

# Sri Lanka - Crop Estimating Survey on Paddy (Maha) - 2010

**Department of Census and Statistics**

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## Identification

### SURVEY ID NUMBER

LKA-DCS-CESP[M]-2010-v1.0

### TITLE

Crop Estimating Survey on Paddy (Maha) - 2010

### COUNTRY

Name	Country code
Sri Lanka	LKA

### STUDY TYPE

Agricultural Survey [ag/oth]

### SERIES INFORMATION

This survey was started in the year 1950. It is conducted covering Yala and Maha seasons with a view to estimate the average yield of paddy and production by District. In a Maha season about 6000 and in a Yala season about 4000 experiments are being conducted for this survey and it is the only source to estimate the country's paddy production. The findings are essential to calculate various important figures such as volume of additional rice requirement of the country to be imported

This survey is carried out in each season of a cultivation year to collect the paddy extent under categories namely;

Asweddumized Extent

Sown Extent

Harvested Extent

Paddy extent is estimated on the basis of complete enumeration of paddy parcels in the county covering both Maha and Yala seasons.

All these variables are being collected through a form known as P1. The extent categories are again classified by type of irrigation namely;

Major Irrigation Schemes

Minor Irrigation Schemes

Rain-fed

### ABSTRACT

Crop estimating survey on paddy which is popularly known as "Crop Cutting Survey" commenced in the year 1950. It is conducted covering Maha and Yala season with a view to estimate the average yield of paddy and production by District. In a Maha season about 6,000 and in a Yala season about 4,000 experiments are being conducted for this survey and it is the only source to estimate the country's paddy production. Policy Planners are benefited by these data in numerous ways for taking the decisions such as volume of additional rice requirement of the country to be imported in time, evaluation of extension programs undertaken to uplift the average yields of paddy, pricing policies of rice, mobilization of stocks from one place to another and many more. Therefore, it is a great responsibility to estimate paddy production accurately and timely to fulfill the national requirement.

Field staff attached to each District has been entrusted with many responsibilities on various data collection activities and among them, method of data collection for crop cutting is different from the other surveys. This survey is associated with an objective approach; as such crop cutting officers should carry out experiments in the field by themselves. According to the standard procedure, the crop cutting officer must visit the selected paddy field and they should follow a number of steps such as; demarcate the specified plot of land equivalent to 16' ½" X 16' 1/2" (a paddy land of one perch of an acre), harvest the crop of the plot, thresh the grain, measure the grain using standard set of seers and finally report the results through the prescribed form CC3.

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Concepts, Definitions and Classifications associated with Crop Estimation of Paddy Survey

Seasons - In Sri Lanka there are two major cultivation seasons associated with two monsoons and they are known as Maha season and Yala Season.

Maha Season is the main season associated with North-east monsoons effective during September - April in the following year. When a particular crop is planted and harvested during this period is known to be Maha Crop.

Yala season is the secondary season which is associated with South-west monsoons effective during the period between May to September. When a particular crop is planted and harvested during this period is known to be Yala Crop.

#### Mode of Irrigation

There are three type of irrigations related with paddy cultivation. They are (1). Major Irrigation schemes (2). Minor Irrigation schemes (3). Rain-fed schemes.

Major Irrigation schemes defined to be an irrigated scheme of which water is fed to more than 200 acres otherwise it defines as a Minor Irrigation scheme.

Rain-fed is defined, if the cultivated extent is purely depending on rain water in absence of permanent water tank or reservoir.

Volume of Production is reported in Metric Tons.

Average Yield per acre or Hectare: An Indicator of productivity per area unit (2.471 acres = 1 hectare while 1 hectare is equal to 1,000 square meters) estimated through crop cutting survey. Average yield per acre is reported in Bushels while per hectare is reported in Kgs.

Average yield is expressed in terms of Paddy (grain with the husk form but not in Rice form)

Area Harvested refers to the gross area of which the harvest is gathered excluding the area damaged due to different causes.

