Sri Lanka - Cost of Production of Made Tea per Kilo - 1983

Tea Commissioner - Ministry of Plantation Industries

Report generated on: October 2, 2013

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Overview

Identification

ID NUMBER
LKA-STB-CPT-1983-v1.0

Version

VERSION DESCRIPTION
V1.0: Full edited dataset, for internal DPD Use

PRODUCTION DATE
1984-01-01

Overview

ABSTRACT
The cost of production of tea estimates are based on a survey carried out jointly by the Department of Census and Statistics and the Tea Commissioner's Division - Sri Lanka Tea Board.

Brief History

Sri Lanka Tea Board was established on 1st January 1976 by amalgamating the Tea Control Department, Tea Export Commissioner’s Department, Ceylon tea Propaganda Board and the Tea Research Institute of Sri Lanka under the Sri Lanka Tea Board law No. 14 of 1975 as amended by Act No. 17 of 1985, No. 14 of 1990, No. 29 of 2003 and No. 44 of 2006.

In the year 1994 the Tea Research Institute separated from the Sri Lanka Tea Board law and came under the Tea Research Board established under the Tea Research Board Act. No. 52 of 1993.

The Primary objectives of the Sri Lanka Tea Board under the above act are the Development of the Tea Industry in Sri Lanka, promotion of Ceylon (Sri Lanka) Tea globally, implementing Regulatory requirements of the tea industry. The major regulatory activities of the tea industry covering production, cultivating and replanting, establishment of tea factories, their operation, regulate Colombo Tea Auction, maintaining quality standards of tea, packaging and warehousing requirements etc framed both under the Sri Lanka Tea Board Law and the Tea Control Act No. 51 of 1957 and the Tea (Tax and Control of Exports) Act No. 16 of 1959.

Tea is grown in the cold climate - usually in the hill country. In Sri Lanka, Tea plantations which are called tea estates are clustered into three regions according to their elevation from mean sea level. The teas coming from estates located in the regions of the highest elevation is called High grown tea or Up-country tea which is famous as the best tea in the world. Low grown tea also grows in cold climates especially in the southern hilly region where the elevation is not as high as of the Up-country. The three kinds of teas thus produced by Sri Lanka have their own characteristics such as flavour, color, texture etc. specific to the elevation.

A tea estate is normally managed by a superintendent who has to report to a private owner (provided the estate is owned by a private owner) or a plantation company handling multiple estates. Some estates have their own factories, those who do not own a factory supply their green leaf to a nearby factory for processing where they are paid at a weekly rate declared by the government taking the market conditions into into account. The teas purchased from outside estates by a factory are called Bought leaf.

The number of workers employed in a large tea estate can well exceed thousand. Some of them are resident in the estate. The activities that the workers perform are monitored on a daily basis such as plucking, pruning, fertilizing and so forth. The cost of production of made tea is a good indicator of measuring the performance of an estate. Therefore all costs are closely monitored. To facilitate this, a special kind of ledger called the CHECKROLL is used in the offices of the factory and the estates. This is like a day book. The estate can decide on the type of checkrolls they are maintaining in order to simplify the recording of various types of estate costs as well as the tasks assigned to workers and the material quantities utilized.

Some examples of different checkrolls are daily wages checkroll, fertilizer checkroll, factory process checkroll etc. The daily wages checkroll has a name column and thirty one columns for each month. In the name column the worker's name is recorded. Any task he is assigned to on a particular day is recorded with a task code in the day's column against his name.

Each activity has a task code. At the end of the month the costs are analyzed by the task codes to obtain payables and to work out accounting entries.

KIND OF DATA
Administrative records data [adm]

UNITS OF ANALYSIS
Tea factory

Scope

NOTES
The purpose of this operation is to determine the Cost of production of Made Tea per kilo for the year per each factory categorized into High, Mid and Low grown areas.

This scope includes :

Extent of plantation under Bearing and non-bearing by V.P and Seedling

Quantity of tea produced in factory categorized by estate leaf and bought leaf

Expenditure incurred during the year on

Replanting

Upkeep and cultivation

Green leaf

Manufacturing

General expenses

Marketing, Management and other expenses

Coverage

GEOGRAPHIC COVERAGE
National Coverage of Tea estates under the ownership of Sri Lanka State Plantations Corporation, Janatha Estate Development Board, Cooperatives, Other tea manufacturing organizations and private estates.

