

2018 Census of Economic Activities

Phase 1 – Small establishments

Introduction

Statistics Mauritius is currently conducting its seventh Census of Economic Activities (CEA) in Mauritius and Rodrigues, with 2018 as reference year. The main objective of this exercise which is normally carried out every five years is to collect data on the operating characteristics and structure of all types of economic activities, except agriculture where different measurement techniques are needed for the data collection.

The CEA is conducted in two phases - Phase I covering a sample of small production units (i.e. those engaging less than ten persons) and Phase II covering large units, that is, those with ten or more persons. Data collection for Phase I was carried out from January 2018 to December 2018 while that for Phase II started in September 2019 and is expected to be completed by December 2019.

This Economic and Social Indicator presents the preliminary results of Phase I of CEA 2018. The concepts and definitions used are given at Annex I, and the methodology including the coverage and the sampling design at Annex II. Grouping of activities is according to sectors of the United Nations International Standard Industrial Classification of Economic Activities, ISIC Rev. 4 of 2007.

It is to be noted that the data are provisional and may have to be adjusted for any possible under-reporting or misreporting after further analysis and comparison with indicative information from other sources. A more detailed report pertaining to the results of Phase I will be published by next year, and another one integrating the results of Phase I and Phase II and including estimates for sectors not covered by the CEA (agricultural activities and activities of household employees such as maids and gardeners, etc.) will be released by the end of 2020.

2. Highlights

The table below shows the main results of Phase I of CEA 2018 compared with those of CEA 2013.

Production units, persons engaged and value added - CEA 2013 and 2018

	2013	2018 ¹	Percentage Change
Production units	124,972	138,553	10.9
Persons engaged	281,861	322,027	14.3
Value added (Rs million)	82,702	117,687	42.3

¹ Provisional

(i) Production units

The number of small production units (establishments and itinerant units) operating in Mauritius and Rodrigues is estimated at 138,553 in 2018 compared to 124,972 in 2013, that is, about 11% higher.

(ii) Employment

The total number of persons engaged in those small units is estimated at 322,027 (219,180 males and 102,847 females), around 14% higher than the figure of 281,861 (196,316 males and 85,545 females) in 2013. The figures include both full-time and part-time workers; a part-time worker being counted as one person engaged.

The number of persons engaged per unit works out to 2.3, same as in 2013.

(iii) Value added

Total value added generated in 2018 by the small units covered is estimated at Rs 117,687 million, 42% higher than in 2013 when a value added of Rs 82,702 million was estimated. The contribution of the small units covered in the CEA 2018 to the economy works out to 28% compared to 25% in 2013.

Annual value added per unit increased by 28% to Rs 849,400 in 2018 from Rs 661,400 in 2013.

(iv) Main activity of the small units

“Wholesale and retail trade; repair of motor vehicles and motorcycles” is the activity group with the highest production units, 48,048 (35%). The sector employed around 103,568 persons, representing 32% of the total workforce of the small units. Its value added estimated at Rs 36,428 million, represented 31% of the total value added generated by the small units covered.