Gross Area refers to the extent of which reported by enumerators or respondents based on cultivated extent estimated by seed rates but not based on cadastral surveys while Net Area refers to the extent evolved by deducting the extent set a part for bunds and ridges.

Production for a year should consider to be the sum of the production of Maha season and Yala season. For instance the production of the year 2005 is to be the sum of 2004/05 Maha season and Yala season of 2005.

#### KIND OF DATA

Sample survey data [ssd]

#### UNIT OF ANALYSIS

Paddy land Parcel 16 1/2" X 16 1/2", Where smaller experimental plot sizes are used in terraced fields.

## Version

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#### VERSION DESCRIPTION

V1.0: Full edited dataset, original version for internal DPD Use

#### VERSION DATE

2009-09-10

## Scope

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#### NOTES

Geographical information  
Paddy parcel information  
System of tenure  
Method of preparation of land  
Variety of seed  
Method of sowing

Application of Fertilizer  
Weeding  
Insects/Fungus control  
Adverse affects on crop  
Yield

## TOPICS

Topic	Vocabulary	URI
agricultural, forestry and rural industry [2.1]	CESSDA	<a href="#">Link</a>

## Coverage

## GEOGRAPHIC COVERAGE

National Coverage

## UNIVERSE

The survey covered a random sample from all the paddy lands in Sri Lanka

## Producers and sponsors

## PRIMARY INVESTIGATORS

Name	Affiliation
Department of Census and Statistics	Ministry of Finance and Planning

## FUNDING AGENCY/SPONSOR

Name	Abbreviation
Government of Sri Lanka	GOSL

## Sampling

## SAMPLING PROCEDURE

Sampling Design: The sampling design adopted in the survey is a stratified multistage sampling method where DS Divisions were treated as strata and mode of irrigation schemes namely; Major, Minor, and Rain-fed as sub strata. Number of villages to be selected for crop cutting experiments in each scheme is decided on the basis of the following proportions.

Acreage sown in the previous corresponding season Number of villages to be selected

< 500 Acres 3

500 - <1000 Acres 5

1000 - < 5000 Acres 10

5000 - < 10,000 Acres 15

10,000 - < 15,000 Acres 20

15,000 - < 20,000 Acres 25

20,000 Acres and above 30

Though the recommended design is such, considering the sampling variances occurred during the previous seasons, the number of experimental villages to be selected is being curtailed in order to keep the number of villages within a range of 3,000 for a Maha season and 2,000 for a Yala season in a year. Other reasons for such restrictions were related to practical aspects like cost of the survey and number of personnel that could be deployed to carry out crop cuttings.

In each selected village two crop cutting experiments are conducted. At present the sample villages and the parcels are selected at random. However, prior to 1980, selection of villages as well as parcels was done at random with probability proportional to the area cultivated during the previous corresponding season with replacement. As the procedure was somewhat laborious and time consuming, it was replaced with the present system i.e. both stages at random. Sample

villages are selected in the head office while the selections of parcels are done at the respective Districts.

Controlling of Non-sampling Errors: In view of the accuracy of the experimental results, a sample of 1/5 of selected villages are to be supervised by executive officers/District Heads identified from the District such as DS/GA, Divisional Secretary, Director/Deputy Director of Agriculture, Deputy Commissioners of Agrarian Development in addition to the Senior Staff of DCS attached to the District. Spot checks are to be performed by them by visiting the sample villages.

## Data Collection

### DATES OF DATA COLLECTION

Start	End
2010-10-01	2011-04-30

### DATA COLLECTION MODE

Face-to-face [f2f]

### SUPERVISION

"Agricultural Research and Production Assistants (ARPO) earlier known as "Govi Sevana Niyamakass" of Agrarian Development Department attached to Agrarian Service Centers do play the role of "Primary Reporters" to report the extent in P1 form which is parcel-wise enumeration of all paddy growing parcels.

