	8
8. GRAM (BENGALGRAM)								
1	Gujarat		164	168	1023	161	199	1236
2	Uttar Pradesh		534	170	316	558	368	659
9. REDGRAM (TUR/ ARHAR)								
1	Andhra Pradesh		149	75	501	151	76	530
2	Haryana		6	6	1068	6	7	1098
3	Madhya Pradesh		447	312	646	521	511	981
4	Tamil Nadu		61	78	1281	72	77	1064
10. GREENGRAM (MOONG)								
1	Tamil Nadu		229	181	787	201	163	809
2	West Bengal	Sum.	28	19	681	31	25	810
11. BLACKGRAM (URD /MATHIKALAI)								
1	Tamil Nadu		374	359	960	312	309	991
12. LAKH (KHESARI)								
1.	Bihar		60	60	990	81	70	867
2.	Chhattisgarh		296	282	953	363	341	939
12. LAKH (KHESARI)								
1.	Bihar		60	60	990	81	70	867
2.	Chhattisgarh		296	282	953	363	341	939
13. MASUR								
1	Bihar		153	140	916	196	194	989
2	Rajasthan		50	43	853	43	39	919
3	Uttar Pradesh		389	199	511	438	235	537
14. HORSEGRAM (KULTHI)								
1	Odisha	Sum.	0.1	0.04	329	0.1	1	400
15. SUGARCANE								
1	Jharkhand		7	294	42024	7	470	59500
2	Kerala		2	195	97910	2	149	97717
3	Tamil Nadu		263	28075	107000	263	28092	106788
4	Uttar Pradesh		2216	145831	65821	2141	133061	62155
16. GROUNDNUT								
1	Gujarat	Kharif	1332	2692	2021	1346	2918	2168
		Sum.	51	94	1840	55	100	1818
2	Madhya Pradesh		190	324	1604	231	370	1602
3	Uttar Pradesh		102	89	869	98	84	857
4	West Bengal	Rabi	55	129	2334	77	180	2354
17. SESAMUM (GINGELLY)								
1	Gujarat		137	79	578	181	102	564
2	Uttar Pradesh		382	71	186	323	64	198
18. RAPE & MUSTARD								
1	Gujarat		185	337	1820	185	263	1422
2	Jharkhand		27	52	1918	201	126	625
3	Madhya Pradesh		622	660	994	713	717	1006
4	Uttar Pradesh		584	454	777	626	582	930
19. LINSEED (ALSI)								
1	Madhya Pradesh		98	61	548	111	60	541
20. SUNFLOWER								
1	Andhra Pradesh	Rabi	39	34	877	39	34	872
2.	Haryana	Rabi	7	32	4571	12	32	2767
3	Uttar Pradesh	Zaid	2	3	1704	3	4	1333
21. SOYABEAN								
1	Chhattisgarh		106	49	465	106	80	753
2	Madhya Pradesh		5207	6326	1139	5578	6353	1139
3	Uttar Pradesh		55	40	725	52	38	731
22. COTTON \$ (Lint)								
1	Haryana		647	1939	509	648	2300	603
2	Punjab		420	1342	543	420	1600	648
3	Tamil Nadu		186	599	545	187	686	624
23. JUTE. @@								
1	Odisha		1	2	1625	1	10	1715
2	West Bengal		567	8808	2795	567	8341	2647

1. * : Production in "000" bales of 170 Kg. each.
2. ** : Production in "000" bales of 180Kg.each.

ANNEX-VII : ESTIMATES OF YIELD RATES FROM IRRIGATED AND UN-IRRIGATED PLOTS UNDER CES DURING 2014-15

Sl. No.	S T A T E	Season	IRRIGATED PLOTS			UN - IRRIGATED PLOTS		
			No. of Expts. Analysed	Yield Rate Kg/ha.	Area `000' ha.	No. of Expts. Analysed	Yield Rate Kg/ha.	Area `000' ha.
1	2	3	4	5	6	7	8	9
1. RICE								
1.	Andhra Pradesh	Kh.	4060	3088	1565	224	1726	70
		Rabi	2732	4274	758	-	-	1
2.	Assam	Aut.	253	1861	N.A.	1121	1371	N.A.
		Wint.	81	2271	N.A.	2875	1915	N.A.
		Sum.	993	2878	N.A.	356	1933	N.A.
3.	Bihar @	Bha.	146	1974	213	302	2312	336
		Agh.	38752	4236	1819	25646	3395	780
		Gar.	284	3513	93	-	-	-
4.	Chhattisgarh		478	2532	1226	2700	1830	2540
5.	Goa	Kh.	-	-	-	196	2919	27.8
		Rabi	186	2777	14	-	-	-
6.	Gujarat	Kh.	N.A.					
		Sum.						
7.	Haryana		974	3124	1277	-	-	-
8.	Himachal Pradesh		385	2061	N.A.	370	1727	N.A.
9.	Jammu & Kashmir		N.A.					
10.	Jharkhand		N.A.					
11.	Karnataka ***	Kh.	4934	3594	683	2856	2619	322
		Rabi	540	2576	38	-	-	-
		Sum.	2256	3732	262	-	-	-
12.	Kerala	Aut.	657	2698	21	1884	2449	43
		Wint.	2723	2908	85	594	1870	4
		Sum.	1580	3245	45	31	448	0.1
13.	Madhya Pradesh		1874	2101	N.A.	2722	1452	1330
14.	Maharashtra *	Kh.	1127	1607	332	3424	1767	1154
		Sum.	454	2228	29	-	-	-
15.	Meghalaya	Aut.	292	1452	33	-	-	-
		Wint.	750	1542	64	6	1184	0.3
16.	Odisha	Aut.	358	2041	26	6492	1771	557
		Wint.	3459	2532	1062	7101	2284	2220
		Sum.	4662	3342	301	-	-	-
17.	Punjab #		1975	3900	2848	2	4003	3

ANNEX -VII (Contd...)

1	2	3	4	5	6	7	8	9
18.	Rajasthan		321	4294	115	443	3928	53
19.	Tamil Nadu	K/K/S	416	4655	-	6	3633	-
		S/T/P	1154	4444	-	98	3708	-
		N/K	296	4740	-	4	5564	-
20.	Uttarakhand		1655	2433	169	876	1285	79
21.	Uttar Pradesh		N.A.					
22.	West Bengal	Aus.	2783	2724	667	2103	1945	N.A.
		Aman.	6077	3115	N.A.	4606	2486	N.A.
		Sum.	9485	3157	N.A.	17	2465	N.A.
23.	Dadra & Nagar Haveli		-	-	-	76	4019	13
24.	Daman & Diu		-	-	1	20	2144	1.89
25.	Puducherry	I	88	3167	3	-	-	-
		II	140	2906	9	-	-	-
		III	70	3099	4	-	-	-
T O T A L			99450	3554	-	67151	2564	-
2. JOWAR								
1.	Andhra Pradesh	Kh.	5	3802	5	99	1276	31
		Rabi	0	0	38	364	2338	66
2.	Chhattisgarh		-	-	-	42	846	5
3.	Gujarat	Kh.	N.A.					
		Rabi	N.A.					
4.	Karnataka ***	Kh.	980	2077	24	2268	1294	127
		Rabi	1340	1575	71	3568	1026	852
		Sum.	20	1903	0.1	-	-	-
5.	Madhya Pradesh		-	-	-	1810	1378	N.A.
6.	Maharashtra *	Kh.	-	-	-	4551	1082	1062
		Rabi	2873	1148	457	5563	605	2570
7.	Rajasthan		2811	656	1	2146	692	660
8.	Tamil Nadu		400	3690	-	640	2343	-
9.	Uttar Pradesh		N.A.					
T O T A L			8429	1284	-	21051	1010	-

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
3. BAJRA								
1.	Andhra Pradesh	Kh.	-	-	6	448	1319	18
2.	Gujarat	Kh.	N.A.					
		Sum.	N.A.					
3.	Haryana		1456	1738	393	-	-	-
4.	Karnataka ***	Kh.	710	1429	31	1970	1055	246
5.	Madhya Pradesh		-	-	-	564	1671	N.A.
6.	Maharashtra *		542	1394	35		1075	998
7.	Rajasthan		798	1242	121	7747	1009	3956
8.	Tamil Nadu		240	4473	-	196	3430	-
9.	Uttar Pradesh		N.A.					
10	Daman & Diu		0	0	0.01016	8	4670	0.428
T O T A L			3746	1699	-	10933	1056	-
4. MAIZE								
1.	Andhra Pradesh	Kh.	84	4004	28	124	2534	68
		Rabi	218	7782	189	-	-	3
2.	Bihar	Bha.	6863	2974	277	-	-	-
		Rabi	-	-	-	446	3630	252
		Gar.	120	4171	177	-	-	-
3.	Chhattisgarh		-	-	-	1108	1879	114
4.	Gujarat		N.A.					
5.	Haryana		76	2000	9	-	-	-
6.	Himachal Pradesh		65	2908	N.A.	1337	2863	N.A.
7.	Jammu & Kashmir		N.A.					
8.	Jharkhand		N.A.					
9.	Karnataka ***	Kh.	2582	3973	383	3770	2984	841
		Rabi	1500	3715	83	390	1707	18
		Sum.	690	3569	19	-	-	-
10.	Madhya Pradesh		30	3166	N.A.	3507	1834	N.A.
11.	Maharashtra *	Kh.	-	-	-	773	3024	731
		Rabi	-	-	-	378	2630	138
12.	Odisha	Aut.	5	1886	0.1	2874	2040	89
		Wint.	70	2041	0.01	61	1383	0.1
		Sum.	326	2611	2	-	-	-

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
13.	Punjab #		314	4086	113.40	46	2547	16.6
14.	Rajasthan	Kh.	1171	2188	5	4231	1726	886
15.	Tamil Nadu		256	11968	-	176	7654	-
16.	Uttar Pradesh		N.A.					
17.	West Bengal		191	4541	N.A.	357	1884	N.A.
T O T A L			14561	3247	-	19578	2382	-
5. RAGI								
1.	Andhra Pradesh	Kh.	27	1122	2	163	944	27
		Rabi	90	1552	3	6	1512	0.09
2.	Bihar		-	-	-	110	1474	7
3.	Goa		-	-	-	10	696	0.015
4.	Gujarat		N.A.					
5.	Jharkhand		N.A.					
6.	Karnataka ***	Kh.	1300	2400	21.441	3474	1868	591
		Rabi	360	2172	4	580	1042	31
		Sum.	250	2060	5	-	-	-
7.	Maharashtra *		-	-	-	906	979	120
8.	Odisha	Aut.	2	983	0.01	1106	709	15
		Wint.	1	600	0.01	577	750	36
		Sum.	84	910	0.3	-	-	-
9.	Uttarakhand		9	1954	0	1014	1482	113
10.	Tamil Nadu		160	5281	0.01	200	4215	0.01
11.	Dadra & Nagar Haveli		-	-	-	34	1005	1
T O T A L			2283	2421	-	8180	1435	-
6. WHEAT								
1.	Assam		72	1130	N.A.	564	1343	N.A.
2.	Bihar @		48080	2710	1699	18486	2216	524
3.	Chhattisgarh		1264	1684	64	498	1132	19
4.	Gujarat		N.A.					
5.	Haryana		1917	3979	2628	-	-	-
6.	Himachal Pradesh		198	2536	N.A.	1368	2023	N.A.
7.	Jammu & Kashmir		N.A.					
8.	Jharkhand		N.A.					

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
9.	Karnataka ***		1394	1398	107	1321	743	89
10.	Madhya Pradesh		6846	2906	N.A.	2470	526	1585
11.	Maharashtra *		7017	1824	1213	1191	890	94
12.	Odisha	Sum.	162	1628	0.4	-	-	-
13.	Punjab #		2271	5015	3497	10	3013	15
14.	Rajasthan		16440	2950	3303	124	1594	15
15.	Uttarakhand		1576	2230	204	1130	1231	137
16	Uttar Pradesh		N.A.					
17.	West Bengal		2778	2655	N.A.	35	1593	N.A.
T O T A L			90015	1289	-	27197	334	-
7. BARLEY								
1.	Bihar @		-	-	-	248	1398	14
2.	Chhattisgarh		-	-	-	24	1080	1
3.	Haryana		358	3143	35	-	-	-
4.	Himachal Pradesh		78	1857	N.A.	447	1866	N.A.
5.	Jharkhand		N.A.					
6.	Madhya Pradesh		-	-	-	788	1728	N.A.
7.	Punjab #		240	3833	12	-	-	-
8.	Rajasthan		2581	2681	338	27	2751	5
9.	Uttarakhand		36	1303	0	607	1174	21
10.	Uttar Pradesh		N.A.					
T O T A L			3590	3014	-	1078	1572	-
8. GRAM (BENGALGRAM)								
1.	Andhra Pradesh		13	1268	3	1241	1126	337
2.	Bihar		-	-	-	696	958	60
3.	Chhattisgarh		-	-	-	1083	1061	277
4.	Gujarat		N.A.					
5.	Haryana		251	728	32	266	290	50
6.	Jharkhand		N.A.					
7.	Karnataka ***		1338	855	119	3496	785	804
8.	Madhya Pradesh		3800	1082	N.A.	3726	918	N.A.
9.	Maharashtra *		1868	952	480	3356	874	358

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
10.	Punjab #		108	1229	1.9	-	-	-
11.	Rajasthan		3166	780	600	4326	658	656
12.	Uttar Pradesh		N.A.					
13.	West Bengal		132	1153	N.A.	747	1001	N.A.
T O T A L			10676	703	-	18937	618	-
9. REDGRAM (TUR/ ARHAR)								
1.	Andhra Pradesh		0	0	1.1	620	479	143
2.	Bihar		-	-	-	514	1438	20
3.	Chhattisgarh		-	-	-	956	634	45
4.	Gujarat		N.A.					
5.	Haryana		248	991	5	-	-	-
6.	Jharkhand		N.A.					
7.	Karnataka ***		-	-	-	4626	970	812
8.	Madhya Pradesh		24	1247	N.A.	2654	638	N.A.
9	Maharashtra *		-	-	-	906	979	120
10.	Tamil Nadu		336	1208	-	-	-	-
11.	Uttar Pradesh		N.A.					
12.	West Bengal		2	-	-	215	1187	N.A.
T O T A L			610	1068	-	10491	855	-
10. GREENGRAM (MOONG)								
1.	Andhra Pradesh	Kh.	18	963	1	120	745	4
		Rabi	16	245	0.6	276	800	148
2.	Bihar	Bha.	-	-	-	142	918	9
		Gar.	-	-	-	306	601	157
3.	Gujarat	Kh.	N.A.					
4.	Karnataka ***	Kh.	-	-	-	2628	260	307
		Rabi	-	-	-	100	276	4
5.	Maharashtra *		-	-	-	6018	672	554
6.	Odisha	Aut.	-	-	-	622	223	22
		Wint.	12	227	0.0	1341	305	98
		Sum.	594	432	10	1563	398	2

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
7.	Rajasthan		-	-	-	-	-	-
8.	Tamil Nadu		132	599	-	308	832	-
9.	Uttar Pradesh	Kh.	N.A.					
		Zaid	N.A.					
10.	West Bengal		124	971	N.A.	493	710	N.A.
T O T A L			896	512	-	13917	501	-
11. BLACKGRAM (URD/MATHIKALAI)								
1.	Andhra Pradesh	Kh.	0	0	1	104	1104	4
		Rabi	64	1542	8	434	867	287
2.	Assam		-	-	-	456	653	N.A.
3.	Gujarat	Rabi						
4	Karnataka ***	Kh.	-	-	-	1040	522	92
		Rabi	-	-	-	130	587	4
5.	Maharashtra *		-	-	-	4788	682	482
6.	Odisha	Aut.	-	-	-	919	262	23
		Wint.	6	300	0.5	2345	364	56
		Sum.	139	451	0	183	389	2
7.	Rajasthan @		5	902	1	1177	458	252
8.	Tamil Nadu		108	891	-	308	894	-
9.	Uttar Pradesh	Kh.	N.A.					
		Zaid	N.A.					
10.	West Bengal		60	953	N.A.	1286	660	N.A.
T O T A L			382	691	-	13170	570	-
12. LAKH (KHESARI)								
1.	Bihar		-	-	-	294	990	61
2.	Chhattisgarh		-	-	-	214	976	199
3.	Madhya Pradesh		-	-	-	544	723	N.A.
4.	West Bengal		39	1252	N.A.	383	1029	N.A.
T O T A L			39	1252	-	1435	694	-

ANNEX -VII (Contd...)

1	2	3	4	5	6	7	8	9
13. MASUR								
1.	Bihar		-	-	-	568	1272	154
2.	Rajasthan		N.A.					
3.	Uttar Pradesh		N.A.					
4.	West Bengal		460	904	N.A.	2026	842	N.A.
T O T A L			460	904	-	2594	936	-
14. HORSEGRAM (KULTHI)								
1.	Andhra Pradesh	Kh.	-	-	-	40	467	5
		Rabi	-	-	-	112	431	15
2.	Karnataka ***	Kh.	-	-	-	2390	531	57
		Rabi	-	-	-	2760	553	108
3.	Odisha	Wint.	-	-	-	3229	344	38
		Sum.	-	-	-	24	329	38.2
4.	Tamil Nadu		-	-	-	320	717	-
T O T A L			-	-	-	8875	476	261
15. PEAS								
1.	Uttar Pradesh		N.A.					
2.	West Bengal		91	982	N.A.	164	1240	N.A.
T O T A L			91	982	-	164	1240	-
16. MOTH								
1.	Gujarat		N.A.					
2	Rajasthan		-	-	-	-	-	-
T O T A L			-	-	-	-	-	-
17. CHOWLA								
1.	Rajasthan		N.A.					
18 . GUAR								
1.	Gujarat		N.A.					
2	Rajasthan @		339	966	199	2797	575	2895
T O T A L			339	966	199	2797	575	2895

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
19 . SAWAN (Jhangora)								
1.	Uttrakhand		2	927	0.1	577	1397	56
2	Uttar Pradesh	Kh.	N.A.					
		Zaid	N.A.					
T O T A L			-	-	-	578	1397	56
20. KORRA								
1.	Andhra Pradesh		0	0	0.001	94	909	7
21. KODON-KUTKI (KODRA)								
1.	Chhattisgarh		-	-	-	224	226	85
2.	Madhya Pradesh		-	-	-	912	681	N.A
3.	Uttar Pradesh	Kodan	N.A.					
T O T A L			-	-	-	1136	591	-
22. NAVANE								
1.	Karnataka ***		-	-	-	698	401	7
23. SAVE								
1.	Karnataka ***		-	-	-	316	673	15
24. SAMAI								
1.	Tamil Nadu		100	1562	-	-	-	-
25. VARAGU								
1.	Tamil Nadu		112	2509	-	-	-	-
26. SUGARCANE								
1.	Andhra Pradesh	Plt.	767	78	58	43	49	6
		Rt.	733	71	70	41	40	5
2.	Assam		-	-	-	579	35649	N.A.
3.	Bihar		238	4794	204	240	57215	54
4.	Goa		-	-	-	110	60910	0.8
5	Haryana		848	73281	96	-	-	-
6	Jharkhand		N.A.					
7.	Karnataka ***		-	-	-	1060	97000	328
8.	Kerala		N.A.					

ANNEX -VII (Contd...)

1	2	3	4	5	6	7	8	9
9.	Maharashtra *		8492	89000	965	-	-	-
10.	Odisha		504	71951	10	-	-	-
11.	Punjab #		645	6018	86.8	16	4379	2.2
12.	Rajasthan		N.A.					
13.	Tamil Nadu		399	107	-	68	102	-
14.	Uttar pradesh		N.A.					
15.	West Bengal		353	90504	N.A.	10	43277	N.A.
T O T A L			12979	68586	-	2167	60065	-
27. COCOA								
1.	Kerala		N.A.					
28. CHILLIES								
1.	Andhra Pradesh	Kh.	-	-	-	-	-	-
		Rabi	270	5741	103	78	5065	5
2.	Bihar		-	-	-	86	1400	2
3.	Chhattisgarh		10	519	0.29	-	-	-
4.	Karnataka ***	Kh.	-	-	-	690	1160	61
		Rabi	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-
5.	Madhya Pradesh		336	1251	N.A	-	-	-
T O T A L			616	3207	-	854	1454	68
29. CUMIN								
1	Gujarat		-	-	-	-	-	-
2.	Rajasthan @		1549	381	465	15	356	1
T O T A L			1549	381	465	15	356	1
30. FENNEL								
1.	Gujarat		-	-	-	-	-	-
31. ARECANUT								
1.	Kerala		N.A.					
2.	Maharashtra *		N.A.					
T O T A L			-	-	-	-	-	-
32. PEPPER								
1.	Kerala		N.A.					
33. SAFFRON								
1.	Jammu & Kashmir \$\$		N.A.					
34. TURMERIC								
1.	Kerala		N.A.					

