

# REPORT ON IMPROVEMENT OF CROP STATISTICS SCHEME

## TAMILNADU 2013-14

FASLI - 1423

DEPARTMENT OF ECONOMICS AND STATISTICS
CHENNAI- 600 006.

#### **PREFACE**

The Scheme for "Improvement of Crop Statistics" was launched in 1973 -74 as a joint effort of the NSSO, Government of India and Department of Economics and Statistics of the State Government, with an objective to locate the deficiencies in the system of Crop area and yield statistics by exercising technical supervision over the primary field work and suggesting remedial measures for improving the system towards achieving overall improvement of agricultural statistics.

The objectives, design, plan of work, estimation procedure etc are presented in this report together with analytical study of the results obtained as a result of the execution of the scheme during 2013-14

The efforts put forth by the field officials of the National Sample Survey Organization and the Department of Economics and Statistics in data collection, tabulation, analysis and preparation of the report deserve appreciation.

Suggestions for further improvement of this report are solicited for perfecting it further.

Place: Chennai-6 Date: 25.05.2015. Sd/-S.Ramachandran.
Principal Secretary/Commissioner. (F.A.C).

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#### 1.INTRODUCTION

#### 1.1 GENESIS OF THE SURVEY

The official statistics on area under various crops are recorded at village level in Tamil Nadu by the Village Administrative Officers (V.A.O). But quite often the area statistics thus compiled are either found to be incomplete or inaccurate, the reason attributed thereto being, that the Village Administrative Officers are engaged in the preparation of village accounts mainly for the purpose of the collection of land revenue and other taxes at the village level. The need was, therefore, felt for an element of supervision that could be undertaken on a scientific basis over the primary work of area enumeration done by the Village Administrative Officers. However, as the supervision of the collection of accurate area statistics over a vast area is a voluminous work requiring a net work of personnel, other ways were to be attempted to correct the deficiency. With this objective, a working group on agricultural statistics, set up by the Governing Council of National Sample Survey Organization, made certain recommendations in March 1973 about the need for strengthening the supervision of field work relating to both crop-area and yield statistics. Based on those recommendations, a scheme known as 'Improvement of Crop Statistics' was first implemented in Tamil Nadu, as per G.O.Ms.No.310 (Statistics) Forests & Fisheries Department, dated: 21st March 1975 and continued thereafter. At present, the Department of Economics and Statistics is implementing this scheme in Tamil Nadu, in collaboration with the National Sample Survey Organization, Government of India.

#### 1.2 FINANCIAL ASSISTANCE AND IMPLEMENTATION

The scheme was initially implemented as a centrally sponsored scheme fully funded by the Ministry of Agriculture and Irrigation, Government of India. From the year 1975-76, the expenditure was equally shared by the central and state governments on a 50:50 basis. Again from the year 2007-08, Government of India has fully funded for this scheme. From the year 2003-04, centrally sponsored schemes, such as; i) TRS, ii) ICS, iii) CES on F&V have been merged and brought under one umbrella namely "Improvement of Agricultural Statistics " as its components. Implementation and monitoring of the scheme are the same. The technical guidance both for organizing the sample check on area enumeration and supervision of crop cutting experiments is provided by the National Sample Survey Organization (FOD), Government of India, Faridabad. At state level, the execution and administration of the scheme are under the control of Principal Secretary/Commissioner, Department of Economics and Statistics, Tamil Nadu.

#### 1.3 OBJECTIVE

The main objective of the scheme is to attempt jointly by the National Sample Survey Organization (NSSO) and the State Agricultural Statistics Authority (SASA) to undertake about sample checks over the primary field work done by VAO's and to effect improvements in the quality of primary data in respect of both crop-area and yield estimation surveys in the State. The scheme is further expected to provide the basis for determining the precise lines on which the improvement in the crop estimation system would require to be effected.

#### 1.4 COVERAGE

Every year, 520 villages from Timely Reporting Scheme (TRS) villages for sample check on area enumeration and 1560 experiments from General Crop Estimation Survey (GCES) for supervision of crop cutting experiments are selected for this scheme. From that, 50 percent of villages and experiments are being allotted for National Sample Survey Organization and the remaining 50 percent for State Agricultural Statistics Authority (SASA) for supervising area enumeration and yield estimation.

#### 1.5 SURVEY DESIGN

#### A) SAMPLE CHECK ON AREA ENUMERATION (A.S -1.0)

The design adopted is multi-stage random sampling method without replacement by which two sets of non-overlapping sample villages are selected on a matching basis (i.e.) 260 villages for the National Sample Survey Organization (FOD) staff and 260 villages for the state statistical staff in all the districts of Tamil Nadu.

Under each one of the sample villages which are selected for Improvement of Crop Statistics, four clusters each consisting of five survey / sub-division numbers are selected on random basis for area supervision by applying circular systematic sampling method. A taluk or a group of contiguous taluks in each district constitute a stratum during each fasli year.

#### B) SUPERVISION OF CROP CUTTING EXPERIMENTS (A.S - 2.0)

It is mainly intended to check the quality of crop cutting experiments both at harvest and post-harvest stages. A matching sample of 780 experiments have been selected for supervision each by the state staff and the National Sample Survey Organization staff by simple random sampling technique without replacement from the list of General Crop Estimation Survey villages.

## C) PAGE TOTALING OF KHASRA REGISTER (A.S -1.1)

The details of land use as per aggregation done and reported by the Village Administrative Officer to the higher authorities and as checked from adangal for the village as a whole by the supervisor will be recorded in A.S-1.1 schedule by the supervisor concerned.

#### 1.6 TRAINING

At the commencement of each fasli year, all the field functionaries engaged under the scheme are being imparted training for two days at the district level, first day earmarked for theoretical aspects and the next day for field training.

#### PLAN OF WORK DURING 2013 – 14

#### 2.1 COVERAGE

The plan of work are as follows:

- (i) Carrying out sample checks on enumeration of area done by the Village Administrative Officers in the selected villages during each season.
- (ii) Exercising supervision of crop cutting experiments in a sub-sample of villages selected from the General Crop Estimation Survey villages.
- (iii) Checking the page totals of adangal (done by the Village Administrative Officers) in the sample villages at the end of each agricultural year.

#### 2.2 PHASES

With regard to the sample check on area enumeration, four clusters at five survey / sub-division numbers per cluster were selected in each of the sample villages and the particulars of land utilisations in respect of those clusters were physically verified by the supervisors during each of the following phases every year.

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Phase -I ------ July – October.

Phase -II ------ November – January.

Phase -III ------ February & March.
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Under this scheme, the supervisory officers were required to verify the entries made in the adangals by the village administrative officers and report them in schedule A.S-1.0 along with their findings. This process is continued for all the three phases every year.

#### 2.3 SUPERVISION

The supervision of crop cutting experiments on the principal food and non-food crops viz., Paddy – kar / kuruvai / sornavari, samba / thaladi / pishanam, navarai / kodai and irrigated as well as un-irrigated crops of Jowar, Bajra, Ragi, Groundnut, Cotton, Sugarcane, Gingelly and Maize; were undertaken in the villages selected to carry out inspection at harvest / post harvest stages. Particulars relating to yield data and other ancillary items such as variety of seeds, (High yielding variety or otherwise) sources of irrigation, application of manure, fertilizers and pesticides, etc. were gathered and furnished in Schedule A.S-2.0.

## 2.4 AREA CHECKING

Schedule A.S-1.1 is designed to study the discrepancies between the figures

- as aggregated by the patwari (i)
- as reported by patwari to higher authorities, and (ii)
- as checked by the supervisors in respect of the area under the crops / crop (iii) mixtures / non-crop utislisations.

The assistant superintendent / state supervisor is to sum the area figures separately for each season for the crop / crop mixtures / non-crop uses page by page and attach them to the schedule. Working sheet has been provided to facilitate the page totaling of area figures.

#### 3. ESTIMATION PROCEDURE

# 3.1 PREPARATION OF QUICK ESTIMATES OF "AVERAGE YIELD RATE" - PROCEDURE, TIME SCHEDULE, UTILITY ETC.

The primary responsibility for the collection of area and production of crops vests with the state government. The yield rates of principal crops are estimated under General Crop Estimation Surveys (GCES) through crop cutting experiments conducted by the state agencies. The crop cutting experiments consists of (i) location and marking of an experimental plot of specified size in a field selected on the basis of random sampling, (ii) harvesting and threshing of its produce, and (iii) recording the weight of the clean and dry or wet produce. The design adopted for the survey is multi-stage random sampling, community development blocks as strata, villages within a stratum as first stage units of sampling, fields within each selected village as second stage sampling units and experimental plot of a specified shape and size as the ultimate unit of sampling.

The National Sample Survey Organization (NSSO) has the overall responsibility of assisting the states in developing suitable survey techniques for obtaining reliable and timely estimates. Under the Improvement of Crop Statistics scheme, the Central i.e., NSSO staff and the SASA staff supervise the crop cutting experiments, conducted by state primary workers, in a sub-sample of GCES experiments. The schedule A.S-2.0 is used for recording the observations of the supervisory staff on crop cutting experiments. The entire filled-in central and state A.S-2.0 schedules are sent to NSSO (FOD), Faridabad and to Department of Economics and Statistics from the field functionaries for the analysis and estimation of yield rates.