They list out the area Asweddumized, Sown and Harvested in Maha and Yala seasons at village/Yaya, Tract/Kandam in the prescribed form. Here the "paddy parcel" is defined to be piece/plot of land cultivated by one individual farmer or group of farmers jointly surrounded by another paddy parcel cultivated by another individual farmer or group of farmers or any land cultivated with crops other than paddy or uncultivated land such as road, stream etc.

The paddy extent thus enumerated is summarized by Village/Yaya/Tract/Kandam and transferred to the form known as P2 which gives the aggregate extent under paddy by above categories and by irrigation modes at GN division level and by DS level. This form is prepared by the Range Statistical Officer attached to a particular DS. During the Yala season the sown and harvested extents are recorded while asweddumized extent is updated, only if there occurs a change.

However, it is to be noted that the Districts where ARPOs are not appointed, Grama Niladaris (GNN) are still acting as primary reporters for the collection of paddy statistics as well as other agricultural statistics. This is specifically true for Northern and Eastern Provinces.

The aggregate extent prepared for DS level leads to the compilation of paddy extent at various higher levels such as District and All Island Level. It is important to note that the extent reported/listed in the P1 form is the "Gross Extent" since the extent of most of the paddy parcels are not based on any cadastral survey or measures, but reported extent are based on seed rates or traditional measurement or guesstimates as per the knowledge of respective farmers. This gross extent is ultimately converted to net-extent by applying correction factors which were determined at District level through a land measurement survey carried out by means of a sample of paddy parcels with the assistance of the Survey General Department in 1970s.

The list prepared by the primary reporters in the P1 form acts as the basis for the selection of sample of paddy parcels while the list of paddy growing villages compiled in the P2 form acts the basis to select villages for the National Crop Cutting Survey on Paddy conducted by the Agriculture and Environment Statistics Division of DCS.

### DATA COLLECTION NOTES

Crop Cutting Officers: Once the list of villages are transmitted to the Statistics Branch of the respective District, the Head of the Division Deputy Director/Senior Statistician/Statistician has to identify the crop cutting officers who are to be suitable for conducting these experiments in the selected villages. Guideline is to choose them preferably out of the field officers attached to the respective DS Divisions who are related to the discipline of agriculture such as Agricultural Officers/Agricultural Instructors of the Ministry of Agriculture, Divisional Officers of Department of Agrarian Development, Colonization Officers, etc. in addition to the Range Statistical Officers of DCS. Range Statistical Officers should undertake at least three experiments in his range. The direction is to discuss this matter in the District Agriculture Committee Meeting (DAC) held once in a month chaired by District Secretary/Government Agent and then assign the villages in concurrence with the DS/GA

The Statistical officer (SO) or the Agriculture Instructor (AI) in the area visits the selected paddy land along with the farmer

and cuts the crop in the demarcated area. The crop is measured in Seers then and there and the yield is recorded. Then in the same way yield for the other parcel is recorded. The crop collected for measuring is returned to the farmer. In addition to the yield recorded in this manner, other relevant information requested in the form C.C.3 has to be collected .

Ancillary Information: When crop cuttings are done in the field, in addition to sample fields selected for crop cuttings, an extra set of sample (four parcels) fields are selected to collect ancillary information related to the paddy crop viz. usage inputs, system of tenure, variety of seed, etc. Along with the final estimates on production and average yield the estimated extent related to the above characteristics are being disseminated.

## DATA COLLECTORS

## Questionnaires

### QUESTIONNAIRES

The questionnaire is Form C.C.3 printed in Sinhala/English and Tamil/English languages. It has three parts.

Part I is about the geographical and Paddy land parcel information.

Part II includes System of tenure, Method of preparation of land, Variety of seed, Method of sowing, Application of Fertilizer, Weeding, Insecticides, Fungicides, Adverse affects on crop.

Part III Collects yield information.