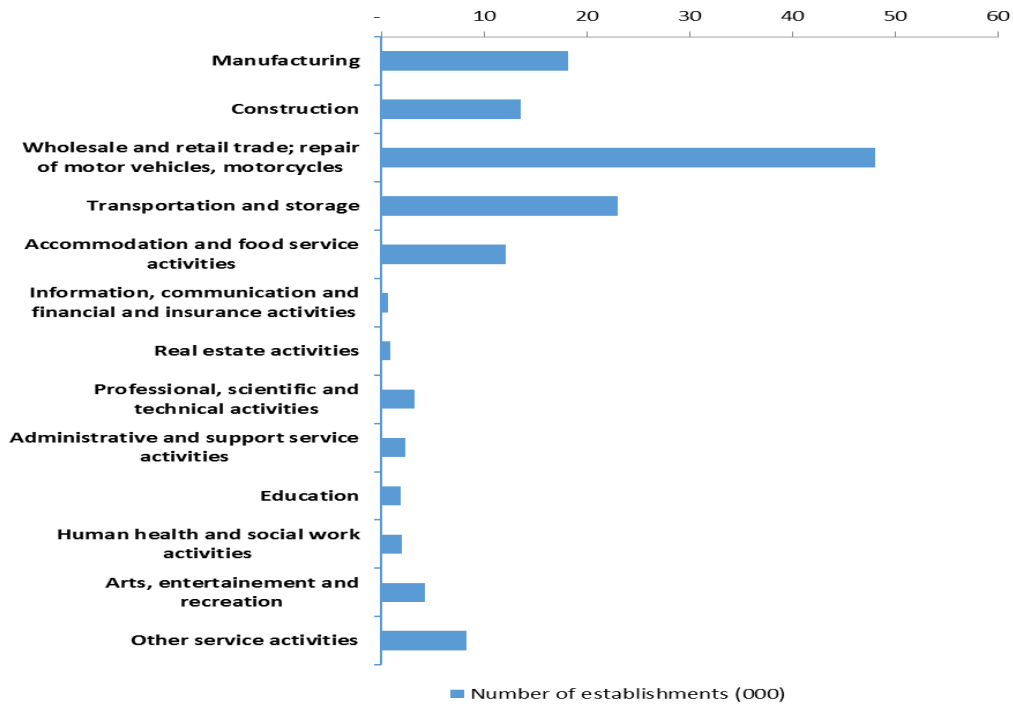
3. Small production units

The number of small production units operating in the different activities covered by the CEA was estimated at around 135,303 in Mauritius and 3,250 in Rodrigues. These figures include small establishments operating at a fixed location as well as itinerant units.

3.1 Activity

The CEA results indicate that in 2018, small units were mainly engaged in the following activities: “Wholesale and retail trade; repair of motor vehicles and motorcycles” (35%), “Transportation and storage” (17%), “Manufacturing” (13%), “Construction” (10%) and “Accommodation and food service activities” (9%).

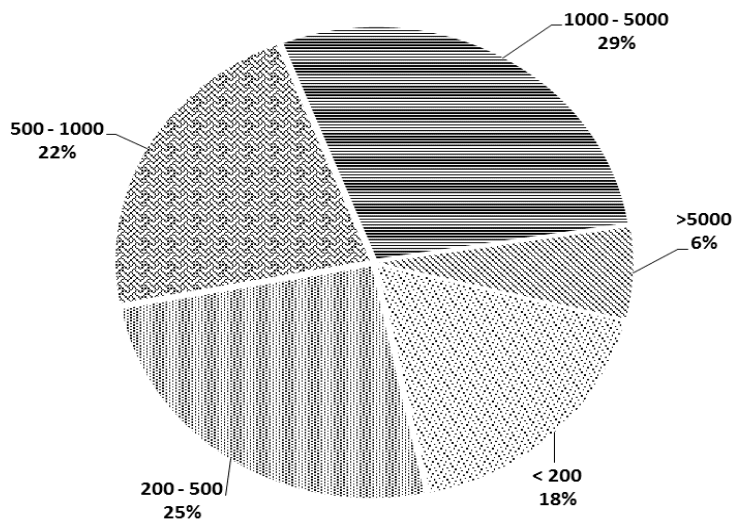
Figure 1: Distribution of small units by industry group



3.2 Size

Out of the 138,553 units covered in Phase I, around 56,707 or 41% were run by self employed persons without any assistance; 71,525 or 52% were operated by two to five persons and the remaining 10,321 or 7% engaged six to nine persons.

Figure 2: Distribution of establishments by gross output range (Rs 000)



Approximately 18% of the small units operating in 2018 generated an annual gross output of less than or equal to Rs 200,000; 25% produced between Rs 200,000 and Rs 500,000; 22% between Rs 500,000 and Rs 1 million; 29% between Rs 1 million and Rs 5 million and the remaining 6% generated over Rs 5 million.