UNIVERSE
This data collection operation covered all tea factories in the High grown, Mid grown and Low grown elevations in Sri Lanka.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Tea Commissioner	Ministry of Plantation Industries

FUNDING

Name	Abbreviation	Role
Sri Lanka Tea Board	STB	Source of funds

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Department of Census and Statistics	DCS	Ministry of Finance and Planning	Processing data
The Tea Commissioner		Sri Lanka Tea Board	Collecting data

DATE OF METADATA PRODUCTION
2009-08-18

DDI DOCUMENT VERSION
Version 1.0 (2009)

DDI DOCUMENT ID
DDI-LKA-STB-CPT-1983-v1.0

Sampling

No content available

Questionnaires

Overview

The purpose of the questionnaire is to collect data pertaining to the cost of production of made tea by each factory. Therefore the quantity of tea produced and cost incurred were important.

The quantity of tea produced depend on two figures viz green leaf produced by the estate if the factory is the property of the estate and the bought leaf supplied to the factory by the registered outside estate owners.

The extent of the tea planted in the estate is need.

Cost of production of tea includes the following costs:

Replanting costs (uprooting, conservation of soil, planting materials and planting, fertilizer, weeding)
Upkeep and cultivation (labour, materials/tools, transport)
Green leaf cost (estate leaf and bought leaf)
Manufacturing costs
General charges (staff, admin charges, marketing and management charges)
Quantity of tea produced by the factory

Data Collection

Data Collection Dates

Start	End	Cycle

Data Collection Mode

Mail Questionnaire [mail]

Data Collectors

Name	Abbreviation	Affiliation

SUPERVISION

Each estate / factory has its own office. The main register in recording all estate activities such as routine expenses, daily labour hours, etc is the checkroll. The estate / factory staff record the information in the checkroll. At the end of the month total figures are posted from the checkroll to the ledgers.

Data Processing

Data Editing

A simple form has been administered to collect the information as this operation is an administrative record keeping activity. The data filled in the form must be in consistence with the figures in the books maintained by the estate / factory.

Against each cost item, a unit cost column is provided in the questionnaire. This has to be computed by the estate / factory staff. The unit cost figure helps the staff to know whether the cost figures they provide are consistent.

Data Appraisal

No content available

File Description

Variable List

Rec1

Content	Record type 1 records pertaining to the microdata file consititute this file.
Cases	361
Variable(s)	11
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V1	REC$TYPE		discrete	character	
V2	RECID	Record ID	contin	numeric	
V3	EXTBRVP	Extent in Bearing - V.P.	contin	numeric	
V4	EXTNBRVP	Extent not in Bearing - V.P.	contin	numeric	
V5	EXTBRSEED	Extent in Bearing - Seedling	contin	numeric	
V6	EXTNBRSEED	Extent not in Bearing - Seedling	contin	numeric	
V7	EXTTOT	Extent total in Hectares	contin	numeric	
V8	QTYESTLEAF	Qty of Tea Produced in factory from estate leaf	contin	numeric	
V9	QTYBGTLEAF	Qty of Tea Produced in factory from bought leaf	contin	numeric	
V10	QTYTOT	Qty of Tea Produced Total	contin	numeric	
V11	UNKNOWN	Unknown Field	contin	numeric	

Rec2

Content	Record type 2 records pertaining to the microdata file consititute this file.
Cases	1461
Variable(s)	22
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V44	REC$TYPE		discrete	character	
V45	RECID	Record ID	contin	numeric	
V46	CODEA	Cost item.	contin	numeric	
V47	COSTA	Cost (Rs)	contin	numeric	
V48	CODEB	Cost item	contin	numeric	
V49	COSTB	Cost (Rs)	contin	numeric	
V50	CODEC	Cost item	contin	numeric	
V51	COSTC	Cost (Rs)	contin	numeric	
V52	CODED	Cost item	contin	numeric	
V53	COSTD	Cost (Rs)	contin	numeric	
V54	CODEE	Cost item	contin	numeric	
V55	COSTE	Cost (Rs)	contin	numeric	
V56	CODEF	Cost item	contin	numeric	
V57	COSTF	Cost (Rs)	contin	numeric	
V58	CODEG	Cost item	contin	numeric	
V59	COSTG	Cost (Rs)	contin	numeric	
V60	CODEH	Cost item	contin	numeric	
V61	COSTH	Cost (Rs)	contin	numeric	
V62	CODEI	Cost item	contin	numeric	
V63	COSTI	Cost (Rs)	contin	numeric	
V64	CODEJ	Cost item	contin	numeric	
V65	COSTJ	Cost (Rs)	contin	numeric	