In the questionnaire the above information is recorded for two parcels selected for the survey. The same Form C.C.3 is used to collect data for both Yala and Maha seasons. Maha Season falls during "North-east monsoon" from September to April in the following year. Yala season is effective during the period from May to end of August.

## Data Appraisal

### ESTIMATES OF SAMPLING ERROR

Formulae needed to calculate Avg. Yield & Variance for a given Stratum is available in the External Resource Section.

## Access policy

### CONTACTS

Name	Affiliation	Email	URL
Director General	Department of Census and Statistics	dgcensus@sltnet.lk	<a href="#">Link</a>
Agriculture and Environment Statistics Division	Department of Census and Statistics	agriculture@statistics.gov.lk	<a href="#">Link</a>
Information Unit	Department of Census and Statistics	information@statistics.gov.lk	<a href="#">Link</a>

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Under the Statistical ordinance, micro data cannot be released with identifications for public use. Procedures are in place to ensure that information relating to any particular individual person, household or undertaking will be kept strictly confidential and will not be divulged to external parties. Information on individual or individual Household/establishment will not be divulged or published in such a form that will facilitate the identification of any particular person or establishment as the data have been collected under the Census/Statistical ordinance, according to which the information at individual level cannot be divulged and such information is strictly confidential.

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6. An electronic copy of all reports and publications based on the requested data will be sent to the Department

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- The released Data file should be used only for the specific study/Analysis mentioned in the agreement form and shall not be used for any other purpose without the prior approval of the Director General of the DCS. Moreover, Copies of the micro-data file, obtained from the DCS, shall not be given to anyone else without the prior written approval of the Director General of the DCS.
- The draft report of the Study/Analysis should be submitted to the DCS and the concurrence of the DG of the DCS, should be obtained before publishing it. Once published, a copy of the final report should be submitted to the DCS.

[Department : The Department of Census and Statistics (DCS)]

Source : [http://www.statistics.gov.lk/databases/data\\_dissemination/DataDissaPolicy\\_2007Oct26.pdf](http://www.statistics.gov.lk/databases/data_dissemination/DataDissaPolicy_2007Oct26.pdf)

#### CITATION REQUIREMENTS

Department of Census and Statistics, Crop Estimation Survey on Paddy [Maha] 2009 [CESP(M) 2009], Version 1.0 of the internal use dataset September 2009, provided by the National Data Archive, Data Processing Division, [www.statistics.gov.lk](http://www.statistics.gov.lk)

#### ACCESS AUTHORITY

Name	Affiliation	Email	URL
Director General	Department of Census and Statistics	dgcensus@sltnet.lk	<a href="#">Link</a>

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## Metadata production

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DDI DOCUMENT ID

DDI-LKA-DCS-CESP[M]-2010-v1.0

PRODUCERS

Name	Abbreviation	Affiliation	Role
Department of Census and Statistics	DCS	Ministry Of Finance and Planning	Conducting the survey

DATE OF METADATA PRODUCTION

2009-09-10

DDI DOCUMENT VERSION

Version 1.0 (2009)



