

Sri Lanka - Crop Estimating Survey on Paddy (Yala) - 1985

Department of Census and Statistics

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Identification

SURVEY ID NUMBER

LKA-DCS-CESP[Y]-1985-v1.0

TITLE

Crop Estimating Survey on Paddy (Yala) - 1985

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 in 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. 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 in 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.

Special remarks - effective from 2005/2006 Maha Season

In order to perform these steps, Crop Cutting Officers should get the fullest co-operation from selected farmers. According to the available information, the whole process of conducting such an experiment takes around three hours. Also, all steps are

being performed manually in many occasions. It is obvious that the crop cutting is a laborious procedure at present. Considering the volume of work and practical difficulties which could affect negatively, it is a must to introduce an updated method in order to maintain the quality of data. Some of the suggestions to overcome this burden are as follows.

- (1) Reduce the volume and time of involvement of the officers
- (2) Introduce modern equipment to thresh the grain or assess the paddy yield of the plot.
- (3) Replace the current methodology with an alternative survey procedure.

As an initial step, the Agriculture Division of DCS in line with above suggestion noted in (1) a pilot survey has been conducted in Kegalle District in the 2005/06 Maha season. This was extended to Matara and Kurunegala Districts during the Maha 2007/08, by reducing the experimental plot size to half of that of the standard plot which is used at present. Now, the Agriculture Division is statistically testing the results of the pilot survey against the results of the standard survey conducted hitherto. If there is no significant difference between these two, the new plot size would be introduced in the near future.

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, the actual length and breadth of these plots should be deducted.

Version

VERSION DESCRIPTION

v1.0: Full edited dataset, for internal DPD Use

VERSION DATE

2009-07-23

Scope

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	Link

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	Role
Department of Census and Statistics	DCS	Source of funds

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. The whole procedure in conducting the experiment is stated in detail in the manual of Crop Cutting Experiments prepared by the Agriculture Division. 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.

Estimation of Average Yield of Paddy

Average yield of paddy per acre/hectare by mode of irrigation and by District is being estimated through an objective survey which is popularly known as crop cutting survey on paddy. This has been initiated in 1950 and the methodology introduced by Dr. Koshal, Statistician of FAO (an Indian expert) under the assistance of FAO. From time to time some modifications have been introduced and the procedure is still in operation to estimate the paddy production in each season.

Data Collection

DATES OF DATA COLLECTION

Start	End	Cycle
1985-05-01	1985-11-30	Yala

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 March 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
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Agriculture and Environment Statistics Division	Department of Census and Statistics	agriculture@statistics.gov.lk	Link
Information Unit	Department of Census and Statistics	information@statistics.gov.lk	Link

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.

ACCESS CONDITIONS

The dataset has been anonymized and is available as a Public Use Dataset. It is accessible to all for statistical and research purposes only, under the following terms and conditions:

1. The data and other materials will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement.
2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.
3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently.
4. No attempt will be made to produce links among datasets provided by the Department or among data from the Department and other datasets that could identify individuals or organizations.
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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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- Only the requests of Government Institutions, Recognized Universities, Students, and selected international agencies are entertained. However, the Data users are required to strictly adhere to the terms stipulated in the agreement form.
- 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

CITATION REQUIREMENTS

Department of Census and Statistics, Crop Estimation Survey on Paddy [Yala] 1985, [CESP(Y)1985], Version 1.0 of the internal use dataset July, 2009 provided by the National Data Archive, Data Processing Division, www.statistics.gov.lk"

ACCESS AUTHORITY

Name	Affiliation	Email	URL
Director General	Department of Census and Statistics	dgcensus@sltnet.lk	Link

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Metadata production

DDI DOCUMENT ID

DDI-LKA-DCS-CESP[Y]-1985-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

2009-07-23

DDI DOCUMENT VERSION

Version 1.0 (2009)