Rec3

Content	Record type 3 records pertaining to the microdata file constitute this file
Cases	361
Variable(s)	10
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V66	REC$TYPE		discrete	character	
V67	RECID	Record ID	contin	numeric	
V68	UPROOTING	Uprooting area	contin	numeric	
V69	UPROOTCOST	Uprooting cost	contin	numeric	
V70	PLANTING_AREA	Planting area	contin	numeric	
V71	PLANTING_COST	Planting cost	contin	numeric	
V72	FERTILIZER_AREA	Fertilizer area	contin	numeric	
V73	FERTILIZER_COST	Fertilizer cost	contin	numeric	
V74	WEEDING_AREA	Weeding area	contin	numeric	
V75	WEEDING_COST	Weeding cost	contin	numeric	

(REC$TYPE)
File: Rec1

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 361
Invalid: 0

Record ID (RECID)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1001-3097

Valid cases: 361
Invalid: 0
Minimum: 1001
Maximum: 3102
Mean: 1881
Standard deviation: 795.7

Extent in Bearing - V.P. (EXTBRVP)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 0-9999

Valid cases: 349
Invalid: 12
Minimum: 0.5
Maximum: 1029.3
Mean: 68
Standard deviation: 78.3

Extent not in Bearing - V.P. (EXTNBRVP)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 0-9999

Valid cases: 272
Invalid: 89
Minimum: 0.2
Maximum: 262.2
Mean: 22.6
Standard deviation: 25.6

Extent in Bearing - Seedling (EXTBRSEED)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 0-9999

Valid cases: 344
Invalid: 17
Minimum: 1.5
Maximum: 671.8
Mean: 195.4
Standard deviation: 129.2

Extent not in Bearing - Seedling (EXTNBRSEED)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 0-9999

Valid cases: 36
Invalid: 325
Minimum: 0.9
Maximum: 320.3
Mean: 40
Standard deviation: 80.4

Extent total in Hectares (EXTTOT)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-9999

Valid cases: 361
Invalid: 0
Minimum: 2
Maximum: 1963.2
Mean: 272.8
Standard deviation: 176.2

Qty of Tea Produced in factory from estate leaf (QTYESTLEAF)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-9999999

Valid cases: 361
Invalid: 0
Minimum: 3060
Maximum: 4183560
Mean: 274827.7
Standard deviation: 284110.1

Qty of Tea Produced in factory from bought leaf (QTYBGTLEAF)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-9999999

Valid cases: 241
Invalid: 120
Minimum: 123
Maximum: 668479
Mean: 83670.4
Standard deviation: 105996.9

Qty of Tea Produced Total (QTYTOT)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-9999999

Valid cases: 361
Invalid: 0
Minimum: 8406
Maximum: 4417060
Mean: 330685.2
Standard deviation: 291656

Unknown Field (UNKNOWN)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-9999999

Valid cases: 248
Invalid: 113
Minimum: 180
Maximum: 2972058
Mean: 337907.9
Standard deviation: 445854

(REC$TYPE)
File: Rec2

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 1461
Invalid: 0

Record ID (RECID)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1001-3097

Valid cases: 1461
Invalid: 0
Minimum: 1001
Maximum: 3102
Mean: 1856.9
Standard deviation: 791.2

Cost item. (CODEA)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1461
Invalid: 0
Minimum: 1
Maximum: 50
Mean: 20.9
Standard deviation: 15.2

Cost (Rs) (COSTA)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-91085

Valid cases: 1461
Invalid: 0
Minimum: 3
Maximum: 92805
Mean: 8440.4
Standard deviation: 13087.7

Cost item (CODEB)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1429
Invalid: 32
Minimum: 2
Maximum: 50
Mean: 21.6
Standard deviation: 14.8

Cost (Rs) (COSTB)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-69845

Valid cases: 1429
Invalid: 32
Minimum: 2
Maximum: 91212
Mean: 5424.7
Standard deviation: 11364.1

Cost item (CODEC)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1400
Invalid: 61
Minimum: 3
Maximum: 50
Mean: 22.5
Standard deviation: 14.6

Cost (Rs) (COSTC)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 1-98164

Valid cases: 1400
Invalid: 61
Minimum: 1
Maximum: 85800
Mean: 7407.3
Standard deviation: 10822

Cost item (CODED)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1373
Invalid: 88
Minimum: 4
Maximum: 50
Mean: 23.4
Standard deviation: 14.3

Cost (Rs) (COSTD)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-74737

Valid cases: 1373
Invalid: 88
Minimum: 1
Maximum: 87413
Mean: 6509.2
Standard deviation: 11942