Cut-off dates are fixed for the receipt of schedules (both area enumeration and supervision of crop cutting experiments) in respect of central as well as state samples separately. Similarly, due dates are also fixed to send the final tables to NSSO (FOD), Faridabad.

#### SAMPLE CHECK ON AREA ENUMERATION

The estimates of area will be worked out for each category of crop (i) high yielding – irrigated, (ii) high yielding – un-irrigated, (iii) local-irrigated, (iv) local-un-irrigated. The estimates of % standard error (SE) will be worked out and given for the total estimated area under the crop for the state as a whole. Stratum-wise estimates of area under each category will be obtained as under:

 $\hat{Y}_i = \frac{N_i}{n_i} \sum_{j=1}^{n_i} \left[ \frac{H_{ij} \times a_{ij}}{S_{ij}} \right]$ 

Where,

 $\hat{Y_i}$  = Estimated Area under a crop in the i<sup>th</sup> Stratum,

 $a_{ij}$  = Total area under a crop in the selected clusters of survey numbers in  $j^{th}$  village of  $i^{th}$  stratum,

 $S_{ij} = 1$  Number of selected survey/serial numbers in the j<sup>th</sup> sample in the i<sup>th</sup> stratum,

 $H_{ij}$  Highest serial number in j<sup>th</sup> sample village in the i<sup>th</sup> stratum,

 $n_i$  Number of sample villages analysed in the i<sup>th</sup> stratum and

 $N_{i}$  = Total number of revenue villages in the i<sup>th</sup> stratum.

The estimates of area thus obtained for each stratum in a district is added to get the estimate of area at district level  $(Y_d)$  and the total of district level estimate gives the state level estimate of area  $(\hat{Y})$ .

The % standard error of the estimate of area at state level is obtained as follows:

Where standard error is the square root of the state level variance, which is the sum of variance of the district level estimates.

#### SUPERVISION OF CROP CUTTING EXPERIMENTS

On the basis of the data collected through schedule A.S-2.0, estimates of yield rates of the principal crops along with its % standard error are prepared and sent to NSSO. The procedure followed to obtain such estimate at state level is as follows:

(i) Calculate the yield rate for the crop at district level in terms of green weight in grams/plot ( $\bar{Y}_{ig}$ ) which is a simple average of sample plot yield and is given by,

$$\overline{Y}_{ig} = \frac{\sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} Y_{ijk}}{n_i}$$

Where,

Yig = average yield rate for the crop at district level in terms of green weight in grams per plot.

 $Y_{ijk}$  = plot yield in gms. in the  $k^{th}$  experimental plot of  $j^{th}$  sample village in the  $i^{th}$  district.

 $n_{ij}$  = number of experiments analysed in the  $j^{th}$  sample village of the  $i^{th}$  district.

 $n_i$  = number of experiments analysed in the  $i^{th}$  district, given by: -

$$\sum_{i=1}^{mi} n_{ij}$$

 $m_i$  = number of sample villages in which experiments are analysed in the i the district

- (ii) Calculate the conversion factor to convert the yield rate of green weight in grams/plot to yield rate in kg/hec. Conversion Factor (CF) is to be worked out by making use of the driage ratio at state level for the previous year and the plot size. For crop paddy also use the recovery ratio of rice from paddy.
  - (iii) The estimate of yield rate in kg/hec at district level

$$\overline{(y_i)}$$
 is given by,  $\overline{Y}_i = Y_{ig} \times CF$ 

The average yield rate in kg/hec at state level  $(\ \bar{Y}\ )$  , which is given by

$$\overline{Y} = \frac{\sum_{i=1}^{d} a_i \times \overline{Y}_i}{\sum_{i=1}^{d} a_i}$$

Where,

a<sub>i</sub> = area under the crop in the i th district during the previous year.

d = no. of districts in the state.

The percentage standard error of the yield rate is given by

The variance of the estimated yield rate is given by

$$V(\widetilde{Y}) = \frac{\left\{ F \sum_{i=1}^{d} \frac{{a_i}^2}{n_i} + (E - F) \sum_{i=1}^{d} \frac{a_i^2 \sum_{i=1}^{m_i} n_{ij}^2}{\lambda_i n_i^2} \right\}}{\left\{ \sum_{i=1}^{d} a_i \right\}^2}$$

Where  $V(\overline{y}) =$ Estimated variance of the estimate of average yield at state level

$$\lambda_{i} = \frac{n_{i}^{2} - \sum_{j=1}^{m_{i}} n_{ij}^{2}}{n_{i}(m_{i} - 1)}$$

E = mean square between villages for the state

$$E = \frac{\sum_{i=1}^{d} \left[ \sum_{j=1}^{m_i} \left( \sum_{k=1}^{n_{ij}} y_{ijk} \right)^2 - \left( \sum_{j=1}^{m_i} \sum_{k=1}^{n_{ij}} y_{ijk} \right)^2 - \sum_{i=1}^{d} \left( m_i - 1 \right) \right]}{\sum_{i=1}^{d} \left( m_i - 1 \right)}$$

F = mean square of yield within villages, which is given by

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

This variance is multiplied by CF<sup>2</sup> to obtain the variance of the estimates in terms of kg/hec.

$$\sqrt{V(Y)}$$

The standard Error (SE) is given by, SE = and the percentage standard error of the yield rate is given by  $\frac{\sqrt{V(|\overline{y}|)}}{\overline{y}} \times 100$ 

Crops for which pre-stratification in planning of experiments under ICS has been adopted according to the corresponding pre-stratification under CES in the state, the estimates of yield rate and its percentage standard error is prepared separately for each category of a crop. The estimates for different categories at state level is then combined as under:

Let  $\overline{Y}_1$  be estimated average yield rate for 1st category.

 $\overline{Y}_2$  be estimated average yield rate for 2<sup>nd</sup> category.

 $A_1$  to the area under the crop in the state for  $1^{st}$  category.

 $A_2$  to the area under the crop in the state for  $2^{nd}$  category.

Then the combined estimate of yield rate is given by

$$\overline{Y}(_{1+2}) = \frac{\overline{Y_1}A_1 + \overline{Y_2}A_2}{A_1 + A_2}$$

And the estimate of its variance is given by

$$V\left[\left(\overline{Y}_{1+2}\right)\right] = P_1^2 Var\left(\overline{Y}_1\right) + P_2^2 Var\left(\overline{Y}_2\right)$$

Where 
$$P_1 = \frac{A_1}{A_1 + A_2} \& P_2 = \frac{A_2}{A_1 + A_2}$$

 $V(\overline{Y_1})$  = the estimate of variance of  $I^{st}$  category.

 $V(\overline{y_2})$  = the estimate of variance of  $II^{nd}$  category.

The estimate of yield rate and its percentage standard error is prepared separately for central and state samples and these estimates are then pooled together as:

Let  $\overline{Y_c} \& \overline{Y_s}$  be the estimated average yield rate for central and state sample respectively.

And  $V_C \& V_S$  be the estimate of variance for central and state sample respectively.

Calculate

$$e_c = \frac{1}{V_c}$$
 and  $e_s = \frac{1}{V_s}$ 

The pooled estimate of yield rate is given by

$$\overline{Y}_p = \frac{e_c \overline{Y}_c + e_s \overline{Y}_s}{e_c + e_s}$$

And an estimate of its variance is given by

$$V(\overline{Y}_p) = \frac{1}{e_c + e_s}$$

# 4. RESULTS OF THE SURVEY A. AREA STATISTICS

- **4.1** Table 1 shows the details of receipt of schedules as A.S.1.0, 1.1 and 2.0 during the years 2012-13 and 2013-14 and their response in respect of the receipt of schedules were 100 % during the year 2013-14. It is observed that overall 92% of A.S.1.0 schedules were received within the cut off date during this year. With regard to schedule A.S.1.1, 77% of schedules for state sample were received within cut off date. As far as A.S-2.0 concerned 90% of schedules were received within the cut off date.
- **4.2** The phasewise total no. of schedules received with 'A' entries (entries made by the supervisor) and 'B' entries (entries made by the primary worker i.e., VAO in the village records) during the year 2012-13 and 2013-14 were analyzed in Table 2 and found that all the schedules were received with both the entries.
- **4.3** Table 3 provides the detail regarding the up-dation of village maps, their availability and usability. It may be seen that maps are usable and more than 20 years old in all the 520 villages planned for pooled sample.
- 4.4 The villages selected for the sample check on area enumeration during the year 2013-14 has been classified according to geographical area and shown in Table 4. It is observed from the table of pooled samples that out of 520 villages analysed, only 15 villages (2.88%) possessed the lowest geographical area of up to 50 hectares, while 37 villages (7.12%) had the highest geographical area extending more than 3000 hectares each. It may be seen from the table that a maximum number of 106 villages (20.38%) fell within a group of which the geographical area ranged between 1001 and 3000 hectares.
- **4.5** Details of the work load of the V.A.O's were measured in terms of villages in their respective jurisdiction. Average workload of VAO's in terms of survey / sub-survey numbers and geographical area for the years 2013-14 and 2012-13 are shown in Table 5. It is evident that the average workload of the Village Administrative Officers in terms of villages as well as survey numbers / geographical area are reasonable.