Data Dictionary

Data file	Cases	Variables
1985yala	9146	28

Data file: 1985yala

Cases: 9146

Variables: 28

Variables

ID	Name	Label	Question
V135	SEASON	Season	
V136	YEAR	Year	
V137	BLANK	BLANK	
V138	DISTRICT	District	
V139	AGA	AGA Division	
V140	TYPE_OF_IRRIGATION	Type of irrigation	
V141	VILLAGE	Village code	
V142	PARCEL_NO	Parcel no	
V143	EXTENT_SOWN_A	Extent Sown in acres	
V144	EXTENT_SOWN_R	Extent Sown in Roods	
V145	EXTENT_SOWN_PERCHES	Extent Sown in Perches	
V146	NO_OF_LIYADDAS_IN_PARCEL	No of Liyaddas in Parcel	
V147	LENGTH_LIYADDA	Length of Liyadda	
V148	BREDTH_LIYADDA	Bredth of liyadda	
V149	TENURE	Tenure	
V150	PREPARATION_OF_LAND	Preparation of Land	
V151	VARIETY_OF_SEED	Variety of seed	Write the name or index of seed paddy and leave the box blank for official use.
V152	SOWING_METHOD	Sowing Method	
V153	FERTILIZER_APPLICATION	Fertilizer Application	Inquire from the cultivator the total quantity of fertilizer used in the parcel and give the quantity in Kg's.
V154	WT_OF_CHEM_FERT	Weight of Chemical Fertilizer	
V155	WTOFORG_FERT	Weight of Organic Fertilizer	
V156	WEEDING	Weeding	
V157	INSECTISIDES	Insecticides Used	
V158	FUNGICIDES	Fungicides Used	
V159	ADVERSE_AFFECTS	Adverse Affects	
V160	YIELD	Yield	
V161	RECNO	Record No	
V162	SERIAL	Serial No	

Total: 28

SEASON: Season**Data file:** 1985yala**Overview**

Valid: 9146 Invalid: 0
 Type: Discrete Width: 1 Range: - Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yala	9146	100%

Description

DEFINITION

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.

YEAR: Year**Data file:** 1985yala**Overview**

Valid: 9146 Invalid: 0 Minimum: 1985 Maximum: 1985 Mean: 1985 Standard deviation: 0
 Type: Continuous Decimal: 0 Width: 4 Range: 1985 - 1985 Format: Numeric

BLANK: BLANK**Data file:** 1985yala**Overview**

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

DISTRICT: District**Data file:** 1985yala**Overview**

Valid: 9146 Invalid: 0 Minimum: 1 Maximum: 27 Mean: 11.014 Standard deviation: 7.775
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 26 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Colombo	258	2.8%
2	Gampaha	472	5.2%
3	Kalutara	614	6.7%
4	Galle	722	7.9%
5	Matara	756	8.3%
6	Ratnapura	614	6.7%
7	Kegalle	438	4.8%
8	Kurunegala	854	9.3%
9	Puttalam	200	2.2%
10	Kandy	700	7.7%
11	Matale	398	4.4%
12	Nuwara Eliya	192	2.1%
13	Badulla	342	3.7%
14	Moneragala	144	1.6%
15	Jaffna	0	0%
16	Kilinochchi	78	0.9%
17	Vavuniya	0	0%
18	Mullaitivu	98	1.1%
19	Mannar	86	0.9%
20	Anuradhapura	298	3.3%
21	Polonnaruwa	260	2.8%
22	Trincomalee	180	2%
23	Batticaloa	244	2.7%
24	Ampara	488	5.3%
25	Hambantota	380	4.2%
26	Udawalawa	264	2.9%
27	Mahaweli H	66	0.7%

AGA: AGA Division

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 1 Maximum: 18 Mean: 5.718 Standard deviation: 3.767
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 16 Format: Numeric

TYPE_OF_IRRIGATION: Type of irrigation

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 1 Maximum: 3 Mean: 2.084 Standard deviation: 0.824
 Type: Continuous Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Major	2758	30.2%
2	Minor	2866	31.3%
3	Rainfed	3522	38.5%

VILLAGE: Village code

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 1 Maximum: 21 Mean: 4.624 Standard deviation: 3.352
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 23 Format: Numeric

PARCEL_NO: Parcel no

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 1 Maximum: 2 Mean: 1.5 Standard deviation: 0.5
 Type: Continuous Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	1	4573	50%
2	2	4573	50%

Description

DEFINITION

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

EXTENT_SOWN_A: Extent Sown in acres

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 0 Maximum: 3 Mean: 0.0059 Standard deviation: 0.0847
 Type: Continuous Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

EXTENT_SOWN_R: Extent Sown in Roods

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 0 Maximum: 9 Mean: 0.851 Standard deviation: 1.365
 Type: Continuous Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

EXTENT_SOWN_PERCHES: Extent Sown in Perches

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0 Minimum: 0 Maximum: 99 Mean: 30.384 Standard deviation: 26.063
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