1	2	3	4	5	6	7	8	9
35. GINGER								
1.	Kerala		N.A.					
2.	Meghalaya		-	-	-	552	7024	10
T O T A L			-	-	-	552	7024	10
36. GARLIC								
1.	Gujarat		-	-	-	-	-	-
37. CORIANDER								
1.	Rajasthan		N.A.					
38. LICHI								
1.	Bihar		-	-	-	130	3950	9
39. BANANA								
1.	Bihar		-	-	-	112	16590	12
2	Gujarat		-	-	-	-	-	-
3	Kerala		N.A.					
4	Madhya Pradesh ##		80	158733	N.A.	-	-	-
T O T A L			80	158733	-	112	16590	12
40. MANGO								
1.	Bihar		-	-	-	194	3137	65
41. GUAVA								
1.	Bihar		-	-	-	32	8410	1
42. JACKFRUIT								
1.	Bihar		-	-	-	66	27120	6
2.	Kerala		N.A.					
T O T A L			-	-	-	66	27120	6
43. CASHEWNUT								
1.	Kerala		N.A.					
2.	Maharashtra *		N.A.					
T O T A L			-	-	-	-	-	-

1	2	3	4	5	6	7	8	9
44. TAPIOCA								
1.	Kerala		N.A.					
45. PINE APPLE								
1.	Kerala		N.A.					
46. POTATO								
1.	Assam		-	-	-	814	7443	N.A.
2.	Bihar	Agh.	-	-	-	152	13740	77
		Rabi	-	-	-	290	12270	96
3.	Chhattisgarh		-	-	-	38	5962	4
4.	Gujarat		-	-	-	-	-	-
5.	Jammu &	Kh.	N.A.					
	Kashmir \$\$	Rabi	N.A.					
6.	Jharkhand	Agh.	N.A.					
		Rabi	N.A.					
7.	Karnataka ***	Kh.	-	-	-	122	6907	26
		Rabi	-	-	-	98	12932	3
8.	Madhya Pradesh		791	11379	N.A.	-	-	-
9.	Meghalaya	Sum.	-	-	-	302	11610	12
10.	Odisha	Wint.	2335	12324	8	-	-	-
11.	Uttar Pradesh	Rabi	N.A.					
T O T A L			3126	12085	-	1816	9663	-
47. ONION								
1.	Bihar		-	-	-	264	10700	14
2.	Chhattisgarh		16	8923	0.8	-	-	-
3.	Gujarat		-	-	-	-	-	-
4.	Jharkhand		N.A.					
5.	Karnataka ***	Kh.	-	-	-	840	7051	99
		Rabi	-	-	-	20	10499	0.44
		Sum.	-	-	-	-	-	-

1	2	3	4	5	6	7	8	9
6.	Madhya Pradesh ##		454	14061	N.A.	554	595	N.A.
7.	Uttar Pradesh	Rabi	N.A.					
		Zaid	N.A.					
T O T A L			470	13886	-	1678	18426	191.44
48. BRINJAL								
1.	Bihar	Agh.	-	-	-	170	9330	19
		Rabi	-	-	-	160	8180	40
2.	Jharkhand	Agh.	N.A.					
		Rabi	N.A.					
T O T A L			-	-	-	2562	12276	328.44
49. TOMATO								
1.	Bihar	Agh.	-	-	-	72	10340	9
		Rabi	-	-	-	96	10120	4
2.	Jharkhand	Agh.	N.A.					
		Rabi	N.A.					
T O T A L			-	-	-	5292	226	591.88
50. CAULIFLOWER								
1.	Bihar		-	-	-	188	10500	29
51. PAPAYA (PAPITA)								
1.	Madhya Pradesh ##		30	227826	N.A.	-	-	-
52. PLANTAIN								
1.	Kerala		N.A.					
53. METHI								
1.	Rajasthan		N.A.					
54. GROUNDNUT								
1.	Andhra Pradesh	Kh.	130	1644	21	2336	413	779
		Rabi	650	2339	68	0	0	0.6
2.	Chhattisgarh		-	-	-	400	1401	21
3.	Goa	Kh.	-	-	-	37	2031	0.36
		Rabi	60	1873	1.91	-	-	-

1	2	3	4	5	6	7	8	9
4.	Gujarat	Kh.	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-
5.	Karnataka ***	Kh.	1072	1497	31	4068	804	434
		Rabi	-	-	-	70	1922	3
		Sum.	1844	9897	116	16	938	641
6.	Madhya Pradesh		110	1147	N.A.	956	1243	N.A.
7.	Maharashtra *	Kh.	-	-	-	2827	1256	275
		Sum.	1804	1394	89	-	-	-
8.	Odisha	Aut.	-	-	-	1034	1032	20.52
		Wint.	15	1983	0.1	138	968	1.84
		Sum.	642	1676	9.17	359	1363	17.23
9.	Rajasthan @		800	2108	316	878	1430	96
10.	Tamil Nadu		700	4886	-	460	3207	-
11.	Uttar Pradesh		N.A.					
12. West Bengal			373	2296	N.A.	66	1915	N.A.
T O T A L			7827	1556	-	13579	1188	-
55. SESAMUM (GINGELLY)								
1.	Andhra Pradesh	Kh.	-	-	-	210	224	20
		Rabi	22	686	8	58	196	27
2.	Chhattisgarh		-	-	-	90	452	18
3.	Gujarat		-	-	-	-	-	-
4.	Karnataka ***		-	-	-	1778	566	38
5.	Kerala		N.A.					
6.	Madhya Pradesh		-	-	-	1542	495	N.A.
7.	Maharashtra *	Kh.	-	-	-	1240	360	53
		Rabi	-	-	-	10	285	3
8.	Odisha	Aut.	-	-	-	301	227	3.68
		Wint.	3	530	0.02	949	254	17.9
		Sum.	339	417	1.78	330	215	2.48
9.	Rajasthan @		107	478	4	2413	336	506
10.	Tamil Nadu		216	818	0.02	256	648	0.02
11.	Uttar Pradesh		N.A.					
12.	West Bengal		1971	1007	N.A.	837	739	N.A.
T O T A L			2658	891	-	10014	429	-

1	2	3	4	5	6	7	8	9
56. CASTOR.								
1.	Andhra Pradesh		0	0	0.06	142	624	35
2.	Gujarat		-	-	-	-	-	-
3	Karnataka ***		-	-	-	658	877	7
4	Rajasthan		N.A.					
T O T A L			0	0	0	800	666	42
57. RAPE & MUSTARD								
1.	Assam		28	772	N.A.	1154	651	N.A.
2.	Bihar		-	-	-	742	1100	85
3.	Chhattisgarh		-	-	-	842	528	42
4.	Gujarat		-	-	-	-	-	-
5.	Haryana		835	1434	482	-	-	-
6.	Jammu & Kashmir \$\$		N.A.					
7.	Jharkhand		N.A.					
8.	Madhya Pradesh		957	999	N.A.	1089	706	N.A.
9.	Odisha	Wint.	613	386	2.6	1469	199	7.52
10.	Punjab #		499	1263	31.2	12	712	0.8
11.	Rajasthan @		6298	1394	2439	758	1082	286
12.	Uttar Pradesh		N.A.					
13.	West Bengal		3943	987	N.A.	481	526	N.A.
T O T A L			13173	1193	-	6547	635	-
58. LINSEED								
1.	Chhattisgarh		-	-	-	619	408	26
2.	Jammu & Kashmir \$\$		N.A.					
3.	Karnataka ***		-	-	-	450	319	4
4.	Madhya Pradesh		-	-	-	1140	477	N.A
5.	Maharashtra *		-	-	-	266	264	39
6	Uttar Pradesh	Zaid	N.A.					
7.	West Bengal		44	502	N.A.	353	339	N.A.
T O T A L			44	502	-	2828	399	-

1	2	3	4	5	6	7	8	9
59. SAFFLOWER								
1.	Karnataka ***		-	-	-	1648	827	43
2.	Maharashtra *		-	-	-	2050	544	173
T O T A L			-	-	-	3698	436	216
60. SUNFLOWER								
1.	Andhra Pradesh	Kh.	32	1053	2	100	473	9
		Rabi	91	1121	14	189	733	21
2.	Haryana	Rabi	92	4571	7	-	-	-
3.	Karnataka ***	Kh.	1518	864	35	2404	445	151
		Rabi	1648	955	39	2190	412	172
		Sum.	1078	1043	16	-	-	-
4.	Maharashtra *	Kh.	-	-	-	845	514	69
		Rabi	-	-	-	475	646	139
		Sum.	358	567	14	-	-	-
5.	Tamil Nadu		48	3126	-	164	1539	-
6.	Uttar Pradesh	Zaid	N.A.					
T O T A L			4865	1011	-	6367	455	-
61. SOYABEAN								
1.	Andhra Pradesh							
2.	Chhattisgarh		-	-	-	468	487	103
3.	Karnataka ***		-	-	-	994	1313	214
4.	Madhya Pradesh		-	-	-	4170	1139	N.A.
5.	Maharashtra *		-	-	-	4154	1582	2730
6.	Rajasthan @		17	1167	107	945	1568	788
7.	Uttar Pradesh		N.A.					
T O T A L			17	1167	107	10731	1336	-
62. TARA MEERA								
1.	Rajasthan		N.A.					
63. COCONUT #								
1.	Kerala		N.A.					
2.	Maharashtra *		N.A.					
T O T A L			-	-	-	-	-	-
64. NIGER								
1.	Maharashtra *		-	-	-	572	220	35

ANNEX -VII (Contd...)								
1	2	3	4	5	6	7	8	9
65. COTTON (LINT)								
1.	Andhra Pradesh		194	2358	157	524	1393	645
2.	Gujarat		-	-	-	-	-	-
3.	Haryana		696	509	647	-	-	-
4.	Karnataka ***		650	686	119	1100	424	332
			64	827	2	320	215	62
			30	679	0.34	-	-	-
5.	Madhya Pradesh		724	1170	N.A.	256	942	N.A.
6.	Maharashtra *		1505	496	153	6689	315	3789
7.	Punjab #		712	396	446	-	-	-
8.	Rajasthan		1305	1638	463	106	1128	23
9.	Tamil Nadu		564	820	224	224	546	-
10.	Uttar Pradesh		N.A.					
T O T A L			6444	770	-	9219	405	-
66. JUTE								
1.	Assam		-	-	-	556	1915	N.A.
2.	Bihar		-	-	-	34	2571	105
3.	Meghalaya		48	1722	7	-	-	-
4.	Odisha		43	1677	0.17	113	1617	0.89
5.	West Bengal		3151	3092	N.A.	879	2690	N.A.
T O T A L			3242	3053	-	1582	2338	-
67. MESTA								
1.	Andhra Pradesh		-	-	-	200	1294	7
2.	Bihar		-	-	-	168	2402	16
3.	West Bengal		64	2076	N.A.	147	1586	N.A.
T O T A L			64	2076	-	515	1739	-
68. TOBACCO								
1.	Andhra Pradesh	(N)	116	4712	7	26	5583	17
		(V)	250	2952	32	16	2457	63
2.	Gujarat		-	-	-	-	-	-
3.	Karnataka ***		-	-	-	380	850	107

1	2	3	4	5	6	7	8	9
4.	Maharashtra *		56	993	1	-	-	-
5.	Uttar Pradesh		N.A.					
T O T A L			422	3211	40	422	1262	270
69. ISABGOL								
1	Gujarat		N.A.					
2	Rajasthan		N.A.					
T O T A L			-	-	-	-	-	-
70. AVARE (SEM)								
1	Karnataka ***	Kharif	-	-	-	662	963	40
		Rabi	-	-	-	38	943	1
T O T A L			-	-	-	700	963	41
71. COWPEA (LOBIA)								
1.	Karnataka ***	Kharif	-	-	-	630	433	44
		Rabi	-	-	-	124	414	19
		Sum.	-	-	-	130	357	4
T O T A L			-	-	-	884	139	67

Note:-

1. * : Figures repeated for the year 2010-11 in the state of Maharashtra.
2. @ : Figures repeated for the year 2011-12 for Crops Soyabean, Cumin, Blackgram, Guar, Groundnut, Sesamum, Cumin, Rape & Mustard and Soyabean in Rajasthan.
3. \$\$: Data repeated for year for 2011-12 Linseed, Potato, R&M and Saffron.
4. # : Data repeated for the year 2013-14.
5. ## : Figures repeated for the year 2013-14 for the crops Banana, Onion and Papaya for Madhya Pradesh.
6. *** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Kar
7. @ : Figures repeated for the crops Rice (Bhadai & Garma) Wheat and Barley for the year 2013-14 in the State of Bihar.

ANNEX - VIII:- ESTIMATES OF YIELD RATE FOR IRRIGATED AND UNIRRIGATED PLOTS ACCORDING TO HIGH YIELDING AND LOCAL VARIETIES UNDER CES 2014-15

Sl. No.	S T A T E			I R R I G A T E D						U N - I R R I G A T E D					
				HIGH YIELDING VARIETIES			LOCAL VARIETIES			HIGH YIELDING VARIETIES			LOCAL VARIETIES		
				NO. OF	YIELD	AREA	NO. OF	YIELD	AREA	NO. OF	YIELD	AREA	NO. OF	YIELD	AREA
				EXPTS.	RATES	`000'	EXPTS.	RATES	`000'	EXPTS.	RATES	`000'	EXPTS.	RATES	`000'
				ANALY- SED	Kg/ha.	ha.	ANALY- SED	Kg/ha.	ha.	ANALY- SED	Kg/ha.	ha.	ANALY- SED	Kg/ha.	ha.
1	2			3	4	5	6	7	8	9	10	11	12	13	14
1. RICE															
1.	Andhra Pradesh	Kh.	4060	3088	1565	0	0	0	224	1762	70	0	0	0	
		Rabi	2732	4274	758	0	0	0	0	0	0.66	0	0	0	
2.	Assam	Aut.	89	2207	N.A.	164	1674	N.A.	96	2138	N.A.	1025	1299	N.A.	
		Wint.	43	2470	N.A.	38	2045	N.A.	374	2326	N.A.	2501	1853	N.A.	
		Sum.	513	3070	N.A.	480	2672	N.A.	48	2542	N.A.	308	1838	N.A.	
3.	Bihar @	Bha.	-	-	-	146	1974	213	-	-	-	302	2312	336	
		Agh.	28298	4770	1316.4	10454	3671	503	13566	3458	371	12080	3338	409	
		Gar.	240	3525	71	44	3473	22	-	-	-	-	-	-	
4.	Chhattisgarh		332	2569	995	146	2372	231	-	-	-	2700	1830	2540	
5.	Goa	Kh.	-	-	-	-	-	-	196	2919	27.84	-	-	-	
		Rabi	186	2777	14.13	-	-	-	-	-	-	-	-	-	
6.	Gujarat	Kh.	-	-	-	-	-	-	-	-	-	-	-	-	
		Sum.	-	-	-	-	-	-	-	-	-	-	-	-	
7.	Haryana		408	3514	535	566	2817	742	-	-	-	-	-	-	
8.	Himachal Pradesh		183	2203	N.A.	202	1933	N.A.	131	1846	N.A.	239	1662	N.A.	
9.	Jammu & Kashmir		N.A.												
10.	Jharkhand	Agh.	N.A.												
11.	Karnataka ***	Kh.	4586	3615	665	348	2786	17.624	1842	2776	239	1014	2166	82.54	
		Rabi	540	2576	38	-	-	-	-	-	-	-	-	-	
		Sum.	2256	3732	262	-	-	-	-	-	-	-	-	-	
12.	Kerala	Aut.	648	2686	21	9	2474	0.02	1689	2469	42	195	1603	1.2	
		Wint.	2257	3001	78	466	1876	7	218	2430	2	376	1310	2	
		Sum.	1519	3242	45	61	1248	0.01	30	448	0.01	1	-	-	
13.	Madhya Pradesh		1172	2123	N.A.	702	2065	N.A.	-	-	-	2722	1452	1330	
14.	Maharashtra *	Kh.	1053	1612	329	74	1062	3	2691	1887	1041	733	1127	113	
		Sum.	-	-	-	454	2228	29	-	-	-	-	-	-	

1	2		3	4	5	6	7	8	9	10	11	12	13	14
15.	Meghalaya	Aut.	4	2726	0.39	288	1463	32	-	-	-	-	-	-
		Wint.	11	2473	1.8	739	1512	61.5	-	-	-	6	1184	0.027
16.	Odisha	Aut.	345	2042	25.68	13	1994	0.58	5018	1863	479.03	1474	1214	78.06
		Wint.	3353	2546	1038.4	106	1902	23.37	5862	2380	1948.6	1239	1593	271.3
		Sum.	4662	3342	301.25	-	-	-	-	-	-	-	-	-
17.	Punjab #		1975	3900	2848.1	-	-	-	2	4003	2.9	-	-	-
18.	Rajasthan		215	4079	88	106	4994	27	176	1054	29	267	946	24
19.	Tamil Nadu	K/K/S	416	4655	N.A.	-	-	N.A.	6	3632	N.A.	-	-	-
		S/T/P	1154	4444	N.A.	-	-	N.A.	98	3708	N.A.	-	-	-
		N/K	296	4740	N.A.	-	-	-	4	5564	N.A.	-	-	-
20.	Uttarakhand		1280	2646	134	375	1618	35	58	1908	2	818	1269	77
21.	Uttar Pradesh		N.A.											
22.	West Bengal	Aus.	2713	2743	N.A.	70	1976	N.A.	552	2201	N.A.	115	1631	N.A.
		Aman	5701	3167	N.A.	376	2333	N.A.	3947	2565	N.A.	659	2015	N.A.
		Sum.	9309	3163	N.A.	176	2865	N.A.	17	2465	N.A.	-	-	N.A.
23.	Dadra & Nagar Haveli		-	-	-	-	-	-	34	4505	6	42	3567	7
24.	Daman & Diu		0	0	0	0	0	1	10	2139	1	10	2148	0.89
25.	Puducherry	I	88	3167	3	-	-	-	-	-	-	-	-	-
		II	140	2906	9	-	-	-	-	-	-	-	-	-
		III	70	3099	4	-	-	-	-	-	-	-	-	-
2. JOWAR														
1.	Andhra Pradesh	Kh.	0	0	0	5	3802	5	0	0	0	99	1276	31
		Rabi	0	0	0	0	0	38	0	0	0	364	2338	66
2.	Chhattisgarh		-	-	-	-	-	-	-	-	-	42	846	5
3.	Gujarat	Kh.	-	-	-	-	-	-	-	-	-	-	-	-
		Rabi	-	-	-	-	-	-	-	-	-	-	-	-
4.	Karnataka ***	Kh.	980	2077	24.396	-	-	-	2032	1381	110.37	236	723	16.78
		Rabi	1050	1652	63.398	290	957	7.878	2838	1076	710.93	730	775	141.4
		Sum.	20	1903	0.146	-	-	-	-	-	-	-	-	-
5.	Madhya Pradesh		-	-	-	-	-	-	1032	1542	N.A.	778	1160	N.A.
6.	Maharashtra *	Kh.	-	-	-	-	-	-	-	-	-	4551	1082	1062
		Rabi	-	-	-	2873	1148	457	-	-	-	5563	605	2570
7.	Rajasthan		2582	-	-	229	656	1	461	-	-	1685	692	660
8.	Tamil Nadu		376	3758	N.A.	24	2634	N.A.	595	2467	N.A.	45	706	N.A.
9.	Uttar Pradesh		N.A.											

1	2		3	4	5	6	7	8	9	10	11	12	13	14
3. BAJRA														
1.	Andhra Pradesh		0	0	0	0	0	6	0	0	0	448	1319	18
2.	Gujarat	Kh.	-	-	-	-	-	-	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-	-	-	-	-	-	-
3.	Haryana		1378	1557	365	78	1307	28	-	-	-	-	-	-
4.	Karnataka ***	Kh.	700	1429	30.541	10	2034	0.018	1830	1061	242.79	140	589	2.981
5.	Madhya Pradesh		-	-	-	-	-	-	398	1788	N.A.	166	1388	N.A.
6.	Maharashtra *		542	1394	35	-	-	-	2776	1102	935	386	675	63
7.	Rajasthan		426	1624	63	372	827	58	4692	1303	2236	3726	770	2706
8.	Tamil Nadu		222	4497	N.A.	18	4172	N.A.	195	3422	N.A.	1	5056	N.A.
9.	Uttar Pradesh		N.A.											
10	Daman & Diu		0	0	0.005	0	0	0.005	0	0	0	8	4670	0.42
4. MAIZE														
1	Andhra Pradesh	Kh.	0	0	0	84	4004	28	0	0	0	124	2534	68
		Rabi	0	0	0	218	7782	189	0	0	0	0	0	3
2.	Bihar	Bha.	2316	3262	130	4547	2721	147	-	-	-	-	-	-
		Rabi	-	-	-	-	-	-	-	-	-	446	3630	252
		Gar.	68	4250	138	52	3889	120	-	-	-	-	-	-
3.	Chhattisgarh		-	-	-	-	-	-	-	-	-	1108	1879	114
4.	Gujarat		-	-	-	-	-	-	-	-	-	-	-	-
5.	Haryana		52	2409	6	24	2070	3	-	-	-	-	-	-
6.	Himachal Pradesh		38	2800	N.A.	27	3060	N.A.	586	3061	N.A.	751	2708	N.A.
7.	Jammu & Kashmir		N.A.											
8.	Jharkhand		N.A.											
9.	Karnataka ***	Kh.	2574	3973	382.74	8	4405	0.069	3770	2984	840.53	-	-	-
		Rabi	1500	3715	82.915	-	-	-	390	1707	18.351	-	-	-
		Sum.	690	3569	19.276	-	-	-	-	-	-	-	-	-
10.	Madhya Pradesh		23	2962	N.A.	7	3870	N.A.	1478	2169	N.A.	2029	1589	N.A.
11.	Maharashtra *	Kh.	-	-	-	-	-	-	-	-	-	773	3024	731
		Rabi	-	-	-	-	-	-	-	-	-	378	2630	138
12.	Odisha	Aut.	5	1886	0.08	-	-	-	1703	2116	82.17	1171	1146	6.97
		Wint.	68	1976	0.08	2	4600	0.01	48	1424	0.1	13	1169	0.02
		Sum.	326	2611	2	-	-	-	-	-	-	-	-	-

ANNEX -VIII (Contd...)													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
13.	Punjab #	293	4123	106	21	3567	8	26	2534	9.4	20	2564	7.2
14.	Rajasthan Kh.	874	2431	4	297	1214	1	2680	1827	664	1551	1422	222
15	Tamil Nadu	256	11968	-	-	-	N.A.	176	7654	-	-	-	N.A.
16.	Uttar Pradesh	N.A.											
17.	West Bengal	162	4737	N.A.	29	3449	N.A.	137	2235	N.A.	220	1665	N.A.
5. WHEAT													
1.	Assam	33	1334	N.A.	39	958	N.A.	203	1406	N.A.	361	1307	N.A.
2.	Bihar @	44230	3045	1568	3850	2374	131	15336	2373	465	3150	2059	59
3.	Chhattisgarh	1068	1697	61	196	1375	3	-	-	-	498	1132	19
4.	Gujarat	-	-	-	-	-	-	-	-	-	-	-	-
5.	Haryana	1822	3846	2498	95	3314	130	-	-	-	-	-	-
6.	Himachal Pradesh	133	2658	N.A.	65	2285	N.A.	623	2129	N.A.	745	1934	N.A.
7.	Jammu & Kashmir	N.A.											
8.	Jharkhand	N.A.											
9.	Karnataka ***	1154	1399	99.683	240	1390	6.863	911	857	45.372	410	624	43.71
10.	Madhya Pradesh	5280	2952	N.A.	1566	2620	N.A.	0	0	0	2470	526	1585
11.	Maharashtra *	6837	1830	1185	180	1562	28	984	906	73	207	833	21
12.	Odisha Sum.	147	1655	0.37	15	1283	0.03	-	-	-	-	-	-
13.	Punjab #	2270	5015	3495.1	1	4431	1.5	10	3013	15.4	-	-	-
14.	Rajasthan	12931	3014	2945	3509	2426	358	73	1732	11	51	1215	4
15.	Uttarakhand	1405	2392	171	171	1389	33	111	1537	5	834	1522	139
16	Uttar Pradesh	N.A.											
17.	West Bengal	2629	2669	N.A.	149	2395	N.A.	30	1597	N.A.	5	-	N.A.

Note

- 1.* : Figures repeated for the year 2010-11 in the state of Maharashtra.
- 2.# : Data repeated for the year 2013-14.
3. *** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka .
4. @ : Figures repeated for the crops of Rice (Gar. & Bha.) and Barley for the year 2013-14 for Bihar.

