

# Sri Lanka - Crop Estimating Survey on Paddy (Maha) - 1996

**Department of Census and Statistics**

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## Identification

### SURVEY ID NUMBER

LKA-DCS-CESP[M]-1996-v1.0

### TITLE

Crop Estimating Survey on Paddy (Maha) - 1996

### 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

2008-12-03

## 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
1995-10-01	1996-04-30

### DATA COLLECTION MODE

Face-to-face [f2f]

### SUPERVISION

"Agricultural Research and Production Assistants (ARPO) earlier known as "Govi Sevana Niyamakas" 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@statistics.gov.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>

#### CONFIDENTIALITY

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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- All the data requests should be made to Director General (DG) of the DCS as the sole authority of releasing data is vested with the DG of the DCS. The DCS of Sri Lanka reserves sole right to approve or reject any data request made depending on the confidential nature of the data set and intended purpose of the study or analysis.
- Requests for micro data should be made through the agreement form designed by DCS for this purpose (Form D.R.1). The agreement form should be filled in triplicate and the Study/project proposal should accompany the filled agreement form. If requests are made for the micro data of more than one survey, a separate agreement should be signed.
- If the data request is from a student a letter from the respective Dept. Head/Dean/Supervisor, recommending the issue of data, should also be accompanied.
- If the request is approved only 25% of the data file is released at the first stage. The release of the total data file is considered only after reviewing the draft report prepared on the basis of the 25% sample data file.
- 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] 1996, Version 1.0 of the internal use dataset December 2008, 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@statistics.gov.lk	<a href="#">Link</a>

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## Metadata production

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DDI DOCUMENT ID  
DDI-LKA-DCS-CESP[M]-1996-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  
2008-12-03

DDI DOCUMENT VERSION  
Version 1.0 (2008)

**Data Dictionary**

<b>Data file</b>	<b>Cases</b>	<b>Variables</b>
<b>1995_96maha</b>	11300	26



**Data file: 1995\_96maha**

Cases: 11300

Variables: 26

**Variables**

ID	Name	Label	Question
V86	sea	Season	
V87	year	Year	
V88	dist	District	
V89	aga	AGA Division	
V90	irr	Irrigation Type	
V91	vil	Village	
V92	ld	Parcel No	
V93	a	Extent Sown - Acres	
V94	r	Extent Sown - Rood	
V95	p	Extent Sown - Perches	
V96	lid	Number of Liyadda in Parcel	
V97	len	Liyadda Length	
V98	bre	Liyadda Breadth	
V99	ten	System of Tenure	
V100	pre	Preparation of Land	
V101	ver	Variety of seed	
V102	sow	Sowing Method	
V103	fer	Fertilizer Application	Inquire from the cultivator the total quantity of fertilizer used in the parcel and give the quantity in Kg's.
V104	che	Chemical Fertilizer if Applied (KG)	
V105	org	Organic Fertilizer if Applied (KG)	
V106	wee	Weeding	
V107	inc	Insecticides	
V108	fun	Fungicides	
V109	dam	Adverse Affects on Crop	
V110	yld	Yield	
V111	recn	Record Number	

Total: 26



**SEA: Season**

Data file: 1995\_96maha

**Overview**

Valid: 11299 Invalid: 0  
 Type: Discrete Width: 1 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
,		1	0%
M		4586	40.6%
`		1	0%
d		1	0%
m		6705	59.3%
n		3	0%
y		1	0%
		1	0%

**YEAR: Year**

Data file: 1995\_96maha

**Overview**

Valid: 11300 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 2 Range: 96 - 96 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
96		11300	100%

**DIST: District**

Data file: 1995\_96maha

**Overview**

Valid: 11300 Invalid: 0 Minimum: 1 Maximum: 27 Mean: 12.282 Standard deviation: 8.37  
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 27 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	1	565	5%
2	2	509	4.5%
3	3	604	5.3%
4	4	734	6.5%
5	5	795	7%
6	6	469	4.2%
7	7	413	3.7%
8	8	742	6.6%
9	9	396	3.5%
10	10	715	6.3%
11	11	501	4.4%
12	12	425	3.8%
13	13	407	3.6%
14	14	376	3.3%
16	16	74	0.7%
17	17	32	0.3%
20	20	679	6%
21	21	496	4.4%
23	23	323	2.9%
24	24	555	4.9%
25	25	557	4.9%
26	26	628	5.6%
27	27	305	2.7%