NO_OF_LIYADDAS_IN_PARCEL: No of Liyaddas in Parcel

Data file: 1985yala

Overview

Valid: 3524 Invalid: 5622 Minimum: 0 Maximum: 99 Mean: 15.329 Standard deviation: 18.842
 Type: Continuous Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	3	0.1%
1	1	184	5.2%
2	2	275	7.8%
3	3	275	7.8%
4	4	269	7.6%
5	5	238	6.8%
6	6	238	6.8%
7	7	154	4.4%
8	8	164	4.7%
9	9	130	3.7%
10	10	125	3.6%
11	11	87	2.5%

12	12	128	3.6%
13	13	64	1.8%
14	14	91	2.6%
15	15	63	1.8%
16	16	63	1.8%
17	17	41	1.2%
18	18	72	2%
19	19	36	1%
20	20	62	1.8%
21	21	38	1.1%
22	22	33	0.9%
23	23	23	0.7%
24	24	29	0.8%
25	25	26	0.7%
26	26	28	0.8%
27	27	18	0.5%
28	28	36	1%
29	29	15	0.4%
30	30	30	0.9%
31	31	18	0.5%
32	32	24	0.7%
33	33	12	0.3%
34	34	15	0.4%
35	35	21	0.6%
36	36	13	0.4%
37	37	19	0.5%
38	38	18	0.5%
39	39	11	0.3%
40	40	24	0.7%
41	41	11	0.3%
42	42	21	0.6%
43	43	12	0.3%
44	44	8	0.2%
45	45	12	0.3%
46	46	10	0.3%
47	47	3	0.1%
48	48	16	0.5%
49	49	3	0.1%
50	50	5	0.1%

51	51	8	0.2%
52	52	12	0.3%
53	53	3	0.1%
54	54	5	0.1%
55	55	2	0.1%
56	56	5	0.1%
57	57	4	0.1%
58	58	7	0.2%
59	59	2	0.1%
60	60	10	0.3%
61	61	0	0%
62	62	9	0.3%
63	63	4	0.1%
64	64	2	0.1%
65	65	4	0.1%
66	66	3	0.1%
67	67	4	0.1%
68	68	6	0.2%
69	69	4	0.1%
70	70	7	0.2%
72	72	6	0.2%
73	73	5	0.1%
74	74	1	0%
75	75	1	0%
76	76	2	0.1%
77	77	2	0.1%
78	78	7	0.2%
80	80	1	0%
81	81	3	0.1%
82	82	1	0%
83	83	1	0%
84	84	0	0%
85	85	5	0.1%
86	86	2	0.1%
87	87	2	0.1%
88	88	5	0.1%
89	89	2	0.1%
90	90	1	0%
91	91	1	0%

92	92	1	0%
94	94	0	0%
95	95	6	0.2%
96	96	3	0.1%
97	97	1	0%
99	99	44	1.3%

Description

DEFINITION

Liyadda - major block of cultivation in a parcel

LENGTH_LIYADDA: Length of Liyadda

Data file: 1985yala

Overview

Valid: 3194 Invalid: 5952 Minimum: 0 Maximum: 386 Mean: 74.652 Standard deviation: 43.208
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 353 Format: Numeric

BREDTH_LIYADDA: Bredth of liyadda

Data file: 1985yala

Overview

Valid: 3194 Invalid: 5952 Minimum: 4 Maximum: 244 Mean: 44.581 Standard deviation: 25.51
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 286 Format: Numeric

TENURE: Tenure

Data file: 1985yala

Overview

Valid: 9026 Invalid: 120 Minimum: 0 Maximum: 4 Mean: 1.613 Standard deviation: 0.938
 Type: Continuous Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	35	0.4%
1	Singly owned	6005	66.5%
2	Jointly owned	681	7.5%
3	Ande	2024	22.4%

4	Other	281	3.1%
---	-------	-----	------

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.

PREPARATION_OF_LAND: Preparation of Land

Data file: 1985yala

Overview

Valid: 9021 Invalid: 125 Minimum: 0 Maximum: 7 Mean: 2.773 Standard deviation: 1.735
Type: Continuous Decimal: 0 Width: 1 Range: 0 - 7 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	202	2.2%
1	By Tractor	2263	25.1%
2	Buffalow ploughed	2651	29.4%
3	Buffalow mudded	667	7.4%
4	Mammotied	2029	22.5%
5	5	322	3.6%
6	6	486	5.4%
7	7	401	4.4%

Description

DEFINITION

Predominant method of preparation of land

VARIETY_OF_SEED: Variety of seed

Data file: 1985yala

Overview

Valid: 9021 Invalid: 125 Minimum: 0 Maximum: 3 Mean: 1.33 Standard deviation: 0.715
 Type: Continuous Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

LITERAL QUESTION

Write the name or index of seed paddy and leave the box blank for official use.