**Data Dictionary**

<b>Data file</b>	<b>Cases</b>	<b>Variables</b>
<b>Maha 2010-2011</b>	6974	38



**Data file: Maha 2010-2011**

Cases: 6974

Variables: 38

**Variables**

ID	Name	Label	Question
V86	SNO	Serial Number	
V87	QA	a. Distrcit	
V88	QB	b. D.S Division	
V89	QD	d. G.N Division	
V90	QE	e. Village	
V91	QF	f. Mode of Irrigation	
V92	QAM	a. Mahaweli System	
V93	QBM	b. Block Manager's Division	
V94	QDM	d. Unit Manager's Division	
V95	QC	c. A.S. Centre	
V96	P2LAA	I. Extent sown in Parcel - A	
V97	P2LRA	I. Extent sown in Parcel - R	
V98	P2LPA	I. Extent sown in Parcel - P	
V99	P2Q1A	1. System of Tenure	
V100	P2Q21A	2.1 Method of preparation of land - By Tractor	
V101	P2Q22A	2.2 Method of preparation of land - Buffalo Ploughed	
V102	P2Q23A	2.3 Method of preparation of land - Buffalo Muddled	
V103	P2Q24A	2.4 Method of preparation of land - By Mamote / Hoe	
V104	P2Q25A	2.5 Did you use weedicide	
V105	P2Q3A	3. Source of obtaining seed Paddy	
V106	P2Q4A	4. Variety of seed Paddy	
V107	P2Q5A	5. Method of Sowing	
V108	P2Q6A	6. Application of Fertilizer	
V109	P2Q651A	6.5.1. Used Quantity - MOP (Kg)	
V110	P2Q652A	6.5.2. Used Quantity - TSP (Kg)	
V111	P2Q653A	6.5.3. Used Quantity - Urea (Kg)	
V112	P2Q7A	7. Weeding	
V113	P2Q8A	8. Insecticide	
V114	P2Q9A	9. Adverse affects on crop	
V115	P2Q10A	10. Method of Harveting	
V116	P2Q11A	11. Method of Thresing	
V117	P2Q12A	12. Use of Straw	
V118	P3Q2A	i. Yield - Seer	
V119	P3Q6A	vi. Expected Yield (Bushels)	
V120	P3Q7A	vii. Intend to do for your share of yield	
V121	DFD		
V122	YieldBushelsppperAcre		
V123	PARCELEXT		

Total: 38



**SNO: Serial Number****Data file: Maha 2010-2011****Overview**

Valid: 6974   Invalid: 0   Minimum: 1   Maximum: 37561   Mean: 130.913   Standard deviation: 644.283  
 Type: Continuous   Decimal: 0   Width: 5   Range: 1 - 37561   Format: Numeric

**QA: a. Distrcit****Data file: Maha 2010-2011****Overview**

Valid: 6974   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 2   Range: 11 - 92   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
11	Colombo	104	1.5%
12	Gampaha	292	4.2%
13	Kaluthara	452	6.5%
21	Kandy	102	1.5%
22	Mathale	300	4.3%
23	Nuwara Eliya	52	0.7%
31	Galle	196	2.8%
32	Matara	268	3.8%
33	Hanbantota	184	2.6%
41	Jaffna	72	1%
42	Mannar	18	0.3%
43	Vavuniya	44	0.6%
44	Mullativu	0	0%
45	Kilinochchi	0	0%
51	Batticaloa	24	0.3%
52	Ampara	298	4.3%
53	Trincomalee	320	4.6%
61	Kurunegala	608	8.7%
62	Puttalam	430	6.2%
71	Anuradhapura	1314	18.8%
72	Polonnaruwa	620	8.9%
81	Badulla	354	5.1%
82	Monaragala	572	8.2%

91	Ratnapura	270	3.9%
92	Kegalle	80	1.1%

**QB: b. D.S Division****Data file: Maha 2010-2011****Overview**

Valid: 6974 Invalid: 0 Minimum: 3 Maximum: 87 Mean: 23.24 Standard deviation: 17.287  
 Type: Continuous Decimal: 0 Width: 2 Range: 3 - 87 Format: Numeric

**QD: d. G.N Division****Data file: Maha 2010-2011****Overview**

Valid: 6974 Invalid: 0 Minimum: 0 Maximum: 210 Mean: 2.451 Standard deviation: 12.921  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 210 Format: Numeric

**QE: e. Village****Data file: Maha 2010-2011****Overview**

Valid: 6974 Invalid: 0 Minimum: 0 Maximum: 71 Mean: 4.992 Standard deviation: 7.604  
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 71 Format: Numeric