ANNEX - IX : PERCENTAGE AREA UNDER IMPROVED AGRICULTURAL
PRACTICES UNDER CES 2014-15

Sl. No.	S T A T E		P E R C E N T A G E A R E A U N D E R							
			Seed Variety			Fertilized/Manure			Pesticides	
			High Yielding Varieties of Seed	Improved Seed	local Seed	Where Chemical Fertilizer used	Where Other Manure used	Un - manured	Treated with Pestici- des.	Not treated with pestici- des
1	2		3	4	5	6	7	8	9	10
1. PADDY										
1.	Andhra Pradesh	Kh.Ir.	-	81.00	19.00	98.00	1.00	1.00	81.00	19.00
		Kh.UI.	-	70.00	30.00	74.00	9.00	17.00	45.00	55.00
		Rabi.Ir.	-	92.00	8.00	100.00	0.00	0.00	94.00	6.00
2.	Assam	Aut.	-	13.00	87.00	44.00	26.00	30.00	8.00	92.00
		Wint.	-	14.00	86.00	38.00	17.00	45.00	5.00	95.00
		Sum.	-	43.00	57.00	67.00	20.00	13.00	13.00	87.00
3.	Bihar	Bha.			100.00					
		Agh.	66.00		34.00					
		Gar.	80.00		20.00					
4.	Chhattisgarh	Hyv.Ir.	-	97.00	3.00	97.00	2.00	1.00	0.00	100.00
		Lv. Ir.	-	96.00	4.00	100.00	0.00	0.00	0.00	100.00
		UI.	-	56.00	44.00	78.00	13.00	9.00	0.00	100.00
5.	Goa	Kh.	100.00	-	-	90.00	10.00	-	20.00	80.00
		Rabi	100.00	-	-	80.00	20.00	-	15.00	85.00
6.	Gujarat	Ir.	-	-	-	-	-	-	-	-
		UI.	-	-	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-	-	-
7.	Haryana		-	54.60	45.40	100.00	-	-	64.90	35.10
8.	Himachal Pradesh		-	44.05	55.95	65.64	26.06	8.30	N.A.	N.A.
9.	Jammu & Kashmir		N.A.							
10.	Jharkhand	Bha.	-	-	100.00	70.00	30.00	-	-	-
		Agh.	60.00	-	40.00	-	-	-	-	-
11.	Karnataka ***	Kh. Hyv.Ir.	100.00	-	-	96.70	2.10	1.20	53.40	46.60
		Kh.Hyv.UI.	100.00	-	-	93.50	4.20	2.30	15.70	84.30
		Kh.Tra.Ir.	-	-	100.00	97.20	1.70	1.10	27.80	72.20
		Kh.Tra.UI.	-	-	100.00	89.30	6.30	4.40	13.30	86.70
		Rabi Hyv.Ir.	100.00	-	-	96.80	2.50	0.70	41.00	59.00
		Rabi. Tra.Ir.	-	-	100.00	88.60	11.40	-	57.50	42.50
		Sum. Hyv.Ir.	100.00	-	-	92.90	1.10	6.00	69.70	30.30

1	2		3	4	5	6	7	8	9	10
12.	Kerala	Aut.	-	91.97	8.03	85.48	61.04	5.86	57.34	42.54
		Wint.	-	74.62	25.38	87.28	61.68	1.75	64.91	34.13
		Sum.	-	96.15	3.85	90.63	48.85	1.80	73.68	24.64
13.	Madhya Pradesh	Hyv. Ir.	-	71.00	29.00	93.00	5.00	2.00	0.00	100.00
		Lv. Ir.	-	19.00	81.00	97.00	2.00	1.00	0.00	100.00
		UI.	-	13.00	87.00	67.00	13.00	20.00	0.00	100.00
14.	Maharashtra *	Kh. Ir.	N.A.							
		Kh. UI..	N.A.							
		Kh. Comp.	N.A.							
		Sum.	N.A.							
15.	Meghalaya	Aut.	-	1.37	98.63	20.55	9.25	70.20	6.16	93.84
		Wint.	-	1.72	98.28	30.16	9.66	60.18	14.95	85.05
16.	Odisha	Aut.	87.00	-	13.00	82.00	11.00	7.00	23.00	77.00
		Wint.	91.00	-	9.00	91.00	6.00	3.00	39.00	61.00
		Sum.	100.00	-	-	98.00	1.00	1.00	67.00	33.00
17.	Punjab		-	100.00	0.00	98.70	0.00	1.30	98.80	1.20
18.	Rajasthan		-	57.53	42.47	82.74	0.81	16.45	52.48	47.48
19.	Tamil Nadu	K/K/S	100.00	0.00	0.00	59.00	41.00	0.00	77.00	23.00
		S/T/P	100.00	0.00	0.00	55.00	37.00	8.00	61.00	39.00
		N/K	100.00	0.00	0.00	55.00	37.00	8.00	61.00	39.00
20.	Uttarakhand		53.00	0.00	47.00	50.00	50.00	0.00	20.00	80.00
21.	Uttar Pradesh		N.A.							
22.	West Bengal	Aus.	95.89	-	4.11	97.79	-	2.21	65.84	34.16
		Aman	93.76	-	6.24	96.04	-	3.96	61.10	38.90
		Sum.	98.87	-	1.13	99.12	-	0.88	81.53	18.47
23.	Dadra & Nagar		48.00	-	52.00	79.00	21.00	0.00	0.00	100.00
	Haveli									
24.	Daman & Diu		-	81.09	18.91	0.00	100.00	0.00	0.00	100.00
25.	Puducherry	I	100.00	-	-	-	15.00	85.00	0.00	100.00
		II	100.00	-	-	-	39.00	61.00	1.00	99.00
		III	100.00	-	-	-	30.00	70.00	0.00	100.00

1	2		3	4	5	6	7	8	9	10
2. JOWAR										
1.	Andhra Pradesh	Kh.	-	64.00	36.00	94.00	0.00	6.00	53.00	47.00
		Rabi	-	81.00	19.00	90.00	2.00	8.00	58.00	42.00
2.	Chhattisgarh		-	0.00	100.00	2.00	7.00	91.00	0.00	100.00
3.	Gujarat	Kh.	-	-	-	-	-	-	-	-
		Rabi	-	-	-	-	-	-	-	-
4.	Karnataka ***	Kh.Hyv.Ir.	100.00	-	-	91.70	4.20	4.10	12.80	87.20
		Kh.Hyv.UI.	100.00	-	-	91.30	3.10	5.60	7.90	92.10
		Kh.Tra.Ir.	-	-	100.00	60.50	27.50	12.00	-	100.00
		Kh.Tra.UI.	-	-	100.00	90.60	7.30	2.10	0.60	99.40
		Rabi Hyv.Ir.	100.00	-	-	82.10	3.20	14.70	12.40	87.60
		Rabi Hyv.UI.	100.00	-	-	87.50	4.50	8.00	4.30	95.70
		Rabi Tra.Ir.	-	-	100.00	92.60	5.50	1.90	4.70	95.30
		Rabi Tra.UI.	-	-	100.00	84.10	4.20	11.70	1.70	98.30
		Sum.Hyv.Ir.	100.00	-	-	94.00	5.20	0.80	4.90	95.10
5.	Madhya Pradesh		-	57.00	43.00	63.00	1.00	36.00	0.00	100.00
6.	Maharashtra *	Kh.	N.A.							
		Rabi Ir.	N.A.							
		Rabi UI.	N.A.							
7.	Rajasthan		-	20.30	79.70	42.92	0.03	57.05	0.31	99.69
8.	Tamil Nadu	Ir.	93.00	0.00	7.00	32.00	47.00	21.00	8.00	92.00
		UI.	93.00	0.00	7.00	42.00	41.00	17.00	14.00	86.00
9.	Uttar Pradesh		N.A.							
3. BAJRA										
1.	Andhra Pradesh		-	78.00	22.00	80.00	13.00	7.00	15.00	85.00
2.	Gujarat	Kh.	-	-	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-	-	-
3.	Haryana		-	74.30	25.70	100.00	-	0.00	66.50	33.50
4.	Karnataka ***	Kh.Hyv.Ir.	100.00	-	-	88.30	2.60	9.10	0.90	99.10
		Kh.Hyv.UI.	100.00	-	-	86.00	1.60	12.40	2.00	98.00
		Kh.Tra.UI.	-	-	100.00	49.80	16.10	34.10	0.00	100.00
5.	Madhya Pradesh		-	92.00	8.00	85.00	1.00	14.00	0.00	100.00

ANNEX -IX (Contd...)										
1	2		3	4	5	6	7	8	9	10
6.	Maharashtra *	Kh. Ir.	N.A.							
		Kh. UI..	N.A.							
		Kh. Comp.	N.A.							
7.	Rajasthan		-	57.45	42.55	35.14	6.06	58.80	1.51	98.49
8.	Tamil Nadu	Ir.	84.00	0.00	16.00	12.00	28.00	60.00	4.00	96.00
		UI.	99.00	0.00	1.00	13.00	10.00	77.00	3.00	97.00
9.	Uttar Pradesh		N.A.							
10.	Daman & Diu		-	0.00	100.00	0.00	100.00	0.00	0.00	100.00
4. MAIZE										
1.	Andhra Pradesh	Kh.	-	88.00	12.00	88.00	4.00	8.00	45.00	55.00
		Rabi	-	58.00	42.00	100.00	0.00	0.00	100.00	0.00
2.	Bihar	Bha.	46.00		54.00					
		Rabi			100.00					
		Gar.	82.00		18.00					
3.	Chhattisgarh		-	40.00	60.00	46.00	39.00	15.00	0.00	100.00
4.	Gujarat		-	-	-	-	-	-	-	-
5.	Haryana		-	91.60	8.40	100.00	0.00	0.00	86.00	14.00
6.	Himachal Pradesh		-	46.32	532.68	71.55	27.29	1.16	N.A.	
7.	Jammu & Kashmir		N.A.							
8.	Jharkhand		10.00	-	90.00	50.00	50.00	-	-	-
9.	Karnataka ***	Kh. Hyv.Ir.	100.00	-	-	99.10	0.60	0.30	11.30	88.70
		Kh. Hyv.UI.	100.00	-	-	97.70	1.00	1.30	3.50	96.50
		Kh. Tra.Ir.	-	-	100.00	100.00	-	-	-	100.00
		Rabi Hyv.Ir.	100.00	-	-	98.80	0.90	0.30	2.80	97..2
		Rabi Hyv.UI.	100.00	-	-	86.20	11.50	2.30	3.20	96.80
		Rabi. Tra.Ir.	-	-	-	-	-	-	-	-
		Sum.Hyv.Ir.	100.00	-	-	98.50	0.20	1.30	16.60	83.40
10.	Madhya Pradesh		-	48.00	52.00	71.00	16.00	13.00	0.00	100.00
11.	Maharashtra *	Kh.	N.A.							
		Rabi	N.A.							
12.	Odisha	Aut.	92.00	-	8.00	42.00	31.00	27.00	6.00	94.00
		Wint.	90.00	-	10.00	37.00	35.00	28.00	12.00	88.00
		Sum.	100.00	-	-	85.00	11.00	4.00	21.00	79.00

1	2		3	4	5	6	7	8	9	10
13.	Punjab		-	85.90	14.10	96.60	0.00	3.40	78.00	22.00
14.	Rajasthan	Kh.	-	47.39	53.61	73.30	4.96	21.74	3.72	96.28
15.	Tamil Nadu	Ir.	100.00	0.00	0.00	50.00	43.00	7.00	0.00	100.00
		UI.	100.00	0.00	0.00	51.00	31.00	18.00	0.00	100.00
16.	Uttar Pradesh		N.A.							
17.	West Bengal		85.70	-	14.30	92.15	0.63	7.22	5.28	94.72
5. RAGI										
1.	Andhra Pradesh	Kh.	-	13.00	87.00	14.00	30.00	56.00	8.00	92.00
		Rabi	-	48.00	52.00	91.00	3.00	6.00	16.00	84.00
2.	Bihar				100.00					
3.	Goa		100.00	0.00	0.00	90.00	10.00	-	20.00	80.00
4.	Gujarat		-	-	-	-	-	-	-	-
5.	Jharkhand		-	-	100.00	30.00	70.00	-	-	-
6.	Karnataka ***	Kh. Hyv.Ir.	100.00	-	-	99.10	0.90	-	0.20	99.80
		Kh. Hyv.UI.	100.00	-	-	96.70	2.20	1.10	0.10	99.90
		Kh. Tra. Ir.	-	-	100.00	92.10	7.90	0.00	0.00	100.00
		Kh.Tra.UI.	-	-	100.00	96.20	0.00	3.80	0.00	100.00
		Rabi Hyv.Ir.	100.00	-	-	100.00	0.00	0.00	0.00	100.00
		Rabi Hyv.UI.	100.00	-	-	96.70	0.30	3.00	0.00	100.00
		Sum. Hyv.Ir.	100.00	-	-	97.00	3.00	0.00	3.20	96.80
7.	Maharashtra *		N.A.							
8.	Odisha	Aut.	-	-	100.00	24.00	37.00	39.00	1.00	99.00
		Wint.	-	-	100.00	6.00	43.00	51.00	0.00	100.00
		Sum.	-	-	100.00	75.00	14.00	11.00	1.00	99.00
9.	Tamil Nadu	Ir .	100.00	0.00	0.00	13.00	25.00	62.00	5.00	95.00
		UI.	99.00	0.00	1.00	36.00	44.00	20.00	21.00	79.00
10.	Uttrakhand		0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
11.	Dadra & Nagar Haveli		0.00	-	100.00	9.00	44.00	47.00	0.00	100.00
6. WHEAT										
1.	Assam		-	37.00	63.00	44.00	38.00	18.00	11.00	89.00
2.	Bihar		75.00		25.00					
3.	Chhattisgarh	Hyv.Ir.	-	86.00	14.00	92.00	2.00	6.00	-	100.00
		Lv..Ir.	-	84.00	16.00	94.00	2.00	4.00	-	100.00
		UI.	-	58.00	42.00	80.00	4.00	16.00	-	100.00
4.	Gujarat	Ir.	-	-	-	-	-	-	-	-
		UI.	-	-	-	-	-	-	-	-

1	2		3	4	5	6	7	8	9	10
5.	Haryana		-	91.30	8.70	100.00	-	0.00	72.30	27.70
6.	Himachal Pradesh		-	51.74	48.26	66.25	32.70	1.05	-	-
7.	Jammu & Kashmir		N.A.							
8.	Jharkhand		40.00	-	60.00	70.00	30.00	-	-	-
9.	Karnataka ***	Hyv.Ir.	100.00	-	-	92.00	6.70	1.30	2.30	97.70
		Hyv.UI.	100.00	-	-	88.20	1.50	10.30	1.70	98.30
		Tra.Ir.	-	-	100.00	97.10	0.10	2.80	6.70	93.30
		Tra.UI.	-	-	100.00	89.60	0.80	9.60	0.10	99.90
10.	Madhya Pradesh	Hyv.Ir.	-	100.00	0.00	97.00	1.00	2.00	2.00	98.00
		Lv.Ir.	-	100.00	0.00	99.00	0.00	1.00	100.00	0.00
		Lv.UI.	-	2.00	98.00	58.00	8.00	34.00	0.00	100.00
11.	Maharashtra *	Ir.	N.A.							
		UI.	N.A.							
12.	Odisha	Sum.	93.00	-	7.00	99.00	-	1.00	30.00	70.00
13.	Punjab		-	99.96	0.04	99.00	0.00	1.00	97.40	2.60
14.	Rajasthan		-	90.06	9.94	93.44	5.21	1.35	29.17	70.83
15.	Uttrakhand		56.00	0.00	44.00	52.00	47.00	1.00	20.00	80.00
16.	Uttar Pradesh		N.A.							
17.	West Bengal		98.09	-	1.91	97.44	-	2.56	22.63	77.37
7. BARLEY										
1.	Bihar				100.00					
2.	Chhattisgarh		-	100.00	0.00	0.00	0.00	100.00	0.00	100.00
3.	Haryana		-	72.70	27.30	100.00	0.00	0.00	15.40	84.60
4.	Himachal Pradesh		-	7.44	92.56	22.55	77.03	0.42	N.A.	
5.	Jharkhand		N.A.							
6.	Madhya Pradesh		-	3.00	97.00	71.00	7.00	22.00	0.00	100.00
7.	Punjab		-	93.40	6.60	100.00	0.00	0.00	79.50	20.50
8.	Rajasthan		-	71.01	28.99	95.34	1.16	3.50	29.08	70.92
9.	Uttrakhand		0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
10.	Uttar Pradesh		N.A.							
8. GRAM (BENGALGRAM)										
1.	Andhra Pradesh		-	78.00	22.00	99.00	1.00	0.00	93.00	7.00
2.	Bihar				100.00					
3.	Chhattisgarh		-	48.00	52.00	90.00	1.00	9.00	0.00	100.00

ANNEX -IX (Contd...)										
1	2		3	4	5	6	7	8	9	10
4.	Gujarat		-	-	-	-	-	-	-	-
5.	Haryana		-	90.40	9.60	100.00	-	0.00	74.10	25.90
6.	Jharkhand		30.00	-	70.00	30.00	70.00	-	-	-
7.	Karnataka ***	Ir .	99.80	-	0.20	96.00	0.70	3.30	39.70	60.30
		UI.	92.10	-	7.90	93.50	1.60	4.90	44.70	55.30
8.	Madhya Pradesh	Ir .	-	40.00	60.00	85.00	1.00	14.00	0.00	100.00
		UI.	-	16.00	84.00	61.00	3.00	36.00	0.00	100.00
9.	Maharashtra *		N.A.							
10.	Punjab		-	87.00	13.00	62.00	0.00	38.00	54.00	46.00
11.	Rajasthan		-	40.00	60.00	51.38	1.83	46.79	32.42	67.58
12.	Uttar Pradesh		N.A.							
13.	West Bengal		11.70	-	88.30	42.61	-	57.39	40.36	59.64
9. REDGRAM (TUR/ARHAR)										
1.	Andhra Pradesh		-	84.00	16.00	85.00	6.00	9.00	82.00	18.00
2.	Bihar				100.00					
3.	Chhattisgarh		-	7.00	93.00	23.00	6.00	71.00	0.00	100.00
4.	Gujarat		-	-	-	-	-	-	-	-
5.	Haryana		-	94.80	5.20	100.00	0.00	0.00	0.00	100.00
6.	Jharkhand		20.00	-	80.00	30.00	70.00	-	-	-
7.	Karnataka ***		100.00	-	0.00	94.70	1.10	4.20	71.00	29.00
8.	Madhya Pradesh		-	26.00	74.00	36.00	4.00	60.00	0.00	100.00
9.	Maharashtra *		N.A.							
10.	Tamil Nadu		96.00	0.00	4.00	42.00	48.00	10.00	56.00	44.00
11.	Uttar Pradesh		N.A.							
12.	West Bengal	(Rabi)	1.17	-	98.83	8.65	-	91.35	1.06	98.94
10. GREENGRAM (MOONG)										
1.	Andhra Pradesh	Kh.	-	72.00	28.00	72.00	8.00	20.00	94.00	6.00
		Rabi	-	77.00	23.00	34.00	8.00	58.00	68.00	32.00
2.	Bihar	Bha.			100.00					
		Gra.			100.00					
3.	Gujarat	Kh.	-	-	-	-	-	-	-	-
4.	Karnataka ***	Kh.	82.60	-	17.40	80.00	4.10	15.90	36.50	63.50
		Rabi	65.90	0.00	34.10	30.70	0.00	69.30	2.60	97.40
5.	Maharashtra *		N.A.							

1	2		3	4	5	6	7	8	9	10
6.	Odisha	Aut.	-	-	100.00	33.00	4.00	63.00	15.00	85.00
		Wint.	-	-	100.00	9.00	8.00	83.00	6.00	94.00
		Sum.	-	-	100.00	29.00	3.00	68.00	29.00	71.00
7.	Rajasthan		-	51.52	48.48	25.00	3.87	71.13	32.53	67.47
8.	Tamil Nadu	Ir.	99.00	0.00	1.00	31.00	54.00	15.00	43.00	57.00
UI.		94.00	0.00	6.00	63.00	16.00	21.00	59.00	41.00	
9.	Uttar Pradesh	Kh.	N.A.							
		Zaid	N.A.							
10.	West Bengal	Rabi	27.79	-	72.21	67.87	0.03	32.10	79.16	20.84
11. BLACKGRAM (URD/MATHIKALAI)										
1.	Andhra Pradesh	Kh.	-	69.00	31.00	62.00	10.00	28.00	66.00	34.00
		Rabi.	-	45.00	55.00	28.00	1.00	71.00	74.00	26.00
2.	Assam		-	0.00	100.00	5.00	35.00	60.00	0.00	100.00
3.	Gujarat		-	-	-	-	-	-	-	-
4.	Karnataka ***	Kh.	100.00	-	0.00	83.60	8.80	7.60	45.00	55.00
		Rabi	27.20	0.00	72.80	16.80	14.20	69.00	0.40	99.60
5.	Maharashtra *		N.A.							
6.	Odisha	Aut.	-	-	100.00	29.00	14.00	57.00	11.00	89.00
		Wint.	-	-	100.00	7.00	13.00	80.00	5.00	95.00
		Sum.	-	-	100.00	39.00	2.00	59.00	39.00	61.00
7.	Rajasthan		-	48.14	51.86	43.47	1.61	54.92	34.58	65.42
8.	Tamil Nadu	Ir.	100.00	0.00	0.00	44.00	52.00	4.00	62.00	38.00
		UI.	97.00	0.00	3.00	57.00	22.00	21.00	57.00	43.00
9.	Uttar Pradesh	Kh.	N.A.							
		Zaid	N.A.							
10.	West Bengal		19.10	-	80.90	54.89	-	45.11	11.90	88.10
12. LAKH										
1.	Bihar				100.00					
2.	Chhattisgarh		-	0.00	100.00	5.00	1.00	94.00	0.00	100.00
3.	Madhya Pradesh		-	2.00	98.00	46.00	2.00	52.00	0.00	100.00
4.	West Bengal		9.46	-	90.54	13.30	-	86.70	11.10	88.90
13. MASUR										
1.	Bihar				100.00					

1	2		3	4	5	6	7	8	9	10
2.	Jharkhand		NA							
3.	Rajasthan		-	12.93	87.07	80.93	1.11	17.96	30.19	69.81
4.	Uttar Pradesh		N.A.							
5.	West Bengal		9.03	-	90.97	47.32	-	52.68	12.49	87.51
14. HORSEGRAM (KULTHI)										
1.	Andhra Pradesh	Kh.	-	90.00	10.00	2.00	30.00	68.00	0.00	100.00
		Rabi	-	27.00	73.00	16.00	11.00	73.00	2.00	98.00
2.	Karnataka ***	Kh.	10.00	-	90.00	36.70	11.70	51.60	-	100.00
		Rabi	13.40	0.00	86.60	30.20	12.60	57.20	-	100.00
3.	Odisha	Wint.	-	-	100.00	6.00	11.00	83.00	2.00	98.00
		Sum.	-	-	100.00	4.00	4.00	92.00	-	100.00
4.	Tamil Nadu		86.00	0.00	14.00	17.00	60.00	23.00	7.00	93.00
15. PEAS										
1.	Uttar Pradesh		N.A.							
2.	West Bengal		9.71	-	90.29	44.16	-	55.84	3.44	96.56
16. MOTH										
1.	Gujarat		-	-	-	-	-	-	-	-
2.	Rajasthan		-	41.72	58.28	5.60	1.58	92.82	9.55	90.45
17. CHOWLA										
1.	Rajasthan		-	30.35	69.65	20.92	0.00	79.08	0.18	99.82
18. GUAR										
1.	Gujarat		N.A.							
2.	Rajasthan		-	39.22	60.78	18.56	2.57	78.87	34.36	65.64
19. SAWAN(JHANGORA)										
1.	Uttrakhand		0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
2.	Uttar Pradesh	Kh.	N.A.							
		Zaid	N.A.							
20. KORRA										
1.	Andhra Pradesh		-	20.00	80.00	78.00	11.00	11.00	7.00	93.00
21. KODON-KUTKI (KODRA)										
1.	Chhattisgarh		-	0.00	100.00	0.00	0.00	100.00	0.00	100.00
2.	Madhya Pradesh		-	0.00	100.00	7.00	5.00	88.00	0.00	100.00
3.	Uttar Pradesh	Kodon	N.A.							