SOWING_METHOD: Sowing Method

Data file: 1985yala

Overview

Valid: 9026 Invalid: 120 Minimum: 0 Maximum: 4 Mean: 1.464 Standard deviation: 0.846
 Type: Continuous Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	78	0.9%
1	Broadcasting	6681	74%
2	Transplanted in rows	287	3.2%
3	Transplanted not in rows	1957	21.7%
4	Row seeded	23	0.3%

FERTILIZER_APPLICATION: Fertilizer Application

Data file: 1985yala

Overview

Valid: 9028 Invalid: 118 Minimum: 0 Maximum: 4 Mean: 1.263 Standard deviation: 0.765
 Type: Continuous 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	3	0%
1	Chemical Only	7953	88.1%
2	Organic Only	220	2.4%

3	Both Chemical & Organic	398	4.4%
4	None	454	5%

WT_OF_CHEM_FERT: Weight of Chemical Fertilizer

Data file: 1985yala

Overview

Valid: 8349 Invalid: 797 Minimum: 0 Maximum: 9999 Mean: 282.626 Standard deviation: 410.211
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 5600 Format: Numeric

Description

DEFINITION

To be filled if Chemical fertilizer is applied (Weight of Chemical fertilizer kg)

WTOFORG_FERT: Weight of Organic Fertilizer

Data file: 1985yala

Overview

Valid: 618 Invalid: 8528 Minimum: 0 Maximum: 3916 Mean: 246.215 Standard deviation: 374.694
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3600 Format: Numeric

Description

DEFINITION

To be filled if Organic fertilizer is applied (Weight of Organic fertilizer kg)

WEEDING: Weeding

Data file: 1985yala

Overview

Valid: 9026 Invalid: 120 Minimum: 0 Maximum: 4 Mean: 2.1 Standard deviation: 1.066
Type: Continuous Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	45	0.5%
1	Hand weeding	2806	31.1%
2	Using weedisides	4158	46.1%
3	By the use of water	235	2.6%

4	No weeding	1782	19.7%
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INSECTISIDES: Insecticides Used

Data file: 1985yala

Overview

Valid: 9025 Invalid: 121 Minimum: 0 Maximum: 2 Mean: 1.341 Standard deviation: 0.491
Type: Continuous Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	74	0.8%
1	Used	5801	64.3%
2	Not used	3150	34.9%

FUNGICIDES: Fungicides Used

Data file: 1985yala

Overview

Valid: 9021 Invalid: 125 Minimum: 0 Maximum: 2 Mean: 1.769 Standard deviation: 0.512
Type: Continuous Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	0	382	4.2%
1	Used	1317	14.6%
2	Not used	7322	81.2%

ADVERSE_AFFECTS: Adverse Affects

Data file: 1985yala

Overview

Valid: 9024 Invalid: 122 Minimum: 0 Maximum: 7 Mean: 6.044 Standard deviation: 1.314
Type: Continuous 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	309	3.4%
1	Seed faulure	13	0.1%
2	Drought	55	0.6%
3	Flood	53	0.6%
4	Pests	8	0.1%
5	Other adverse factors	25	0.3%
6	Not affected	5829	64.6%
7	Slightly affected	2732	30.3%

YIELD: Yield

Data file: 1985yala

Overview

Valid: 3115 Invalid: 6031 Minimum: 8 Maximum: 44358 Mean: 12433.949 Standard deviation: 5707.491
 Type: Continuous Decimal: 0 Width: 5 Range: 8 - 80258 Format: Numeric

RECNO: Record No

Data file: 1985yala

Overview

Valid: 3115 Invalid: 6031 Minimum: 5052 Maximum: 5123 Mean: 5086.931 Standard deviation: 9.389
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 9092 Format: Numeric