- **4.6** The particulars of completion of girdawari by Village Administrative Officers for the years 2013-14 and 2012-13 are furnished in Table 6. On comparison of the position of timely completion of area enumeration work during 2013-14 with that of previous year, it is observed that the timely completion of area enumeration work was found to be of the order of 100% for Phase-II and Phase-III.
- **4.7** Information on the workload of Village Administrative Officers were measured in terms of number of villages allotted per V.A.O is given in Table 7. It is observed that 96% of the V.A.O's had 1-5 villages in their jurisdiction. But only 4 % of Village Administrative Officers covering 6-10 villages range.

#### 4.8 SUBMISSION OF TRS STATEMENTS

The details of submission of TRS statements during 2013-14 and 2012-13 are presented in Table - 8. It reveals that TRS statements were submitted in time which accounts for 100% of villages in Phase-I, II and III respectively during the year 2013-14. The corresponding figures of submission of TRS statements in time for 2012-13 were 100%, for Phase-I, Phase-II and Phase-III respectively.

#### 4.9 RECORDING OF AREA UNDER DIFFERENT CROPS IN ADANGAL

During the course of sample check on area enumeration under various crops carried out in the selected survey / sub-division numbers in the sample villages and the corresponding entries made in the adangal maintained by the village administrative officers, several errors have been noticed. The number of serial / survey numbers under different type of errors for the years 2013-14 and 2012-13 are furnished in Table - 9. The sample checks reveal that during only 79%, 89% and 75% of survey numbers of crop area reported by supervisor and Patwari tallied in Phase-I, Phase-II and Phase-III respectively for the year 2013-14 as against 79%, 84% and 73 % in the corresponding phases of the previous year.

**4.10** Table 10 and 11 deals with crop wise comparison of entries made by Supervisor and patwari of crop areas as per irrigation and seed variety in Phase-I, Phase-II and Phase-III for the year 2013-14.

#### 4.11 ESTIMATION OF AREA

The area reported by primary worker in the adangal form is the basis for TRS as well as final estimates of crop areas. The Improvement of Crop Statistics analysis enables to judge the deviation in estimates of area under different crops based on area reported by supervisor and the primary workers. The crop wise estimates of area under 8 principal crops are furnished in Table - 12.

#### 4.12 PAGE TOTALING OF KHASRA REGISTER (A.S-1.1)

The estimated area based on the village papers as checked by the supervisors and as recorded by the Village Administrative Officers in adangal for various crops for the year as a whole are furnished in Table - 13. It may be seen that there is only minor difference between the estimated area of different crops.

#### 4.13 YIELD CHECK AT HARVEST STAGE(A.S-2.0)

Apart from the Sample check on area, the supervisor is present during the conduct of crop cutting experiments. He ensures that the extent of the primary workers adhere to the prescribed procedures and mistakes if any, are corrected on the spot. For this purpose, a sample of 780 crop cutting experiments covering 9 principal crops, viz. Paddy, Jowar, Bajra, Ragi, Cotton, Groundnut, Sugarcane, Gingelly and Maize were selected for intensive supervision separately by central and state staff for the year 2013-14.

The programme envisages locating an experimental plot for harvesting and weighing the produce of specified area in randomly chosen survey numbers and villages. The agricultural officers are conducting the experiments. Sample check on crop cutting experiments are carried out in the sub-sample of General crop estimation survey villages by the Central and State staff with a view to assess the extent to which the methodology, techniques and procedures prescribed for the conduct of crop cutting experiments are adopted and practices in the field conditions. Conduct of crop cutting experiments on objective basis is a complex task and as such it is imperative that primary workers assigned with the task to receive adequate training. Such training to primary workers is organized by the Department of Economics and Statistics at the beginning of each agricultural year.

- **4.14** In the field programme of sample check on crop cutting experiments, special emphasis has been given to ensure that technical personnel are invariably present at the harvest stage to observe the techniques and procedures adopted by the primary workers and provide support and guidance wherever necessary. The extent of participation at harvest stage is evident from the information presented in Table 14. It may be seen that 99% of experiments were checked by the supervisors at harvest stage under the pooled sample.
- **4.15** Estimates of yield rates of the principal crops based on sample check on crop cutting experiments along with percentage standard error are presented in Table 15.
- **4.16** Generally, villages are substituted for the reason, viz., crop not sown, crop harvested with out intimation etc., The number of experiments for which no substitution was not made for sampling units at village and field level are presented in Table 16 for the year 2013-14 and 2012-13
- **4.17** Particulars gathered during the visit of the technical personnel are used to assess the extent to which the procedural guidelines prescribed for the conduct of crop cutting experiments are observed by the state primary workers. The type of deviation from prescribed procedures for conducting crop-cutting experiments of state primary workers is summarized in Table 17.

#### 4.18 SUPPLY & USE OF EQUIPMENT'S

Position of supply and use of equipments such as tapes, balances, set of weights and pegs are furnished in Table - 18. The usage of equipment like tapes, balances, weight and pegs while conducing the crop cutting experiment in 2013-14 were 98%, 97%, 98% and 91%. This brings an element of subjectivity and standardization in the process of arriving at average yield rate.

#### 4.19 DELEGATION OF WORK BY PRIMARY WORKERS

Number of experiments conducted by primary worker and delegated workers are furnished in Table-19 for the year 2013-14. All the 1539 experiment were conducted by trained workers.

#### **5.UTILITY OF THE SCHEME**

The sample checks reveal that the field work done at primary level are intended to effect improvement in the quality of primary data in respect of both enumeration of crop area and crop estimation survey. This factor helps both Central and State Governments in planning agricultural policies and programmes with accuracy.

TABLE 1
RECEIPT OF SCHEDULES

\/a	O a la	000000	Committee	No. of villages /			periments for s received	which
Year	Schedules	Season	Sample	experiments planned	by cut off date	%	after cut off date	%
			Central	260	258	99	2	1
		Phase - I	State	260	255	98	5	2
			Pooled	520	513	99	7	1
			Central	260	247	95	13	5
	A.S.1.0 (Villages)	Phase -l I	State	260	231	89	29	13
	(*illageo)		Pooled	520	478	92	42	9
4			Central	260	257	99	3	1
2013-14		Phase -iii	State	260	192	74	68	35
20			Pooled	520	449	86	71	16
			Central *					
	A.S.1.1 (Villages)	Whole year	State	260	201	77	59	29
	(*illages)		Pooled	260	201	77	59	29
			Central	780	768	98	15	2
	A.S.2.0 (Expt)	Whole Year	State	780	634	81	146	19
	(=\pt)		Pooled	1560	1402	90	161	10
			Central	260	260	100	0	0
		Phase - I	State	260	233	90	27	12
			Pooled	520	493	95	27	5
	A.S.1.0		Central	260	259	100	1	0
	(Villages)	Phase -! I	State	260	231	89	29	13
	(Villages		Pooled	520	490	94	30	6
-13			Central	260	258	99	2	1
(7)		Phase -III	State	260	212	82	48	23
201			Pooled	520	470	90	50	11
	4044		Central *					
	A.S.1.1 (Villages)	Whole year	State	260	250	96	10	4
	(		Pooled	260	250	96	10	4
	4000		Central	780	765	98	15	2
	A.S.2.0 (Expt)	Whole Year	State	780	743	95	37	5
Note:	( <del>-</del> ^\\)		Pooled	1560	1508	97	52	3

Note:

 $<sup>^\</sup>star$  - The field work of A.S-1.1 Schedules thas been suspended for central sample till further order as per the NSSO, Faridabad ( Lr.No:A-0013 / Workload / ICS / 2008-AS, dated:08.12.2008 )

TABLE 2

RESPONSE IN SAMPLE CHECK ON ENUMERATION OF AREA

A -Supervisor

B - Patwari

TABLE 3

INFORMATION REGARDING UPDATION OF VILLAGE MAPS AND THEIR USABILITY

	No. 0	No. of villages where information available	e information e	available
		20,	2013-14	
Number of years since updated	Central	State	Pooled	Percentage to pooled sample
	080	260	520	100
(I) Total No.of villages analysed	) )	0	0	0.0
	o C	0	0	0.0
	o C	0	0	0.0
	260	260	520	100.0
(d) more than 20 years	) }	0	0	0.0
(e) information not available	Þ	,		
(2) Availability of maps with patwari		Ç	520	100.0
(a) maps available	260	760	520	100.0
(i) usable maps	260	S C	0	0.0
(ii) unusable maps	<b>,</b>	o ⊂	0	0.0
(b) maps not available	0			

TABLE 4

BI-VARIATE FREQUENCY DISTRIBUTION OF SAMPLE VILLAGES COVERED BY THE SCHEME DURING THE YEAR 2013-14 ACCORDING TO TOTAL NUMBER OF SURVEY /SUB-DIVISION NUMBERS AND GEOGRAPHICAL AREA (Pooled Sample)