1	2	3	4	5	6	7	8	9	10	
22. NAVANE										
1.	Karnataka ***	0.00	0.00	100.00	61..7	12.70	25.60	0.70	99.30	
23. SAVE										
1.	Karnataka ***	0.00	0.00	100.00	91.10	4.10	4.80	0.10	99.90	
24. SAMAI										
1.	Tamil Nadu	100.00	0.00	0.00	15.00	67.00	18.00	0.00	100.00	
25. VARAGU										
1.	Tamil Nadu	100.00	0.00	0.00	34.00	47.00	19.00	0.00	100.00	
26. SUGARCANE										
1.	Andhra Pradesh	Plt.	-	82.00	18.00	91.00	2.00	7.00	28.00	72.00
		Rt.	-	86.00	14.00	92.00	0.00	8.00	33.00	67.00
2.	Assam		-	0.00	100.00	42.00	17.00	41.00	0.00	100.00
3.	Bihar			100.00						
4.	Goa		100.00	-	-	95.00	5.00	-	95.00	5.00
5.	Haryana		-	42.40	57.60	100.00	0.00	0.00	53.00	47.00
6.	Jharkhand		-	20.00	80.00	30.00	70.00	-	-	-
7.	Karnataka ***		96.20	-	3.80	93.40	6.60	-	9.80	90.20
8.	Kerala		N.A.							
9.	Maharashtra *		N.A.							
10.	Odisha	Wint.	-	-	100.00	95.00	1.00	4.00	37.00	63.00
11.	Punjab		-	99.70	0.30	99.10	0.00	0.90	60.20	39.80
12.	Rajasthan		-	53.94	46.06	90.42	9.58	0.00	35.24	64.76
13.	Tamil Nadu		100.00	0.00	0.00	52.00	42.00	6.00	34.00	66.00
14.	Uttar Pradesh		N.A.							
15.	West Bengal		80.33	-	19.67	99.49	-	0.51	76.12	23.88
27. COCOA										
1.	Kerala		N.A.							
28. CHILLIES										
1.	Andhra Pradesh	Kh.	-	92.00	8.00	100.00	0.00	0.00	100.00	0.00
		Rabi	-	88.00	12.00	96.00	0.00	4.00	81.00	19.00
2.	Bihar			100.00						
3.	Chhattisgarh		-	0.00	100.00	100.00	0.00	0.00	0.00	100.00
4.	Karnataka ***	Kh.	82.70	-	17.30	91.90	5.10	3.00	23.40	76.60
		Rabi	100.00	-	0.00	94.60	5.40	0.00	46.50	53.50
		Sum.	100.00	-	0.00	89.60	10.40	0.00	93.40	6.60
5.	Madhya Pradesh		-	99.00	1.00	100.00	0.00	0.00	0.00	100.00

1	2	3	4	5	6	7	8	9	10
29. CUMIN									
1.	Gujarat	-	-	-	-	-	-	-	-
2.	Rajasthan	-	53.76	46.24	93.23	1.34	5.43	57.81	42.19
30. FENNEL									
1.	Gujarat	-	-	-	-	-	-	-	-
31. ARECANUT									
1.	Kerala	N.A.							
2.	Maharashtra *	N.A.							
32. PEPPER									
1.	Kerala	N.A.							
33. SAFFRON									
1.	Jammu & Kashmir	N.A.							
34. TURMERIC									
1.	Kerala	N.A.							
35. GINGER									
1.	Kerala	N.A.							
2.	Meghalaya	-	0.00	100.00	1.81	6.16	92.03	1.10	98.90
36. GARLIC									
1.	Gujarat	-	-	-	-	-	-	-	-
37. CORIANDER									
1.	Rajasthan	-	22.87	77.13	93.74	1.06	5.20	74.18	25.82
38. LICHİ									
1.	Bihar			100.00					
39. BANANA									
1.	Bihar			100.00					
2.	Gujarat	-	-	-	-	-	-	-	-
3	Kerala	N.A.							
4	Madhya Pradesh #	N.A.							
40. MANGO									
1.	Bihar			100.00					
2.	Kerala	N.A.							

1	2		3	4	5	6	7	8	9	10
41. GUAVA										
1.	Bihar				100.00					
42. JACKFRUIT										
1.	Bihar				100.00					
2.	Kerala		N.A.							
43. CASHEWNUT										
1.	Kerala		N.A.							
2.	Maharashtra *		N.A.							
44. TAPIOCA										
1.	Kerala		-	31.58	68.42	36.90	85.03	0.00	0.00	100.00
45. PINE APPLE										
1.	Kerala		N.A.							
46. POTATO										
1.	Assam	Rabi.	-	13.00	87.00	41.00	40.00	19.00	15.00	85.00
2.	Bihar	Agh.			100.00					
		Rabi.			100.00					
3.	Chhattisgarh		-	51.00	49.00	73.00	22.00	5.00	0.00	100.00
4.	Gujarat		-	-	-	-	-	-	-	-
5.	Jammu & Kashmi	Kh.	N.A.							
		Rabi.	N.A.							
6.	Jharkhand	Agh.	40.00	-	60.00	70.00	30.00	-	-	-
		Rabi.	40.00	-	60.00	50.00	50.00	-	-	-
7.	Karnataka ***	Kh.	98.30	-	1.70	99.90	0.10	0.00	63.40	36.60
		Rabi.	98.50	-	1.50	100.00	0.00	0.00	78.10	21.90
		Summer	100.00	-	-	100.00	-	-	40.00	60.00
8.	Madhya Pradesh		-	85.00	15.00	89.00	1.00	10.00	0.00	100.00
9.	Meghalaya	Sum.	-	0.33	99.67	68.87	29.14	1.99	12.91	87.09
10.	Odisha	Wint.	-	-	100.00	98.00	1.00	1.00	34.00	66.00
11.	Uttar Pradesh		N.A.							

1	2		3	4	5	6	7	8	9	10
47. ONION										
1.	Bihar				100.00					
2.	Chhattisgarh		-	-	100.00	60.00	15.00	25.00	0.00	100.00
3.	Gujarat		-	-	-	-	-	-	-	-
4.	Jharkhand		25.00	-	75.00	50.00	50.00	-	-	-
5.	Karnataka ***	Kh.	68.80	-	31.20	94.80	4.90	0.30	34.90	65.10
		Rabi	62.80	-	37.20	98.00	0.20	1.80	12.20	97.80
		Sum.	39.20	-	60.80	36.50	63.50	-	20.30	79.70
6.	Madhya Pradesh #		-	44.00	56.00	92.00	6.00	2.00	-	100.00
7.	Uttar Pradesh	Zaid	N.A.							
48. BRINJAL										
1.	Bihar	Agh.			100.00					
		Rabi.			100.00					
2.	Jharkhand	Agh.	25.00	-	75.00	50.00	50.00	-	-	-
		Rabi.	30.00	-	70.00	30.00	70.00	-	-	-
49. TOMATO										
1.	Bihar	Agh.			100.00					
		Rabi			100.00					
2.	Jharkhand	Agh.	40.00	-	60.00	70.00	30.00	-	-	-
		Rabi	40.00	-	60.00	50.00	50.00	-	-	-
50. CAULIFLOWER										
1.	Bihar				100.00					
51. PAPAYA (PAPITA)										
1.	Madhya Pradesh #		N.A.							
52. PLANTAIN										
1.	Kerala		N.A.							
53.METHI										
1.	Rajasthan		-	28.22	71.78	78.99	8.26	12.75	45.63	54.37
54. GROUNDNUT										
1.	Andhra Pradesh	Kh.	-	97.00	3.00	92.00	6.00	2.00	59.00	41.00
		Rabi	-	80.00	20.00	100.00	0.00	0.00	81.00	19.00
2.	Chhattisgarh		-	14.00	86.00	55.00	22.00	23.00	0.00	100.00

1	2		3	4	5	6	7	8	9	10
3.	Goa	Kh.	0.00	100.00	-	80.00	20.00	-	10.00	90.00
		Rabi	100.00	0.00	-	80.00	20.00	-	15.00	85.00
4.	Gujarat	Kh.	-	-	-	-	-	-	-	-
		Sum.	-	-	-	-	-	-	-	-
5.	Karnataka ***	Kh.Ir.	94.80	-	5.20	95.30	2.40	2.30	38.80	61.20
		Kh.UI.	92.60	-	7.40	93.60	2.50	3.90	13.80	86.20
		Rabi.UI.	8.20	-	91.80	61.80	34.00	4.20	36.80	63.20
		Sum.Ir.	99.80	-	0.20	94.80	0.20	5.00	37.80	62.20
		Sum.UI.	0.00	-	100.00	62.50	37.50	-	50.00	50.00
6.	Madhya Pradesh		-	29.00	71.00	66.00	5.00	29.00	5.00	95.00
7.	Maharashtra *	Kh.	N.A.							
		Sum.								
8.	Odisha	Aut.	-	-	100.00	54.00	12.00	34.00	11.00	89.00
		Wint.	-	-	100.00	31.00	11.00	58.00	11.00	89.00
		Sum.	-	-	100.00	90.00	3.00	7.00	80.00	20.00
9.	Rajasthan		-	44.02	55.98	85.98	2.97	11.51	70.46	29.54
10.	Tamil Nadu	Ir.	99.00	-	1.00	44.00	41.00	15.00	52.00	48.00
		UI.	99.00	-	1.00	57.00	41.00	2.00	74.00	26.00
11.	Uttar Pradesh		N.A.							
12.	West Bengal		80.56	-	19.44	85.75	-	14.25	78.19	21.81
55. SESAMUM (GINGELLY)										
1.	Andhra Pradesh	Kh.	-	26.00	74.00	0.00	28.00	72.00	63.00	37.00
		Rabi	-	24.00	76.00	51.00	16.00	33.00	34.00	66.00
2.	Chhattisgarh		-	0.00	100.00	0.00	0.00	100.00	0.00	100.00
3.	Gujarat		-	-	-	-	-	-	-	-
4.	Karnataka ***		20.20	-	79.80	55.10	21.10	23.80	2.20	97.80
5.	Kerala		N.A.							
6.	Madhya Pradesh		-	13.00	87.00	25.00	5.00	70.00	0.00	100.00
7.	Maharashtra *	Kh.	N.A.							
		Rabi								
8.	Odisha	Aut.	-	-	100.00	16.00	8.00	76.00	7.00	93.00
		Wint.	-	-	100.00	21.00	11.00	68.00	6.00	94.00
		Sum.	-	-	100.00	43.00	11.00	46.00	24.00	76.00
9.	Rajasthan		-	28.29	71.71	21.76	0.20	78.04	1.56	98.44
10.	Tamil Nadu	Ir.	100.00	0.00	0.00	44.00	41.00	15.00	52.00	48.00
		UI.	96.00	0.00	4.00	45.00	38.00	17.00	41.00	59.00

1	2	3	4	5	6	7	8	9	10
11.	Uttar Pradesh	N.A.							
12.	West Bengal	37.39	-	62.61	61.60	-	38.40	44.14	55.86
56. CASTOR									
1.	Andhra Pradesh	-	93.00	7.00	96.00	2.00	2.00	94.00	6.00
2.	Gujarat	-	-	-	-	-	-	-	-
3.	Karnataka ***	85.10	-	14.90	59.80	28.00	12.20	13.60	86.40
57. RAPE & MUSTARD									
1.	Assam	-	2.00	98.00	29.00	47.00	24.00	9.00	91.00
2.	Bihar			100.00					
3.	Chhattisgarh	-	1.00	99.00	22.00	36.00	42.00	0.00	100.00
4.	Gujarat	-	-	-	-	-	-	-	-
5.	Haryana	-	72.40	27.60	100.00	0.00	0.00	76.40	23.60
6.	Jammu & Kashmir	N.A.							
7.	Jharkhand	-	-	100.00	20.00	80.00	-	-	-
8.	Madhya Pradesh	-	50.00	50.00	76.00	6.00	18.00	0.00	100.00
9.	Odisha Wint.	-	-	100.00	36.00	15.00	49.00	23.00	77.00
10.	Punjab	-	95.60	4.40	93.70	0.00	6.30	41.30	58.70
11.	Rajasthan	-	74.11	25.89	85.39	6.83	7.78	28.95	71.05
12.	Uttar Pradesh	N.A.							
13.	West Bengal	85.58	-	14.42	98.46	-	1.54	58.34	41.66
58. LINSEED									
1.	Chhattisgarh	-	7.00	93.00	28.00	10.00	62.00	0.00	100.00
2.	Jammu & Kashmir	N.A.							
3.	Karnataka ***	47.60	-	52.40	61.10	11.10	27.80	0.40	99.60
4.	Madhya Pradesh	-	95.00	5.00	15.00	9.00	76.00	0.00	100.00
5.	Maharashtra *	N.A.							
6.	Rajasthan	N.A.							
7.	Uttar Pradesh	N.A.							
8.	West Bengal	1.27	-	98.73	21.25	-	78.75	0.24	99.76

1	2		3	4	5	6	7	8	9	10
59. SAFFLOWER										
1.	Karnataka ***		73.70	-	26.30	83.80	1.50	14.70	29.80	70.20
2.	Maharashtra *		N.A.							
60. SUNFLOWER										
1.	Andhra Pradesh	Kh.	-	64.00	36.00	92.00	0.00	8.00	50.00	50.00
		Rabi	-	58.00	42.00	98.00	0.00	2.00	64.00	36.00
2.	Haryana	Rabi	-	100.00	0.00	100.00	0.00	0.00	0.00	100.00
3.	Karnataka ***	Kh.Ir.	100.00	-	0.00	98.90	0.70	0.40	23.90	76.10
		Kh.UI.	99.90	-	0.10	94.20	2.70	3.10	15.10	84.90
		Rabi.Ir.	99.00	-	1.00	98.70	0.30	1.00	25.40	74.60
		Rabi.UI.	99.90	-	0.10	97.80	0.80	1.40	18.40	81.60
		Sum.	100.00	-	0.00	94.90	1.10	4.00	37.10	62.90
4.	Maharashtra *	Kh.	N.A.							
		Rabi	N.A.							
		Sum.	N.A.							
5.	Tamilnadu	Ir.	100.00	0.00	0.00	1.00	1.00	98.00	0.00	100.00
UI.		100.00	0.00	0.00	65.00	31.00	4.00	32.00	68.00	
6.	Uttar Pradesh	Zaid	N.A.							
61. SOYABEAN										
1.	Andhra Pradesh									
2.	Chhattisgarh		-	53.00	47.00	81.00	3.00	16.00	0.00	100.00
3.	Karnataka ***		100.00	-	0.00	97.90	0.30	1.80	44.10	55.90
4.	Madhya Pradesh		-	100.00	0.00	92.00	1.00	7.00	100.00	0.00
5.	Maharashtra *		N.A.							
6.	Rajasthan		-	79.28	20.72	65.03	0.46	34.61	19.12	80.88
7.	Uttar Pradesh		N.A.							
62. TARA MEERA										
1.	Rajasthan		-	25.02	74.98	26.76	1.92	71.32	14.06	85.94
1.	Kerala		N.A.							
2.	Maharashtra *		N.A.							
64. NIGER										
1.	Maharashtra *		N.A.							

1	2		3	4	5	6	7	8	9	10
65. COTTON										
1.	Andhra Pradesh		-	89.00	11.00	99.00	0.00	1.00	96.00	4.00
2	Gujarat	Ir.	-	-	-	-	-	-	-	-
		UI.	-	-	-	-	-	-	-	-
3.	Haryana		-	54.70	45.30	100.00	-	-	75.90	24.10
4.	Karnataka ***	kh. Ir.	99.00	-	1.00	99.40	0.60	-	68.90	31.10
		UI.	99.10	-	0.90	97.90	1.30	0.80	54.90	45.10
		Rabi Ir.	100.00	-	0.00	100.00	-	-	30.00	70.00
		Rabi UI.	69.60	-	30.40	99.40	-	0.60	7.20	92.80
		Sum.	100.00	-	-	100.00	-	-	0.00	100.00
5.	Madhya Pradesh		-	96.00	4.00	96.00	1.00	3.00	92.00	8.00
6.	Maharashtra *	Ir.	N.A.							
		UI..	N.A.							
		Comp.	N.A.							
7.	Punjab		-	97.40	2.60	98.10	0.00	1.90	95.10	4.90
8.	Rajasthan		-	78.73	21.27	91.41	2.21	6.38	87.89	12.11
9.	Tamil Nadu	Ir.	100.00	0.00	0.00	56.00	40.00	4.00	0.00	100.00
		UI.	100.00	0.00	0.00	54.00	38.00	8.00	0.00	100.00
10.	Uttar Pradesh		N.A.							
66. JUTE										
1.	Assam		-	30.00	70.00	64.00	25.00	11.00	0.00	100.00
2.	Bihar				100.00					
3.	Meghalaya		-	0.00	100.00	4.17	16.67	79.16	0.00	100.00
4.	Odisha		-	-	100.00	84.00	1.00	15.00	14.00	86.00
5.	West Bengal		95.21	-	4.79	90.39	-	9.61	54.52	45.48
67. MESTA										
1.	Andhra Pradesh		-	58.00	42.00	43.00	6.00	51.00	0.00	100.00
2.	Bihar				100.00					
3.	West Bengal		57.37	-	42.63	88.37	-	11.63	7.35	92.65
68. TOBACCO										
1.	Andhra Pradesh	(N)	-	71.00	29.00	37.00	0.00	63.00	21.00	79.00
		(V)	-	97.00	3.00	23.00	0.00	77.00	27.00	73.00
2.	Gujarat		-	-	-	-	-	-	-	-
3.	Karnataka ***		97.90	-	2.10	99.20	0.80	0.00	45.50	54.50

1	2		3	4	5	6	7	8	9	10
4.	Maharashtra *		N.A.							
5.	Uttar Pradesh	Rabi	N.A.							
		Zaid	N.A.							
69. ISABGOL										
1.	Gujarat		-	-	-	-	-	-	-	-
2.	Rajasthan		-	31.78	68.22	85.75	1.69	12.56	21.81	78.19
70. AVARE (SEM)										
1.	Karnataka ***	Kharif	83.00	-	17.00	78.80	6.40	14.80	11.60	88.40
		Rabi	99.80	-	0.20	99.90	0.10	0.00	34.20	65.80
71. COWPEA (LOBIA)										
1.	Karnataka ***	Kharif	88.80	-	11.20	73.60	11.50	14.90	6.20	93.80
		Rabi	99.30	-	0.70	63.80	0.10	36.10	42.20	57.80
		Summer	86.10	-	13.90	88.60	0.40	11.00	47.20	52.80

Note :-

1. * : Figures repeated for the year 2010-11 in the state of Maharashtra.

2 *** : Figures repeated for the year 2011-12 in respect of Crop Cowpea and for the year 2013-14 for all other crops for Karnataka.

3. # : Figure repeated for the year 2013-14 in respect for corp Banana, Onion and Papaya for Madhya Pradesh.