4. Employment

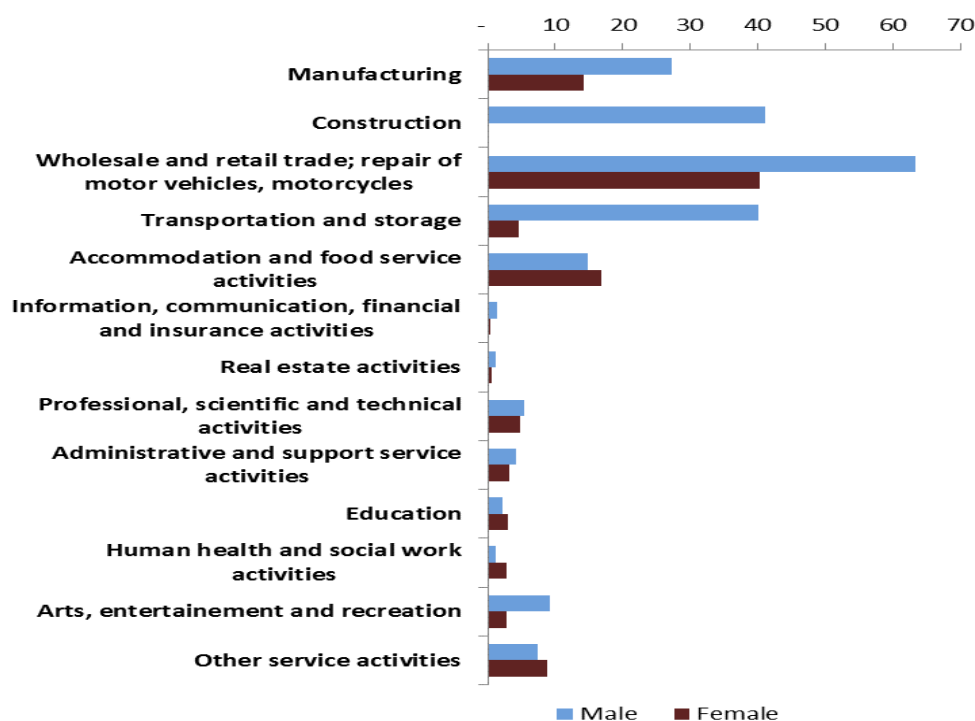
The total number of persons engaged in the small production units is estimated at 322,027. Some 286,395 or 89% were full-time workers and 35,632 or 11% were part time workers (part timers were those working less than half of the usual working hours of the establishment where they were engaged). One out of three part time workers were engaged in “Wholesale and retail trade; repair of motor vehicles and motorcycles”, 16% were in “Transportation and storage”, in “Accommodation and food service activities” and “Manufacturing” each employed 13% of the part timers.

4.1 Employment by sex

Male workers estimated at 219,180 constituted almost 68% of the total workforce of the small units and female workers estimated at 102,847, the remaining 32%.

Male workers were mostly engaged in “Wholesale and retail trade; repair of motor vehicles and motorcycles” (29%), “Construction” (19%), “Transportation and storage” (18%) and “Manufacturing” (12%). Among female workers, 39% were in “Wholesale and retail trade; repair of motor vehicles and motorcycles”, 16% in “Accommodation and food service activities” and 14% in “Manufacturing”.