**QF: f. Mode of Irrigation****Data file: Maha 2010-2011****Overview**

Valid: 6974 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Major	2538	36.4%
2	Minor	2182	31.3%
3	Rainfed	2254	32.3%

**QAM: a. Mahaweli System****Data file: Maha 2010-2011****Overview**

Valid: 746    Invalid: 6228    Minimum: 0    Maximum: 29    Mean: 16.898    Standard deviation: 11.673  
 Type: Continuous    Decimal: 0    Width: 2    Range: 0 - 29    Format: Numeric

**QBM: b. Block Manager's Division****Data file: Maha 2010-2011****Overview**

Valid: 724    Invalid: 6250  
 Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 18    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		8	1.1%
1		32	4.4%
2		114	15.7%
3		12	1.7%
4		78	10.8%
5		40	5.5%
6		98	13.5%
7		12	1.7%
8		64	8.8%
10		96	13.3%
12		62	8.6%
14		64	8.8%
16		30	4.1%
18		14	1.9%
Sysmiss		6250	

**QDM: d. Unit Manager's Division****Data file: Maha 2010-2011****Overview**

Valid: 244    Invalid: 6730  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 10    Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		12	4.9%
1		108	44.3%
2		58	23.8%
3		20	8.2%
4		10	4.1%
5		12	4.9%
6		4	1.6%
7		4	1.6%
8		8	3.3%
9		4	1.6%
10		4	1.6%
Sysmiss		6730	

### QC: c. A.S. Centre

Data file: Maha 2010-2011

#### Overview

Valid: 2836 Invalid: 4138 Minimum: 0 Maximum: 9106 Mean: 1085.611 Standard deviation: 2479.088  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 9106 Format: Numeric

### P2Q21A: 2.1 Method of preparation of land - By Tractor

Data file: Maha 2010-2011

#### Overview

Valid: 5855 Invalid: 1119  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		15	0.3%
1	By Tractor	5840	99.7%
Sysmiss		1119	

**P2Q22A: 2.2 Method of preparation of land - Buffalo Ploughed****Data file: Maha 2010-2011****Overview**

Valid: 587 Invalid: 6387

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		16	2.7%
2	Buffalo Ploughed	571	97.3%
Sysmiss		6387	

**P2Q23A: 2.3 Method of preparation of land - Buffalo Muddled****Data file: Maha 2010-2011****Overview**

Valid: 111 Invalid: 6863

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		6	5.4%
3	Buffalo Muddled	105	94.6%
Sysmiss		6863	

**P2Q24A: 2.4 Method of preparation of land - By Mamote / Hoe****Data file: Maha 2010-2011****Overview**

Valid: 403 Invalid: 6571

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		1	0.2%

4	By Mamotee/Hoe	402	99.8%
Sysmiss		6571	

## P2Q25A: 2.5 Did you use weedicide

Data file: Maha 2010-2011

### Overview

Valid: 4123 Invalid: 2851

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	2079	50.4%
2	No	2044	49.6%
Sysmiss		2851	

## P2Q3A: 3. Source of obtaining seed Paddy

Data file: Maha 2010-2011

### Overview

Valid: 6576 Invalid: 398

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Owned	2582	39.3%
2	From other farmer	1750	26.6%
3	From Dept. of Agriculture	1226	18.6%
4	From other approved source	936	14.2%
5	Other	82	1.2%
Sysmiss		398	

## P2LAA: I. Extent sown in Parcel - A

Data file: Maha 2010-2011

## Overview

Valid: 6974 Invalid: 0 Minimum: 0 Maximum: 24 Mean: 1.116 Standard deviation: 1.355  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 24 Format: Numeric

### P2LRA: I. Extent sown in Parcel - R

Data file: Maha 2010-2011

## Overview

Valid: 6974 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3349	48%
1		785	11.3%
2		2311	33.1%
3		529	7.6%