Class intervel of			Cla	iss interva	Class intervals of Geographical Area(ha)	graphical /	Area(ha)			tot beho	)   	entage lected ages
Serial / Survey ————————————————————————————————————	up to 50	51	101-200	201-400	401-600	601-800	801-1000	-100 101-200 201-400 401-600 601-800 801-1000 1001-3000 above 3000	above 3000		уΤ	es ot
1 - 200	10	5	0	0	0	-	0	0	0	~	17	3.27
201 - 400	2	ო	80	က	۲	0	0	~	0	0	8	3.46
401-600	0	4	<del>-</del>	<del>-</del>	2	0	0	que.	0	0	29	5.58
601 - 800	۲-	₹~	6	12	<b>ب</b>	0	0	τ-	0	0	25	4.81
801 - 1000	0	0	7	7	4	. 2	<b>←</b>	~	4	0	27	5.19
1001-5000	2	ო	80	89	72	42	35	74	25	က	353	67.88
More than 5000	0	0	τ-	0	0	ო	4	28	4	0	46	8.85
Information not reported	0	۲-	0	0	0	2	0	0	<b>←</b>	-	cy.	96.0
Total	15	17	44	126	80	20	04	106	37	5	520	100.00
Percentage	2.88	3.27	8.46	24.23	15.38	9.62	7.69	20.38	7.12	96.0	100.00	100.00

TABLE 5

WORKLOAD OF VILLAGE ADMINISTRATIVE OFFICERS IN THE SELECTED VILLAGES

Average workload per patwari in the se

	Average r	number of vills	Average number of villages alloted per patwari	er patwari	Average v	Average workload per patwari in the selected villages in terms of	batwari in the terms of	selected
Sample	Total	tai	Trs	S	No. of survey / sub- survey numbers	/ey / sub- umbers	Geographical area (in hec.)	ical area ec.)
Year	2013-14	2012-13	2013-14	2013-14 2012-13	2013-14	2013-14 2012-13	2013-14	2012-13
Central	2	2	-	-	2409	2652	802	289
State	8	2	ν-	-	2354	2676	1639	835
Pooled	2	74	-	-	2382	2664	1220	712

TABLE 6

TIMELINESS IN COMPLETION OF TRS AREA ENUMERATION

ļ		Total	260	260	520	260	260	520
	_	Not yet started	0	0	0	0	0	0
	Phase-III	Partially completed	0	0	0	0	0	0
		ьted	0	0	0	0	0	0
leted		əmitnl	260	260	520	260	260	520
ri comp		istoT	260	260	520	260	260	520
gawa	_	Not yet started	0	0	0	0	0	0
ere gir	Phase-II	Partially completed	0	0	0	. 0	0	0
s whe	<u> </u>	Late	0	0	0	0	0	0
No. of villages where girdawari completed		əmit nl	260	260	520	260	260	520
No.		Total	260	260	520	260	260	520
	_	Not yet started	0	0	0	0	0	0
	Phase-	Partially completed	0	0	0	0	0	0
	-	ejtsJ	0	0	0	0	0	0
		əmit nl	260	260	520	260	260	520
	1	bezylana segalliv fo. oV	260	260	520	260	260	520
		Sample	Central	State	Pooled	Central	State	Pooled
		ТеаГ		2012-13			2012-13	

TABLE 7

FREQUENCY DISTRIBUTION OF PATWARI OF THE SELECTED VILLAGES ACCORDING TO TOTAL NUMBER OF VILLAGES ALLOTTED FOR THE YEAR 2013-14

(Pooled Sample)

	Total			TRS	
Total number of villages allotted per patwari		Percentage	Total number of villages allotted per patwari	Frequency	Percentage
1 to 5	498	95.77	7-	205	97.50
6 to 10	22	4.23	2	13	2.50
11 to 15	0	0.00	က	0	0.00
Above 15	0	0.00	Above 3	0	0.00
Information not available	0	0.00	Information not available	0	0.00
Total	520	100.00	Total	520	100.00
	•				

TABLE 8

SUBMISSION OF TRS STATEMENT BY PATWARI

	77	Total no. of		Phase-	l-e:		:	Phase-II	=	,		Phase-III	=	
Year	Sample	villages analysed	In time	%	Late	%	In time	<b> </b>   %	Late	%	In time	%	Late	%
	Central	260	260	100	0	0	260	100	0	0	260	100	0	0
20013-14	State	260	260	100	0	0	260	100	0	0	260	100		0
	Pooled	520	520	100	0	0	520	100	0	0	520	100	0	0
	Central	260	260	100	0	0	260	100	0	0	260	100	0	0
20012-13	State	260	260	100	0	0	260	100	0	0	260	100	0	0
	Pooled	520	520	100	0	0	520	100	0	0	520	100	0	0

TABLE 9

Cont  $\widetilde{\omega}$ τ-% (e1 + e2 + e3)Total No. of serial / survey numbers with error Error e 3 DIFFERENT TYPES OF ERRORS OBSERVED IN RECORDING OF AREA e 2 Ξ Ō e \_ % 6/ \$ No. of villages No. of serial / reporting for all survey numbers No error crop reporting crop e 0 Central Central Pooled Central Pooled Pooled Sample State State State Phase-III Phase-II Phase-I Season Хеаг 5013-14

TABLE 9 (Concld.)

			OIEEERENT TYP	DIEFERENT TYPES OF ERRORS OBSERVED IN RECORDING OF AREA	OBSERVE	O IN RE	ECORDING	OF ARE	ď		
						Z	No. of serial /	survey no	of serial / survey numbers with error	h error	
									Error		
Year	Season	Sample	No. of villages reporting for all crop	No. of serial / survey numbers reporting crop	No error e 0	%	Φ	e 2	က	Total (e1 + e2+ e3)	%
		Central	523	3154	2441	77	634	78	\ \ \	713	23
	Phase-I	State	512	3225	2619	25	583	23	0	909	19
		Pooled	1036	6381	5062	79	1217	101	-	1319	21
		ر ( Central	199	855	674	62	135	46	0	181	21
12-13	Phase-II	State	221	1012	889	88	100	23	0	123	12
-02		Pooled	420	1867	1563	8	235	69	0	304	16
		Central	70	215	138	2	20	7	0	77	36
	Phase-III	State	68	235	189	81	43	<b>←</b>	0	44	19
		Pooled	138	448	327	73	113	æ	0	121	27

e 0 : where the supervisor's and patwari's entries for the crop are identical e.t. where the supervisor reported the crop but patwari did not report e.2: where the supervisor did not report the crop but the patwari report it e.3: where the area under the crop repoted by the supervisor and patwari differed

TABLE 10

CROPWISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREAS AS PER IRRIGATION

(In ha)

İ		· <del></del>	Total	27	20	က	ന	~	0	
		Patwari	DetegiminU	25	20	0	7	0	0	Cont
]	<u>.</u>	Δ.	Irrigated	2	0	ო	~	←	0	
	Kagi	JO.	Total	59	21	ო	က	~	0	
		Supervisor	Unimigated	27	21	0	7	0	0	
		Su	Imgated	7	0	ო	~	~	0	
		- <del>-</del> -	Total	ω	5	'n	4	0	0	
		Patwari	Unirrigated	7	£	5	7	0	0	
	Bajra		lrrigated	<b>←</b>	0	0	7	0	0	
	Ba	Sor	Total	တ	7	വ	9	0	0	
		Supervisor	Unimigated	2	5	Ŋ	4	0	0	
		าร	lrrigated	2	0	0	7	0	0	
			Total	108	82	31	4	2	0	
		Patwari	Unimigated	94	99	. 25	12	2	0	
	Jowar	-	lrrigated	4	4	9	2	0	0	
	9	1	Total	122	105	39	25	9	2	
		Supervisor	Unirrigated	108	95	29	23	7	-	
		Su	beteginl	14	10	6	7	4	~	
		-	Total	1015	391	179	127	8	25	
		Patwari	Unirrigated	55	₩	<del>-</del>	4	0	0	
	Daddy		Irrigated	096	373	178	126	34	25	
	Day		lstoT	606	545	179	123	24	28	
		Supervisor	Unimigated	32	5	23	~	0	0	
		JS.	bətegini	877	532	156	122	24	28	
		•	Year	(2013-14	2012-13	( 2013-14	2012-13 122	2013-14	2012-13	! ا
			Season		Phase-I <		Phase-II		Phase-III	

TABLE 10 (Concld)

CROPWISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREAS AS PER IRRIGATION

