

Sri Lanka - Rubber Economic Cost Survey - 1978

Rubber Development Department

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Identification

SURVEY ID NUMBER

LKA-DCS-RECS-1978-v1.0

TITLE

Rubber Economic Cost Survey - 1978

COUNTRY

Name	Country code
Sri Lanka	LKA

STUDY TYPE

Administrative Records, Other (ad/oth]

ABSTRACT

The Rubber Control Department was established to enforce the legislative provisions of Rubber Control Ordinance No 63 of 1938 which was later repealed by the Rubber Control Act No 11 of 1956. The Rubber Replanting Subsidy fund was established for the purpose of subsidizing the replanting of rubber plants under the rubber replanting subsidy Act No 36 of 1953 to which amendments were made by enforcing Acts No 01 of 1995, No 54 of 1956 and no 09 of 1998.

The Rubber Control Department was upgraded in to Rubber Development Department as a result of amalgamation of Rubber Control Department with the advisory Board of Rubber Research Institute in 1994.

Rubber is a major export crop in the island. It is an important industrial raw-material for local and foreign automobile industry. A favourable feature in the rubber industry is that most of the traditional products such as sheet rubber has been diverted to technically specified rubber and concentrated latex. Increase of local consumption leads to the decrease of exports and it could be a favourable measure to face with low prices of raw materials prevailing in the foreign market.

Rubber is grown in the Districts such as Colombo, Gampaha, Kalutara, Kandy, Matale, N'Ellya, Galle, Matara, Hambantota, Kurunegala, Puttalam, Badulla, Monaragala, Ratnapura and Kegalle.

A rubber 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 latex to a nearby factory for processing where they are paid at a weekly rate declared by the government taking the market conditions into account. The latex purchased from outside estates by a factory are called Bought latex. Three types of rubber are produced in factories namely - Sheet, Crepe and Latex.

Some of the workers employed in a large rubber estate are resident in the estate. The activities that the workers perform are monitored on a daily basis such as tapping, fertilizing and so forth. The cost of production of made rubber 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]

UNIT OF ANALYSIS

Rubber estate / factory

Version

VERSION DESCRIPTION

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

VERSION DATE

1979

Scope

NOTES

This scope includes topics such as :

General (Identification details)
 Estate size Crops and Lands
 Maintenance of mature rubber
 Tapping and collecting costs
 Establishment and maintenance of all young immature rubber
 Factory costs
 Estate maintenance and upkeep
 General charges
 Production and prices
 Marketing and agency house expenses
 Estate labour and other staff

Coverage

GEOGRAPHIC COVERAGE

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

UNIVERSE

This data collection operation covered all rubber estates and factories in Sri Lanka.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Rubber Development Department	Ministry of Plantation Industries

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Rubber Development Department	RDD	Source of funds

Data Collection

DATES OF DATA COLLECTION

Start	End
1978	1979

DATA COLLECTION MODE

Mail Questionnaire [mail]

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 COLLECTORS

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.

Access policy

CONTACTS

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

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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:

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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.
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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

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- All the data requests should be made to Director General (DG) of the DCS as the sole authority of releasing data is vested with the DG of the DCS. The DCS of Sri Lanka reserves sole right to approve or reject any data request made depending on the confidential nature of the data set and intended purpose of the study or analysis.
- Requests for micro data should be made through the agreement form designed by DCS for this purpose (Form D.R.1). The agreement form should be filled in triplicate and the Study/project proposal should accompany the filled agreement form. If requests are made for the micro data of more than one survey, a separate agreement should be signed.
- If the data request is from a student a letter from the respective Dept. Head/Dean/Supervisor, recommending the issue of data, should also be accompanied.
- If the request is approved only 25% of the data file is released at the first stage. The release of the total data file is considered only after reviewing the draft report prepared on the basis of the 25% sample data file.
- The released Data file should be used only for the specific study/Analysis mentioned in the agreement form and shall not be used for any other purpose without the prior approval of the Director General of the DCS. Moreover, Copies of the micro-data file, obtained from the DCS, shall not be given to anyone else without the prior written approval of the Director General of the DCS.
- The draft report of the Study/Analysis should be submitted to the DCS and the concurrence of the DG of the DCS, should be obtained before publishing it. Once published, a copy of the final report should be submitted to the DCS.