### P2LPA: I. Extent sown in Parcel - P

Data file: Maha 2010-2011

## Overview

Valid: 6974 Invalid: 0 Minimum: 0 Maximum: 39 Mean: 1.918 Standard deviation: 6.297  
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 39 Format: Numeric

### P2Q1A: 1. System of Tenure

Data file: Maha 2010-2011

## Overview

Valid: 6730 Invalid: 244  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Singly Owned	5234	77.8%
2	Jointly Owned	382	5.7%
3	Ande	905	13.4%

4	Other	209	3.1%
Sysmiss		244	

## P2Q4A: 4. Variety of seed Paddy

Data file: Maha 2010-2011

### Overview

Valid: 6687 Invalid: 287 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Short Grain (Red)	442	6.6%
2	Long Grain (Red)	793	11.9%
3	Short Grain (White)	1979	29.6%
4	Long Grain (White)	3321	49.7%
5	Other	152	2.3%
Sysmiss		287	

## P2Q5A: 5. Method of Sowing

Data file: Maha 2010-2011

### Overview

Valid: 6732 Invalid: 242  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Broadcasting	6270	93.1%
2	Transplanted in Rows	110	1.6%
3	Transplanted not in Rows	314	4.7%
4	Parachute Method	31	0.5%
5	Other	7	0.1%
Sysmiss		242	

**P2Q6A: 6. Application of Fertilizer****Data file: Maha 2010-2011****Overview**

Valid: 6669 Invalid: 305

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Chemical Fertilizer only	3746	56.2%
2	Organic Fertilizer only	184	2.8%
3	Both Chemical and Organic Fertilizer	2537	38%
4	None	202	3%
Sysmiss		305	

**P2Q651A: 6.5.1. Used Quantity - MOP (Kg)****Data file: Maha 2010-2011****Overview**

Valid: 6449 Invalid: 525 Minimum: 0 Maximum: 3400 Mean: 52.991 Standard deviation: 84.438

Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3400 Format: Numeric

**P2Q652A: 6.5.2. Used Quantity - TSP (Kg)****Data file: Maha 2010-2011****Overview**

Valid: 6321 Invalid: 653 Minimum: 0 Maximum: 2000 Mean: 49.536 Standard deviation: 63.933

Type: Continuous Decimal: 0 Width: 4 Range: 0 - 2000 Format: Numeric

**P2Q653A: 6.5.3. Used Quantity - Urea (Kg)****Data file: Maha 2010-2011****Overview**

Valid: 6480 Invalid: 494 Minimum: 1 Maximum: 3000 Mean: 126.743 Standard deviation: 136.64

Type: Continuous Decimal: 0 Width: 4 Range: 1 - 3000 Format: Numeric

**P2Q7A: 7. Weeding****Data file: Maha 2010-2011**

**Overview**

Valid: 6735 Invalid: 239

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Hand Weeding	723	10.7%
2	Using Weedicide	5614	83.4%
3	By use of Water	130	1.9%
4	No Weeding	268	4%
Sysmiss		239	

**P2Q8A: 8. Insecticide****Data file: Maha 2010-2011****Overview**

Valid: 6578 Invalid: 396

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Used	4296	65.3%
2	Not Used	2282	34.7%
Sysmiss		396	

**P2Q9A: 9. Adverse affects on crop****Data file: Maha 2010-2011****Overview**

Valid: 6339 Invalid: 635

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Drought	41	0.6%

2	Flood	73	1.2%
3	Pests	5	0.1%
4	Other Adverse factors	28	0.4%
5	Not affected	4024	63.5%
6	Affected but harvested	2166	34.2%
7		2	0%
Sysmiss		635	

## P2Q10A: 10. Method of Harveting

Data file: Maha 2010-2011

### Overview

Valid: 6456 Invalid: 518

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	By manually	4984	77.2%
2	By Threshing Machine	1472	22.8%
Sysmiss		518	

