

# Sri Lanka - Cost of Production of Made Tea per Kilo - 1991

**Tea Commissioner - Ministry of Plantation Industries**

Report generated on: October 2, 2013

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# Overview

## Identification

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### ID NUMBER

LKA-STB-CPT-1991-v1.0

## Version

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### VERSION DESCRIPTION

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

### PRODUCTION DATE

1991

## Overview

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### 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

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#### **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

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#### **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

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#### **PRIMARY INVESTIGATOR(S)**

<b>Name</b>	<b>Affiliation</b>
Tea Commissioner	Ministry of Plantation Industries

#### **FUNDING**

<b>Name</b>	<b>Abbreviation</b>	<b>Role</b>
Sri Lanka Tea Board	STB	Source of funds

## Metadata Production

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**METADATA PRODUCED BY**

<b>Name</b>	<b>Abbreviation</b>	<b>Affiliation</b>	<b>Role</b>
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**

2009-10-09

**DDI DOCUMENT VERSION**

Version 1.0 (2009)

**DDI DOCUMENT ID**

DDI-LKA-STB-CPT-1991-v1.0

## Sampling

No content available

# Questionnaires

## Overview

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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
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### 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

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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 constitute this file.
Cases	165
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 constitute this file.
Cases	682
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	Valid cases: 165
Format: character	Invalid: 0
Width: 1	

**Record ID (RECID)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 4	Minimum: 1001
Decimals: 0	Maximum: 3064
Range: 1001-3125	Mean: 1930.4
	Standard deviation: 878.1

**Extent in Bearing - V.P. (EXTBRVP)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 387.5
Range: 0-453.75	Mean: 94.1
	Standard deviation: 64.9

**Extent not in Bearing - V.P. (EXTNBRVP)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 244.5
Range: 0-442.33	Mean: 22.2
	Standard deviation: 24.9

**Extent in Bearing - Seedling (EXTBRSEED)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 478.8
Range: 0-604.5	Mean: 145.4
	Standard deviation: 113.8

**Extent not in Bearing - Seedling (EXTNBRSEED)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 197
Range: 0-285.85	Mean: 2.2
	Standard deviation: 16

**Extent total in Hectares (EXTTOT)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 10
Decimals: 2	Maximum: 719.5
Range: 0-706.25	Mean: 264
	Standard deviation: 152.3

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

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 2770
Decimals: 0	Maximum: 975990
Range: 205-1317540	Mean: 318620.4
	Standard deviation: 214450

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

File: Rec1

**Overview**

Type: Continuous	Valid cases: 164
Format: numeric	Invalid: 1
Width: 7	Minimum: 0
Decimals: 0	Maximum: 968584
Range: 0-1339226	Mean: 109602.3
	Standard deviation: 178705.2

**Qty of Tea Produced Total (QTYTOT)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 15608
Decimals: 0	Maximum: 1208456
Range: 0-1339226	Mean: 427558.4
	Standard deviation: 230764.4



**Uprooting area (UPROOTING\_AREA)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 61.5
Range: 0-999	Mean: 7.2
	Standard deviation: 8.9

**Uprooting Cost (UPROOTING\_COST)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2310958
Range: 0-9999999	Mean: 333548.4
	Standard deviation: 434695.8

**Planting area (PLANTING\_AREA)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 32
Range: 0-999	Mean: 6.8
	Standard deviation: 7.1

**Planting Cost (PLANTING\_COST)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2565185
Range: 0-999999	Mean: 294925.4
	Standard deviation: 395384.3

**Fertilizer area (FERTILIZER\_AREA)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 8	Minimum: 0
Decimals: 2	Maximum: 175.3
Range: 0-140.13	Mean: 15.9
	Standard deviation: 21.5

**Fertilizer Cost (FERTILIZER\_COST)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 0
Decimals: 0	Maximum: 3131781
Range: 0-896282	Mean: 166107.3
	Standard deviation: 321052

**Weeding area (WEEDING\_AREA)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 164
Format: numeric	Invalid: 1
Width: 8	Minimum: 0
Decimals: 2	Maximum: 587.5
Range: 0-256.71	Mean: 18.7
	Standard deviation: 48

**Weeding Cost (WEEDING\_COST)**

File: Rec1

**Overview**

Type: Continuous	Valid cases: 165
Format: numeric	Invalid: 0
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2435072
Range: 0-4279302	Mean: 582733.3
	Standard deviation: 590759

**(REC\$TYPE)**

File: Rec2

**Overview**

Type: Discrete	Valid cases: 682
Format: character	Invalid: 0
Width: 1	

**Record ID (RECID)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 682
Format: numeric	Invalid: 0
Width: 4	Minimum: 1001
Decimals: 0	Maximum: 3064
Range: 1001-3125	Mean: 1918.8
	Standard deviation: 875.2

**Cost (Rs) (COST1)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 682
Format: numeric	Invalid: 0
Width: 9	Minimum: 433
Decimals: 0	Maximum: 38417671
Range: 6-88336347	Mean: 832678.8
	Standard deviation: 2609369.5