SERIAL: Serial No

Data file: 1985yala

Overview

Valid: 9146 Invalid: 0
 Type: Discrete Width: 3 Range: - Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
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001		48	0.5%
002		3	0%
003		6	0.1%
004		56	0.6%
005		4	0%
006		6	0.1%
007		54	0.6%
008		1	0%
009		2	0%
01		22	0.2%
010		32	0.3%
011		6	0.1%
012		8	0.1%
013		25	0.3%
014		6	0.1%
015		7	0.1%
016		30	0.3%
017		4	0%
018		5	0.1%
019		13	0.1%
02		355	3.9%
020		6	0.1%
021		2	0%
022		23	0.3%
023		5	0.1%
024		5	0.1%
025		11	0.1%
026		3	0%
028		16	0.2%
029		2	0%
03		367	4%
030		1	0%
031		5	0.1%
032		1	0%
033		3	0%
034		8	0.1%
037		2	0%
038		2	0%
039		1	0%

04		53	0.6%
040		1	0%
046		2	0%
05		353	3.9%
06		345	3.8%
07		59	0.6%
08		328	3.6%
09		327	3.6%
10		73	0.8%
101		43	0.5%
102		5	0.1%
103		5	0.1%
104		26	0.3%
105		4	0%
106		5	0.1%
107		30	0.3%
108		1	0%
109		8	0.1%
11		279	3.1%
110		16	0.2%
111		4	0%
112		1	0%
113		17	0.2%
114		3	0%
115		7	0.1%
116		14	0.2%
117		1	0%
118		5	0.1%
119		19	0.2%
12		288	3.1%
120		3	0%
121		3	0%
122		19	0.2%
123		5	0.1%
124		1	0%
125		13	0.1%
126		3	0%
127		2	0%
128		14	0.2%

129		2	0%
13		82	0.9%
130		1	0%
131		9	0.1%
132		2	0%
134		9	0.1%
135		2	0%
136		1	0%
137		5	0.1%
14		258	2.8%
140		2	0%
141		3	0%
143		3	0%
144		2	0%
15		254	2.8%
16		74	0.8%
17		235	2.6%
18		221	2.4%
19		71	0.8%
20		201	2.2%
201		44	0.5%
202		1	0%
203		4	0%
204		53	0.6%
205		1	0%
206		1	0%
207		22	0.2%
208		9	0.1%
209		6	0.1%
21		210	2.3%
210		25	0.3%
211		4	0%
212		1	0%
213		29	0.3%
214		2	0%
215		7	0.1%
216		16	0.2%
217		4	0%
218		3	0%

219		13	0.1%
22		65	0.7%
221		2	0%
222		9	0.1%
223		3	0%
224		3	0%
225		12	0.1%
226		3	0%
228		12	0.1%
229		3	0%
23		179	2%
231		1	0%
233		1	0%
234		8	0.1%
235		2	0%
236		3	0%
237		3	0%
238		2	0%
239		1	0%
24		181	2%
240		4	0%
241		1	0%
243		2	0%
25		63	0.7%
26		142	1.6%
27		146	1.6%
28		48	0.5%
29		120	1.3%
30		106	1.2%
301		25	0.3%
302		4	0%
303		3	0%
304		26	0.3%
305		2	0%
306		2	0%
307		16	0.2%
308		4	0%
309		3	0%
31		25	0.3%

310		19	0.2%
311		7	0.1%
312		4	0%
313		24	0.3%
314		5	0.1%
315		4	0%
316		18	0.2%
317		4	0%
318		6	0.1%
319		18	0.2%
32		72	0.8%
320		2	0%
321		3	0%
322		17	0.2%
323		4	0%
324		3	0%
325		8	0.1%
326		4	0%
327		2	0%
328		7	0.1%
329		1	0%
33		72	0.8%
330		4	0%
331		4	0%
333		1	0%
334		2	0%
335		1	0%
337		1	0%
34		24	0.3%
340		1	0%
343		4	0%
35		56	0.6%
36		58	0.6%
37		17	0.2%
38		44	0.5%
39		46	0.5%
40		12	0.1%
401		33	0.4%
402		1	0%

404		26	0.3%
405		4	0%
406		5	0.1%
407		35	0.4%
41		24	0.3%
410		33	0.4%
411		3	0%
412		6	0.1%
413		20	0.2%
414		4	0%
415		1	0%
416		25	0.3%
417		6	0.1%
418		1	0%
419		16	0.2%
42		26	0.3%
420		8	0.1%
421		4	0%
422		9	0.1%
423		1	0%
424		4	0%
425		13	0.1%
426		3	0%
427		2	0%
428		5	0.1%
429		1	0%
43		6	0.1%
431		7	0.1%
432		1	0%
434		3	0%
435		2	0%
437		4	0%
438		2	0%
44		14	0.2%
440		1	0%
45		14	0.2%
46		4	0%
47		6	0.1%
48		6	0.1%

