Sri Lanka - Cost of Production of Made Tea per Kilo - 1989

Tea Commissioner - Ministry of Plantation Industries

Report generated on: October 2, 2013

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Overview

Identification

ID NUMBER
LKA-STB-CPT-1989-v1.0

Version

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

PRODUCTION DATE
1989-01-01

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	STB	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-1989-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	220
Variable(s)	18
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V117	REC$TYPE		discrete	character	
V118	RECID	Record ID	contin	numeric	
V119	EXTBRVP	Extent in Bearing - V.P.	contin	numeric	
V120	EXTNBRVP	Extent not in Bearing - V.P.	contin	numeric	
V121	EXTBRSEED	Extent in Bearing - Seedling	contin	numeric	
V122	EXTNBRSEED	Extent not in Bearing - Seedling	contin	numeric	
V123	EXTTOT	Extent total in Hectares	contin	numeric	
V124	QTYESTLEAF	Qty of Tea Produced in factory from estate leaf	contin	numeric	
V125	QTYBGTLEAF	Qty of Tea Produced in factory from bought leaf	contin	numeric	
V126	QTYTOT	Qty of Tea Produced Total	contin	numeric	
V127	UPROOTING_AREA	Uprooting area	contin	numeric	
V128	UPROOTING_COST	Uprooting Cost	contin	numeric	
V129	PLANTING_AREA	Planting area	contin	numeric	
V130	PLANTING_COST	Planting Cost	contin	numeric	
V131	FERTILIZER_AREA	Fertilizer area	contin	numeric	
V132	FERTILIZER_COST	Fertilizer Cost	contin	numeric	
V133	WEEDING_AREA	Weeding area	contin	numeric	
V134	WEEDING_COST	Weeding Cost	contin	numeric	

Rec2

Content	Record type 2 records pertaining to the microdata file consititute this file.
Cases	941
Variable(s)	23
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V135	REC$TYPE		discrete	character	
V136	RECID	Record ID	contin	numeric	
V137	COST1	Cost (Rs)	contin	numeric	
V138	CODEA	Cost item.	contin	numeric	
V139	COST2	Cost (Rs)	contin	numeric	
V140	CODEB	Cost item	contin	numeric	
V141	COST3	Cost (Rs)	contin	numeric	
V142	CODEC	Cost item	contin	numeric	
V143	COST4	Cost (Rs)	contin	numeric	
V144	CODED	Cost item	contin	numeric	
V145	COST5	Cost (Rs)	contin	numeric	
V146	CODEE	Cost item	contin	numeric	
V147	COST6	Cost (Rs)	contin	numeric	
V148	CODEF	Cost item	contin	numeric	
V149	COST7	Cost (Rs)	contin	numeric	
V150	CODEG	Cost item	contin	numeric	
V151	COST8	Cost (Rs)	contin	numeric	
V152	CODEH	Cost item	contin	numeric	
V153	COST9	Cost (Rs)	contin	numeric	
V154	CODEI	Cost item	contin	numeric	
V155	COST0	Cost (Rs)	contin	numeric	
V156	CODEJ	Cost item	contin	numeric	
V157	EOR	End of estate details indicator	contin	numeric	

(REC$TYPE)
File: Rec1

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 220
Invalid: 0

Record ID (RECID)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1001-3125

Valid cases: 220
Invalid: 0
Minimum: 1001
Maximum: 3061
Mean: 1858.1
Standard deviation: 831.7

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

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-453.75

Valid cases: 220
Invalid: 0
Minimum: 0
Maximum: 314
Mean: 77.1
Standard deviation: 58.4

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

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-442.33

Valid cases: 220
Invalid: 0
Minimum: 0
Maximum: 243.9
Mean: 19.8
Standard deviation: 23.9

Extent in Bearing - Seedling (EXTBRSEED)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-604.5

Valid cases: 220
Invalid: 0
Minimum: 0
Maximum: 587.8
Mean: 160.2
Standard deviation: 124.4

Extent not in Bearing - Seedling (EXTNBRSEED)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-285.85

Valid cases: 220
Invalid: 0
Minimum: 0
Maximum: 1510.8
Mean: 15
Standard deviation: 119.4

Extent total in Hectares (EXTTOT)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-706.25

Valid cases: 220
Invalid: 0
Minimum: 4.4
Maximum: 1837.8
Mean: 272.2
Standard deviation: 202.1

Qty of Tea Produced in factory from estate leaf (QTYESTLEAF)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 205-1317540

Valid cases: 220
Invalid: 0
Minimum: 1576
Maximum: 983755
Mean: 296298.8
Standard deviation: 212934.2

Qty of Tea Produced in factory from bought leaf (QTYBGTLEAF)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-1339226

Valid cases: 220
Invalid: 0
Minimum: 0
Maximum: 750613
Mean: 81592.2
Standard deviation: 131596.9

Qty of Tea Produced Total (QTYTOT)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-1339226

Valid cases: 220
Invalid: 0
Minimum: 19962
Maximum: 1184298
Mean: 377890.9
Standard deviation: 218697.1

Uprooting area (UPROOTING_AREA)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-999

Valid cases: 180
Invalid: 40
Minimum: 0
Maximum: 81.9
Mean: 12.3
Standard deviation: 13.3

Uprooting Cost (UPROOTING_COST)
File: Rec1

Overview

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

Valid cases: 180
Invalid: 40
Minimum: 0
Maximum: 2734052
Mean: 419291.5
Standard deviation: 453919.8

Planting area (PLANTING_AREA)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-999

Valid cases: 171
Invalid: 49
Minimum: 0
Maximum: 62.4
Mean: 9.3
Standard deviation: 10.4