**Cost item. (CODEA)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 682
Format: numeric	Invalid: 0
Width: 2	Minimum: 1
Decimals: 0	Maximum: 51
Range: 1-51	Mean: 20.9
	Standard deviation: 15.1

**Cost (Rs) (COST2)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 665
Format: numeric	Invalid: 17
Width: 9	Minimum: 95
Decimals: 0	Maximum: 37249493
Range: 19-18075407	Mean: 569785.1
	Standard deviation: 2291095.7

**Cost item (CODEB)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 665
Format: numeric	Invalid: 17
Width: 2	Minimum: 2
Decimals: 0	Maximum: 51
Range: 2-51	Mean: 21.4
	Standard deviation: 14.8

**Cost (Rs) (COST3)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 653
Format: numeric	Invalid: 29
Width: 9	Minimum: 431
Decimals: 0	Maximum: 56141508
Range: 150-28804850	Mean: 973659.6
	Standard deviation: 3517959.6

**Cost item (CODEC)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 653
Format: numeric	Invalid: 29
Width: 2	Minimum: 3
Decimals: 0	Maximum: 51
Range: 3-51	Mean: 22.1
	Standard deviation: 14.6

**Cost (Rs) (COST4)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 635
Format: numeric	Invalid: 47
Width: 9	Minimum: 66
Decimals: 0	Maximum: 49433660
Range: 42-82280584	Mean: 2555828.1
	Standard deviation: 5166071.9

**Cost item (CODED)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 635
Format: numeric	Invalid: 47
Width: 2	Minimum: 4
Decimals: 0	Maximum: 51
Range: 4-51	Mean: 22.6
	Standard deviation: 14.3

**Cost (Rs) (COST5)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 626
Format: numeric	Invalid: 56
Width: 9	Minimum: 1000
Decimals: 0	Maximum: 48255828
Range: 16-91411288	Mean: 1270662.1
	Standard deviation: 4684933.1

**Cost item (CODEE)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 626
Format: numeric	Invalid: 56
Width: 2	Minimum: 5
Decimals: 0	Maximum: 51
Range: 4-51	Mean: 23.5
	Standard deviation: 14.2

**Cost (Rs) (COST6)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 614
Format: numeric	Invalid: 68
Width: 9	Minimum: 295
Decimals: 0	Maximum: 42258420
Range: 0-24913625	Mean: 1487598.5
	Standard deviation: 4928574.9

**Cost item (CODEF)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 614
Format: numeric	Invalid: 68
Width: 2	Minimum: 6
Decimals: 0	Maximum: 51
Range: 5-51	Mean: 24.4
	Standard deviation: 14.1

**Cost (Rs) (COST7)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 593
Format: numeric	Invalid: 89
Width: 9	Minimum: 768
Decimals: 0	Maximum: 22253837
Range: 0-99999999	Mean: 660836.3
	Standard deviation: 2094549.8

**Cost item (CODEG)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 594
Format: numeric	Invalid: 88
Width: 2	Minimum: 7
Decimals: 0	Maximum: 51
Range: 6-51	Mean: 24.9
	Standard deviation: 13.8

**Cost (Rs) (COST8)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 566
Format: numeric	Invalid: 116
Width: 9	Minimum: 250
Decimals: 0	Maximum: 30889371
Range: 21-434969171	Mean: 526715.1
	Standard deviation: 1510429.5

**Cost item (CODEH)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 566
Format: numeric	Invalid: 116
Width: 2	Minimum: 8
Decimals: 0	Maximum: 51
Range: 7-51	Mean: 25.1
	Standard deviation: 13.1

**Cost (Rs) (COST9)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 545
Format: numeric	Invalid: 137
Width: 9	Minimum: 47
Decimals: 0	Maximum: 16650429
Range: 19-121280691	Mean: 544184.6
	Standard deviation: 1145634.4

**Cost item (CODEI)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 545
Format: numeric	Invalid: 137
Width: 2	Minimum: 9
Decimals: 0	Maximum: 51
Range: 3-51	Mean: 25.6
	Standard deviation: 12.4

**Cost (Rs) (COST0)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 533
Format: numeric	Invalid: 149
Width: 9	Minimum: 48
Decimals: 0	Maximum: 17365026
Range: 25-34358400	Mean: 554619.6
	Standard deviation: 1180097.8

**Cost item (CODEJ)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 533
Format: numeric	Invalid: 149
Width: 2	Minimum: 10
Decimals: 0	Maximum: 51
Range: 4-51	Mean: 26.6
	Standard deviation: 11.9

**End of estate details indicator (EOR)**

File: Rec2

**Overview**

Type: Continuous	Valid cases: 4
Format: numeric	Invalid: 678
Width: 5	Minimum: 2
Decimals: 0	Maximum: 6
Range: 1-9	Mean: 4.3
	Standard deviation: 1.7

## Related Materials

### Other materials

#### Cost of Production of Made Tea per Kilo - Questionnaire

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

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#### Study Documentation of CPT91 Project

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Title Study Documentation of CPT91 Project  
Filename Documentation/Study Documentation of CPT91 Project.pdf

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