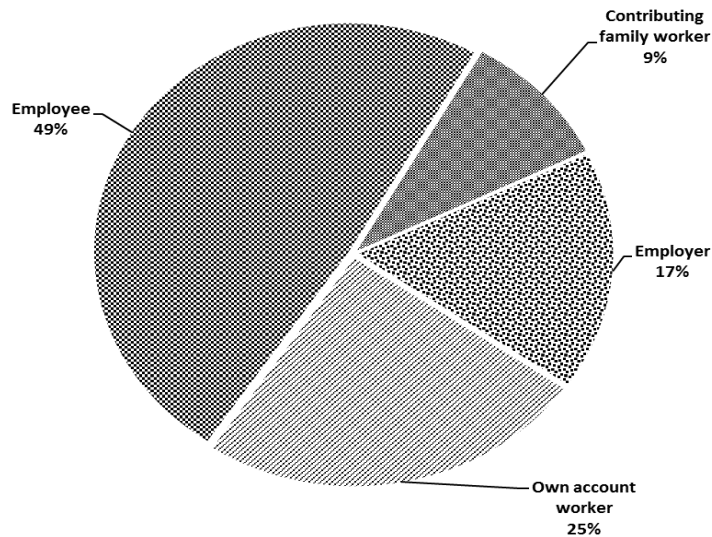
Figure 3: Employment by industry group and sex (in thousands)



It is noted that the proportion of female workers was higher than that of male workers in “Accommodation and food service activities”, “Education” (mainly pre-primary education), “Human health and social work activities” and “Other service activities”. In all the other industry groups, the majority of workers were male.

4.2 Employment status

Figure 4: Distribution of workers by employment status



Out of 322,027 persons engaged in the small units, 17% were employers with paid employees, and 25% were own account workers who either worked on their own or with the help of contributing (unpaid) family members. Paid employees represented 49% and contributing family workers 9%.

5. Production

5.1 Gross output

The 2018 CEA results indicate that the gross output or the total value of goods and services produced by the small units amounted to Rs 183,787 million.

5.2 Intermediate consumption

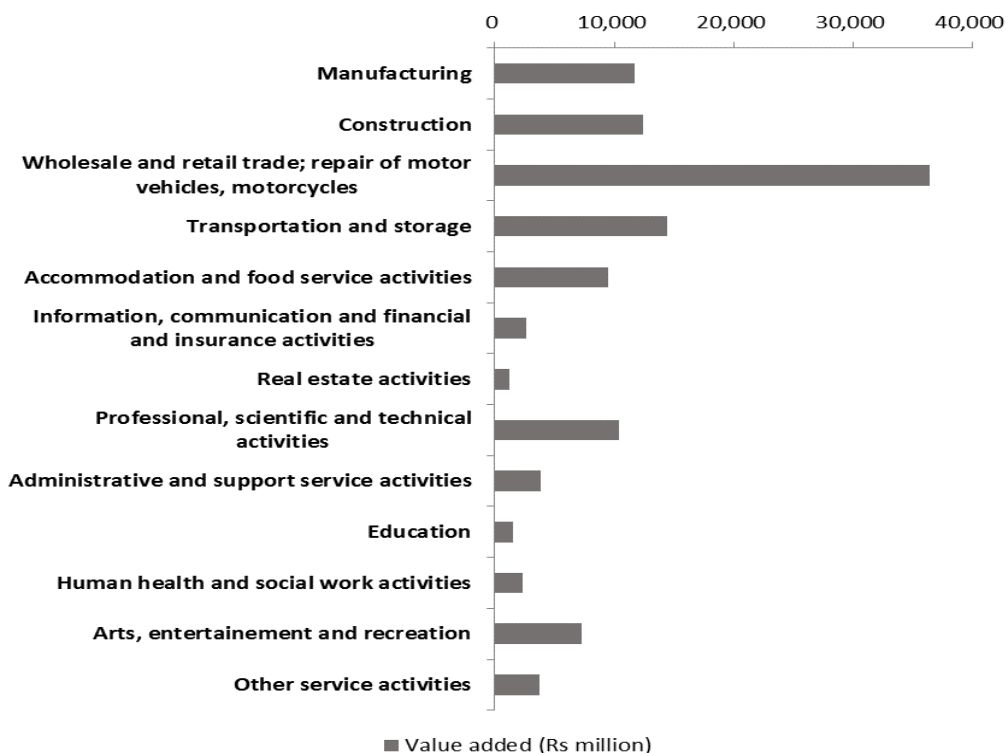
The value of goods and services used in the production process or the intermediate consumption amounted to Rs 66,100 million, representing around 36% of the gross output.