## P2Q11A: 11. Method of Thresing

Data file: Maha 2010-2011

### Overview

Valid: 6524 Invalid: 450

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	By Buffalo	159	2.4%
2	By Tractor	676	10.4%
3	By Agrimec	1582	24.2%
4	By Tsunami Machine	3098	47.5%
5	By Combine Harvester	922	14.1%
6	Manually / Other	87	1.3%



Sysmiss		450	
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## P2Q12A: 12. Use of Straw

Data file: Maha 2010-2011

### Overview

Valid: 6394 Invalid: 580

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Use of straw in the parcel	5101	79.8%
2	Firing	636	9.9%
3	For animal feed	245	3.8%
4	For roofing	6	0.1%
5	Other	406	6.3%
Sysmiss		580	

## P3Q2A: i. Yield - Seer

Data file: Maha 2010-2011

### Overview

Valid: 3050 Invalid: 3924 Minimum: 0 Maximum: 85 Mean: 15.867 Standard deviation: 6.1

Type: Continuous Decimal: 2 Width: 6 Range: 0 - 85 Format: Numeric

## P3Q6A: vi. Expected Yield (Bushels)

Data file: Maha 2010-2011

### Overview

Valid: 4441 Invalid: 2533 Minimum: 0 Maximum: 55112 Mean: 110.723 Standard deviation: 830.085

Type: Continuous Decimal: 0 Width: 5 Range: 0 - 55112 Format: Numeric

## P3Q7A: vii. Intend to do for your share of yield

Data file: Maha 2010-2011

### Overview

Valid: 5357 Invalid: 1617

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	For Home consumption only	1631	30.4%
2	For sale only	140	2.6%
3	For Home consumption and sale	3544	66.2%
4	Other	42	0.8%
Sysmiss		1617	

### DFD:

Data file: Maha 2010-2011

#### Overview

Valid: 6974 Invalid: 0 Minimum: 0.92 Maximum: 0.973 Mean: 0.955 Standard deviation: 0.0162  
 Type: Continuous Decimal: 4 Width: 8 Range: 0.9203 - 0.973 Format: Numeric

### YELDBUSHELSPPERACRE:

Data file: Maha 2010-2011

#### Overview

Valid: 3050 Invalid: 3924 Minimum: 0 Maximum: 412.845 Mean: 75.844 Standard deviation: 29.297  
 Type: Continuous Decimal: 2 Width: 8 Range: 0 - 412.845 Format: Numeric

### PARCELEXT:

Data file: Maha 2010-2011

#### Overview

Valid: 6974 Invalid: 0 Minimum: 0 Maximum: 24 Mean: 1.379 Standard deviation: 1.275  
 Type: Continuous Decimal: 2 Width: 8 Range: 0 - 24 Format: Numeric

## Download related resources

### Questionnaires

#### CC3

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Title CC3  
Filename CC3.pdf

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### Technical documents

#### Formulae to Calculate Avg. Yield & Variance for a given Stratum

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Title Formulae to Calculate Avg. Yield & Variance for a given Stratum  
Filename Formulae to Calculate Avg. Yield & Variance for a given Stratum.doc

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### Other materials

#### CC1

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Title CC1  
Filename CC1.pdf

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#### CC2

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Title CC2  
Filename CC2.pdf

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#### CC4

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Title CC4  
Filename CC4.pdf

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### District Codes List

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Title District Codes List  
Filename District Codes List.xls

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### Study Documentation of CESP(M)09 Project

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Title Study Documentation of CESP(M)09 Project  
Filename Study Documentation of CESP(M)09 Project.pdf

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### Time Series Data of Extent, Yield, Production 77-08

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Title Time Series Data of Extent, Yield, Production 77-08

Filename Time Series Data of Extent, Yield, Production 77-08.xls

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### **Time Series of Sown, Harvested, Yield, Production**

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Title Time Series of Sown, Harvested, Yield, Production

Filename Time Series of Sown, Harvested, Yield, Production - Maha 1970-2008.xls

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