(In ha)

		lstoT	82	3	9	4		4	0		0	
	Patwari	betegininU	86	9	φ	4		4	0	,	0	
wnut	۵	lrrigated	-	5	0	0		0	c	)	0	
Cashewnut		lstoT	00	07	15	4		0	c	•	0	
	Supervisor	bətsgiminU	6	87	5	4		0	c	•	0	
	Sup	heigated		<b>o</b>	0	0		0	c	>	0	
		lstoT		72	83	28	}	35	c	>	ω	
	Patwari	bətegininU		22	72	ď	)	თ	(	⊃	<del></del>	
duut	6	bətegint		17	<del></del>	, L	3	26	C	<b>5</b>	7	
Groundnut		lstoT		81	06	00	76	42		4	10	
	Supervisor	betegininU		09	77	c	7	ω		0	4	
	Sup	lrrigated		21	13	Ċ	0ء 1	8		4	9	
		lstoT		141	66		72	17		თ	œ	
	Patwari	bətsgiminU		0	9		0	0		0	0	
Sinarcane		hrigated [		141	93		7	17		6	ω	
		letoT		141	98		13	19		17	5	
	Simplifying	bətsgininU		0	0		0	0		0	0	
	$\bar{\sigma}$	bətegini		141	94		13	19		17	10	
		Total		36	32		ო	7		21	7	
	100	r 20   S   betsginin(   20   10   10   10   10   10   10   10   1	1	27	23		က	10		0	0	
	1	betseint		თ	თ		0	<del>-</del>		21	2	
	Cotton	P letoT		43	35		თ	12		22	4	
	1.	Supervisor between bet	n	26	24		က	7		0	0	
		betseinl		17	<del></del>		9	~		22	4	
	'	Year		72013-14	2012-13	J	2013-14	2012-13	,	2013-14	2012-13	
		Season			Phase-I	-		Phase-II <	_		Phase-III	_

TABLE 11

CROP WISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREA AS PER SEED VARIETY

TABLE 11

(in ha.) CROP WISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREA AS PER SEED VARIETY

		lstoT	27	21	ო	ო	0	0
	Patwari	Гося	ω	17	0	0	0	0
ig		Phigh Yielding	19	4	ო	м	0	0
Ragi		lstoT. ∫	59	21	ю	4	0	0
	Supervisor	Гося	ω	17	0	<b>←</b>	0	0
	Š	gnibləiY dgiH	21	4	ო	ო	0	0
		lstoT	ω	5	Ŋ	9	0	0
	Patwari	гося	ო	, 0	0	0	0	0
   		gnibləiY dgiH	ય	ო	ιΩ	ဖ	0	0
Baira		lstoT	10	φ	വ	φ	0	0
	Supervisor	rocsi	က	<del>-</del>	0	0	0	0
	S	gnibləiY dgiH	7	5	5	9	0	0
	1	Year	2013-14	2012-13	2013-14	2012-13	2013-14	2012-13
		Season		Phase-1		Phase-II		Phase-III

TABLE 11

(in ha.) CROP WISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREA AS PER SEED VARIETY

		Total	<u>14</u>	<b>6</b> 6	<del>-</del>	17	თ	8
	Patwari	гося	9	12	₹"	<del>-</del>	0	-
cane		High Yielding	135	87	10	16	თ	2
Sugarcane	5	Total	141	94	13	19	17	10
	Supervisor	Госаі	-	φ	0	0	0	-
	เชิ	enibləiY relding	140	88	13	9	17	თ
		Total	36	32	ო	13	21	5
	Patwari	rocsj	16	^	<del>-</del>	0	0	0
l ug		Pigh Yielding	20	25	7	13	21	2
Cotton		   stoT 	43	35	თ	10	22	4
	Supervisor	Focal	12	9	~	0	0	0
	S	High Yielding	31	59	ω	10	22	4
	•	Year	2013-14	2012-13	2013-14	2012-13	2013-14	2012-13
		Season		Phase-I		Phase-II	,	Phase-III

TABLE 11 (Concld)

(in ha.) CROP WISE COMPARISION OF ENTRIES BY SUPERVISOR AND PATWARI OF CROP AREA AS PER SEED VARIETY

ESTIMATED AREA UNDER DIFFERENT CROPS BASED ON THE DATA RECORDED BY THE SUPERVISOR / PATWARI TABLE 12

(In '00 ha)

			Paddy			Jowar			Bajra			Ragi	
Cosco	×			% Variation			% Variation.			% Variation			% Variation
		Supervisor Patwari (a) (b)	Patwari (b)	$\frac{b-a}{a}x100$	Supervisor (a)	Patwari (b)	$\frac{b-a}{a} \times 100$	Supervisor Patwari $\frac{b-a}{a}_{x   ijj}$ (b) $\frac{a}{a}$	Patwari (b)	$\frac{b-a}{a}$ x 100	Supervisor (a)	Patwari $\frac{b-a}{a}$ <sub>x100</sub> (b)	$\frac{b-a}{a} \times 100$
;	2013-14	6249	8032	28.5	929	877	5.6	61	48	-21.3	191	176	6.7-
Phase-I	2012-13	2721	2413	-11.3	528.0	437.0	-17.2	57.0	50.0	-12.3	115.0	96.0	-16.5
	2013-14	1166	1219	4.5	106	26	-8.5	49	49	0.0	<del>6</del>	31	72.2
Phase-II ∢	2012-13	1828	1696	-7.2	229	216	-5.7	31	37	19.4	29	24	-17.2
	2013-14	227	327	44.1	30	₹~	-96.7	0	0	0.0	თ	σ,	0.0
Phase-III∗	2012-13	275	245	-10.9	53	28	47.2	0	0	0.0	0	0	0.0

TABLE 12 (Concld)

(In '00 ha) ESTIMATED AREA UNDER DIFFERENT CROPS BASED ON THE DATA RECORDED BY THE SUPERVISOR / PATWARI

							;						
			00#00		nS	Sugarcane		9	Groundnut			Cashewnut	
			Ì	notional 10		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	% Variation			% Variation			% Variation
	Year	Supervisor Patwari b-4 x100	Patwari	β - a x100	Supervisor Patwari b-a x100	Patwari	00 la	Supervisor Patwari 6-6 x100	Patwari	$\frac{b-a}{a}$ x 100	Supervisor (a)	Patwari $\frac{b-a}{a}$ .xI $\otimes$	$\frac{b-a}{a}$ . x100
		(a)	<b>a</b>	D	(a)	(a)	3	(a)	<u>a</u>				
r	2013-14	285	299	9. <sub>9</sub>	1533	1520	-0.8	643	209	5.6	339	339	0
	2012-13	263	227	-13.7	610	616	0.	609	602	<del></del>	145	87	-40
	2013-14	64	59	-54.7	101	108	6.9	321	294	4.8-	459	459	0
Phase-II	2012-13	55	56	-52.7	454	231	1.64-	566	554	-2.1	75	75	0
	> 2013-14	128	198	54.7	155	42	-72.9	40	0	-100.0	က	ю	0
Phase-III	2012-13	6	0	-100.0	109	89	-37.6	109	98	-13.8	0	0	0

TABLE 13

CROPWISE ESTIMATED AREA BASED ON SCHEDULE A.S.1.1 (PAGE TOTALLING OF KHASRA REGISTER - 2013-14) (State Sample)

Crop	As per Supervisor's check As per V.A.O's account	As per V.A.O's account	(in na)  Ratio of VAO's entries and that of Supervisors
-	2	8	4
Paddy	2671890	2671867	1.000
Jowar	61172	61295	1.002
Bajra	8430	8375	0.993
Ragi	32907	32894	1.000
Cotton	27792	27711	0.997
Sugarcane	61845	62054	1.003
Groundnut	179067	178614	0.997
Cashewnut	40043	39835	0.995

TABLE 14

			1	1		Pooled			State						Pooled	ا 20		ļ
			Central	- - - - - -					5	Checked					5	Checked		
Crop	pəuu	tesv	t harvest	es es	thoqən t	let	pəuus	tvest	teavned te	sse	t report	lato	lanned	arvest	ost harvest	sso	lot report	otal
	ьlа	ıeH	ьо	:07	οN	οT	id	₽H	Pal	ורכ			<b>а</b>	H		- 1		L 5
Paddy - Kar / Kuruvai	09	09	0	0	0	# 09	09	90	0	0	0	9	120	120	0	>	9	071
Paddy - Samba	140	139	0	-	0	140	140	140	0	0	0	140	260	279	0	-	0	280
, Paddy - Navarai	40	40	0	0	0	40	4	40	0	0	0	40	80	8	0	0	0	80
Jowar - I	30	30	0	0	0	30	30	30	0	0	0	30	99	90	0	0	0	90
lowar - Ul	30	30	0	0	0	30	30	30	0	0	0	30	09	9	0	0	0	90
Baira - 1	91	16	0	0	0	4	16	16	0	0	0	16	32	32	0	0	0	32
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	24	24	0	0	0	24	. 54	22	0	7	0	24	48	46	0	2	0	48
	22	22	0	0	0	22	22	22	0	0	0	22	44	4	0	0	0	4
	ά	É	O	0	0	18	18	18	0	0	0	18	36	36	0	0	0	36
Kagi - Oi	- K	. 4	- 0	c	0	36	36	36	0	0	0	36	72	72	0	0	0	72
Cotton - I	5	5	, ,	, ,		2	8	84	0	0	0	8	168	168	0	0	0	168
Cotton - UI	, i	, n	· -	, c	• 0	. 99	99	99	0	0	0	58	112	112	0	0	0	112
Groundhut - 1	3 2	3 2	) D	0	0	2	84	84	0	0	0	84	168	168	0	0	0	168
	, <u>(</u>	, (c	c	c	0	90	20	48	0	7	0	90	100	98	0	2	0	100
Sugarcane Signally (1)	3 %	3 %		0	0	26	26	26	0	0	0	56	52	52	0	0	0	52
Guigeny (1)	î ?	4	c	∞	0	24	<b>54</b>	91	0	œ	0	24	48	32	0	16	0	48
Gingeily (UI)	* <b>7</b>	2	· (		•	9	4	á	0	c	0	16	32	32	0	0	0	32
Maize(I)	16	9 7	<b>o</b>	<b>&gt;</b> <		24	2 2	2 2	. 0	0	0	24	48	48	0	0	0	48
Maize(UI)	780	77.	0	0		780	780	768	0	12	0	780	1560	1539	0	21	0	1560
local	2	-																

TABLE 14 (Concld.)

CROPWISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED (2012-13)

Checked  Che			Central	iral					State		i i			Pooled	  -  -		
Posit harvest   Posit harves	Checked	Chec	hec	ked					Ched	pay		1		Se	cked		
60         #         60         60         0         0         0         120         118         2         0         0         0         120         118         2         0         0         140         140         140         140         140         140         0         0         140         280         280         280         <	Panned Harvest Post harvest		SSOT		Not report						lstoT	Planned	tsəvısH	-1			IEIO
40         140         140         0         0         140         280         280         280         0         0         0         0         0         40         0	50 58 2		0	1	0			09	0			120	118	7	0	0	120
40         40         40         60         40<	140 140 0 0	0	0		0	140	140	140	0			280	280	0	0	0	280
30         30         30         0         30         60         60         60         0         0         0           30         30         30         0         0         0         30         60         60         0	40 40 0 0	0	0		0	40	40	40	0			80	80	0	0	0	80
16         16         16         0         0         16         30         60 <td>30 30 0</td> <td>0</td> <td>o</td> <td></td> <td>0</td> <td>30</td> <td>30</td> <td>30</td> <td>o</td> <td></td> <td></td> <td>99</td> <td>90</td> <td>0</td> <td>0</td> <td>0</td> <td>90</td>	30 30 0	0	o		0	30	30	30	o			99	90	0	0	0	90
16         16         16         0         0         16         32         32         32         0<	30 30 0 0	0	0		0	30	30	30	0			99	99	0	0	0	90
24         24         24         48         44         46         46         46         46         46         46         46         46         46         46         46         46         46         46         46         46         60<	16 16 0 0	0	0		0	16	16	16	0			32	32	0	0	0	32
22         22         22         0         0         22         44         44         44         0         0         0         0         0         9         44         44         44         0 <th< td=""><td>24 20 4 0</td><td>4</td><td>0</td><td></td><td>0</td><td>24</td><td>24</td><td>24</td><td>0</td><td></td><td></td><td>48</td><td>44</td><td>4</td><td>0</td><td>0</td><td>48</td></th<>	24 20 4 0	4	0		0	24	24	24	0			48	44	4	0	0	48
18         18         0         0         18         36 <td>22 22 0 0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>22</td> <td>22</td> <td>22</td> <td>0</td> <td></td> <td></td> <td>44</td> <td>44</td> <td>0</td> <td>0</td> <td>0</td> <td>44</td>	22 22 0 0	0	0		0	22	22	22	0			44	44	0	0	0	44
36         36         6         0         36         72         72         72         0         0         0           84         84         6         0         0         64         168         168         0         0         0           56         56         56         0         0         0         6         64         168         168         0         0         0           56         56         56         0         0         0         6         64         168         166         2         0         0           50         50         50         0         0         0         6         169         160         0	18 18 0 0	0	0		0	18	18	18	0			36	36	0	0	0	36
84         84         64         168         168         168         6         0         0         0         6         4         168         168         0		0	0		0	36	36	36	0			72	72	0	0	0	72
56         56         56         0         0         56         112         112         0         0         0           84         84         84         0         0         0         84         168         166         2         0         0           50         50         50         0         0         0         50         100         100         0 <td></td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>84</td> <td>48</td> <td>84</td> <td>0</td> <td></td> <td></td> <td>168</td> <td>168</td> <td>0</td> <td>0</td> <td>0</td> <td>168</td>		0	0		0	84	48	84	0			168	168	0	0	0	168
84         84         84         0         0         84         168         166         2         0         0           50         50         50         0         0         50         100         100         0	0 0 99 99	0	0		0	56	99	56	0			112	112	0	0	0	112
50         50         50         0         0         50         100         100         100         0 <th< td=""><td>84 82 2 0</td><td>2</td><td>0</td><td></td><td>0</td><td><b>2</b></td><td>84</td><td>84</td><td>0</td><td></td><td></td><td>168</td><td>166</td><td>7</td><td>0</td><td>0</td><td>168</td></th<>	84 82 2 0	2	0		0	<b>2</b>	84	84	0			168	166	7	0	0	168
26         26         26         26         0         0         26         52         52         52         0         0         0           24         24         24         24         24         0         0         0         24         48         48         0	50 50 0 0	0	0		0	90	20	20	0			100	100	0	0	0	100
24         24         24         0         0         24         48         48         48         0         0         0           16         16         16         0         0         16         32         32         0         0         0           24         24         24         0         0         0         24         48         48         0         0         0           680         680         680         0         0         0         680         1440         1434         6         0         0	26 26 0 0	0	0		0	26	56	56	0			52	25	0	0	0	25
16         16         16         16         0         0         16         32         32         32         0	24 24 0 0	0	0		0	24	24	24	0			48	84	0	0	0	84
24         24         24         0         0         24         48         48         0         0         0           680         680         680         0         0         680         1440         1434         6         0         0		0	0		0	16	16	91	0			32	32	0	0	0	32
680 680 680 0 0 0 680 1440 1434 6 0 0	24 0	. 0	0		0	24	24	24	0		Ì	48	48	0	0	1	48
	9	9	0		0	680		680	0		ļ 	1440	1434	9	0	ļ	1440

TABLE 15

CROP WISE ESTIMATES OF YIELD RATE (kg /hec) DURING THE YEAR 2013-14 WITH SAMPLING ERROR

						Ctate				Pooled	pa	
		Central	ral			olar	1				Э	
	No. of Experiments	nents	rate	OL	No. of Experiments	eriments	eter t	גסג	No. of Expe	of Experiments	ld rat	ξιοι
Ć			pjej/	nne g	-		yielo	ıð 6ı			l∍i√ b	ə bui
Cro	guueq	pəsiler	stimated )	inilqms2 d	pəuue),	pəskleuv	betsmite∃	% Samplii	Planned	bə <b>s</b> ylsnA	Estimate	IdmeS %
	ld 8	ıA  8	1368 880	4 93	9 G	4 8	5174.010	5.95	120	120	4633.430	3.81
Paddy - Kar / Kuruvai	00	3 9	2000		, r	3 ;	4523.290	3.50	280	279	4309.960	2.62
Paddy - Samba	140	139	4091.150	2.92	<u> </u>	041	4740 400	7	Ca	08	5119.260	2.37
Paddy - Navarai	40	40	5385.810	2.90	0	4	47 12:100	<u>,</u>	3 :	) (	0400	0 0
world	30	30	2430.710	12.02	30	30	1716.940	24.49	00	9	7130.410	
	. C	3	1292 080	10.05	30	30	1644.620	37.58	09	90	1306.990	9.37
Jowar - UI	0 4	) <del>(</del>	1906 740	22.54	16	) t	2475.140	9.88	32	32	2336.030	9.10
Bajra - 1	<u>o</u> ;	2 ;	000000	1 1 1 0 0 0 1		2 ?	1519,960	33.83	48	48	1322.850	33.42
Bajra - Ul	24	74	763.930	0 0	, (	74	3447 200	10.12	44	44	3101.060	9.08
Ragi - I	22	22	3037.770	20.58	77	22	004	1 0		90	2340 000	4.92
Badi - 11	18	48	2290.720	6.08	48	18	2448.770	α.34 4	30	ટ્ર	2000	i (
10 - 18 C		36	0000	0.00	36	36	0.000	0.000	72	72	1550.930	6.25
Cotton - I	8 8	5 6		000	8	) (	0.000	0.000	168	168	1671.340	5.16
Cotton - UI	9 (	; (	0.000	47.22	i ir	t (	3617.640	16.27	112	112	3770.200	11.84
Groundnut - I	oc :	8 7	027.0.750	77: 1	) a	3 3	1857 160	9.21	168	168	2305.100	4.85
Groundnut - Ul	84	<b>2</b>	7030.040	D :	5 8	2	440440 BA	29	100	100	116538.310	4.72
Sugarcane *	20	20	120117.380	6.71	2	<b>4</b> 8	1000	5	} (	C	585 170	5.74
Gindelly (I)	26	26	628.530	25.33	56	26	583.170	5.86	25	70	000.170	- (
	77	16	686.060	16.46	24	16	544.170	10.88	48	40	574.780	9.12
Gingelly (OI)	T (		7024 290	13.36	16	16	6386.790	6.82	32	32	6499.890	6.08
Maize(I)	9 %	2 7	6529 420	8.01	24	24	6360.310	16.44	48	84	6495.580	/.20
Maize(UI)	and percentage		lave been woked out for pooled sample only	d out for p	pooled sam	ple only						

Estimated yield rate and percentage SE have been woked out for pools
 Tonne / hect.