5.3 Value added

Value added works out to Rs 117,687 million, representing 64% of gross output.

Activities that contributed most to the total value added generated by the small units were: “Wholesale and retail trade; repair of motor vehicles and motorcycles” - Rs 36,428 million or 31%; “Transportation and storage”- Rs 14,443 million or 12%; “Construction” - Rs 12,438 million or 10% and “Manufacturing” Rs 11,676 million or 10% of the total.

Figure 5: Value added by industry group



5.4 Compensation of employees

Compensation of employees which includes wages and salaries, payments in kind as well as employers’ contributions to pension and insurance schemes is estimated at Rs 31,742 million. Around Rs 8,125 million or 26% of this amount was paid to persons working in “Wholesale and retail trade; repair of motor vehicles and motorcycles”, Rs 5,735 million or 18% to employees in “Construction”, Rs 4,115 million or 13% to persons working in “Professional, scientific and technical activities” Rs 2,982 million or 9% to persons engaged in “Manufacturing.” and Rs 2,956 million or 9% to those in “Transportation and storage”.

5.5 Investment

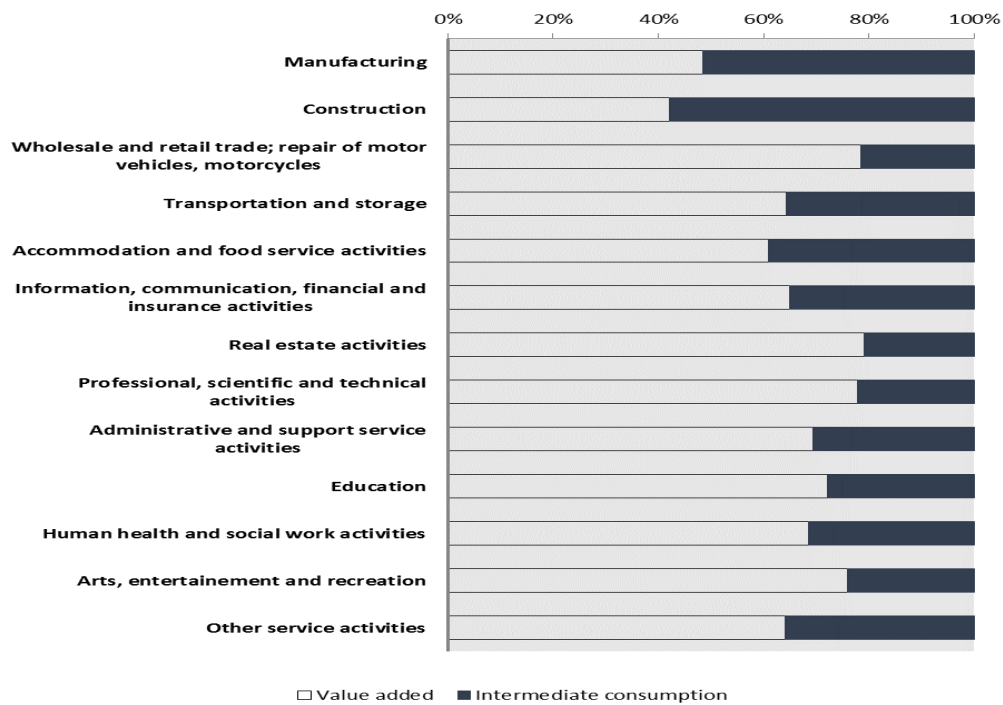
In 2018, the small units invested a total of Rs 2,178 million, of which Rs 619 million (29%) were on buildings, Rs 834 million (38%) on transport equipment, Rs 595 million (27%) on other machinery and equipment including IT equipment, and Rs 130 million (6%) on furniture.