[Department : The Department of Census and Statistics (DCS)]

Source : [http://www.statistics.gov.lk/databases/data dissemination/DataDissaPolicy_2007Oct26.pdf](http://www.statistics.gov.lk/databases/data%20dissemination/DataDissaPolicy_2007Oct26.pdf)

CITATION REQUIREMENTS

Department of Census and Statistics, Rubber Economic Cost Survey - 1978 [RECS1978], Version 1.0 of the internal use dataset August 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-RECS-1978-v1.0

PRODUCERS

Name	Abbreviation	Affiliation	Role
Department of Census and Statistics	DCS	Ministry of Finance and Planning	Processing data
Rubber Development Department	RDD	Ministry of Plantation Industries	Collecting data

DATE OF METADATA PRODUCTION
2009-08-28

DDI DOCUMENT VERSION
Version 1.0 (2009)

Data Dictionary

Data file	Cases	Variables
RECS78	1976	18

Data file: RECS78

Cases: 1976

Variables: 18

Variables

ID	Name	Label	Question
V66	DISTRICT	District	
V67	TYPE	Type of Rubber	
V68	SCHEDULE_NO	Schedule No	
V69	COST1	Item1	
V70	CODEA	Code1	
V71	COST2	Item2	
V72	CODEB	Code2	
V73	COST3	Item3	
V74	CODEC	Code3	
V75	COST4	Item4	
V76	CODED	Code4	
V77	COST5	Item5	
V78	CODEE	Code5	
V79	COST6	Item6	
V80	CODEF	Code6	
V81	BLANKS	Blank Field	
V82	SEQ	Sequence	
V83	JOB	Job code	

Total: 18

DISTRICT: District**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 1 Maximum: 11 Mean: 5.048 Standard deviation: 2.069
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 11 Format: Numeric

TYPE: Type of Rubber**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 1 Maximum: 3 Mean: 2.356 Standard deviation: 0.909
 Type: Continuous Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Sheet	589	29.8%
2	Crepe	95	4.8%
3	Latex	1292	65.4%

SCHEDULE_NO: Schedule No**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 1 Maximum: 40 Mean: 12.327 Standard deviation: 10.614
 Type: Continuous Decimal: 0 Width: 2 Range: 1 - 24 Format: Numeric

COST1: Item1**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 2713194 Mean: 11989.834 Standard deviation: 79355.606
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 3018249 Format: Numeric

CODEA: Code1**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 10 Maximum: 199 Mean: 106.895 Standard deviation: 58.785
 Type: Discrete Decimal: 0 Width: 3 Range: 10 - 199 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%
5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	104	5.3%
11	All Neglected or Abandoned rubber	0	0%
12	Total area under rubber	0	0%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	0	0%
20	Tractor/Truck operating costs (if any)	0	0%
21	Field tools	0	0%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	104	5.3%
23	Other material costs in maintaining Mature Rubber	0	0%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%
27	Total payments to tapping supervisors salaries	0	0%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	0	0%
29	Total operating costs of truck/tractor used in collecting	0	0%
30	All other tapping/collecting costs	0	0%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	104	5.3%
34	Surveying	0	0%
35	Line peg holing	0	0%

36	Planting Rubber	0	0%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	0	0%
41	Repair storm damages	0	0%
42	Field Watchers	104	5.3%
43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	0	0%
49	Tractor/truck operating costs (if any)	0	0%
50	Other material costs	0	0%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	0	0%
52	Total wages of all factory labor, Include: Supplements	0	0%
53	Total salaries of rubber makers, mechanics and other factory staff	104	5.3%
54	Chemicals	0	0%
55	Wood fuel	0	0%
56	Diesel Oil	0	0%
57	Furnace Oil	0	0%
58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	0	0%
62	Corrugating pans & other implements	0	0%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	104	5.3%
66	Cost of labor used in general estate maintenance	0	0%
67	Cost of materials used in general estate maintenance: lines, latrines	0	0%
68	Other buildings (Not Factory)	0	0%
69	Roads	0	0%
70	Water Supply	0	0%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%
73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%