Cost item (CODEE)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1340
Invalid: 121
Minimum: 5
Maximum: 50
Mean: 24
Standard deviation: 14

Cost (Rs) (COSTE)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-91503

Valid cases: 1340
Invalid: 121
Minimum: 3
Maximum: 79938
Mean: 7073.6
Standard deviation: 11162.5

Cost item (CODEF)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1298
Invalid: 163
Minimum: 6
Maximum: 50
Mean: 24.4
Standard deviation: 13.7

Cost (Rs) (COSTF)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 3-88369

Valid cases: 1298
Invalid: 163
Minimum: 1
Maximum: 97548
Mean: 9563.1
Standard deviation: 14368.9

Cost item (CODEG)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1260
Invalid: 201
Minimum: 7
Maximum: 50
Mean: 24.9
Standard deviation: 13.5

Cost (Rs) (COSTG)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-83231

Valid cases: 1260
Invalid: 201
Minimum: 1
Maximum: 93083
Mean: 11006.5
Standard deviation: 15013.1

Cost item (CODEH)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1225
Invalid: 236
Minimum: 8
Maximum: 50
Mean: 25.5
Standard deviation: 13.2

Cost (Rs) (COSTH)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-86800

Valid cases: 1225
Invalid: 236
Minimum: 1
Maximum: 95209
Mean: 10085.9
Standard deviation: 16983.3

Cost item (CODEI)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1177
Invalid: 284
Minimum: 9
Maximum: 50
Mean: 26
Standard deviation: 12.6

Cost (Rs) (COSTI)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 2-83348

Valid cases: 1177
Invalid: 284
Minimum: 4
Maximum: 90739
Mean: 8756.6
Standard deviation: 17542.3

Cost item (CODEJ)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 1-51

Valid cases: 1131
Invalid: 330
Minimum: 10
Maximum: 50
Mean: 26.5
Standard deviation: 12.1

Cost (Rs) (COSTJ)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 0-91753

Valid cases: 1131
Invalid: 330
Minimum: 2
Maximum: 98098
Mean: 7653
Standard deviation: 15422.6

(REC$TYPE)
File: Rec3

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 361
Invalid: 0

Record ID (RECID)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1001-3102

Valid cases: 361
Invalid: 0
Minimum: 1001
Maximum: 3102
Mean: 1881
Standard deviation: 795.7

Uprooting area (UPROOTING)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 2-969.7

Valid cases: 197
Invalid: 164
Minimum: 2
Maximum: 969.7
Mean: 130.2
Standard deviation: 151.5

Uprooting cost (UPROOTCOST)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 4018-6313300

Valid cases: 197
Invalid: 164
Minimum: 4018
Maximum: 6313300
Mean: 1129923.4
Standard deviation: 1249956.4

Planting area (PLANTING_AREA)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 10-969.7

Valid cases: 232
Invalid: 129
Minimum: 10
Maximum: 969.7
Mean: 126.3
Standard deviation: 130.4

Planting cost (PLANTING_COST)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 11057-6408179

Valid cases: 232
Invalid: 129
Minimum: 11057
Maximum: 6408179
Mean: 1038145.4
Standard deviation: 1026345.8

Fertilizer area (FERTILIZER_AREA)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 10-1875

Valid cases: 266
Invalid: 95
Minimum: 10
Maximum: 1875
Mean: 221.7
Standard deviation: 261.1

Fertilizer cost (FERTILIZER_COST)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 4293-3057880

Valid cases: 266
Invalid: 95
Minimum: 4293
Maximum: 3057880
Mean: 396046.3
Standard deviation: 444161.8

Weeding area (WEEDING_AREA)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 2
Range: 10-6457.2

Valid cases: 255
Invalid: 106
Minimum: 10
Maximum: 6457.2
Mean: 322.4
Standard deviation: 680.7

Weeding cost (WEEDING_COST)
File: Rec3

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 10800-5613908

Valid cases: 255
Invalid: 106
Minimum: 10800
Maximum: 5613908
Mean: 1002898.1
Standard deviation: 790452

Related Materials

Other materials

Cost of Production of Made Tea per Kilo - Questionnaire

Title	Cost of Production of Made Tea per Kilo - Questionnaire
Filename	Cost of Production of Made Tea per Kilo - Questionnaire.pdf

Study Documentation of CPT83 Project

Title	Study Documentation of CPT83 Project
Filename	Documentation/Study Documentation of CPT83 Project.pdf