TABLE 16

NUMBER OF EXPERIMENTS FOR WHICH NO SUBSTITUTION WAS DONE

No. of experiments for which no substitution was done		777 578	768	1560 1216 1539	780 633 780	780 662 780	1560 1295 1560
Tetal	Sample	Central	State	Pooled	Central	State	Popled
	Year		2013-14			2012-13	

TABLE 17

## CROPWISE DISTRIBUTION OF EXPERIMENTS ACCORDING TO THE MISTAKES OBSERVED DURING THE YEAR 2013-14 CENTRAL

Crop Crop Paddy - Kar / Kuruvai	No.of Experiments																4
Ì	checked at Harvest	e0	<del>6</del>	e5	e3	64	e2	9ə	67	89	69	e10	e11	e12	e14	e15	e lo
Paddy - Kar / Kuruvai	/Post Harvest									9		-	  -	  -	0	0	0
Doddy Samba	09	<b>-</b>	0	0	0	59	0	27	94	ο i	. ;	- (	) C	) C	· <del>-</del>	0	0
	130	35	0	0	0	37	0	97	87	<b>8</b>	<u>0</u>	p •	> <	) C		· C	O
addy - dailled	3		(	c	<b>C</b>	26	C	38	38	40	>		>	>	>	þ	) (
Paddy - Navarai	40	0	>	>	<b>)</b> (	₹,	) (		4	Ľ.	0	_	0	0	0	0	>
Jowar - I	30	10	0	0	0	_	>	ا ≏	ي ⊆	) 7		c	С	0	_	0	0
III - Jewol	30	21	0	0	0	<del>-</del>	0	,	റ		> 0	י כ		C	С	0	0
Baira - t	16	0	0	0	0	0	0	16	ဖ	4	<b>)</b>	<b>4</b> (	> 0	) C	· c		0
1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	) <del>-</del> (	4		0	0	9	0	Ŋ	20	<del>-</del>	)	>	<b>)</b>	<b>&gt;</b> (	<b>o</b> (	) C	
Bajra - ∪1	<del>5</del> 7	г (	, (	, ,	· c	α	C	12	13	თ	0	0	0	>	>	<b>&gt;</b> '	0 0
Ragi - I	22	တ	>	>	>	<b>o</b> '	) (	1 (		<b>C</b>	c	0	0	0	0	က	0
Bagi - [.]	18	15	0	0	0	0	0	<b>D</b>	> !	> 7	<b>,</b>	٠ ,	_	C	C	2	0
- cc#c	gg.	7	0	0	0	က	0	20	52	7.4	> .	- 0	> 0	· C		· <del>-</del>	a
	3 6	oc.	C	C	С	4	0	42	48	42	0	>	>	<b>&gt;</b>	o (		
Cotton - OI	84	67	> (	. (	) (	, c	c	36	43	33	_	<del>-</del>	0	-	0		>
Groundnut - I	26	7	)	⊃	<b>&gt;</b> '	77	) (	1 (		17	С	ဖ	0	0	0	တ	0
Groundnut - Ul	84	33	0	0	0	74	ָ כ	- 9	) i	: ?	, ,	4	o	0	0	0	0
Sugarcane	20	თ	0	0	0	15	0	04	07	2 c	י כ		· c	C	0	4	0
Cinaelly (I)	26	4	0	0	0	ო	0	တ	>	0	י כ	1 0	, (	· C	c	С	0
Grigoriy (r)	7 (	<u>ر</u>	_	С	0	0	0	0	<del>-</del>	0	0	>	> .	<b>)</b> (	0 0	· c	<u> </u>
Gingelly (Ut)	<u>0</u>	<u>)</u>	0 (		· C	•	C	12	တ	4	0	<del>-</del>	0	⊃	>	>	> (
Maize(I)	16	7	>	o 1	<b>&gt;</b> (	- (	, c	c	Œ	-	0	က	0	٥		0	
Maize(UI)	24	=						0 9	1,0	331	62	29	0	-	2	50	0
Total	771	214	0	9		180		420 4 10 331 a Francis reporting application of pesticides	orting c	application	n of pest	icides					
e0 = No. of experiments for which no mistakes observed e1 = Error in selecytion of Survey / Sub Number	which no mistakes observe urvey / Sub Number	D.						eo = Error in nersurement of field e10 =Error in checking random number for location of plots	n mersurer in checking	nent of fiel random r	ld Jumber fo	or location	of plots				
e3 = Error in reporting seed variety	variety							e11≃Error i	in tocating plot	olot .							
e4 = Error in reporting seed rate e5 = Error in reporting imgation particular e6 = Frror in reporting application of fertilizers	rate tion particular tation of fertilizers							e12=Error i e15 =Error e16 = Any o	e12=Error in plot dimension e15 =Error in reporting proportion of experimental crops in mixture / wrong reporting constituents in mix e15 = Any one of the item missing	nston 1 proportio 1em missir	n of exp€ ng	arimental .	crops in n	ixture / v	vrong repo	orting cons	ittuents ir
e7 = Error in reporting application of manures	zation of manures																

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TABLE 17

CROPWISE DISTRIBUTION OF EXPERIMENTS ACCORDING TO THE MISTAKES OBSERVED DURING THE YEAR 2013-14

		)	:    -				STATE	Ш			į						
Crop	No of Experiments checked at Harvest /	9	e 6	e2	e3	e4	65 65	ge	£9	68 	9 6	e10	Ф <u>7</u>	e12	e14	e15	e16
	Post Harvest	ļ				1	,			C	u	-		c	C	C	0
Paddy - Kar/ Kuruvai	09	49	0	0	0	7	<b>-</b>	7	>	>	0 1	- ı	<b>.</b>	· (	, c	, ,	· c
Paddy - Samba	140	107	0	0	0	9	0	5	വ	4	വ	Դ	<b>o</b>	<b>&gt;</b> (	<b>&gt;</b> (	> 0	<b>&gt;</b> (
Doddy Moyorai	£ €	50	0	0	0	4	0	0	9	7	0	0	0	0	0	0	<b>o</b> '
Faugy - Navalai	04 0	90	· c	· c	0	C	С	2	2	0	0	0	0	0	0	0	0
Jowar - I	<u>9</u>	0 0	<b>)</b> (	<b>)</b>		) C	) C	ות	ı m	C	2	0	0	0	0	0	0
Jowar - Ul	30	ç2 7.2	۰ د	<b>&gt;</b> (	<b>5</b> (	> 0	D C	) C	) C	· c	۱ ۲	С	0	0	0	0	0
Bajra - I	16	4	0	<b>-</b>	0	٠ د	<b>o</b> (	<b>)</b> (	<b>&gt;</b> (	> <	1 +	· c	· c	· C	C	0	0
Baira - Ul	22	21	0	0	0	0	<b>-</b>	>	>	> '	- ,	<b>)</b> (		) c	, ,		c
	22	20	0	0	0	0	0	0	0	0	7	>	⊃	<b>o</b>	<b>&gt;</b> '	> 0	
	27	· +	· c	c	c	C	0	0	0	0	7	0	0	0	0	0	Þ
Ragi - Ul	18	_ ;	> (	<b>)</b>	<b>.</b>	, ,	, ,		c	C	~	0	0	0	0	0	0
Cotton - I	36	34	0	Ç.	>	) ·	<b>&gt;</b> (	<b>&gt;</b> (	, (	) T	1 5		C	C	0	0	0
Cotton - Ui	84	29	0	0	7	<b>-</b>	<b>&gt;</b>	7	۰ د	- (	<u>,                                    </u>	- •	) C	· c		C	0
Groundant - 4	ή. O	39	0	0	0	7	0	ဖ	4	Ω	4	-	> (	> (	> 0	, (	, ,
1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	) 0	ő	C	0	0	0	0	4	4	0	ω	τ	>	>	>	> '	) (
Groundhut - Of	40	3 8	, (	) c	٠ ٦	· c	C	4	0	7	ო	_	0	0	<del>-</del>	0	0
Sugarcane	48	n :	) (	<b>)</b> (	- (	> 0	) c	- ح		_	С	0	0	0	0	0	0
Gingelly (I)	26	56	0	<b>&gt;</b>	<b>)</b>	<b>)</b> (	<b>)</b>	) c	o c	) C		0	0	0	0	<del>-</del>	0
Gingelly (UI)	16	10	0	0	0	N	>	n 1	<b>&gt;</b> (	) c	, c	ı c		C	С	0	0
Maize(I)	16	4	0	0	0	0	0	2	)	۰ د	۰ د	<b>.</b>	> 0	) C	· c	· c	C
Maize(III)	24	23	0	0	0	O	0	0	٥	٥	-	>	) >  	٥	> \	7	
Total	768	625	0	0	т	16	0	41	24	4	55	12		5	-	-	
e0 = No. of experiments for	e0 = No. of experiments for which no mistakes observed	 				<u>.</u>		e8 = Error i	e8 = Error in reporting application of pesticides e9 = Error in mersurement of field	application tent of fiel	n of pesta d	cides					
e1 = Error in selecytion of Survey / Sub Number	Survey / Sub Number							e 10 = Error	e 10 = Error in checking random number for location of plots	random r	umber fo	r location	of plots				
e3 = Error in reporting seed variety	d variety							e11=Error i	e11=Error in locating plot	₫							
e4 = Error in reporting seed rate	d rate ation particular							е12=Епогі	e12=Епог in plot dimension	noist		4		ivture / w	מפיז המטי	ding const	tuents in mix
es = Error III reporting impairor personal es = Fror in reporting application of fertilizers	ication of fertilizers							e15 =Error	in reporting	proportio	orexpe	o merinan c	edo:	2 0 0 0 0	2	ņ	=Error in reporting proportion of experimental dobs in mixture, mixing type was commended to the first mixing and the mixing of the mixing mixing and the mixing of the mi
e7 = Error in reporting application of manures	lication of manures							elb = Any (	grieder indirection	100	מַ						