ANNEX : X(a) :- RESULTS OF FIELD DRIAGE EXPERIMENTS UNDER CES 2014-15

CROP	S T A T E		No. Of Experiments		Percentage
			Planned	Analysed	recovery
1	2		3	4	5
PADDY	Andhra Pradesh	Kh.Ir.	4060	795	88.93
		Kh.UI.	224	81	87.77
		Rabi Ir.	2868	554	89.98
	Assam	Aut.	300	233	88.40
		Win.	450	366	88.40
		Sum.	226	180	89.08
	Bihar	Bha.Ir.	140	103	73.60
		Bha.UI.	280	185	66.10
		Agh.Hyv.Ir.	17313	14149	81.70
		Agh.Hyv.UI.	7440	6783	91.20
		Agh.Lv.Ir.	5677	5227	92.10
		Agh.Lv.UI.	6650	6040	90.80
		Gar.Hyv.	170	75	44.10
		Gar.Lv.	50	19	38.00
	Chhattisgarh	Hyv.Ir.	358	332	94.60
		Lv.Ir.	158	146	95.40
		UI.	3072	598	94.10
	Goa	Kh.	76	76	90.81
		Rabi	76	76	90.06
	Gujarat	Ir.	N.A.		
		UI.			
		Sum.			
	Haryana %		990	974	96.90
	Himachal Pradesh		404	421	87.50
	Jammu & Kashmir		552	256	83.65
	Jharkhand	Agh.Hyv.Ir.	N.A.		
		Agh.Hyv.UI.			
		Agh.Lv.Ir.			
		Agh.Lv.UI.			
		Bha.			
	Kerala	Aut.	508	508	91.00
		Wint.	566	566	93.00
		Sum.	401	401	93.00

1	2		3	4	5
PADDY (Contd...)	Madhya Pradesh	Hyv.Ir.	695	627	97.25
		Lv.Ir.	408	408	96.00
		UI.	1670	1580	96.03
	Maharashtra **	Kh.	1106	712	93.79
		Sum.	N.C		
	Meghalaya	Aut.	72	72	92.56
		Wint.	152	152	89.19
	Punjab		276	274	90.08
	Rajasthan		794	764	93.46
	Tamil Nadu	K/K/S	211	211	91.76
		S/T/P	630	626	95.14
		N/K	150	150	95.08
	Uttarakhand		731	471	64.00
	Uttar Pradesh #		580	580	94.59
	West Bengal	Aus.	1491	1491	88.71
		Aman.	4227	4227	89.15
		Sum.	3803	3803	88.70
	Dadra & Nagar Haveli		78	76	94.70
	Daman & Diu ##		20	20	96.00
	Puducherry	I	62	62	93.75
		II	140	140	93.75
		III	70	70	93.61
JOWAR	Andhra Pradesh	Kh.	104	36	58.56
		Rabi.	364	130	60.40
	Chhattisgarh		80	40	72.70
	Gujarat	Kh.	-	-	-
		Rabi	-	-	-
	Madhya Pradesh		872	686	51.90

1	2		3	4	5
JOWAR (Contd...)	Maharashtra **	Kh.	2128	1543	94.24
		Rabi	2228	1472	94.21
	Rajasthan		2582	2450	55.46
	Tamil Nadu	Ir.	220	220	78.66
		UI.	320	320	63.79
	Uttar Pradesh #		20	20	56.55
BAJRA	Andhra Pradesh		462	171	54.51
	Gujarat	Kh.	-	-	-
		Sum.	-	-	-
	Haryana %		1532	1456	96.40
	Madhya Pradesh		330	296	53.67
	Maharashtra **		856	511	94.42
	Rajasthan		8754	8502	56.98
	Tamil Nadu	Ir.	120	120	62.62
		UI.	98	98	68.16
	Uttar Pradesh #		80	80	57.40
	Daman & Diu ##		8	8	85.00
MAIZE	Andhra Pradesh	Kh.	208	111	61.88
		Rabi	218	79	65.89
	Bihar	Bha.Hyv.	4556	2316	50.80
		Bha.Lv.	6104	4547	74.50
		Rabi	500	446	89.20
		Gar.Hyv.	260	68	26.20
		Gar.Lv.	80	26	32.50
	Chhattisgarh		1362	386	87.10
	Gujarat	Kh.	-	-	-

1	2		3	4	5
MAIZE (Contd...)	Haryana %		144	76	62.50
	Himachal Pradesh		590	695	55.01
	Jammu & Kashmir		404	224	64.02
	Jharkhand	Bha.	N.A.		
	Madhya Pradesh		1646	1453	52.95
	Maharashtra ***	Kh.	112	90	92.50
		Rabi	84	58	92.71
	Punjab		90	90	52.99
	Rajasthan	Kh.	5462	5402	68.18
	Tamil Nadu	Ir.	128	128	73.34
		UI.	88	88	54.57
	Uttar Pradesh #		96	96	56.50
	West Bengal		201	201	49.60
RAGI	Andhra Pradesh	Kh.	190	61	56.72
		Rabi	96	39	54.76
	Bihar	Bha.	100	52	52.00
	Goa			N.A.	
	Gujarat		-	-	-
	Jharkhand		N.A.		
	Maharashtra **		492	332	94.15
	Tamil Nadu	Ir.	80	80	54.57
		UI.	100	100	56.50
	Uttarakhand		533	437	82.00
	Dadra & Nagar Haveli		78	34	93.72
WHEAT	Bihar	Hyv.Ir.	2965	2850	96.10
		Hyv.UI.	70	65	92.90
		Lv.Ir.	2285	2251	98.50
		Lv.UI.	0	0	0.00
	Chhattisgarh	Hyv.Ir.	1302	234	93.60
		Lv.Ir.	232	51	95.90
		UI.	596	110	90.10
	Gujarat	Ir.	-	-	-
		UI.	-	-	-

1	2		3	4	5
WHEAT (Contd...)	Haryana %		2200	2150	97.90
	Himachal Pradesh		612	710	92.57
	Jammu & Kashmir		310	136	88.90
	Jharkhand	Hyv.Ir.	N.A.		
		Hyv.UI.			
		Lv.Ir.			
		Lv.UI.			
	Madhya Pradesh	Hyv.Ir.	3110	2870	97.18
		Lv.Ir.	1092	936	97
		UI.	1520	1386	96.75
	Maharashtra **		464	256	95.02
	Punjab		274	254	98.68
	Rajasthan		17114	16564	98.04
	Uttarakhand		727	432	59.00
	Uttar Pradesh #		N.A.	N.A.	95.05
	West Bengal		1085	1085	66.06
BARLEY	Bihar		150	137	91.00
	Chhattisgarh		36	24	92.20
	Haryana %		516	358	97.20
	Himachal Pradesh		284	290	91.78
	Jharkhand		N.A.		
	Madhya Pradesh		455	453	97.31
	Punjab		112	38	98.38
	Rajasthan		2758	2608	97.67
	Uttarakhand		332	177	53.00
	Uttar Pradesh #		N.A.	N.A.	95.45
GRAM	Bihar		400	348	87.00
	Chhattisgarh		1264	328	94.20

1	2		3	4	5
GRAM (Contd...)	Gujarat		-	-	-
	Haryana %		562	522	88.90
	Jharkhand		N.A.		
	Madhya Pradesh	UI	4016	1710	94.86
		Ir	1124	932	95.64
	Maharashtra **		2200	1550	94.62
	Punjab		26	12	97.80
	Rajasthan		8544	7492	95.71
	Uttar Pradesh #		20	20	96.11
	West Bengal		299	299	56.64
REDGRAM (TUR)	Bihar		300	257	85.70
	Jharkhand		N.A.		
	Maharashtra *		3602	3006	83.45
	Uttar Pradesh #		N.A.	N.A.	58.95
	West Bengal	(Rabi)	128	128	52.20
GREENGRAM (MOONG)	Bihar	Bha.	100	71	71.00
		Gar.	250	153	61.20
	Rajasthan		4320	4233	94.31
	Uttar Pradesh #	Kh.	12	12	92.74
		Zaid	N.A.	N.A.	N.A.
	West Bengal	Sum.		N.A.	
BLACKGRAM	Rajasthan		2318	2212	93.51
	Uttar Pradesh #	Kh.	24	24	93.77
		Zaid.	N.A.	N.A.	N.A.
	West Bengal		418	418	42.71
LAKH (KHESARI)	Bihar		170	147	86.50
	Chhattisgarh			N.A.	
	West Bengal		233	233	46.91
MASUR	Bihar		450	448	94.00
	Jharkhand		N.A.		
	Rajasthan		220	212	95.89
	Uttar Pradesh #		32	32	94.86
	West Bengal		990	990	55.56

1	2		3	4	5
PEAS	Uttar Pradesh		16	16	94.87
	West Bengal		179	179	58.66
MOTH	Rajasthan		2130	2079	92.98
CHOWLA	Rajasthan		520	494	93.14
GUAR	Rajasthan		7364	7244	95.37
SAWAN	Uttarakhand		306	254	83.00
	Uttar Pradesh #	Kh.	10	10	90.21
		Zaid	N.A.	N.A.	90.21
SAMAI	Tamil Nadu		50	50	91.51
VARAGU	Tamil Nadu		56	56	91.51
SUGARCANE	Bihar		370	314	84.70
	Punjab		156	12	8.26
KORRA	Andhra Pradesh		94	43	69.57
KODON-KUTKI	Chhattisgarh		276	171	91.00
	Madhya Pradesh		256	204	91.98
	Uttar Pradesh # (Kodan)		N.A.	N.A.	95.17
CHILLIES	Andhra Pradesh	Kh.	348	92	40.76
		Rabi	246	95	38.59
	Bihar		125	43.00	34.40
SAFFRON	Jammu & Kashmir \$\$		108	93	86.11
CORIANDER	Rajasthan		492	480	91.32
ARECANUT	Maharashtra ****		180	21	55.40
CASHEWNUT	Maharashtra		N.C		
CUMIN SEED	Rajasthan		2954	2536	96.03
METHI	Rajasthan		768	678	96.79
GROUNDNUT	Andhra Pradesh	Kh.	2572	668	64.68
		Rabi	672	215	65.87
	Chhattisgarh		560	156	78.20
	Gujarat	Kh.	-	-	-
		Sum.	-	-	-
	Goa	Kh.	14	14	85.52
		Rabi	24	24	85.52
	Madhya Pradesh		604	586	78.58
	Maharashtra **		1386	948	82.63
	Rajasthan		2092	1944	84.93
	Tamil Nadu	Ir.	350	350	74.93
		UI.	230	230	75.58
	Uttar Pradesh #		N.A.	N.A.	66.23
	West Bengal		199	199	44.99

1	2		3	4	5
SESAMUM	Maharashtra *	Kh.	674	512	75.96
		Rabi	202	93	46.03
	Rajasthan		3198	3043	90.37
	Uttar Pradesh		15	15	23.58
	West Bengal		1120	1120	22.67
CASTOR	Andhra Pradesh		142	50	56.58
RAPE & MUSTARD	Bihar		438	371	84.70
	Haryana %		1040	990	96.70
	Jammu & Kashmir \$\$		214	166	77.57
	Jharkhand		N.A.		
	Punjab		252	176	97.09
	Rajasthan		13274	12440	96.17
	Uttar Pradesh #		N.A.	N.A.	94.43
	West Bengal		1521	1521	24.89
LINSEED	Jammu & Kashmir \$\$		26	24	92.31
	Maharashtra *		882	675	76.53
	Rajasthan		N.A.		
	Uttar Pradesh		6	6	94.04
	West Bengal		134	134	42.94
SUNFLOWER	Andhra Pradesh	Kh.	150	51	83.94
		Rabi	340	92	80.38
	Haryana %	Rabi	260	92	46.10
	Maharashtra*	Kh.	680	524	77.05
		Rabi	578	463	80.10
		Sum.		N.A.	
	Uttar Pradesh #	Zaid	N.A.	N.A.	92.21
SAFFLOWER	Maharashtra *		2538	1562	61.54
SOYABEAN	Rajasthan		1694	1632	95.05
	Uttar Pradesh #		N.A.	N.A.	91.15
BANANA	Bihar		250	56	22.40
MANGO	Bihar		300	97	32
GUAVA	Bihar		125	16	13
LICHI	Bihar		150	65	43
POTATO	Bihar	Agh.	125	76	61
		Rabi	150	145	97
ONION	Bihar	Rabi	150	132	88
BRINJAL	Bihar	Agh.	125	85	68
		Rabi	125	80	64
TOMATO	Bihar	Agh.	50		72
		Rabi	100	48	48
CAULIFLOWER	Bihar		150	94	63
JACKFRUIT	Bihar		150	33	22

1	2		3	4	5
TARA MEERA	Rajasthan		1260	1022	95.80
COTTON	Madhya Pradesh			N.A.	
	Maharashtra *		3364	2834	84.20
	Punjab		120	80	96.04
	Rajasthan		1576	1411	100.00
	Uttar Pradesh #		16	16	92.75
JUTE	Assam		278	278	5.67
	Bihar		100	89	89.00
	Meghalaya		22	22	2.68
	West Bengal		640	635	7.68
MESTA	Andhra Pradesh		200	192	78.39
	Bihar		100	84	84.00
	West Bengal		248	184	6.28
TOBACCO	Maharashtra *		72	52	72.22
	Uttar Pradesh #	Rabi	N.A.	N.A.	26.65
		Zaid	N.A.	N.A.	N.A.
ISABGOL	Rajasthan		1770	1572	95.27

Note: -

- 1 * :- Figures have been given for the year 1994-95 as no results of driage experiments was received ever since the year 1995-96 to 2009-10 by SASA Maharashtra.
2. *** :- Figures given are for 1998-99 as no information was received ever since the year 1999-2000 to 2009-1
3. **** :- Figures given are for 2001-02 as no information was received ever since the year 2002-03 to 2009-10.
4. # :- Figures given are for the year 2011-12, as no data received for the year 2014-15 from SASA.
5. ## :- Figure repeated for previous year.
6. \$\$:- Figures repeated for the year 2013-14 for the crops Saffron, Rape & Mustard and linseed.
7. % :- Percentage recovery repeated for the year 2013-14 for Haryana.

**ANNEX-X(b):RESULTS OF CENTRAL DRIAGE EXPERIMENTS ORGANISED BY STATE
UNDER C.E.S. DURING 2013-14**

Sl. No.	S T A T E	C R O P		No. Of Experiments		Percen- tage recovery	Percentage recovery as per field driage
				Planned	Analysed		
1	2	3		4	5	6	7
1.	Assam @	Paddy	Aut.	300	233	88.40	No Field driage
			Wint.	450	366	88.40	No Field driage
			Sum.	226	180	89.08	No Field driage
		Wheat		-	-	94.98	No Field driage
		Blackgram		-	-	94.49	No Field driage
		Rape & Mustard		-	-	91.11	No Field driage
		Jute		278	278	5.67	No Field driage
		Sugarcane		-	-	9.82	
2.	Karnataka ***	Paddy	Kh.Hyv.Ir.	714	522	83.93	No Field driage
			Kh.Hyv.UI.	224	198	84.84	No Field driage
			Kh.Tra.Ir.	62	60	86.49	No Field driage
			Kh.Tra.UI.	184	134	83.95	No Field driage
			Rabi Hyv. Ir.	100	90	83.33	No Field driage
			Rabi Tra. Ir.	4	4	84.13	No Field driage
			Sum.Hyv.Ir.	408	400	83.15	No Field driage
			Sum.Tra.Ir.	-	-	-	No Field driage
		Jowar	Kh.Hyv.Ir.	170	104	48.78	No Field driage
			Kh.Hyv.UI.	382	230	46.83	No Field driage
			Kh.Tra.UI.	82	60	41	No Field driage
			Rabi Hyv.Ir.	166	150	41.26	No Field driage
			Rabi Hyv.UI.	418	400	40.24	No Field driage
			Rabi Tra.Ir.	20	16	38.13	No Field driage
			Rabi Tra.UI.	138	120	41.13	No Field driage
			Sum. Hyv. Ir.	44	38	48.26	No Field driage
		Bajra	Kh.Hyv.Ir.	120	78	38.26	No Field driage
			Kh.Hyv.UI.	320	204	39.95	No Field driage
			Kh.Tra.UI.	22	10	45.12	No Field driage

1	2	3		4	5	6	7
		Maize	Kh.Hyv.Ir.	396	276	51.00	No Field driage
			Kh.Hyv.UI.	566	392	53.26	No Field driage
			Kh.Tra.Ir.	6	6	47.99	No Field driage
			Kh.Tra.UI.	8	6	45.00	No Field driage
			Rabi Hyv. Ir.	194	184	48.26	No Field driage
			Rabi Hyv. UI.	60	58	41.96	No Field driage
			Sum Hyv Ir.	68	54	50.26	No Field driage
			Rabi Tra.Ir.	-	-	-	No Field driage
		Ragi	Kh.Hyv.Ir.	614	284	51.34	No Field driage
			Kh.Hyv.UI.	204	106	50.89	No Field driage
			Kh.Tra.UI.	16	12	41.91	No Field driage
			Rabi Hyv.Ir.	52	48	45.00	No Field driage
			Rabi Hyv.UI.	80	72	41.26	No Field driage
			Sum.Hyv. Ir.	22	20	48.15	No Field driage
		Wheat	Hyv.Ir.	154	124	77.95	No Field driage
			Hyv.UI.	128	122	79.26	No Field driage
			Tra.Ir.	42	40	73.46	No Field driage
			Tra.UI.	76	70	77.95	No Field driage
		Gram	Ir.	186	156	50.97	No Field driage
			UI.	514	462	53.79	No Field driage
		Redgram	Ir.	72	46	55.76	No Field driage
			UI.	622	428	48.13	No Field driage
		Greengram	Kh.	482	306	34.21	No Field driage
			Rabi	16	10	45.01	No Field driage
		Blackgram	Kh.	164	116	31.25	No Field driage
			Rabi	20	18	35.16	No Field driage
		Horsegram	Kh.	512	240	28.93	No Field driage
			Rabi	452	430	31.16	No Field driage
		Navane		144	128	27.79	No Field driage
		Save		64	54	22.03	No Field driage
		Chillies	Ir.	56	8	47.03	No Field driage
			UI.	44	4	33.55	No Field driage
		Groundnut	Kh.Ir.	188	94	55.05	No Field driage
			Kh.UI.	662	418	42.26	No Field driage
			Rabi UI.	10	8	52.02	No Field driage
			Sum.	298	290	43.26	No Field driage

1	2	3		4	5	6	7
		Sesamum		334	202	12.46	No Field driage
		Castor		106	50	31.33	No Field driage
		Linseed		70	52	25.15	No Field driage
		Safflower		278	162	30.15	No Field driage
		Sunflower	Kh.Ir.	328	182	35.82	No Field driage
			Kh.UI.	538	312	27.18	No Field driage
			Rabi.Ir.	262	150	34.96	No Field driage
			Rabi.UI.	358	328	31.60	No Field driage
			Sum.Ir.	222	214	42.15	No Field driage
		Soyabean	Ir.	40	36	45.87	No Field driage
			UI.	144	116	42.26	No Field driage
		Tobacco		*	*	14.00	No Field driage
		Avare		78	34	36.94	No Field driage
		Cowpea		80	34	29.12	No Field driage
3.	Odisha **	Paddy	Aut.	-	-	85.26	No Field driage
			Wint.	-	-	87.34	No Field driage
			Sum.	-	-	87.74	No Field driage
		Maize	Aut.	-	-	34.42	No Field driage
			Wint.	-	-	31.90	No Field driage
			Sum.	-	-	30.98	No Field driage
		Ragi	Aut.	-	-	41.00	No Field driage
			Wint.	-	-	41.42	No Field driage
			Sum.	-	-	38.60	No Field driage
		Wheat	Sum.	-	-	92.10	No Field driage
		Greengram	Aut.	-	-	93.42	No Field driage
			Wint.	-	-	94.36	No Field driage
			Sum.	-	-	94.46	No Field driage
		Blackgram	Aut.	-	-	93.95	No Field driage
			Wint.	-	-	94.44	No Field driage
			Sum.	-	-	94.44	No Field driage
		Horsegram	Wint.	-	-	94.38	No Field driage
			Sum.	-	-	95.07	No Field driage

1	2	3		4	5	6	7
		Groundnut	Aut.	-	-	51.53	No Field driage
			Wint.	-	-	54.96	No Field driage
			Sum.	-	-	54.52	No Field driage
		Sesamum	Aut.	-	-	93.73	No Field driage
			Wint.	-	-	93.38	No Field driage
			Sum.	-	-	94.69	No Field driage
		Rape & Mustard	Wint.	-	-	82.59	No Field driage
		Jute	Aut.	-	-	5.73	No Field driage
4.	Rajasthan	Jowar		46	43	53.86	91.63
	\$	Bajra		50	50	56.54	99.39
		Maize	Kh.	40	38	59.10	97.58
		Wheat		58	52	97.58	98.81
		Gram		56	54	94.88	89.37

- Note : 1:- @ Average driage ratio for last 10 years is applied for Wheat, Blackgram, Rape & Mustard.
- 2:- * Driage experiments on Tobacco are not conducted due to extraneous reasons and percentage recovery ratio are obtained from Tobacco board.
- 3:- ** Average driage ratio on the basis of preceeding 10 years is adopted in respect of all the crops.
- 4:- \$ Figures given are for 2007-08 as no information was received of Central Driage ever since the year 2008-09.
- 5:- *** Figures given are for 2011-12 as no information was received of Central Driage ever since the year 2013-14.

APPENDIX -I : STATEWISE CROP COVERAGE AND DETAILS OF DESIGN UNDER CES DURING 2014-15						
Crop		Year of initiation of survey	Year of adoption of results	Plot Size & Shape Dimentions (M x M)	Stratum	Pre-stratification If any (category)
1		2	3	4	5	6

1. ANDHRA PRADESH

Paddy	Kh.	1945-46	1954-55	5 x 5	1/400	MANDAL	Ir._ UI.
	Rabi	1945-46	1954-55	5 x 5	1/400	MANDAL	
Jowar	Kh.	1951-52	1955-56	5 x 5	1/400	MANDAL	
	Rabi	1951-52	1955-56	5 x 5	1/400	MANDAL	
Bajra		1951-52	1955-56	5 x 5	1/400	MANDAL	
Maize	Kh.	1951-52	1955-56	5 x 5	1/400	MANDAL	
	Rabi	1951-52	1955-56	5 x 5	1/400	MANDAL	
Ragi	Kh.	1951-52	1955-56	5 x 5	1/400	MANDAL	
	Rabi	1951-52	1955-56	5 x 5	1/400	MANDAL	
Redgram		1958-59	1960-61	10 x10	1/100	MANDAL	
Greengram	Kh.	1976-77	1976-77	5 x 5	1/400	MANDAL	
	Rabi	1976-77	1976-77	5 x 5	1/400	MANDAL	
Blackgram	Kh.	1962-63	1963-64	5 x 5	1/400	MANDAL	
	Rabi	N. A.	N.A.	5 x 5	1/400	MANDAL	
Horsegram	Kh.	1980-81	1980-81	5 x 5	1/400	MANDAL	
	Rabi	N. A.	N. A.	5 x 5	1/400	MANDAL	
Bengalgram	Rabi	2001-02	2001-02	5 x 5	1/400	MANDAL	
Korra		1976-77	1976-77	5 x 5	1/400	MANDAL	
Sugarcane	Plt. - Rt	1954-55	1957-58	5 x 5	1/400	MANDAL	.
Chillies	Kh.	1976-77	1976-77	5 x 5	1/400	MANDAL	
	Rabi	2002-03	2002-03	5 x 5	1/400	MANDAL	
Groundnut	Kh.	1957-58	1959-60	5 x 5	1/400	MANDAL	
	Rabi	1957-58	1959-60	5 x 5	1/400	MANDAL	
Sesamum	Kh.	1957-58	1959-60	10 x 10	1/100	MANDAL	
	Rabi	1957-58	1959-60	10 x 10	1/100	MANDAL	
Castor		1957-58	1964-65	10 x 10	1/100	MANDAL	
Cotton		1957-58	1965-66	10 x 10	1/100	MANDAL	
Mesta		1976-77	1976-77	5 x 5	1/400	MANDAL	
Tobacco	(N &V)	1957-58	1963-64	5 x 5	1/400	MANDAL	
Sunflower	Kh.	1992-93	1992-93	5 x 5	1/400	MANDAL	
	Rabi	N . A.	N. A.	5 x 5	1/400	MANDAL	
Soyabean	Kh.	2003-04	2003-04	5 x 5	1/400	MANDAL	