6. Production structure

The production structure of activities covered by the CEA can be illustrated as follows: To produce Rs 100 worth of goods or services, Rs 36 worth of goods and services (intermediate consumption) were consumed in the process. Of the resulting Rs 64 generated as value added, Rs 17 were paid out to employees.

Intermediate consumption was highest in “Construction” and lowest in “Real estate activities”. Thus, to produce an output of Rs 100, Rs 58 worth of goods and services were consumed in the process in “Construction” compared to Rs 21 in “Real estate activities”.

Figure 6: Distribution of gross output by industry group



7. Operational ratios

The employment size of the units was highest in “Professional, scientific and technical activities” and “Administrative and support service activities” with an average each of 3.2 persons engaged per unit compared to 2.3 for all sectors covered.

“Financial and insurance activities” had the highest annual gross output per unit, Rs 8.0 million compared to Rs 1.3 million for all sectors combined. Its annual value added per unit was also highest, Rs 5.8 million while the overall average worked out to Rs 0.9 million.

8. Caution

The objective of the CEA is to collect information from productive units with a view to obtain updated data on the structure of the economy. Distinction should therefore be made between the estimates published in this paper and other official estimates such as employment and national accounts aggregates which are regularly published by this office through relevant issues of economic and social indicators. As already mentioned, estimates given in this publication relate to small establishments only and do not cover all sectors of the economy while estimates of employment include secondary jobs as well.

The data in this publication are still provisional. Evaluation of the data and integration with the results of Phase II of the CEA and data available from other sources will be carried out to have a better picture of the economy, as well as the contribution of the small establishments to the economy. The results of the evaluation and integration exercise will be published by end of 2020.

9. Note on tables

Small discrepancies in the tables total are due to the calculation procedures in blowing the sample data to population estimates.

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Concepts and Definitions

1. The concepts and definitions follow the recommendations of the 2008 System of National Accounts (SNA2008).
2. An **establishment** is defined as a production unit engaged in one kind, or predominantly one kind of economic activity at a fixed physical location.
3. An **itinerant unit** refers to a mobile production unit, which does not operate at a fixed location. Examples are hawkers and sellers along the road within a makeshift location, taxi operators and units involved in construction activities.
4. A **production unit** is either an establishment or an itinerant unit.
5. **'Small'** units are those engaging less than 10 persons, including working proprietors.
6. **Persons engaged** in a production unit refer to the total number of persons who work in or for the unit. It includes working proprietors, employees and contributing (unpaid) family workers.
7. An **employee** is a person who works in a paid job and receives wages/salary in cash or in kind.
8. An **employer** is a person who works in his/ her own production unit and engages one or more persons to work for him/her as employees.
9. An **own account worker** is a person who works in his/her own production unit alone or with the help of unpaid family members and does not hire any employees.
10. A **contributing family worker** is a family member of the owner of the unit, who is actively engaged in the business, without any remuneration.
11. **Part-time** workers are those persons who work less than half of the usual working hours of the unit.
12. **Gross output** is equal to the value of goods and/or services produced.
13. **Intermediate consumption** is equal to the value of goods and services used up in the production process.
14. **Value added** is equal to the gross output less the value of intermediate consumption.
15. **Compensation of employees** comprises payments of wages and salaries by producers to their employees, payments in kind and contributions to pension funds, casualty insurance and similar schemes.
16. **Gross operating surplus** is the excess of value added over compensation of employees.

Methodology

Scope and coverage

1. The first phase of the Census of Economic Activities (CEA) 2018 aimed at covering small production units (i.e those engaging less than 10 persons engaged) in all types of economic activities except:

- (i) Agricultural activities,
- (ii) Activities of household employees (maids, gardeners, etc.) and
- (iii) Illegal activities (prostitution, drug trafficking, etc.)

Unit of enquiry

2. The unit of enquiry is a production unit consisting of either an establishment or an itinerant unit as defined in Annex 1.