75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	104	5.3%
79	Sanitation, medical & maternity	0	0%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	0	0%
82	Concessionary grants	0	0%
83	Office supplies, phone sundries	0	0%
84	Rent	0	0%
85	Taxes - Land and other Taxes	0	0%
86	Travelling expenses including maintenance of vehicles	104	5.3%
87	Depreciation	0	0%
88	Auditors fees	0	0%
89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	0	0%
91	Other General Charges	0	0%
92	SUB TOTAL - estate general charges	0	0%
93	Total of all sheet rubber produced	0	0%
94	Total of all Scrap produced	0	0%
95	Total of all crumb rubber produced	104	5.3%
96	Total of all latex crepe produced	0	0%
97	Total of all blanket crepe produced	0	0%
98	Total of all sole crepe produced	0	0%
99	Total of all thin crepe produced	0	0%
100	Total of all other crepe produced	0	0%
101	Total of all block rubber produced	104	5.3%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%
105	Average price received for all latex crepe sold	0	0%
106	Average price received for all sole crepe sold	0	0%
107	Average price received for all thin crepe sold	0	0%
108	Average price received for all other crepe sold	0	0%
109	Average price received for all block rubber sold	0	0%
110	Transport to Colombo or port	104	5.3%
111	Storage and handling	0	0%
112	Brokerage	0	0%
113	Agency commission	0	0%

114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%
121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%
130	130	104	5.3%
136	136	104	5.3%
155	155	104	5.3%
167	167	104	5.3%
177	177	104	5.3%
183	183	104	5.3%
189	189	104	5.3%
199	199	104	5.3%

COST2: Item2

Data file: RECS78

Overview

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 1019491 Mean: 12564.809 Standard deviation: 58600.543
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 894011 Format: Numeric

CODEB: Code2

Data file: RECS78

Overview

Valid: 1976 Invalid: 0 Minimum: 11 Maximum: 200 Mean: 108.474 Standard deviation: 58.437
 Type: Continuous Decimal: 0 Width: 3 Range: 11 - 200 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%

5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	0	0%
11	All Neglected or Abandoned rubber	104	9.1%
12	Total area under rubber	0	0%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	0	0%
20	Tractor/Truck operating costs (if any)	0	0%
21	Field tools	0	0%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	0	0%
23	Other material costs in maintaining Mature Rubber	104	9.1%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%
27	Total payments to tapping supervisors salaries	0	0%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	0	0%
29	Total operating costs of truck/tractor used in collecting	0	0%
30	All other tapping/collecting costs	0	0%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	0	0%
34	Surveying	104	9.1%
35	Line peg holing	0	0%
36	Planting Rubber	0	0%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	0	0%
41	Repair storm damages	0	0%
42	Field Watchers	0	0%

43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	104	9.1%
49	Tractor/truck operating costs (if any)	0	0%
50	Other material costs	0	0%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	0	0%
52	Total wages of all factory labor, Include: Supplements	0	0%
53	Total salaries of rubber makers, mechanics and other factory staff	0	0%
54	Chemicals	104	9.1%
55	Wood fuel	0	0%
56	Diesel Oil	0	0%
57	Furnace Oil	0	0%
58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	0	0%
62	Corrugating pans & other implements	0	0%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	0	0%
66	Cost of labor used in general estate maintenance	104	9.1%
67	Cost of materials used in general estate maintenance: lines, latrines	0	0%
68	Other buildings (Not Factory)	0	0%
69	Roads	0	0%
70	Water Supply	0	0%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%
73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%
75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	0	0%
79	Sanitation, medical & maternity	104	9.1%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	0	0%

82	Concessionary grants	0	0%
83	Office supplies, phone sundries	0	0%
84	Rent	0	0%
85	Taxes - Land and other Taxes	0	0%
86	Travelling expenses including maintenance of vehicles	0	0%
87	Depreciation	0	0%
88	Auditors fees	0	0%
89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	104	9.1%
91	Other General Charges	0	0%
92	SUB TOTAL - estate general charges	0	0%
93	Total of all sheet rubber produced	0	0%
94	Total of all Scrap produced	0	0%
95	Total of all crumb rubber produced	0	0%
96	Total of all latex crepe produced	104	9.1%
97	Total of all blanket crepe produced	0	0%
98	Total of all sole crepe produced	0	0%
99	Total of all thin crepe produced	0	0%
100	Total of all other crepe produced	0	0%
101	Total of all block rubber produced	0	0%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%
105	Average price received for all latex crepe sold	104	9.1%
106	Average price received for all sole crepe sold	0	0%
107	Average price received for all thin crepe sold	0	0%
108	Average price received for all other crepe sold	0	0%
109	Average price received for all block rubber sold	0	0%
110	Transport to Colombo or port	0	0%
111	Storage and handling	104	9.1%
112	Brokerage	0	0%
113	Agency commission	0	0%
114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%