1	2	3	4	5	6	7	
2. ASSAM @							
Paddy	Aut.	1947-48	1951-52	5 x 5	1/400	R.Circle	
	Wint.	1947-48	1951-52	5 x 5	1/400	R.Circle	
	Sum.	1974-75	1974-75	5 x 5	1/400	Sub-Division	
Wheat		1973-74	1973-74	5 x 5	1/400	Sub-Division	
Blackgram		1962-63	1962-63	5 x 5	1/400	Sub-Division	
Sugarcane		1957- 58	1957- 58	5 x 5	1/400	Sub-Division	
Potato		1950-51	1952-53	5M x 7 Rows	-	R.Circle	
Rape & Mustard		1957-58	1958-59	5 x 5	1/400	R.Circle	
Jute		1951-52	1951-52	5 x 5	1/400	Sub-Division	
3. BIHAR							
Paddy	Bha.	1945-46	1948-49	10 x 5	1/200	ANCHAL	Ir.- UI.
	Agh.	1945-46	1948-49	10 x 5	1/200	ANCHAL	{Hyv.(Ir./UI.)} {Lv.(Ir./UI.) }
	Gar.	1969-70	1969-70	10 x 5	1/200	ANCHAL	Hyv./Lv.
Maize	Bha.	1959-60	1959-60	10 x 5	1/200	ANCHAL	Hyv./Lv.
	Rabi	1976-77	1976-77	10 x 5	1/200	ANCHAL	
	Gar.	1959-60	1959-60	10 x 5	1/200	ANCHAL	Hyv./Lv.
Ragi	Bha.	1976-77	1976-77	10 x 5	1/200	ANCHAL	
Wheat		1945-46	1948-49	10 x 5	1/200	ANCHAL	{Hyv.(Ir./UI.)} {Lv.(Ir./UI.) }
Barley		1945-46	1950-51	10 x 5	1/200	ANCHAL	
Gram		1945-46	1949-50	10 x 5	1/200	ANCHAL	
Tur		1962-63	1962-63	5 x 5	1/400	ANCHAL	
Greengram	Bha.	1976-77	1977-78	10 x 5	1/200	ANCHAL	
	Gar.	1977-78	1977-78	10 x 5	1/200	ANCHAL	
Lakh		1966-67	1966-67	10 x 5	1/200	ANCHAL	
Masur		1945-46	1966-67	10 x 5	1/200	ANCHAL	
Sugarcane		1958-59	1958-59	5 x 5	1/400	ANCHAL	Ir.- UI.
Chillies		1970-71	1970-71	5 x 5	1/400	ANCHAL	
Lichi		1963-64	1963-64	2 trees	—	ANCHAL	
Banana		1964-65	1964-65	2 trees	—	ANCHAL	
Mango		1963-64	1963-64	2 trees	—	ANCHAL	
Guava		1976-77	1976-77	2 trees	—	ANCHAL	

1	2	3	4	5	6	7
Potato	Agh. Rabi	1964-65 1964-65	1964-65 1964-65	5 x 5 5 x 5	1/400 1/400	ANCHAL ANCHAL
Onion		1970-71	1970-71	5 x 5	1/400	ANCHAL
Brinjal	Agh. Rabi	1972-73 1972-73	1972-73 1972-73	5 x 5 5 x 5	1/400 1/400	ANCHAL ANCHAL
Tomato	Agh. Rabi	1972-73 1972-73	1972-73 1972-73	5 x 5 5 x 5	1/400 1/400	ANCHAL ANCHAL
Cauliflower		1973-74	1973-74	5 x 5	1/400	ANCHAL
Jackfruit		1965-66	1965-66	2 trees	—	ANCHAL
Rape & Mustard		1966-67	1966-67	5 x 5	1/400	ANCHAL
Jute		1958-59	1958-59	5 x 5	1/400	ANCHAL
Mesta		1959-60	1962-63	5 x 5	1/400	ANCHAL

4. CHHATTISGARH

Paddy	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	Ir.(Hyv./Lv.) & UI.
Jowar	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Maize	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	Ir.(Hyv./Lv.) & UI.(Lv)
Wheat	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Barley	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Gram	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Tur	2000-01	2000-01	10 x 5	1/200	R.I. CIRCLE	
Lakh	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Soyabean	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Kodan-Kutki	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Chillies	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Potato	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Onion	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Groundnut	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Sesamum	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Rape & Mustard	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	
Linseed	2000-01	2000-01	5 x 5	1/400	R.I. CIRCLE	

5. GOA

1	2	3	4	5	6	7
Paddy	Kh.	1967-68	1967-68	5 x 5	1/400	TALUKA
	Rabi	1967-68	1967-68	5 x 5	1/400	TALUKA
Ragi		1970-71	1970-71	5 x 5	1/400	TALUKA

6. GUJARAT

Paddy	Kh.	1945-46	1956-57	5 x 5	1/400	TALUKA	Ir.-UI.
	Sum	2000-01	2000-01	5 x 5	1/400	TALUKA	
Jowar	Kh.	1956-57	1956-57	5 x 5	1/400	TALUKA	
	Rabi	1945-46	1956-57	5 x 5	1/400	TALUKA	
Bajra	Kh.	1946-47	1956-57	5 x 5	1/400	TALUKA	
	Sum	1974-75	1974-75	5 x 5	1/400	TALUKA	
Maize		1951-52	1951-52	5 x 5	1/400	TALUKA	
Ragi		1951-52	1955-56	5 x 5	1/400	TALUKA	
Wheat		1945-46	1956-57	5 x 5	1/400	TALUKA	Ir.- UI.
Blackgram		2004-05	2004-05	5 x 5	1/400	TALUKA	
Gram		1951-52	1956-57	5 x 5	1/400	TALUKA	
Redgram		1976-77	1984-85	10M X Av. rows in 5M	1/200	TALUKA	
Greengram		1977-78	1984-85	5 x 5	1/400	TALUKA	
Guvar		1994-95	-	5 x 5	1/400	TALUKA	
Moth		2004-05	2004-05	5 x 5	1/400	TALUKA	
Cumin		1964-65	1971-72	5 x 5	1/400	TALUKA	
Fennel		1964-65	1971-72	5 x 5	1/400	TALUKA	
Onion		1968-69	1984-85	5 x 5	1/400	TALUKA	
Potato		1972-73	1984-85	5 x 5	1/400	TALUKA	
Groundnut	Kh.	1951-52	1957-58	5 x 5	1/400	TALUKA	
	Sum.	1977-78	1983-84	5 x 5	1/400	TALUKA	
Rape & Mustard		1984-85	1984-85	5 x 5	1/400	TALUKA	
Sesamum		1961-62	1964-65	5 x 5	1/400	TALUKA	
Castor		1961-62	1964-65	10M X Av. rows in 5 M	1/200	TALUKA	
Cotton		1946-47	1957-58	10M X Av. rows in 5 M	1/200	TALUKA	Ir.- UI.
Tobacco		1946-47	1951-52	5 x 5	1/400	TALUKA	

1	2	3	4	5	6	7
Isabgol	1964-65	1983-84	5 x 5	1/400	TALUKA	
7. HARYANA						
Paddy	1951-52	1957-58	5 x 5	1/400	TEHSIL	
Bajra	1952-53	1952-53	5 x 5	1/400	TEHSIL	
Maize	1952-53	1952-53	5 x 5	1/400	TEHSIL	
Wheat	1943-44	1951-52	5 x 5	1/400	TEHSIL	
Barley	1951-52	1956-57	5 x 5	1/400	TEHSIL	
Gram	1951-52	1951-52	5 x 5	1/400	TEHSIL	
Redgram	2004-05	2004-05	5 x 5	1/400	TEHSIL	
Sugarcane	1951-52	1961-62	5 x 5	1/400	TEHSIL	
Rape & Mustard	1951-52	1968-69	5 x 5	1/400	TEHSIL	
Sunflower	2002-03	2002-03	5 x 5	1/400	TEHSIL	
Cotton	1951-52	1996-97	5 x 5	1/400	TEHSIL	
8. HIMACHAL PRADESH						
Paddy	1952-53	1953-54	10 x 2	1/500	KANUNGO CIRCLE	
Maize	1952-53	1959-60	10 x 2	1/500	KANUNGO CIRCLE	
Wheat	1951-52	1953-54	10 x 2	1/500	KANUNGO CIRCLE	
Barley	1960-61	1964-65	10 x 2	1/500	KANUNGO CIRCLE	
9. JAMMU & KASHMIR						
Paddy	Plain & Hill	1958-59	1963-64	10 x 5	1/200	TEHSIL
Maize	Plain & Hill	1958-59	1963-64	10 x 5	1/200	TEHSIL
Wheat	Plain & Hill	1958-59	1963-64	10 x 5	1/200	TEHSIL
Potato	Kh.	2003-04	2003-04	N.A	N.A	TEHSIL
	Rabi	2003-04	2003-04	N.A	N.A	TEHSIL
Saffron		1969-70	**	4 x 4	1/625	TEHSIL
Rape & Mustard		1969-70	**	10 x 5	1/200	TEHSIL
Linseed		1969-70	**	10 x 5	1/200	TEHSIL
10. JHARKHAND						
Paddy	Agh.	2001-02	2001-02	10 x 5	1/200	ANCHAL Hyv. & Lv.

1	2	3	4	5	6	7
	Bha.	2002-03	2002-03	10 x 5	1/200	ANCHAL
Maize	Bha.	2002-03	2002-03	10 x 5	1/200	ANCHAL
Ragi		2002-03	2002-03	10 x 5	1/200	ANCHAL
Wheat		2001-02	2001-02	10 x 5	1/200	ANCHAL
Barley		2001-02	2001-02	10 x 5	1/200	ANCHAL
Gram		2001-02	2001-02	10 x 5	1/200	ANCHAL
Tur		2001-02	2001-02	10 x 5	1/200	ANCHAL
Masur		2001-02	2001-02	10 x 5	1/200	ANCHAL
Sugarcane	Bha.	2002-03	2002-03	10 x 5	1/200	ANCHAL
Potato	Agh.	2001-02	2001-02	5 x 5	1/400	ANCHAL
	Rabi	2001-02	2001-02	5 x 5	1/400	ANCHAL
Onion	Rabi	2005-06	2005-06	5 x 5	1/400	ANCHAL
Brinjal	Agh.	2003-04	2003-04	5 x 5	1/400	ANCHAL
	Rabi	2001-02	2001-02	5 x 5	1/400	ANCHAL
Tomato	Agh.	2001-02	2001-02	5 x 5	1/400	ANCHAL
	Rabi	2003-04	2003-04	5 x 5	1/400	ANCHAL
Rape & Mustard		2001-02	2001-02	5 x 5	1/400	ANCHAL
11. KARNATAKA						
Paddy	Kh.	1945-46	1945-46	5 x 5	1/400	TALUK
	Rabi	1970-71	1970-71	5 x 5	1/400	TALUK
Jowar	Sum.	1970-71	1970-71	5 x 5	1/400	TALUK
	Kh.	1945-46	1945-46	5 x 5	1/400	TALUK
Jowar	Rabi	1945-46	1945-46	5 x 5	1/400	TALUK
Bajra	Kh.	1946-47	1946-47	5 x 5	1/400	TALUK
Maize	Kh.	1970-71	1970-71	5 x 5	1/400	TALUK
	Rabi	1970-71	1970-71	5 x 5	1/400	TALUK
	Sum.	1970-71	1970-71	5 x 5	1/400	TALUK
Ragi	Kh.	1950-51	1950-51	5 x 5	1/400	TALUK
	Rabi	1984-85	1984-85	5 x 5	1/400	TALUK
	Sum.	1975-76	1977-78	5 x 5	1/400	TALUK
Wheat	Rabi	1945-46	1945-46	5 x 5	1/400	TALUK
Gram	Rabi	1951-52	1951-52	5 x 5	1/400	TALUK

1		2	3	4	5	6	7
Redgram	Kh.	1957-58	1957-58	10 x 5	1/200	TALUK	Trad.(Ir./ UI)
Greengram	Kh.	1971-72	1971-72	5 x 5	1/400	TALUK	
	Rabi	1981-82	1981-82	5 x 5	1/400	TALUK	
Blackgram	Kh.	1971-72	1971-72	5 x 5	1/400	TALUK	
	Rabi	1981-82	1981-82	5 x 5	1/400	TALUK	
Horsegram	Kh.	1970-71	1970-71	5 x 5	1/400	TALUK	
	Rabi	1981-82	1981-82	5 x 5	1/400	TALUK	
Soyabean	Kh.	1991-92	1991-92	5 x 5	1/400	TALUK	Ir.- UI.
Save	Kh.	1971-72	1971-72	5 x 5	1/400	TALUK	
Sugarcane	Annual	1958-59	1958-59	5 x 5	1/400	TALUK	
Chillies	Kh.	2002-03	2002-03	5 x 5	1/400	TALUK	Ir.- UI.
Potato	Kh.	2000-01	2000-01	5 x 5	1/400	TALUK	Ir.- UI.
	Rabi	2000-01	2000-01	5 x 5	1/400	TALUK	
Onion	Kh.	2000-01	2000-01	5 x 5	1/400	TALUK	Ir.- UI.
	Rabi	2000-01	2000-01	5 x 5	1/400	TALUK	
	Sum.	2007-08	2007-08	5 x 5	1/400	TALUK	
Groundnut	Kh.	1957-58	1957-58	5 x 5	1/400	TALUK	Ir.- UI.
	Sum.	1970-71	1970-71	5 x 5	1/400	TALUK	Ir.- UI.
	Rabi	2005-06	2005-06	5 x 5	1/400	TALUK	UI.
Sesamum	Kh.	1957-58	1957-58	5 x 5	1/400	TALUK	
Castor Linseed	Kh.	1957-58	1957-58	10 x 5	1/200	TALUK	
	Rabi	1957-58	1957-58	5 x 5	1/400	TALUK	
Safflower	Rabi	1977-78	1977-78	5 x 5	1/400	TALUK	
Sunflower	Kh.	1978-79	1978-79	10 x 5	1/200	TALUK	Ir.- UI.
	Rabi	1988-89	1988-89	10 x 5	1/200	TALUK	Ir.- UI.
	Sum.	1988-89	1988-89	10 x 5	1/200	TALUK	Ir.
Cotton	Annual	1957-58	1957-58	10 x 5	1/200	TALUK	Ir.- UI.
Tobacco	Annual	1971-72	1971-72	10 x 5	1/200	TALUK	Ir.- UI.
Avare	Kh.	2007-08	2007-08	5 x 5	1/400	TALUK	
Cowpea	Kh.	2007-08	2007-08	5 x 5	1/400	TALUK	
12. Kerala *							
Paddy	Aut.	1950-51	1950-51	5 x 5	1/400	TALUKA	
	Wint.	1950-51	1950-51	5 x 5	1/400	TALUKA	
	Sum.	1950-51	1950-51	5 x 5	1/400	TALUKA	
Sugarcane		1982-83	1982-83	5 x 5	1/400	TALUKA	
Arecanut		1976-77	1976-77	5 bearing trees	—	TALUKA	

1	2	3	4	5	6	7
Cashewnut	1976-77	1976-77	5 bearing trees	—	TALUKA	
Turmeric	1989-90	1989-90	2 x 2	1/2500	TALUKA	
Pepper	1976-77	1976-77	5 bearing trees	—	TALUKA	
Ginger	2004-05	2004-05	N.A.	N.A.	TALUKA	
Cocoa	1982-83	1982-83	5 bearing trees	—	TALUKA	
Banana	1985-86	1985-86	3 plants	—	TALUKA	
Mango	2004-05	2004-05	N.A.	N.A.	TALUKA	
Jackfruit	1988-89	1988-89	2 bearing trees	—	TALUKA	
Pine Apple	1981-82	1981-82	5 bearing trees	—	TALUKA	
Plantain	1986-87	1986-87	3 pits	—	TALUKA	
Tapioca	1963-64	1963-64	2 x 2	1/2500	TALUKA	
Coconut	1976-77	1976-77	5 bearing trees	—	TALUKA	
Sesamum	1984-85	1984-85	5 x 5	1/400	TALUKA	

13. MADHYA PRADESH

Paddy	1945-46	1955-56	5 x 5	1/400	R.I. CIRCLE	Ir.(Hyv./Lv.) & UI.
Jowar	1946-47	1955-56	5 x 5	1/400	R.I. CIRCLE	
Bajra	1954-55	1956-57	5 x 5	1/400	R.I. CIRCLE	Ir.(Hyv./Lv.) & UI.
Maize	1952-53	1957-58	5 x 5	1/400	R.I. CIRCLE	
Wheat	1944-45	1957-58	5 x 5	1/400	R.I. CIRCLE	Ir.(Hyv./Lv.) & UI.
Barley	1951-52	1957-58	5 x 5	1/400	R.I. CIRCLE	
Gram	1950-51	1955-56	5 x 5	1/400	R.I. CIRCLE	
Tur	1950-51	1957-58	10 x 5	1/200	R.I. CIRCLE	
Lakh	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Soyabean	1980-81	1983-84	5 x 5	1/400	R.I. CIRCLE	
Kodon Kutki	1950-51	1955-56	5 x 5	1/400	R.I. CIRCLE	
Chillies	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	

1	2	3	4	5	6	7
Banana	1957-58	1957-58	25 trees	—	TALUKA	
Potato	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Onion	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Papaya	1957-58	1957-58	25 trees	-	TALUKA	
Groundnut	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Sesamum	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Rape & Mustard	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Linseed	1957-58	1957-58	5 x 5	1/400	R.I. CIRCLE	
Cotton	1944-45	1957-58	10 M x 11 Rows	-	R.I. CIRCLE	

14. MAHARASHTRA

Paddy	Kh.	1945-46	1952-53	10 x 10	1/100	TEHSIL	Ir./UI./Comp.
				10 x 5	1/200		
	Sum.	1984-85	1993-94	10 x 10	1/100	TEHSIL	
				10 x 5	1/200		
Jowar	Kh.	1946-47	1952-53	10 x 10	1/100	TEHSIL	
Jowar	Rabi	1945-46	1952-53	10 x 10	1/100	TEHSIL	Ir./UI.
Bajra		1946-47	1958-59	10 x 10	1/100	TEHSIL	Ir./UI./Comp.
Maize	Kh.	1976-77	1958-59	10 x 10	1/100	TEHSIL	
	Rabi	1990-91	-	10 x 10	1/100	TEHSIL	
Ragi		1946-47	1951-52	10 x 5	1/200	TEHSIL	
Wheat		1945-46	1951-52	10 x 10	1/100	TEHSIL	Ir./UI.
Gram		1946-47	1957-58	10 x 10	1/100	TEHSIL	
Tur		1951-52	1967-68	20 x 10	1/50	TEHSIL	
Greengram		2001-02	2001-02	N.A.	N.A.	TEHSIL	
Blackgram		2001-02	2001-02	N.A.	N.A.	TEHSIL	
Sugarcane		1959-60	1964-65	5 x 5	1/400	TEHSIL	
Arecanut		1959-60	1959-60	Cluster of 9 palms	—	TEHSIL	
Cashewnut		1967-68	1967-68	Cluster of 6 trees	1/100	TEHSIL	
Groundnut	Kh.	1946-47	1957-58	10 x 10	1/100	TEHSIL	
	Sum.	2001-02	2001-02	10 x 10	1/100	TEHSIL	
Sesamum	Kh.	1959-60	1960-61	10 x 10	1/100	TEHSIL	
	Rabi	1959-60	1960-61	10 x 10	1/100	TEHSIL	
Linseed		1959-60	1970-71	10 x 10	1/100	TEHSIL	
Safflower		1966-67	1966-67	10 x 10	1/100	TEHSIL	

1	2	3	4	5	6	7
Sunflower	Kh.	1983-84	1992-93	10 x 10	1/100	TEHSIL
	Sum	1989-90	1993-94	10 x 10	1/100	TEHSIL
	Rabi	N.A.	N. A.	10 x 10	1/100	TEHSIL
Coconut		1959-60	1959-60	Cluster of 6 palms	—	TEHSIL
Niger		1966-67	1975-76	10 x 10	1/100	TEHSIL
Soyabean		2001-02	2001-02	N. A.	N. A.	TEHSIL
Cotton		1946-47	1957-58	20 x 10	1/50	TEHSIL Ir./UI./Comp.
Tobacco		1951-52	1958-59	10 x 10	1/100	TEHSIL

15. MEGHALAYA

Paddy	Aut.	1971-72	1973-74	5 x 5	1/400	DISTRICT
	Wint	1971-72	1973-74	5 x 5	1/400	DISTRICT
Potato	Sum.	1973-74	1977-78	NOT FIXED	—	DISTRICT
Jute		1973-74	Not adopted	5 x 5	1/400	DISTRICT

16. ODISHA

Paddy	Aut.	1944-45	1959-60	5 x 5	1/400	C.D.BLOCK
	Wint.	1944-45	1959-60	5 x 5	1/400	C.D.BLOCK
	Sum.	1963-64	1963-64	5 x 5	1/400	C.D.BLOCK
Maize	Aut.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Ragi	Aut.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Wheat	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Greengram	Aut.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Blackgram	Aut.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Horsegram	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Sugarcane	Wint.	1976-77	1990-91	5 x 5	1/400	C.D.BLOCK
Potato	Wint.	1967-68	1967-68	5 Mx 8 rows.	-	C.D.BLOCK
Groundnut	Aut.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
	Sum.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
Sesamum	Aut.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
	Wint.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK

1	2	3	4	5	6	7
	Sum.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
Rape & Mustard	Wint.	1967-68	1990-91	5 x 5	1/400	C.D.BLOCK
Jute	Aut.	1957-58	1959-60	5 x 5	1/400	C.D.BLOCK
17. PUNJAB						
Paddy		1951-52	1957-58	5 x 5	1/400	C.D.BLOCK
Maize		1952-53	1952-53	5 x 5	1/400	C.D.BLOCK
Wheat		1943-44	1951-52	5 x 5	1/400	C.D.BLOCK
Barley		1951-52	1956-57	5 x 5	1/400	C.D.BLOCK
Gram		1951-52	1951-52	5 x 5	1/400	C.D.BLOCK
Sugarcane		1958-59	1961-62	5 x 5	1/400	C.D.BLOCK
Rape & Mustard		1958-59	1972-73	5 x 5	1/400	C.D.BLOCK
Cotton		1958-59	1979-80	10 x 5	1/200	C.D. BLOCK
18. RAJASTHAN						
Paddy		1976-77	1976-77	5 x 5	1/400	TEHSIL
Jowar		1952-53	1953-54	5 x 5	1/400	TEHSIL
Bajra		1952-53	1956-57	5 x 5	1/400	TEHSIL
Maize	Kh.	1952-53	1953-54	5 x 5	1/400	TEHSIL
Wheat		1949-50	1952-53	5 x 5	1/400	TEHSIL
Barley		1951-52	1953-54	5 x 5	1/400	TEHSIL
Gram		1951-52	1956-57	5 x 5	1/400	TEHSIL
Greengram		1994-95	1994-95	5 x 5	1/400	TEHSIL
Blackgram		1994-95	1994-95	5 x 5	1/400	TEHSIL
Moth		1994-95	1994-95	5 x 5	1/400	TEHSIL
Chowla		1994-95	1994-95	5 x 5	1/400	TEHSIL
Masur		1997-98	1997-98	5 x 5	1/400	TEHSIL
Cumin Seed		1997-98	1998-99	5 x 5	1/400	TEHSIL
Corinder		1997-98	1998-99	5 x 5	1/400	TEHSIL
Methi		1997-98	1998-99	5 x 5	1/400	TEHSIL
Soyabean		1988-89	1988-89	5 x 5	1/400	TEHSIL
Sugarcane		1970-71	1970-71	5 x 5	1/400	TEHSIL