501		53	0.6%
502		3	0%
503		2	0%
504		35	0.4%
505		1	0%
506		1	0%
507		27	0.3%
508		10	0.1%
509		6	0.1%
510		25	0.3%
511		3	0%
512		1	0%
513		28	0.3%
514		11	0.1%
515		10	0.1%
516		30	0.3%
517		4	0%
518		4	0%
519		29	0.3%
520		3	0%
521		3	0%
522		15	0.2%
523		2	0%
524		4	0%
525		12	0.1%
526		2	0%
527		2	0%
528		5	0.1%
529		2	0%
530		1	0%
531		1	0%
533		1	0%
534		1	0%
535		2	0%
536		1	0%
537		3	0%
540		5	0.1%
543		1	0%
546		1	0%

601		34	0.4%
602		4	0%
603		1	0%
604		38	0.4%
605		4	0%
606		5	0.1%
607		35	0.4%
608		2	0%
609		7	0.1%
610		28	0.3%
611		5	0.1%
612		6	0.1%
613		27	0.3%
614		6	0.1%
615		2	0%
616		13	0.1%
617		4	0%
618		3	0%
619		14	0.2%
620		8	0.1%
621		2	0%
622		16	0.2%
623		6	0.1%
624		2	0%
625		13	0.1%
626		4	0%
627		2	0%
628		10	0.1%
631		11	0.1%
632		4	0%
633		2	0%
634		1	0%
635		1	0%
637		6	0.1%
701		36	0.4%
702		7	0.1%
704		25	0.3%
705		1	0%
706		5	0.1%

707		36	0.4%
709		1	0%
710		26	0.3%
711		5	0.1%
712		4	0%
713		22	0.2%
714		2	0%
716		24	0.3%
717		5	0.1%
718		4	0%
719		14	0.2%
720		2	0%
721		3	0%
722		18	0.2%
724		1	0%
725		15	0.2%
726		2	0%
727		5	0.1%
728		7	0.1%
730		1	0%
731		6	0.1%
732		4	0%
734		4	0%
736		2	0%
737		3	0%
739		2	0%
741		2	0%
801		27	0.3%
802		5	0.1%
804		25	0.3%
805		3	0%
806		3	0%
807		36	0.4%
808		5	0.1%
809		2	0%
810		28	0.3%
811		5	0.1%
812		3	0%
813		24	0.3%

814		2	0%
815		4	0%
816		10	0.1%
818		4	0%
819		20	0.2%
820		4	0%
821		3	0%
822		12	0.1%
823		4	0%
824		4	0%
825		9	0.1%
826		3	0%
827		3	0%
828		3	0%
829		1	0%
830		2	0%
831		10	0.1%
834		4	0%
835		2	0%
836		1	0%
837		7	0.1%
843		2	0%
901		31	0.3%
902		4	0%
903		2	0%
904		27	0.3%
905		1	0%
906		2	0%
907		24	0.3%
908		6	0.1%
909		2	0%
910		21	0.2%
911		3	0%
913		18	0.2%
914		3	0%
915		4	0%
916		16	0.2%
917		1	0%
918		4	0%

919		11	0.1%
920		1	0%
921		1	0%
922		17	0.2%
923		5	0.1%
924		2	0%
925		7	0.1%
926		3	0%
927		4	0%
928		13	0.1%
930		2	0%
931		5	0.1%
933		2	0%
934		4	0%
937		5	0.1%
938		2	0%
940		4	0%
943		2	0%
946		1	0%

Download related resources

Questionnaires

Crop Estimation Survey on Paddy - Survey Schedule

Title Crop Estimation Survey on Paddy - Survey Schedule
 Filename CC3.pdf

Technical documents

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

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

Other materials

Crop Estimation Survey on Paddy - Preliminary Cultivator Information Collecting Form

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

Crop Estimation Survey on Paddy - Cultivators Selected for Survey

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

Crop Estimation Survey on Paddy - Quality Checking Report

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

Study Documentation of CESP(Y)85 Project

Title Study Documentation of CESP(Y)85 Project
 Filename Study Documentation of CESP(Y)85 Project.pdf

Time series data of Extent, Yield and Production

Title Time series data of Extent, Yield and Production
 Filename Time Series Data of Extent, Yield, Production.xls

District Codes List for Crop Estimation Survey of Paddy

Title District Codes List for Crop Estimation Survey of Paddy

Filename District Codes List.xls