121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%

COST3: Item3**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 1471251 Mean: 24172.472 Standard deviation: 103484.601
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 1979296 Format: Numeric

CODEC: Code3**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 12 Maximum: 201 Mean: 110.158 Standard deviation: 58.706
 Type: Continuous Decimal: 0 Width: 3 Range: 12 - 201 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%
5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	0	0%
11	All Neglected or Abandoned rubber	0	0%
12	Total area under rubber	104	9.1%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	0	0%

20	Tractor/Truck operating costs (if any)	0	0%
21	Field tools	0	0%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	0	0%
23	Other material costs in maintaining Mature Rubber	0	0%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%
27	Total payments to tapping supervisors salaries	104	9.1%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	0	0%
29	Total operating costs of truck/tractor used in collecting	0	0%
30	All other tapping/collecting costs	0	0%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	0	0%
34	Surveying	0	0%
35	Line peg holing	104	9.1%
36	Planting Rubber	0	0%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	0	0%
41	Repair storm damages	0	0%
42	Field Watchers	0	0%
43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	0	0%
49	Tractor/truck operating costs (if any)	104	9.1%
50	Other material costs	0	0%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	0	0%
52	Total wages of all factory labor, Include: Supplements	0	0%
53	Total salaries of rubber makers, mechanics and other factory staff	0	0%
54	Chemicals	0	0%
55	Wood fuel	104	9.1%
56	Diesel Oil	0	0%
57	Furnace Oil	0	0%

58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	0	0%
62	Corrugating pans & other implements	0	0%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	0	0%
66	Cost of labor used in general estate maintenance	0	0%
67	Cost of materials used in general estate maintenance: lines, latrines	104	9.1%
68	Other buildings (Not Factory)	0	0%
69	Roads	0	0%
70	Water Supply	0	0%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%
73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%
75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	0	0%
79	Sanitation, medical & maternity	0	0%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	104	9.1%
82	Concessionary grants	0	0%
83	Office supplies, phone sundries	0	0%
84	Rent	0	0%
85	Taxes - Land and other Taxes	0	0%
86	Travelling expenses including maintenance of vehicles	0	0%
87	Depreciation	0	0%
88	Auditors fees	0	0%
89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	0	0%
91	Other General Charges	104	9.1%
92	SUB TOTAL - estate general charges	0	0%
93	Total of all sheet rubber produced	0	0%
94	Total of all Scrap produced	0	0%
95	Total of all crumb rubber produced	0	0%
96	Total of all latex crepe produced	0	0%

97	Total of all blanket crepe produced	104	9.1%
98	Total of all sole crepe produced	0	0%
99	Total of all thin crepe produced	0	0%
100	Total of all other crepe produced	0	0%
101	Total of all block rubber produced	0	0%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%
105	Average price received for all latex crepe sold	0	0%
106	Average price received for all sole crepe sold	104	9.1%
107	Average price received for all thin crepe sold	0	0%
108	Average price received for all other crepe sold	0	0%
109	Average price received for all block rubber sold	0	0%
110	Transport to Colombo or port	0	0%
111	Storage and handling	0	0%
112	Brokerage	104	9.1%
113	Agency commission	0	0%
114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%
121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%

COST4: Item4**Data file: RECS78****Overview**

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 441980 Mean: 7170.42 Standard deviation: 27542.892
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 1251918 Format: Numeric

CODED: Code4**Data file: RECS78**

Overview

Valid: 1976 Invalid: 0 Minimum: 19 Maximum: 202 Mean: 112.737 Standard deviation: 58.646
 Type: Continuous Decimal: 0 Width: 3 Range: 19 - 202 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%
5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	0	0%
11	All Neglected or Abandoned rubber	0	0%
12	Total area under rubber	0	0%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	104	10%
20	Tractor/Truck operating costs (if any)	0	0%
21	Field tools	0	0%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	0	0%
23	Other material costs in maintaining Mature Rubber	0	0%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%
27	Total payments to tapping supervisors salaries	0	0%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	104	10%
29	Total operating costs of truck/tractor used in collecting	0	0%
30	All other tapping/collecting costs	0	0%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	0	0%