1	2	3	4	5	6	7
Groundnut	1970-71	1970-71	5 x 5	1/400	TEHSIL	
Sesamum	1957-58	1957-58	5 x 5	1/400	TEHSIL	
Rape & Mustard	1957-58	1957-58	5 x 5	1/400	TEHSIL	Ir./UI./Comp
Linseed	1957-58	1958-59	5 x 5	1/400	TEHSIL	
Tara Meera	1997-98	1998-99	5 x 5	1/400	TEHSIL	
Cotton	1953-54	1956-57	10 x 5	1/200	TEHSIL	
Isabgol	1997-98	1998-99	5 x 5	1/400	TEHSIL	
19. TAMIL NADU						
Paddy	K/K/S	1944-45	1955-56	5 x 5	1/400	BLOCK
	S/T/P	1944-45	1955-56	5 x 5	1/400	BLOCK
	N/K	1985-86	1985-86	5 x 5	1/400	BLOCK
Jowar		1950-51	1955-56	5 x 5	1/400	BLOCK
						Ir./UI.
Bajra		1950-51	1955-56	5 x 5	1/400	BLOCK
						Ir./UI.
Ragi		1950-51	1955-56	5 x 5	1/400	BLOCK
						Ir./UI.
Redgram		1976-77	1976-77	10 x 5	1/200	BLOCK
Greengram		1977-78	1977-78	10 x 5	1/200	BLOCK
Blackgram		1976-77	1976-77	10 x 5	1/200	BLOCK
Horsegram		1986-87	1986-87	10 x 5	1/200	BLOCK
Sugarcane		1954-55	1964-65	5 x 5	1/400	BLOCK
Groundnut		1959-60	1973-74	5 x 5	1/400	BLOCK
						Ir./UI.
Sesamum		1973-74	1973-74	10 x 5	1/200	BLOCK
						Ir./UI.
Cotton		1959-60	1964-65	10 x 5	1/200	BLOCK
Sunflower		1983-84	1983-84	10 x 5	1/200	BLOCK
						Ir./UI.
Varagu		1986-87	1986-87	5 x 5	1/400	BLOCK
Samai		1986-87	1986-87	5 x 5	1/400	BLOCK
20. UTTAR PRADESH						
Paddy		1945-46	1950-51	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Jowar		1950-51	1950-51	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Bajra		1950-51	1950-51	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK

1	2	3	4	5	6	7
Maize		1950-51	1950-51	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Wheat		1943-44	1949-50	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Barley		1949-50	1949-50	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Gram	Plain	1949-50	1949-50	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Tur/Arhar		1950-51	1950-51	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Greengram	Kh.	1965-66	1965-66	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
	Zaid.	1978-79	not adopted	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Blackgram	Kh.	1965-66	1965-66	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
	Zaid.	N.A.	N.A.	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Masur		1964-65	1964-65	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Peas		1959-60	1959-60	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Sawan / Jhongora	Kh.	1976-77	1976-77	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
	Zaid	1976-77	1976-77	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Kodan		1978-79	N. A.	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Soyabean		1988-89	Not adopted	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Potato		1979-80	1979-80	5 x 5	1/400	BLOCK
Onion	Zaid	1958-59	1959-60	5 x 5	1/400	BLOCK

1	2	3	4	5	6	7
Sugarcane	Rabi	2005-06 1959-60	2005-06 1960-61	5 x 5 5 x 5	1/400 1/400	BLOCK BLOCK
Groundnut		1956-57	1957-58	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Rape & Mustard		1956-57	1957-58	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Linseed		1959-60	1959-60	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Sesamum		1958-59	1959-60	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Sunflower	Zaid	1991-92	1991-92	Equilateral Triangle of side 10 mts.	1/230.8	BLOCK
Cotton		1958-59	1960-61	20 x 10	1/50	BLOCK
Tobacco	Rabi	1988-89	-	5 x 5	1/400	BLOCK
	Zaid	N.A.	N.A.	5 x 5	1/400	BLOCK

21. UTTARAKHAND

Paddy		1945-46	1950-51	Equilateral Triangle of side 10 mts. In Plain area and 30 Sq.mt in Hill Area.	1/230.8	TEHSIL
Ragi		1945-46.	1950-51	Equilateral Triangle of side 10 mts. In Plain area and 30 Sq.mt in Hill Area.	1/230.8	TEHSIL
Wheat		1945-46	1950-51	Equilateral Triangle of side 10 mts. In Plain area and 30 Sq.mt in Hill Area.	1/230.8	TEHSIL
Barley		1945-46	1950-51	Equilateral Triangle of side 10 mts. In Plain area and 30 Sq.mt in Hill Area.	1/230.8	TEHSIL
Sawan/Jhangora		1945-46	1950-51	Equilateral Triangle of side 10 mts. In Plain area and 30 Sq.mt in Hill Area.	1/230.8	TEHSIL

1	2	3	4	5	6	7
side 10 mts.						
22.WEST BENGAL						
Paddy	Aus.	1975-76	1975-76	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
	Aman.	1944-45	1944-45	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
	Sum.	1980-81	1980-81	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Maize	Kh.	1980-81	1980-81	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Wheat		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Barley		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Gram		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Redgram		1951-52	1951-52	10 x 10 feet	1/435.6 acres	BLOCK
Greengram		1951-52	1951-52	10 x 10 feet	1/435.6 acres	BLOCK
Blackgram		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Lakh		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Masur		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Peas		1951-52	1951-52	Circle of	1/435.6	BLOCK

1	2	3	4	5	6	7
			radius of 1.7145 mts. approx.	acres		
Sugarcane		1951-52	1951-52	10 x 10 feet	1/435.6 acres	BLOCK
Rape & Mustard		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Sesamum	Rabi	1980-81	1980-81	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Linseed		1952-53	1952-53	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Jute		1951-52	1951-52	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
Mesta		1980-81	1980-81	Circle of radius of 1.7145 mts. approx.	1/435.6 acres	BLOCK
23. DADRA & NAGAR HAVELI						
Paddy		1967-68	1967-68	5 x 5	1/400	PATELAD
Ragi		1968-69	1968-69	5 x 5	1/400	PATELAD
24. DAMAN & DIU						
Paddy	Kh.	1967-68	1967-68	5 x 5	1/400	TALUKA
Bajra		1976-77	1976-77	5 x 5	1/400	TALUKA
25. PUDUCHERRY						
Paddy	I.	1974-75	1974-75	5 x 5	1/400	TALUKA
	II.	1971-72	1971-72	5 x 5	1/400	TALUKA
	III.	1974-75	1974-75	5 x 5	1/400	TALUKA

Note 1. : ** :- In actual practice results are not adopted for official estimates due to small sample size and considered not reliable at district level

2. : * :- For minor crops, surveys are conducted periodically but not regularly

3. : @ :- Excluding Darjeeling district

APPENDIX - II : CROP COVERAGE UNDER CES DURING 2014-15

Sl.No	CROPS	STATES COVERING THE CROP UNDER C.E.S.
1.	2.	3.

I. FOOD CROPS

(A) CEREALS

1.	Paddy	Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttarakhand, Uttar Pradesh, West Bengal, Dadra & Nagar Haveli, Daman & Diu and Puducherry. (25)
2.	Jowar	Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu and Uttar Pradesh. (9)
3.	Bajra	Andhra Pradesh, Gujarat, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh and Daman & Diu. (10)
4.	Maize	Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, TamilNadu, Uttar Pradesh and West Bengal. (17)
5.	Ragi (Mandua)	Andhra Pradesh, Bihar, Goa, Gujarat, Jharkhand, Karnataka, Maharashtra, Odisha, Tamil Nadu, Uttarakhand and Dadra & Nagar Haveli. (11)
6.	Wheat	Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Uttarakhand, Uttar Pradesh and West Bengal. (17)
7.	Barley	Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Madhya Pradesh, Punjab, Rajasthan, Uttarakhand and Uttar Pradesh. (9)

(B) PULSES & BEANS

1.	Gram (Bengalgram)	Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Uttar Pradesh and West Bengal. (13)
2.	Redgram (Tur/Arhar)	Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh and West Bengal. (12)

1.	2.	3.
3.	Greengram (Moong)	Andhra Pradesh, Bihar, Gujarat (on pilot basis), Karnataka, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal. (10)
4.	Blackgram (Urd/Mathikalai)	Andhra Pradesh, Assam, Gujarat ,Karnataka, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal. (10)
5.	Lakh (Khesari)	Bihar, Chhattisgarh, Madhya Pradesh and West Bengal. (4)
6.	Masur	Bihar, Jharkhand, Rajasthan, Uttar Pradesh and West Bengal. (5)
7.	Horsegram (Kulthi)	Andhra Pradesh, Karnataka, Odisha and Tamil Nadu. (4)
8.	Peas	Uttar Pradesh and West Bengal. (2)
9.	Moth	Gujarat and Rajasthan. (2)
10.	Chowla	Rajasthan. (1)
11.	Cowpea (Lobia)	Karnataka (1)
12.	Guar	Gujarat and Rajasthan (2)
(C) SMALL MILLETS		
1.	Sawan (Jhangora)	Uttarakhand, Uttar Pradesh. (2)
2.	Korra	Andhra Pradesh. (1)
3.	Kodon-Kutki (Kodan)	Chhattisgarh, Madhya Pradesh and Uttar Pradesh. (3)
4.	Navane	Karnataka. (1)
5.	Save	Karnataka. (1)
6.	Samai	Tamil Nadu (1)
7.	Varagu	Tamil Nadu. (1)
(D) SUGAR		
1.	Sugarcane	Andhra Pradesh ,Assam, Bihar, Haryana ,Jharkhand , Karnataka, Kerala, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh ,West Bengal and Goa. (15)

1.	2.	3.
2.	Cocoa	Kerala. (1)
(E) CONDIMENTS & SPICES		
1.	Chillies	Andhra Pradesh, Bihar, Chhattisgarh, Karnataka and Madhya Pradesh. (5)
2.	Cumin	Gujarat and Rajasthan. (2)
3.	Fennel	Gujarat. (1)
4.	Arecanut	Kerala and Maharashtra. (2)
5.	Pepper	Kerala. (1)
6.	Saffron	Jammu and Kashmir. (1)
7.	Turmeric	Kerala. (1)
8.	Ginger	Kerala. (1)
9.	Garlic	Gujarat (1)
10.	Corinder	Rajasthan. (1)
11.	Methi	Rajasthan. (1)
(F) FRUITS & VEGETABLES		
1.	Lichi	Bihar (1)
2.	Banana	Bihar, Kerala and Madhya Pradesh. (3)
3.	Mango	Bihar. Kerala (2)
4.	Guava	Bihar. (1)
5.	Jackfruit	Bihar and Kerala . (2)
6.	Cashewnut	Kerala and Maharashtra (2)
7.	Tapioca	Kerala. (1)
8.	Pine Apple	Kerala. (1)
9.	Potato	Assam, Bihar, Chhattisgarh, Gujarat, Jammu & Kashmir Jharkhand, Karnataka, Madhya Pradesh, Meghalaya, Odisha, and Uttar - Pradesh (11)

1.	2.	3.
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10.	Onion	Bihar, Chhattisgarh, Gujarat (On Pilot basis), Jharkhand, Karnataka, Madhya Pradesh and Uttar Pradesh. (7)
11.	Brinjal	Bihar and Jharkhand. (2)
12.	Tomato	Bihar and Jharkhand. (2)
13.	Cauliflower	Bihar. (1)
14.	Papaya	Madhya Pradesh. (1)
15.	Plantain	Kerala. (1)
16.	Avare (Sem)	Karnataka (1)

(A) OIL SEEDS		II. NON - FOOD CROPS.
1.	Groundnut	Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Goa and West Bengal. (12)
2.	Sesamum (Gingelly)	Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal. (12)
3.	Castor	Andhra Pradesh, Gujarat and Karnataka (3)

4.	Rape & Mustard	Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Jammu & Kashmir, Jharkhand, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and West Bengal (13)
5.	Linseed (Alsi)	Chhattisgarh, Jammu & Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Uttar Pradesh and West Bengal. (7)
6.	Safflower	Karnataka and Maharashtra. (2)
7.	Sunflower	Andhra Pradesh, Haryana, Karnataka, Maharashtra, Tamil Nadu and Uttar Pradesh (6)
8.	Soyabean	Andhra Pradesh, Chhattisgarh, Karnataka, Madhya Pradesh, (4)
		Maharashtra, Rajasthan and Uttar Pradesh. (7)

1.	2.	3.
9.	Tara Meera	Rajasthan (1)
10.	Coconut	Kerala and Maharashtra (2)
11.	Niger	Maharashtra (1)
(B) FIBRES		
1.	Cotton	Andhra Pradesh, Gujarat, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu and Uttar Pradesh (10)
2.	Jute	Assam, Bihar, Meghalaya, Odisha and West Bengal. (5)
3.	Mesta	Andhra Pradesh, Bihar and West Bengal (3)
(C) DRUGS & NARCOTICS		
1.	Tobacco	Andhra Pradesh, Gujarat, Karnataka, Maharashtra and Uttar Pradesh (5)
2.	Isabgol	Gujarat and Rajasthan (2)

Note:- Figures within brackets in col.(3) indicate the total no. of States.

**APPENDIX - III: PRIMARY FIELD AGENCY FOR CROP CUTTING
EXPERIMENTS UNDER CES 2014-15**

Sl. No.	State	Agency	Designation	Crops covered (Percentage)
1	2	3	4	5
1.	Andhra Pradesh	1. Statistical	1. Assistant Statistical Officer	All Crops 50 %.
		2.Agriculture	2. Agriculture Extension Officer	All Crops 50 %.
2.	Assam	Statistical	Field Assistant	All Crops. (100%)
3.	Bihar	1. Revenue	Circle Inspector	14.90 Percent of the planned experiments.
		2. Statistical	1. Block Statistical Supervisor. 2 Junior Field Investigator 3 Accredited Statistical Volunteer	77.6 Percent of the planned experiments.
		3.Agriculture	Block Agricultural Officer.	7.50 Percent of the planned experiments.
4.	Chhattisgarh	1. Revenue	1. Revenue Inspector	All Crops (58%)
		2. Agriculture	1.. Headquarter Patwari 2. Rural Agriculture Extension Officer	All Crops (42%)
5.	Goa	Agriculture	Investigator	All Crops.
6.	Gujarat	Agriculture	Gram Sevak	All Crops
7.	Haryana	1.Agricultural	Asstt. Development Officer.	Paddy (100), Bajra (100), Maize (47), Sugarcane (100), Cotton (100), Wheat (100), Gram (100), Redgram (100), Rape & Mustard (100)

1	2	3	4	5
				and Sunflower (100) , Barley (47)
		2. Revenue	Girdawar Kanungo	Barley (53) and Maize (53).
8.	Himachal Pradesh	1. Revenue	Field Kanungo	All Crops – 77.55
		2. Agriculture	Agricultural Inspector	All Crops – 22.45
9.	Jammu & Kashmir (Data repeated for the year 2011-12)	Revenue	1. Office Qanungo 2. Girdawar Qanungo 3. Backward Class Girdawar 4. Statistical Girdawar 5 Patwari	76 % 24 %
10.	Jharkhand (Data repeated for the year 2019-10)	1. Agriculture	Block Agriculture Officer	All Crops (25%)
		2. Statistics	Block Statistical Supervisor	All Crops (25%)
		3. Revenue	Circle Inspector	All Crops (50%)
11.	Karnataka	1. Revenue	Village Accountant	52%
		2. Agriculture	Agriculture Asstt.	34%
		3. Rural Development & Panchayati Raj	Gram Panchayat Secretary	14%
12.	Kerala	Statistical	Investigator	All Crops
13.	Madhya Pradesh	Revenue	1. Revenue Inspector	All Crops (97.04%)

1	2	3	4	5
2. Headquarter Patwari				
14.	Maharashtra (data repeated for the year 2010-11)	1. Revenue	Revenue Inspector	All Kharif & Rabi Crops (40) %
		2. Zila Parishad	Gram Sevak	All Kharif & Rabi Crops (25) %
		3. Agricultural	Agricultural Assistant	All Kharif & Rabi Crops (35) %
15.	Meghalaya	Statistical	Field Assistant	All Crops.
16.	Odisha	Directorate of Economics & Statistics	Statistical Field Surveyor	All Crops.
17.	Punjab	Agricultural	1. Agricultural Inspector 2. Compost Inspector	All Crops
18.	Rajasthan	Revenue	Inspector Land Records	All Crops
19.	Tamil Nadu	1. Agricultural Department	Agricultural Officer	

1	2	3	4	5
		(GCES,NAIS)		
		2.Statistical Department (GCES,NAIS)	Block Statistical Inspector	All Crops
		3.Horticulture Department (GCES,NAIS)	Assistant Horticulture Officer	
20.	Uttarakhand	Revenue	1. Patwari / Lekhpal 2. Revenue Inspector	All Crops (100%)
21.	Uttar Pradesh	1 .Revenue	Revenue Inspector	All Crops
		2. Cane Development	Cane Inspector	Sugarcane crop (only in factory areas)
		3.Cotton Development	Cotton Supervisor & Kamdar	Cotton Crop.
22.	West Bengal	1. Agricultural Statistics (B.A.E & S)	Asstt.Investigator	All Crops
		2. Agriculture Department	Krishi Prajukti Sahayak (K.P.S)	
23.	Dadra & Nagar Haveli	1. Block Deptt.	Gram Sewak	All Crops (36%)
		2. SDSCO	Agri. Asstt.	All Crops (49%)

1	2	3	4	5
		3. Agri. Deptt.	Agri. Asstt. (Agri.)	All Crops (15%)
24.	Daman & Diu	1. Revenue	Talathis	All Crops (50%)
		2. Statistical	Statistical Investigator	All Crops (22) %
		3. Rural Deptt.	(i) Gram Sevak	All Crops (21%)
			(ii) Village Panchayat Secretary	All Crops (7%)
25.	Puducherry	Directorate of Economics & Statistics	Statistical Investigator	All Crops

**APPENDIX -IV : WORK LOAD OF PRIMARY FIELD STAFF ON ACCOUNT OF
CROP CUTTING EXPERIMENTS UNDER CES DURING 2014-15**

Sl. No.	STATE	Agency for field work	Total Strength	Total number of Experiments assigned			No. of Primary workers with more than		
				Kharif	Rabi / Sum	Total	12 Expts.		20 Expts.
							Kharif	Rabi/Sum	Annual
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Andhra Pradesh	Statistical	N.A.	12186	7528	19714	233	116	281
		Agriculture					143	53	
2	Assam	Statistical	N.A.	6300	4950	11250	198	169	196
3.	Bihar	Revenue	N.A.	87800	19786	107586	16	23	26
		Statistical					827	13	234
		Agriculture					3	2	2
4	Chhatisgarh	Statistical/Agriculture	2005	7650	5792	13442	124	101	70
5	Goa	Agriculture (Kh.)	16	353	270	623	16		16
		(Rabi)	21					21	21
6	Gujarat	Agriculture		10706	13490	24196			
7	Haryana	Agriculture (Kh.)	739	5036		5036	----- NC -----		
		(Rabi)			4578	4578			
		Revenue (Kh.)	672				----- NC -----		
		(Rabi)							
8	Himachal Pradesh	Agriculture (Kh.)	190	2560	2442	5002	----- NC -----		
		(Rabi)	168				----- NC -----		
		Revenue (Kh.)	190				----- NC -----		
		(Rabi)	168				----- NC -----		
9	Jammu & Kashmir #	Revenue (Kh.)	N.A.	2992		2992	----- NC -----		
		(Rabi)			2406	2406	----- NC -----		
10	Jharkhand	Revenue	N.A.	11700	12840	24540	----- NC -----		
		Statistical					----- NC -----		
		Agriculture					----- NC -----		
11	Karnataka	Revenue	7580	57894	32254	90148	----- NC -----		
		Agricultural	4520				----- NC -----		
		RDPR	5526				----- NC -----		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
12	Kerala	Statistical	1065	27417	1613	29030	0	0	811
13	Madhya Pradesh @	Revenue	5937	24206	26779	50985	1072	1275	1285
14	Maharashtra *	Revenue (Kh.)	913	24935	-	24935	----- NC -----		
		Zila Parishad (Kh.)		15585	-	15585	----- NC -----		
		Agriculture (Kh.)		21818	-	21818	----- NC -----		
		Revenue (Rabi)	1212	-	12108	12108	----- NC -----		
		Zila Parishad (Rabi)		-	7568	7568	----- NC -----		
		Agriculture (Rabi)		-	10594	10594	----- NC -----		
15	Meghalaya	Statistical	N.A.	1696	324	2020	43	21	43
16	Odisha	Statistical	456	36015	11490	47505	-	-	456
17	Punjab	Agriculture (Kh.)	656	3704		3704	-	-	-
		(Rabi)	645		3188	3188	-	-	-
18	Rajasthan @	Agriculture (Kh.)	2789	43254	49154	92408	-	-	-
		(Rabi)	2917				-	-	-
19	Tamil Nadu	Agriculture	N.A.	9180		9180	-	-	-
20.	Uttarakhand	Revenue (Kharif)	1801	4656	3622	8278	-	-	-
		Revenue (Plain)	1347						
		Revenue (Hills)	454						
21	Uttar Pradesh @	Revenue (Kh.)	873	300854	299504	600358	----- NC -----		
		(Rabi)	841				----- NC -----		
		(Zaid)	1113				----- NC -----		
		Cane Dev. Staff	-				----- NC -----		
		Cotton Dev. Staff					----- NC -----		
22	West Bengal	Agricultural Statistics	233	26583	30183	56766	218	233	171
23	Dadra & Nagar Haveli	Development & Planning	7	56	0	56	7	-	7
		Division Soil Conservation	10	76	0	76	10	-	10
		Agriculture Deptt.	3	24	0	24	3	-	3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
24	Daman & Diu	Rural Dev. (Kh.)	4	8	0	8	----- NC -----		
		Rev. Dept. (Kh.)	7	14	0	14	----- NC -----		
		Stat. Dept. (Kh.)	3	6	0	6	----- NC -----		
25	Puducherry	Statistical (Kh)	N.A.	88	0	88	----- NC -----		
		Rabi -I	11	0	140	140	-	10	-
		Rabi -II	7	0	70	70	----- NC -----		
Total			45099	745352	562673	1308025	2913	2027	3925
Percentage %							6.5	10.3	8.7

Note : 1. # : Percentage figures given under Col.8 , 9 and 10 are based on total figures in col. 4. Those states have been excluded for percentage calculation where data under column (8) to (10) has not been received.

2. * : Figures repeated for the year 2010-11 in the state of Maharashtra.

3. @ : Figures repeated for the year 2011-12 in column (4) and column (8) to (10) as no data was received for the year 2014-15.

4. # : Figures repeated for the year 2012-13.

APPENDIX - V ESTIMATION PROCEDURE UNDER CES

The methodology generally adopted for estimating the average yield of a crop and its sampling error is outlined below:

At the stratum level, the average yield of the crop is obtained as a simple arithmetic mean of plot yields (net) within it.