### AGA: AGA Division

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 73 Mean: 6.866 Standard deviation: 4.818  
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 73 Format: Numeric

### IRR: Irrigation Type

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3	0%
1	Major	4075	36.1%
2	Minor	3268	28.9%
3	Rainfed	3950	35%
5		2	0%
Sysmiss		2	

**VIL: Village**

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 40 Mean: 5.392 Standard deviation: 4.971  
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 40 Format: Numeric

**LD: Parcel No**

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3	0%
1		5713	50.6%
2		5582	49.4%
Sysmiss		2	

**Description**

## DEFINITION

Paddy land Parcel is the land demarcated for the operator to cultivate

## A: Extent Sown - Acres

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 30 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		5895	52.2%
1		2446	21.6%
2		1968	17.4%
3		500	4.4%
4		165	1.5%
5		204	1.8%
6		48	0.4%
7		18	0.2%
8		12	0.1%
9		4	0%
10		18	0.2%
11		4	0%
12		5	0%
13		1	0%
14		2	0%
17		1	0%
20		1	0%
22		2	0%
23		1	0%
25		1	0%
30		2	0%
Sysmiss		2	

## R: Extent Sown - Rood

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		4080	36.1%
1		2202	19.5%
2		3936	34.8%
3		1077	9.5%
4		2	0%
5		1	0%
Sysmiss		2	

**P: Extent Sown - Perches**

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 80 Mean: 4.652 Standard deviation: 9.317  
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 80 Format: Numeric

**PRE: Preparation of Land**

Data file: 1995\_96maha

**Overview**

Valid: 11299 Invalid: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	0	11	0.1%
1	By Tractor	5891	52.1%
2	Buffalow ploughed	1994	17.6%
3	Buffalow mudded	418	3.7%
4	Mammotied	1823	16.1%
5	5	422	3.7%
6	6	450	4%

7	7	290	2.6%
Sysmiss		1	

## Description

### DEFINITION

Predominant method of preparation of land

## VER: Variety of seed

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		10	0.1%
1		10749	95.1%
2		321	2.8%
3		218	1.9%
Sysmiss		2	

## SOW: Sowing Method

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	0	11	0.1%
1	Broadcasting	8907	78.8%
2	Transplanted in rows	262	2.3%
3	Transplanted not in rows	2095	18.5%
4	Row seeded	23	0.2%

Sysmiss		2	
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## FER: Fertilizer Application

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

Inquire from the cultivator the total quantity of fertilizer used in the parcel and give the quantity in Kg's.

#### CATEGORIES

Value	Category	Cases	
0	0	19	0.2%
1	Chemical fertilizer only	10436	92.4%
2	Organic fertilizer only	93	0.8%
3	Both chemical & organic	448	4%
4	None	302	2.7%
Sysmiss		2	

## CHE: Chemical Fertilizer if Applied (KG)

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 6400 Mean: 264.959 Standard deviation: 325.746  
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 6400 Format: Numeric

### Description

#### DEFINITION

To be filled if Chemical fertilizer is applied

## ORG: Organic Fertilizer if Applied (KG)

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 4000 Mean: 13.584 Standard deviation: 139.652  
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 4000 Format: Numeric

## Description

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### DEFINITION

To be filled if Organic fertilizer is applied

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### LID: Number of Liyadda in Parcel

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 358 Mean: 9.359 Standard deviation: 20.203  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 358 Format: Numeric

## Description

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### DEFINITION

Liyadda - major block of cultivation in a parcel

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### LEN: Liyadda Length

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 300 Mean: 26.008 Standard deviation: 39.872  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 300 Format: Numeric

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### BRE: Liyadda Breadth

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 401 Mean: 16.281 Standard deviation: 26.1  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 401 Format: Numeric

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### TEN: System of Tenure

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

## Questions and instructions

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### CATEGORIES

Value	Category	Cases	
0	0	13	0.1%
1	Singly owned	8054	71.3%
2	Jointly owned	978	8.7%
3	Ande	2018	17.9%
4	Other	235	2.1%
Sysmiss		2	

## Description

### DEFINITION

System of Tenure could be (1) Singly owned (2)Jointly owned including Thattumaru and Kattimaru. (3) Ande (4) Other

Thattumaru - An accepted cultivation system where a each person claiming ownership of a paddy field cultivates a predetermined area of the field in rotation.