Planting Cost (PLANTING_COST)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-999999

Valid cases: 171
Invalid: 49
Minimum: 0
Maximum: 1478147
Mean: 225461.9
Standard deviation: 258487.1

Fertilizer area (FERTILIZER_AREA)
File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-140.13

Valid cases: 168
Invalid: 52
Minimum: 0
Maximum: 151.3
Mean: 19.1
Standard deviation: 19.8

Fertilizer Cost (FERTILIZER_COST)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-896282

Valid cases: 168
Invalid: 52
Minimum: 0
Maximum: 1598178
Mean: 115288.7
Standard deviation: 185694.7

Weeding area (WEEDING_AREA)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 2
Range: 0-256.71

Valid cases: 167
Invalid: 53
Minimum: 0
Maximum: 238
Mean: 20.7
Standard deviation: 24.1

Weeding Cost (WEEDING_COST)

File: Rec1

Overview

Type: Continuous
Format: numeric
Width: 7
Decimals: 0
Range: 0-4279302

Valid cases: 167
Invalid: 53
Minimum: 0
Maximum: 3105639
Mean: 611605.9
Standard deviation: 547109.6

(REC$TYPE)
File: Rec2

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 941
Invalid: 0

Record ID (RECID)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 4
Decimals: 0
Range: 1001-3125

Valid cases: 941
Invalid: 0
Minimum: 1001
Maximum: 3061
Mean: 1838.5
Standard deviation: 826.3

Cost (Rs) (COST1)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 6-88336347

Valid cases: 941
Invalid: 0
Minimum: 107
Maximum: 79625557
Mean: 642930
Standard deviation: 2972442.6

Cost item. (CODEA)
File: Rec2

Overview

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

Valid cases: 941
Invalid: 0
Minimum: 1
Maximum: 51
Mean: 21.4
Standard deviation: 15.2

Cost (Rs) (COST2)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 19-18075407

Valid cases: 912
Invalid: 29
Minimum: 25
Maximum: 28861073
Mean: 512976.1
Standard deviation: 2026163.4

Cost item (CODEB)
File: Rec2

Overview

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

Valid cases: 912
Invalid: 29
Minimum: 2
Maximum: 51
Mean: 21.8
Standard deviation: 14.7

Cost (Rs) (COST3)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 150-28804850

Valid cases: 894
Invalid: 47
Minimum: 200
Maximum: 28391095
Mean: 636299.8
Standard deviation: 1979115

Cost item (CODEC)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 3-51

Valid cases: 894
Invalid: 47
Minimum: 3
Maximum: 51
Mean: 22.4
Standard deviation: 14.5

Cost (Rs) (COST4)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 42-82280584

Valid cases: 872
Invalid: 69
Minimum: 304
Maximum: 39567155
Mean: 1930506.7
Standard deviation: 3996611.1

Cost item (CODED)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 4-51

Valid cases: 872
Invalid: 69
Minimum: 4
Maximum: 51
Mean: 23
Standard deviation: 14.2

Cost (Rs) (COST5)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 16-91411288

Valid cases: 856
Invalid: 85
Minimum: 254
Maximum: 28695815
Mean: 770614.5
Standard deviation: 2724307.1

Cost item (CODEE)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 4-51

Valid cases: 856
Invalid: 85
Minimum: 5
Maximum: 51
Mean: 23.7
Standard deviation: 14

Cost (Rs) (COST6)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 0-24913625

Valid cases: 837
Invalid: 104
Minimum: 163
Maximum: 222939590
Mean: 1461961
Standard deviation: 8722146.2

Cost item (CODEF)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 5-51

Valid cases: 837
Invalid: 104
Minimum: 6
Maximum: 51
Mean: 24.4
Standard deviation: 13.7

Cost (Rs) (COST7)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 0-99999999

Valid cases: 815
Invalid: 126
Minimum: 29
Maximum: 92299141
Mean: 566707.6
Standard deviation: 3460913

Cost item (CODEG)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 6-51

Valid cases: 815
Invalid: 126
Minimum: 7
Maximum: 51
Mean: 25
Standard deviation: 13.4

Cost (Rs) (COST8)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 21-434969171

Valid cases: 792
Invalid: 149
Minimum: 280
Maximum: 28358911
Mean: 421004.4
Standard deviation: 1484124.4

Cost item (CODEH)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 7-51

Valid cases: 792
Invalid: 149
Minimum: 8
Maximum: 51
Mean: 25.7
Standard deviation: 13

Cost (Rs) (COST9)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 19-121280691

Valid cases: 772
Invalid: 169
Minimum: 46
Maximum: 28489872
Mean: 427453.3
Standard deviation: 1266514.5

Cost item (CODEI)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 3-51

Valid cases: 772
Invalid: 169
Minimum: 9
Maximum: 51
Mean: 26.5
Standard deviation: 12.6

Cost (Rs) (COST0)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 9
Decimals: 0
Range: 25-34358400

Valid cases: 748
Invalid: 193
Minimum: 0
Maximum: 19800862
Mean: 431121.2
Standard deviation: 1174523.8

Cost item (CODEJ)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: 4-51

Valid cases: 748
Invalid: 193
Minimum: 0
Maximum: 51
Mean: 27
Standard deviation: 12.1

End of estate details indicator (EOR)
File: Rec2

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: 1-9

Valid cases: 239
Invalid: 702
Minimum: 1
Maximum: 9
Mean: 1.2
Standard deviation: 0.7

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 CPT89 Project

Title	Study Documentation of CPT89 Project
Filename	Documentation/Study Documentation of CPT89 Project.pdf