If

X_{ijk} = The plot yield (net) in gms/plot of the k^{th} plot in the j^{th} village in the i^{th} stratum

n_{ij} = No of experiments analysed in the j^{th} village of i^{th} stratum,

m_i = Number of villages in which experiments are analysed in the i^{th} stratum .

n_i = Number of experiments analysed in the i^{th} stratum

S = The number of strata in a district

a_i = The area (net) of the crop in the i^{th} stratum

$\bar{x}_{ij}$ = The sample arithmetic mean of the green yield of the i^{th} stratum,

$\bar{x}$ = The district average yield of the dry marketable produce

d = The driage ratio

and f = The conversion factor for converting the green yield per plot into the yield of dry marketable produce per hectare.

We have the stratum level average of the green yield as

$$\bar{x}_{ij} = \frac{1}{n_i} \sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} X_{ijk}$$

and the district level average yield of the dry marketable produce per hectare is given by

$$\bar{x} = d. f. \frac{\sum_{i=1}^S a_i \bar{x}_{ij}}{\sum_{i=1}^S a_i}$$

The sampling variance of the mean $\bar{x}$ is obtained as

$$V(\bar{x}) = \frac{d^2 \cdot f^2 \left[W \sum_{i=1}^S \frac{a_i^2}{n_i} + (B - W) \sum_{i=1}^S \frac{a_i^2 \sum_{j=1}^{m_i} n_{ij}^2}{\lambda_i n_i^2} \right]}{\left[\sum_{i=1}^S a_i \right]^2}$$

Where

$$\lambda_i = \frac{n_i^2 - \sum_{j=1}^{m_i} n_{ij}^2}{n_i - (m_i - 1)}$$

$$B = \frac{\sum_{i=1}^S \left[\sum_{j=1}^{m_i} \frac{(\sum_{k=1}^{n_{ij}} x_{ijk})^2}{n_{ij}} - \frac{(\sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} x_{ijk})^2}{n_i} \right]}{\sum_{i=1}^S (m_i - 1)}$$

the mean square between villages

$$W = \frac{\sum_{i=1}^s \left[\sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} x_{ijk}^2 - \sum_{j=1}^{m_i} \frac{\left(\sum_{k=1}^{n_{ij}} x_{ijk} \right)^2}{n_{ij}} \right]}{\sum_{i=1}^s (n_i - m_i)}$$

the mean square within villages

The percentage standard error is given by

$$\% SE (\bar{x}) = \frac{\sqrt{V(\bar{x})}}{\bar{x}} \times 100$$

Note:

- (i) In case the crop sown is pure, the net yield is the same as the actual yield obtained from the plot.
- (ii) If the crop is sown in mixture, then the net yield is obtained by dividing the actual yield by the eye estimate of the proportion of area occupied by the concerned crop as per the primary worker at time of crop cutting experiments.
- (iii) Net area under the crop in a stratum is the sum of the area under the pure crop and the apportioned area under the crop from all mixed crops having the crop as component, the apportionment being done at the field level on the basis of eye estimation at the time of area enumeration in some states and at district level in others on the basis of conventional ratio.

APPENDIX –VI : PROCEDURE FOR DRIAGE EXPERIMENTS UNDER CES 2014-15

Sl. No.	State	Crops	Contents of produce for <u>weighment</u>		Sub-sampling not done/done at the level of village/field/both	Sampling produce to be dried part (Weight) or whole	Duration of driage (Codes)	Level of Application Stratum/District/State
			First	Final				
1	2	3	4	5	6	7	8	9
1.	Andhra Pradesh	Paddy (Kh.& Rabi)	Wet Paddy	Dry paddy	Village	1 Kg.	C.W.	State
		Jowar (Kh.& Rabi)	Cobs	Dry Grain	Village	2 Kgs.	C.W.	State
		Bajra,	Cobs	Dry Grain	Village	2 Kgs.	C.W.	State
		Maize (Kh.& Rabi)	Cobs	Dry Grain	Village	2 Kgs.	C.W.	State
		Ragi (Kh.& Rabi)	Cobs	Dry Grain	Village	2 Kgs.	C.W.	State
		Korra	Cobs	Dry Grain	Village	2 Kgs.	C.W.	State
		Chillies (Kh.& Rabi)	Wet Chillies	Dry Chillies	Village	500 gms.	C.W.	State
		Castor	Wet Capsules	Dry Capsules	Village	500 gms.	C.W.	State
						Each Picking		
		Groundnut (Kh.& Rabi)	Green Pods	Dry Pods	Village	2 Kgs.	C.W.	State
2.	Assam	Sunflower (Kh.& Rabi)	Green Seed	Dry Seed	Village	500 gms.	C.W.	State
		Mesta	Wet Plants	Dry Fibre	Village	25 Kgs.	C.W.	State
		Paddy. (Aut.Wint. & Sum)	Wet Paddy	Dry paddy	Village	1 Kg.	C.W.	Stratum
		Wheat	Wet Grain	Dry Grain	Village	1 Kg.	C.W.	Stratum
		Blackgram	Wet Grain	Dry Grain	Village	1 Kg.	C.W.	Stratum
3.	Bihar	Rape & Mustard	Wet Grain	Dry Grain	Village	1 Kg.	C.W.	Stratum
		Jute	Wet Plants	Dry Fibre	Village	Whole	Weight Dry Fibre	Stratum
		Paddy(Bha.Agh.&Gar.)	Wet Paddy	Dry paddy	Village	Whole	15 days	District
		Maize(Bha.Rabi,.&Gar.)	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Ragi	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Wheat	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Barley	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Gram	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Redgram	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Greengram	Wet Grain	Dry Grain	Village	Whole	15 days	District
4.	Chhattisgarh	(Bha & Gar.)						
		Lakh	Wet Grain	Dry Grain	Village	Whole	15 days	District
		Masur	Wet Grain	Dry Grain	Village	Whole	15 days	District
		Rape & Mustard	Wet Grain	Dry Grain	Village	Whole	15 days	District
		Chillies	Wet Chillies	Dry chillies	Both	Whole	15 days	District
		Jute	Wet Plants	Dry Fibre	Village	Whole	17 days	District
		Mesta	Wet Plants	Dry Fibre	Village	Whole	17 days	District
		Paddy	Wet Paddy	Dry Paddy	Village	Whole	15 days	District
		Jowar	Cobs	Dry grain	Village	Whole	15 days	District
		Maize	Cobs	Dry grain	Village	Whole	15 days	District
		Wheat	Cobs	Dry grain	Village	Whole	15 days	District
		Barley	Cobs	Dry grain	Village	Whole	15 days	District
		Gram	Cobs	Dry grain	Village	Whole	15 days	District
		Kodan Kutki	Wet grain	Dry grain	Village	Whole	15 days	District
		Groundnut	Wet Pods	Dry Pods	Village	Whole	15 days	District

APPENDIX –VI (Contd...)

1	2	3	4	5	6	7	8	9
5.	Goa	Paddy (Kh.& Rabi)	Wet Paddy	Dry paddy	Village	5 Kgs.	10 to 15 days	Stratum
6.	Gujarat	Paddy (Kh.& Sum.)	Wet Paddy	Dry paddy	Not done	1 Kg.	Part	Stratum
		Jowar (Kh.& Rabi)	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
		Bajra (Kh.& Sum.)	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
		Maize	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
		Ragi Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum	
		Wheat	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
		Gram	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
		Groundnut(Kh.& Sum.)	Wet grain	Dry grain	Not done	1 Kg.	C.W.	Stratum
7.	Haryana	Paddy	Wet Paddy	Dry paddy	Not done	Whole	15 days	State
		Bajra	Cobs	Dry grain	Not done	Whole	22 days	State
		Maize	Cobs with sheath	Dry grain	Not done	Whole	22 days	State
		Wheat	Wet grain	Dry grain	Not done	Whole	15 days	State
		Barley	Wet grain	Dry grain	Not done	Whole	15 days	State
		Gram	Wet grain	Dry grain	Not done	Whole	15 days	State
		Rape & Mustard	Wet grain	Dry grain	Not done	Whole	15 days	State
8.	Himachal Pradesh	Paddy	Wet Paddy	Dry paddy	Village	Whole	15 days	State
		Maize	Cobs	Dry grain	Village	Whole	31 days	State
		Wheat	Wet grain	Dry grain	Village	Whole	15 days	State
		Barley	Wet grain	Dry grain	Village	Whole	15 days	State
9.	Jammu & Kashmir	Paddy	Wet Paddy	Dry Paddy	Village	2 kgs.	15 days	District
		Maize	Wet Cobs	Dry Cobs	Village	2 kgs	25 days	District
		Wheat	Wet grain	Dry grain	Village	2 kgs	15 days	District
		Saffron	Wet bristles	Dry bristles	Field	Whole	10 days	District
		Rape & Mustard	Wet grain	Dry grain	Village	1 kg	15 days	District
		Linseed	Wet grain	Dry grain	Village	1 kg	15 days	District
10.	Jharkhand	Paddy(.Agh.)	Wet Paddy	Dry paddy	Village	Whole	15 days	District
		Wheat	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Barley	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Gram	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Redgram	Wet Grain	Dry Grain	Village	Whole	31 days	District
		Masur	Wet Grain	Dry Grain	Village	Whole	15 days	District
		Rape & Mustard	Wet Grain	Dry Grain	Village	Whole	15 days	District
11.	Karnataka	Paddy (Kh.Rabi.&Sum.)	Wet Paddy	Dry paddy	Expts.	1 kg.	C.W.	District
		Jowar (Kh.Rabi.&Sum.)	Cobs	Dry grain	Expts.	1 kg.	C.W.	District
		Bajra (Kh.)	Cobs	Dry grain	Expts.	1 kg.	C.W.	District
		Maize(Kh.Rabi.&Sum.)	Cobs	Dry grain	Expts.	1 kg.	C.W.	District
		Ragi (Kh.Rabi.&Sum.)	Cobs	Dry grain	Expts.	1 kg.	C.W.	District
		Navane	Cobs	Dry grain	Expts.	1 kg.	C.W.	District
		Wheat	Wet grain	Dry grain	Expts.	1 kg.	C.W.	District
		Gram	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Redgram	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Greengram (Kh.& Rabi)	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Blackgram (Kh. &Rabi)	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Horsegram (Kh. &Rabi)	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Soyabean	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Sesamum	Plants	Dry grain	Expts.	1 kg.	C.W.	District
		Save	Plants	Dry grain	Expts.	1 kg.	C.W.-3	District
		Groundnut (Kh. &Sum.)	Wet pods	Dry grain	Expts.	1 kg.	C.W.-3	District
		Castor	Capsules	Dry seeds	Expts.	1 kg.	C.W.	District
		Linseed	Plants	Dry seeds	Expts.	1 kg.	C.W.	District

APPENDIX –VI (Contd...)

1	2	3	4	5	6	7	8	9
		Safflower	Plants	Dry seeds	Expts.	1 kg.	C.W.	District
		Sunflower(Kh.Rabi & Sum.)	Flower	Grain	Expts.	1 kg.	C.W.	District
		Tobacco	Green Leaves	Cured leaves	Expts.	1 kg.	C.W.	District
12. Kerala		Paddy(Aut.Wint.&Sum)	Wet Paddy	Dry paddy	Both	250 grms.	C.W.	District
13. Madhya Pradesh		Paddy	Wet Paddy	Dry Paddy	Village	Whole	15 days	District
		Jowar	Cobs	Dry grain	Village	Whole	15 days	District
		Bajra	Cobs	Dry grain	Village	Whole	15 days	District
		Maize	Cobs	Dry grain	Village	Whole	15 days	District
		Wheat	Cobs	Dry grain	Village	Whole	15 days	District
		Barley	Cobs	Dry grain	Village	Whole	15 days	District
		Gram	Cobs	Dry grain	Village	Whole	15 days	District
		Kodan Kutki	Wet grain	Dry grain	Village	Whole	15 days	District
		Groundnut	Wet Pods	Dry Pods	Village	Whole	15 days	District
14. Maharashtra		Paddy (Kh. & Sum.)	Wet Paddy	Dry Paddy	Village	5 kgs.	C.W.	District
		Jowar (Kh. & Rabi)	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Bajra	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Maize (Kh. & Rabi)	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Ragi	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Wheat	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Gram	Wet grain	Dry grain	Village	5 kgs.	C.W.	District
		Groundnut	Wet Pods	Dry Pods	Village	5 kgs.	15 days	District
		Areca nut	Asoli	Rotha	Village	5 Kgs.	21-28 days	District
		Cashewnut	Wet nut	Dry nut	Village	5 Kgs	C.W.	District
15. Meghalaya		Paddy (Aut. & Wint.)	Wet Paddy	Dry Paddy	Both	Whole.	7-10 days	District
		Jute	Wet Plants	Dry Fibre	Both	Whole	20-25 days	District
16. Odisha		Paddy (Aut.Wint.&Sum.)	Wet Paddy	Dry paddy	Both	1 kg.	C.W.	District
		Maize(Aut.Wint.&Sum.)	Cobs	Dry grain	Both	1 kg.	C.W.	State
		Ragi (Aut.Wint.&Sum.)	Pods	Dry grain	Both	1 kg.	C.W.	State
		Wheat (Sum.)	Wet grain	Dry grain	Both	1 kg.	C.W.	State
		Greengram (Aut.Wint.& Sum.)	Wet grain	Dry grain	Both	250 grms	C.W.	State
		Blackgram (Aut.Wint.&Sum.)	Wet grain	Dry grain	Both	250 grms	C.W.	State
		Horsegram(Wint.&Sum.)	Wet grain	Dry grain	Both	250 grms	C.W.	State
		Groundnut (Aut.Wint.&Sum.)	Wet Pods	Kernal	Both	250 grms	C.W.	State
		Sesamum (Aut.Wint.& Sum.)	Wet Pods	Dry grain	Both	250 grms	C.W.	State
		Rape & Mustard (Wint.)	Wet Pods	Dry grain	Both	250 grms	C.W.	State
		Jute	Wet Plants	Dry Fibre	Both	1 kg.	C.W.	State
17. Punjab		Paddy	Wet Paddy	Dry Paddy	Village	Whole	15 days	State
		Maize	Cobs with Sheath	Dry grain	Not done	5 kgs.	20 days	State
		Wheat	Wet grain	Dry grain	Village	Whole	15 days	State
		Barley	Wet grain	Dry grain	Village	Whole	15 days	State
		Gram	Wet grain	Dry grain	Village	Whole	15 days	State
		Rape & Mustard	Wet grain	Dry grain	Village	Whole	15 days	State
		Cotton	Wet Kapas	Dry Kapas	Village	Whole II Picking	15 days	State

APPENDIX –VI (Contd...)

1	2	3	4	5	6	7	8	9
18. Rajasthan	Paddy	Wet Paddy	Dry paddy	Not done	Whole	15 days	District	
	Jowar	Cobs	Dry grain	Village	Whole	22 days	District	
	Bajra	Cobs	Dry grain	Village	Whole	22 days	District	
	Maize (Kh. & Rabi)	Cobs	Dry grain	Village	Whole	22 days	District	
	Wheat	Wet grain	Dry grain	Village	Whole	15 days	District	
	Barley	Wet grain	Dry grain	Village	Whole	15 days	District	
	Gram	Wet grain	Dry grain	Village	Whole	15 days	District	
	Chowla						District	
	Greengram						District	
	Blackgram			N. A			District	
	Moth			.			District	
	Cumin						District	
	Soyabean	Wet grain	Dry grain	Village	Whole	15 days	District	
	Groundnut	Wet Pods	Dry Pods	Not done	Whole	15 days	District	
	Sesamum	Wet grain	Dry grain	Not done	Whole	15 days	District	
	Rape & Mustard	Wet grain	Dry grain	Not done	Whole	15 days	District	
	Linseed	Wet grain	Dry grain	Not done	Whole	15 days	District	
	Taramera	Wet grain	Dry grain	Not done	Whole	N.A.	District	
19. Tamil Nadu	Paddy (K/K/S., S/T/P, & N/K)	Wet Paddy	Dry Paddy	Village	2 kgs.	C.W.	Block	
	Bajra	Wet Cobs	Dry Cobs	Village	2 kgs.	C.W.	Block	
	Jowar	Wet Cobs	Dry Cobs	Village	2 kgs.	C.W.	Block	
	Ragi	Wet Cobs	Dry Cobs	Village	2 kgs.	C.W.	Block	
	Turmeric	Wet Turmeric	Dry Turmeric	Not done	1 kg.	C.W.	Taluka	
	Chillies	Wet Chillies	Dry Chillies	Not done	1 kg.	3 to 4 days	Taluka	
	Coriander	Wet Corinder	Dry corinder	Not done	1 kg	C.W.	Taluka	
	Varagu	Wet grain	Dry grain	Village	2 kgs.	C.W.	Block	
	Samai	Wet grain	Dry grain	Village	2 kgs.	C.W.	Block	
	Groundnut	Wet Pods	Dry Pods	Village	2 kgs.	C.W.	Block	
20. Uttar Pradesh	Paddy	Wet Paddy	Dry paddy	Village	5 kgs.	15 days	District	
	Jowar	Cobs	Dry grain	Village	10 kgs.	15 days	District	
	Bajra	Cobs	Dry grain	Village	10 kgs.	15 days	District	
	Maize	Cobs	Dry grain	Village	10 kgs.	15 days	District	
	Wet grain	Dry grain	Village	5 kgs.	15 days	District		
	Wheat (Pln.)	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Barley (Pln.)	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Gram	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Greengram(Kh.&Zaid.)	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Blackgram(Kh.&Zaid.)	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Masur	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Soyabean	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Peas	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Sawan / Jhangora (Pln)	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Kodan	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Kukti	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Tur	Pods	Dry grain	Village	5 kgs.	15 days	District	
	Groundnut	Pods	Dry Pods	Village	5 kgs.	15 days	District	
	Sesamum	Pods	Dry Pods	Village	10 kgs.	15 days	District	
	Rape & Mustard	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Linseed	Wet grain	Dry grain	Village	5 kgs.	15 days	District	
	Sunflower	N.A.	N.A.	N.A.	N.A.	N.A.	District	
	Cotton(Desi/American)	Wet Cotton	Dry Cotton	Expts.	Whole	Same day	District	
	Tobacco	Wet leaf & Stalk	Dry leaf & Stalk	Village	10 Kgs.	20 days	District	

APPENDIX –VI (Contd...)

1	2	3	4	5	6	7	8	9
21.	Uttarakhand	Paddy Wheat (Pln.) Barley (Pln.)	Wet Paddy Wet grain Wet grain	Dry paddy Dry grain Dry grain	Village Village Village	5 kgs. 5 kgs. 5 kgs.	15 days 15 days 15 days	District District District
22.	West Bengal	Paddy (Aus. Aman & Wheat Barley Maize Gram Redgram Blackgram Lakh Musar Peas Rape & Mustard Linseed Sesamum Jute Mesta	Wet Paddy Sum.) Ear heads Ear heads Ears without cover Pods Pods Pods Pods Pods Pods Seed buds Seed buds Plants Plants	Dry paddy Dry grain Dry grain Dry corns Seeds Seeds Seeds Seeds Seeds Seeds Seeds Dry Fibre Dry Fibre	Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts. Expts.	500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 500 grms 20 Kgs. 20 Kgs.	12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days	Block Block Block Block Block Block Block Block Block Block Block Block Block
23.	Dadar & Nagar Haveli	Paddy Ragi	Wet Paddy Wet grain	Dry paddy Dry grain	Expts. Expts.	1 Kg/ Sample 1 Kg/ Sample	3 days 3 days	Stratum Stratum
24.	Daman & Diu	Paddy Bajra	Wet Paddy Wet Cobs	Dry paddy Dry Cobs	Village Expts.	5 Kgs. 5 Kgs	C.W-3 C.W-3	Taluka Taluka
25.	Puducherry	Paddy (I, II, III)	Wet Paddy	Dry paddy	Not done	Part	6 to 9 days	Regional Level.

Note : 1.C.W. = Constant Weight for unspecified consecutive weightment
2. C.W. –3 = Constant weight for 3 consecutive weightments.

APPENDIX -VII:- SAMPLE SIZE UNDER I.C.S. (CENTRAL SAMPLES) DURING 2014-15												
Number of experiments planned for Rabi & Summer crops												
Sl. No	State	Rice (Sum.)	Jowar (Rabi)	Maize (Sum.)	Wheat	Barley	Gram	Ground -nut	Rape & Mustard	Other Crops **	Sub- Total	Total for all Crops
1	2	15	16	17	18	19	20	21	22	23	24	25
1	Andhra Pradesh	170	40	-	-	-	40	50	-	-	300	1160
2	Assam	40	-	-	50	-	-	-	70	70	230	520
3	Bihar	40	-	-	230	-	40	-	40	40	390	750
4	Chhattisgarh	-	-	-	40	-	40	-	30	40	150	350
5	Gujarat	-	-	-	150	-	40	-	50	-	240	990
6	Haryana	-	-	-	180	30	70	-	100	-	380	700
7	Himachal Pradesh	-	-	-	110	40	-	-	-	-	150	300
8	Jammu & Kashmir	-	-	-	120	-	-	-	-	-	120	280
9	Jharkhand	-	-	-	40	-	20	-	20	20	100	220
10	Karnataka	40	70	-	50	-	40	40	-	40	280	900
11	Kerala	100	-	-	-	-	-	-	-	220	320	520
12	Madhya Pradesh	-	-	-	250	-	140	-	60	74	524	1152
13	Maharashtra	-	150	-	150	-	100	-	-	50	450	1300
14	Odisha	140	-	-	-	-	-	-	-	40	180	830
15	Punjab	-	-	-	220	30	30	-	40	-	320	700
16	Rajasthan	-	-	-	130	80	120	-	90	-	420	940
17	Tamil Nadu (N/K)	40	60	40	-	-	-	100	-	360	600	780
18	Uttar Pradesh	-	-	-	570	-	50	-	100	200	920	2300
19	Uttrakhand	-	-	-	60	-	-	-	-	-	60	190
20	West Bengal	140	-	-	110	-	-	-	110	50	410	750
21	Puducherry (I)	10	-	-	-	-	-	-	-	-	10	20
	(II)	10	-	-	-	-	-	-	-	-	10	10
TOTAL		730	320	40	2460	180	730	190	710	1204	6564	15662

Note : 1. ** Andhra Pradesh –Blackgram (40), Assam -Blackgram (30), Potato - (40), Bihar-Tur (40), Chhattisgarh-Linseed (40), Jharkhand -Tur (20), Karnataka - Sunflower (40), Kerala -Pepper (40), Arecanut (40), Banana (60), Plantain (40), Madhya Pradesh - Linseed (74), Maharashtra - Safflower (50), Odisha - Greengram (40) -S, Rajasthan-Linseed(40), Uttar Pradesh - Greengram (40), Blackgram (40), Masur (60), Potato (60),West Bengal - Sesamum (50).

Tamil Nadu- Bajra(40), , Ragi(40), Cotton(100), Sugarcane(50), Sesamum(50), Blackgram(40),Greenram(40)

2. The sample checks are undertaken by the supervisory staff of NSSO (FOD) and State Govts. on matching basis in two non-overlapping samples.