Kattimaru - Cultivating different crops in different seasons.

Ande - Permitting a non-owner to cultivate the paddy field under the condition that the crop produced from that is shared between him and the owner.

## WEE: Weeding

Data file: 1995\_96maha

### Overview

Valid: 11298 Invalid: 2

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	0	26	0.2%
1	Hand weeding	3039	26.9%
2	Using weedisides	6591	58.3%
3	By the use of water	175	1.5%
4	No weeding	1467	13%
Sysmiss		2	

## INC: Insecticides

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	0	33	0.3%
1	Used	6844	60.6%
2	Not used	4421	39.1%
Sysmiss		2	

**FUN: Fungicides**

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	0	93	0.8%
1	Used	1671	14.8%
2	Not used	9533	84.4%
4		1	0%
Sysmiss		2	

**Description**

## DEFINITION

Maha Season is the main season associated with North-east monsoons effective during September - April in the following year

**DAM: Adverse Affects on Crop**

Data file: 1995\_96maha

**Overview**

Valid: 11298 Invalid: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 7 Format: Numeric

## Questions and instructions

### QUESTION PRETEXT

Codes 1,2,3,4 or 5 should be encircled only if the parcel was severely affected and it was not harvested.

### CATEGORIES

Value	Category	Cases	
0	0	125	1.1%
1	Seed fauilure	35	0.3%
2	Drought	147	1.3%
3	Flood	15	0.1%
4	Pests	8	0.1%
5	Other adverse factors	14	0.1%
6	Not affected	7177	63.5%
7	Slightly affected	3777	33.4%
Sysmiss		2	

### YLD: Yield

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2 Minimum: 0 Maximum: 65 Mean: 5.584 Standard deviation: 7.869  
Type: Continuous Decimal: 2 Width: 5 Range: 0 - 65 Format: Numeric

### RECN: Record Number

Data file: 1995\_96maha

#### Overview

Valid: 11298 Invalid: 2  
Type: Discrete Decimal: 0 Width: 4 Range: 0 - 9623 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		11285	99.9%
9		1	0%
30		1	0%
31		1	0%
1994		1	0%
9604		1	0%

9606		2	0%
9614		2	0%
9623		4	0%
Sysmiss		2	

## Download related resources

### Questionnaires

#### Crop Estimation Survey on Paddy - Survey Schedule

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Title Crop Estimation Survey on Paddy - Survey Schedule  
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

#### Crop Estimation Survey on Paddy 2006 - Preliminary Cultivator Information Collecting Form

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Title Crop Estimation Survey on Paddy 2006 - Preliminary Cultivator Information Collecting Form  
Filename CC1.pdf

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#### Crop Estimation Survey on Paddy - Cultivators Selected for Survey

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Title Crop Estimation Survey on Paddy - Cultivators Selected for Survey  
Filename CC2.pdf

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#### Crop Estimation Survey on Paddy - Quality Checking Report

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Title Crop Estimation Survey on Paddy - Quality Checking Report  
Filename CC4.pdf

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#### Time series data of Extent, Yield and Production 77-08

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Title Time series data of Extent, Yield and 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 - Maha 1970-2008

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

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#### District Codes List for Crop Estimation Survey of Paddy

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Title District Codes List for Crop Estimation Survey of Paddy

Filename District Codes List.xls

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**Study Documentation of CESP(M)96 Project.**

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Title Study Documentation of CESP(M)96 Project.

Filename Study Documentation of CESP(M)96 Project.pdf

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