34	Surveying	0	0%
35	Line peg holing	0	0%
36	Planting Rubber	104	10%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	0	0%
41	Repair storm damages	0	0%
42	Field Watchers	0	0%
43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	0	0%
49	Tractor/truck operating costs (if any)	0	0%
50	Other material costs	104	10%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	0	0%
52	Total wages of all factory labor, Include: Supplements	0	0%
53	Total salaries of rubber makers, mechanics and other factory staff	0	0%
54	Chemicals	0	0%
55	Wood fuel	0	0%
56	Diesel Oil	104	10%
57	Furnace Oil	0	0%
58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	0	0%
62	Corrugating pans & other implements	0	0%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	0	0%
66	Cost of labor used in general estate maintenance	0	0%
67	Cost of materials used in general estate maintenance: lines, latrines	0	0%
68	Other buildings (Not Factory)	104	10%
69	Roads	0	0%
70	Water Supply	0	0%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%

73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%
75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	0	0%
79	Sanitation, medical & maternity	0	0%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	0	0%
82	Concessionary grants	104	10%
83	Office supplies, phone sundries	0	0%
84	Rent	0	0%
85	Taxes - Land and other Taxes	0	0%
86	Travelling expenses including maintenance of vehicles	0	0%
87	Depreciation	0	0%
88	Auditors fees	0	0%
89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	0	0%
91	Other General Charges	0	0%
92	SUB TOTAL - estate general charges	104	10%
93	Total of all sheet rubber produced	0	0%
94	Total of all Scrap produced	0	0%
95	Total of all crumb rubber produced	0	0%
96	Total of all latex crepe produced	0	0%
97	Total of all blanket crepe produced	0	0%
98	Total of all sole crepe produced	104	10%
99	Total of all thin crepe produced	0	0%
100	Total of all other crepe produced	0	0%
101	Total of all block rubber produced	0	0%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%
105	Average price received for all latex crepe sold	0	0%
106	Average price received for all sole crepe sold	0	0%
107	Average price received for all thin crepe sold	104	10%
108	Average price received for all other crepe sold	0	0%
109	Average price received for all block rubber sold	0	0%
110	Transport to Colombo or port	0	0%
111	Storage and handling	0	0%

112	Brokerage	0	0%
113	Agency commission	0	0%
114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%
121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%

COST5: Item5

Data file: RECS78

Overview

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 1000567 Mean: 15940.756 Standard deviation: 58470.315
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 879398 Format: Numeric

CODEE: Code5

Data file: RECS78

Overview

Valid: 1872 Invalid: 104 Minimum: 20 Maximum: 197 Mean: 109.5 Standard deviation: 56.156
 Type: Continuous Decimal: 0 Width: 3 Range: 20 - 197 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%
5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	0	0%

11	All Neglected or Abandoned rubber	0	0%
12	Total area under rubber	0	0%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	0	0%
20	Tractor/Truck operating costs (if any)	104	10%
21	Field tools	0	0%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	0	0%
23	Other material costs in maintaining Mature Rubber	0	0%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%
27	Total payments to tapping supervisors salaries	0	0%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	0	0%
29	Total operating costs of truck/tractor used in collecting	104	10%
30	All other tapping/collecting costs	0	0%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	0	0%
34	Surveying	0	0%
35	Line peg holing	0	0%
36	Planting Rubber	0	0%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	104	10%
41	Repair storm damages	0	0%
42	Field Watchers	0	0%
43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	0	0%
49	Tractor/truck operating costs (if any)	0	0%

50	Other material costs	0	0%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	104	10%
52	Total wages of all factory labor, Include: Supplements	0	0%
53	Total salaries of rubber makers, mechanics and other factory staff	0	0%
54	Chemicals	0	0%
55	Wood fuel	0	0%
56	Diesel Oil	0	0%
57	Furnace Oil	0	0%
58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	104	10%
62	Corrugating pans & other implements	0	0%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	0	0%
66	Cost of labor used in general estate maintenance	0	0%
67	Cost of materials used in general estate maintenance: lines, latrines	0	0%
68	Other buildings (Not Factory)	0	0%
69	Roads	104	10%
70	Water Supply	0	0%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%
73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%
75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	0	0%
79	Sanitation, medical & maternity	0	0%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	0	0%
82	Concessionary grants	0	0%
83	Office supplies, phone sundries	104	10%
84	Rent	0	0%
85	Taxes - Land and other Taxes	0	0%
86	Travelling expenses including maintenance of vehicles	0	0%
87	Depreciation	0	0%
88	Auditors fees	0	0%