e15 = Error in reporting proportion of experimental crops in mixture / wrong reporting constituents in mix

e16 = Any one of the item missing

e6 = Error in reporting application of fertilizers e7 = Error in reporting application of manures

e5 = Error in reporting imgation particular

e4 = Error in reporting seed rate

e12=Error in plot dimension

0

TABLE 17

CROPWISE DISTRIBUTION OF EXPERIMENTS ACCORDING TO THE MISTAKES OBSERVED DURING THE YEAR 2013-14

POOLED

e16 0000 00000 e15 7 0 0  $^{\circ}$ e14 Q O 0 0 e12 00 0 e10 = Error in checking random number for location of plots e11 0 0 0 0 Q e10 4 e8 = Error in reporting application of pesticides 8 မေ  $\infty$ e9 = Error in mersurement of field 345 44 43 17 e8  $\infty$ 442 8 6 6 20 20 13 0 48 37 47 e' 467 4 44  $\infty$ မှ 65 0 0 0 0 196 5 24 ന 4  $\sim$ ω O မွ **6**2 0 0 0 0 00 e, 0 Q 102 14 25 26 26 96 မှ 4 4 e0 = No. of experiments for which no mistakes observed No. of Experiments checked at Harvest e1 = Error in selecution of Survey / Sub Number Post Harvest 168 168 52 32 32 48 44 e3 = Error in reporting seed variety Paddy - Kar / Kuruvai Paddy - Navarai Paddy - Samba Groundnut - UI Total Crop Groundnut - 1 Gingelly (UI) Sugarcane Gingelly (I) Cotton - Ui Jowar - Ul Maize(UI) Ragi - Ul Bajra - Ul Cotton - I Ragi - 1 Jowar - I Bajra - I Maize(I)

TABLE 17 (Concld)

CROPWISE DISTRIBUTION OF EXPERIMENTS ACCORDING TO THE MISTAKES OBSERVED DURING THE YEAR 2012-13

Crop	No. of Experiments checked at Harvest	e0	e <b>,</b>	e2	e3	64	e5	eę	67	e8	69	e10	e17	e12	e14	e 15	e16
,	/Post Harvest								5	70	4,00	ď	c	٣.	С	~	0
Paddy - Kar / Kuruvai	118	53	ന	က	0	37	0	28	25	5 5	2 !	1 C	1 (	) c			_
Paddy - Samba	280	145	4	9	4	45	9	105	75	81	ັນ	•	>	<b>&gt;</b> (	۰ د	> 0	> c
	<u> </u>	35	0	0	0	20	ო	36	32	30	4	0	0	0	,- ·	<b>&gt;</b> ·	<b>-</b> 0
raduy - Navarai	8 6	36		- 1-	7	4	0	10	7	7	ന	₹~-	0	0	0	<del>-</del> -	>
	00	ς α	, =	- C		. ო	0	Ŋ	6	0	0	0	0	0	<del>-</del>	0	0
	00 0	5 1	) (	o c	) c	, <	· c	00	g	7	7	0	0	0	0	0	0
	32	- 6	<b>)</b> (	<b>.</b>	o 0	ד ע	) c	) o	φ.	С	0	0	0	0	0	0	0
	44	χ γ	<b>&gt;</b> (	<b>&gt;</b> (	<b>)</b> (	> (	, (	) <u>'</u>	, ,-	· <del>-</del>	τ-	0	0	0	0	0	0
	44	56	<b>5</b>	>	) ·	<u> </u>	<b>)</b> (	2 c	<u> </u>	· c		c	0	0	0	0	0
	36	34	0	0	0	0	<b>&gt;</b>	>	7	> {	٠ د	, (	) C		c	0	С
	72	36	0	0	ന	4	0	30	56	56	-	- (	> 0	o (	) c	1 C	· c
	168	06	0	0	12	9	0	21	47	37	4	7	<b>&gt;</b>	<b>&gt;</b> (	<b>1</b> (	o (	o c
_	5 7	7.	C	<b>C</b>	ĸ	25	0	20	38	31	က	4	က	0	)	>	<b>)</b> (
Groundhut - I	711	. 1	) ~	, 4-	. ~	32	О	20	39	23	7	2	0	0	7	<del>-</del>	<b>&gt;</b>
Groundnut - UI	විදු	, i	- 0	- c	- ر	2 6	, ,	46	27	ω	4	4	0	0	0	0	0
	100	33	<b>&gt;</b>	<b>)</b>	ი .	<b>†</b> (	5 0	) (	1 r.	σ	ď	co.	0	0	0	τ-	0
	52	56	0	<b>&gt;</b>	4	ا ۵	<b>5</b> (	1 9	) LI	· <	) C	· <del>*</del> -	О	0	0	0	0
Gingelly (UI)	48	35	0	0	ဖ	0	<b>&gt;</b> (	~ (	ם פ	1 0	י כ	٠,٠	· C	τ-	0	0	0
	32	17	0	0	<b>-</b>	4	တ (	ъ (	ρÇ	<b>)</b> (	o c	۰ ،	o C	τ-	0	0	0
	48	31	0	0	~	-	0	2	2    -		5	300	٥ د	ď	S	9	0
Total	1552	826	ဆ	11	51	233	15	4/9	477	23d		Solid	,	,			
periments for welection of Su	e0 = No. of experiments for which no mistakes observed e1 = Error in selecytion of Survey / Sub Number						ψ Ψ ,	98 ≈ Error II 99 = Error iI	e8 ≈ Error in reporting application or pessuades e9 = Error in mersurement of field Error in Application random number for location of plots	application tent of field random n	on pesu d umber fo	cross or location	of plots				
e3 = Error in reporting seed variety	ariety						D G	e 10 - Error i	in locating plot	lot							
e4 = Error in reporting seed rate	ate po particular						. Ψ	e12=Error	in plot dimension	Sion		4000	m di Sacar	w/ daily:	יטחט נפטטו	ting consti	tuents in mi
es = Error in reporting imgagon per usual es = Front in reporting application of fertili	es = Error in repoliting imparion particular as = Error in reporting application of fertilizers						w	e15 =Error	in reporting	proportion	of expe	umentai c	e don	ייייייייייייייייייייייייייייייייייייייי		ņ	e15 = Error in reporting proportion of experimental crops in mixture ( ) and ( ) cross =
eporting applica	e7 = Error in reporting application of manures						Ψ	e16 = Any (	Any one of the item fillswing		מכ						

TABLE 18

11.92 7.37 2.82 15.05 9.23 3.39 % 115 142 116 93 22 26 Pegs 1.79 3.39 2.21 0.51 3.08 102 % Equipments not supplied 28 24 26 4 8 œ Weights 2.18 3.08 1.28 2.86 3.39 2.33 YEAR-WISE POSITION OF SUPPLY AND USE OF CROP CUTTING EQUIPMENTS % 8 9 24 26 4  $\frac{\omega}{\omega}$ Balance 3.08 1.67 0.26 3.39 1.82 0.26 % 26 24 28 28 2 7 Tape 97.18 92.63 96.61 88.08 90.77 84.95 % 1445 1397 758 687 742 655 ьeda 98.21 96.95 97.76 99.49 96.61 98.96 % Equipments supplied 1532 1505 756 776 742 763 Weights 97.82 96.95 98.72 97.14 96.61 97.67 % 1526 1495 770 756 742 753 Balance 98.33 98.18 99.74 96.72 99.74 96.61 % 1534 1511 778 756 742 769 Таре Sample Pooled Central Central Pooled 2012-13 State 2013-14 State Year

TABLE 19

STATEMENT SHOWING THE DETAILS OF YEAR-WISE CROP CUTTING EXPERIMENTS CONDUCTED BY THE DESIGNATED PRIMARY WORKERS (TRAINED) AND DELEGATED WORKERS

	ļ	Total no. of		No. of Ex Trained	No. of Experiments conducted by rained	ucted by	
Year	Sample	checked at harvest and post harvest stage	Non- designated equivalent / senior persons	Delegated workers (Junior)	Designated Persons (No change in primary workers)	Untrained	Total
	Central	771	771	, o	0	0	771
2013-14	State	768	768	0	0	0	768
	Pooled	1539	1539	0	0	0	1539
	Central	772	772	0	0	0	772
2012-13	State	780	780	0	0	0	780
	Pooled	1552	1552	0	0	0	1552