89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	0	0%
91	Other General Charges	0	0%
92	SUB TOTAL - estate general charges	0	0%
93	Total of all sheet rubber produced	104	10%
94	Total of all Scrap produced	0	0%
95	Total of all crumb rubber produced	0	0%
96	Total of all latex crepe produced	0	0%
97	Total of all blanket crepe produced	0	0%
98	Total of all sole crepe produced	0	0%
99	Total of all thin crepe produced	104	10%
100	Total of all other crepe produced	0	0%
101	Total of all block rubber produced	0	0%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%
105	Average price received for all latex crepe sold	0	0%
106	Average price received for all sole crepe sold	0	0%
107	Average price received for all thin crepe sold	0	0%
108	Average price received for all other crepe sold	104	10%
109	Average price received for all block rubber sold	0	0%
110	Transport to Colombo or port	0	0%
111	Storage and handling	0	0%
112	Brokerage	0	0%
113	Agency commission	0	0%
114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%
121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%

COST6: Item6**Data file: RECS78**

Overview

Valid: 1976 Invalid: 0 Minimum: 0 Maximum: 2611115 Mean: 21255.791 Standard deviation: 101821.533
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 878888 Format: Numeric

CODEF: Code6

Data file: RECS78

Overview

Valid: 1872 Invalid: 104 Minimum: 21 Maximum: 198 Mean: 110.556 Standard deviation: 56.13
 Type: Continuous Decimal: 0 Width: 3 Range: 21 - 198 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Registered number of estate	0	0%
2	Revenue district of estate	0	0%
3	Name & address of estate	0	0%
5	Total No. of days in which tapping was done	0	0%
6	Average Yield per Hectare in 1991 all TAPPED RUBBER	0	0%
7	Average yield per Hectare in 1997 of all MATURE REPLANTED RUBBER	0	0%
8	Total area of the estate	0	0%
9	Area under Rubber, all mature rubber in production (All Crops)	0	0%
10	All immature, Young rubber	0	0%
11	All Neglected or Abandoned rubber	0	0%
12	Total area under rubber	0	0%
13	Replanting: Total area REPLANTED from 1953 to 1973	0	0%
14	Total area REPLANTED since 1974	0	0%
15	Total area under Other Crops	0	0%
16	Total of wages and other extra payments to field labor	0	0%
17	Total Salaries of field Supervisors, on crop maintenance	0	0%
18	Fertilizer	0	0%
19	Sprays, chemicals, stimulants	0	0%
20	Tractor/Truck operating costs (if any)	0	0%
21	Field tools	104	10%
22	Cost of maintenance repairs, and renting of implements needed for maintenance of mature rubber	0	0%
23	Other material costs in maintaining Mature Rubber	0	0%
24	SUB TOTAL- maintenance of mature rubber	0	0%
25	Total cost of all tapping/collecting labor, including payments for extra poundage	0	0%
26	Total payments to drivers	0	0%

27	Total payments to tapping supervisors salaries	0	0%
28	Total cost of equipment (tapping knife, collecting buckets, spout, hanger etc)	0	0%
29	Total operating costs of truck/tractor used in collecting	0	0%
30	All other tapping/collecting costs	104	10%
31	Total- tapping / collecting costs	0	0%
32	Uprooting the old crop, clearing the land	0	0%
33	Soil conservation, terrace, drains	0	0%
34	Surveying	0	0%
35	Line peg holing	0	0%
36	Planting Rubber	0	0%
37	Establish and or maintain cover crop	0	0%
38	Apply manure to Rubber and/or cover crops	0	0%
39	Weeding	0	0%
40	Pests and ,disease control	0	0%
41	Repair storm damages	104	10%
42	Field Watchers	0	0%
43	Other field Labor	0	0%
44	Fertilizer	0	0%
45	Sprays, chemicals	0	0%
46	Plants from Nursery	0	0%
47	Buckets	0	0%
48	Field Tools	0	0%
49	Tractor/truck operating costs (if any)	0	0%
50	Other material costs	0	0%
51	SUB TOTAL - Establishment & Maintenance of all immature rubber	0	0%
52	Total wages of all factory labor, Include: Supplements	104	10%
53	Total salaries of rubber makers, mechanics and other factory staff	0	0%
54	Chemicals	0	0%
55	Wood fuel	0	0%
56	Diesel Oil	0	0%
57	Furnace Oil	0	0%
58	Lubricants	0	0%
59	Purchased electric power	0	0%
60	Packing Materials	0	0%
61	Chemicals, Acids, Sundries	0	0%
62	Corrugating pans & other implements	104	10%
63	Machinery Maintenance	0	0%
64	General Factory Maintenance	0	0%
65	SUB TOTAL - factory costs	0	0%

66	Cost of labor used in general estate maintenance	0	0%
67	Cost of materials used in general estate maintenance: lines, latrines	0	0%
68	Other buildings (Not Factory)	0	0%
69	Roads	0	0%
70	Water Supply	104	10%
71	Estate Boundaries	0	0%
72	Other General estate maintenance	0	0%
73	SUB TOTAL - estate maintenance and upkeep	0	0%
74	Salaries and allowances	0	0%
75	Directors fees Prop: charges	0	0%
76	Visiting Charges	0	0%
77	Holiday Wages	0	0%
78	Weeding & schooling	0	0%
79	Sanitation, medical & maternity	0	0%
80	Insurance charges	0	0%
81	E.P.F. Contributions (9% contributed by the estate)	0	0%
82	Concessionary grants	0	0%
83	Office supplies, phone sundries	0	0%
84	Rent	0	0%
85	Taxes - Land and other Taxes	104	10%
86	Travelling expenses including maintenance of vehicles	0	0%
87	Depreciation	0	0%
88	Auditors fees	0	0%
89	Bonus to staff	0	0%
90	Workers compensation Prop: Charges	0	0%
91	Other General Charges	0	0%
92	SUB TOTAL - estate general charges	0	0%
93	Total of all sheet rubber produced	0	0%
94	Total of all Scrap produced	104	10%
95	Total of all crumb rubber produced	0	0%
96	Total of all latex crepe produced	0	0%
97	Total of all blanket crepe produced	0	0%
98	Total of all sole crepe produced	0	0%
99	Total of all thin crepe produced	0	0%
100	Total of all other crepe produced	104	10%
101	Total of all block rubber produced	0	0%
102	Average price received for all sheet sold	0	0%
103	Average price received for all scrap sold	0	0%
104	Average price received for all crumb rubber sold	0	0%

105	Average price received for all latex crepe sold	0	0%
106	Average price received for all sole crepe sold	0	0%
107	Average price received for all thin crepe sold	0	0%
108	Average price received for all other crepe sold	0	0%
109	Average price received for all block rubber sold	104	10%
110	Transport to Colombo or port	0	0%
111	Storage and handling	0	0%
112	Brokerage	0	0%
113	Agency commission	0	0%
114	Other marketing costs (if any)	0	0%
115	SUB TOTAL - marketing and agency house expenses	0	0%
116	Field labor (in number) - rubber	0	0%
117	Factory labor (in number)	0	0%
118	Other labour (in number) - Tea	0	0%
119	Other staff in number (Field staff)	0	0%
120	Other staff in number (Factory staff)	0	0%
121	Other staff in number (Office staff)	0	0%
122	Total number of days worked on estate by all registered labor	0	0%
123	Management of the Estate	0	0%

BLANKS: Blank Field

Data file: RECS78

Overview

Valid: 0 Invalid: 1976

Type: Continuous Decimal: 0 Width: 5 Range: - Format: Numeric

SEQ: Sequence

Data file: RECS78

Overview

Valid: 1976 Invalid: 0 Minimum: 1 Maximum: 19 Mean: 10 Standard deviation: 5.479

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 19 Format: Numeric

JOB: Job code

Data file: RECS78

Overview

Valid: 1976 Invalid: 0 Minimum: 37 Maximum: 37 Mean: 37 Standard deviation: 0

Type: Continuous Decimal: 0 Width: 2 Range: 37 - 37 Format: Numeric

Download related resources

Technical documents

Rubber Economic Cost Survey - Instructions

Title Rubber Economic Cost Survey - Instructions
Filename Rubber Economic Cost Survey - Instructions.pdf

Other materials

Rubber Economic Cost Survey - Questionnaire

Title Rubber Economic Cost Survey - Questionnaire
Filename Rubber Economic Cost Survey - Questionnaire.pdf

Study Documentation of RECS78 Project

Title Study Documentation of RECS78 Project
Filename Study Documentation of RECS78 Project.pdf