Sampling frame

3. The sampling frame consisted of a list of production units obtained from the Statistical Business Register (SBR) database of the Central Business Register unit of Statistics Mauritius. The register is based on information from administrative sources such as local authorities, CBRD, Mauritius Revenue Authority, taxi operators registered at the National Transport Authority, professionals from various professional associations, persons engaged in economic activities at home with or without license (identified from the 2011 Population Census), etc.

4. Sampling design

The economic units were stratified (grouped) according to type of economic activities based on the National Standard Industrial Classification (NSIC) of Economic Activities, an adapted version of the United Nations International Standard Industrial Classification of Economic Activities, Revision 4.

5. The sample comprised 3,810 units (3,360 for the Island of Mauritius and 450 for the Island of Rodrigues) which were allocated to the different strata according to Neymann Allocation or optimum allocation at fixed cost. Within the strata, selection of units was effected by Systematic Random Sampling to ensure representativeness.

6. To capture seasonal features in production activities, the 3,360 units that were selected for the Island of Mauritius were spread evenly over the 12 months of the year and 450 units for Rodrigues over the four quarters, while ensuring representativeness.

Data collection

7. Given that small units do not usually keep proper records of their transactions, data collection was carried out by direct interviews for all sectors except for professionals (which was carried out during office hours by staff of CEA unit). Each month, four Supervisors and 20 Interviewers were responsible for the data collection in the Island of Mauritius. In Rodrigues, the data collection was carried out during the second month of each quarter by eight Interviewers working under the responsibility of two Supervisors.

8. The data collection was preceded by an identification phase, during which each interviewer had to locate the selected production units. That phase also helped to identify units that had moved, changed activities, been dormant or ceased operation.

9. Once the selected units have been successfully identified, the respondents were requested to keep daily/weekly records of their transactions in diaries provided to them. The units were visited regularly by interviewers to ensure that records are being properly kept and to answer to any queries. The completed diaries were collected at the end of the survey month, and the data from the diaries transcribed to the relevant census questionnaires by the interviewer.

10. The whole exercise was coordinated and supervised by one Chief Supervisor, supported by one Senior Supervisor.

11. For the professionals, data collection was carried out in February 2019 during office hours by staff of Statistics Mauritius. The selected units were requested to provide their yearly transactions for 2018.

Data processing

12. The whole data processing exercise (editing and coding of completed questionnaires, data entry and validation in the CSPRO software and tabulation in STATA) was carried out by staff of Statistics Mauritius.

Reference period

13. The reference period for the collection of information was one month. The monthly data were consolidated and weighted to obtain the population estimates for the calendar year 2018.

Legal authority and confidentiality

14. The CEA was conducted under the authority of the Statistics Act as subsequently amended in 2011 and 2017 and in conformity with the Data Protection Act. The Statistics Act provides for an obligation on selected respondents to furnish to the Director of Statistics such information as requested in the approved questionnaire and at the same time guarantees the confidentiality of all information provided.

Concepts, definitions and classifications

15. The concepts and definitions follow the recommendations of the 2008 System of National Accounts (SNA2008).

16. Activities were classified according to NSIC (National Standard Industrial Classification of Economic Activities), an adapted version of ISIC (International Standard Industrial Classification of Economic Activities) Rev. 4 of 2007. Products were classified according to CPC (Central Product Classification) Ver. 2.1 of 2015.

Table 1 - Units, employment and output of small production units by industry group, CEA 2018, Republic of Mauritius

Industry group	Production units		Persons engaged		Gross output		Value added	
	Number	%	Number	%	Amount (Rs mn)	%	Amount (Rs mn)	%
Total	138,553	100	322,027	100	183,787	100	117,687	100
Manufacturing	18,187	13.1	41,341	12.8	24,077	13.1	11,676	9.9
Construction	13,519	9.8	41,342	12.8	29,561	16.1	12,438	10.6
Wholesale and retail trade; repair of motor vehicles and motorcycles	48,048	34.7	103,568	32.2	46,368	25.2	36,428	31.0
Transportation and storage	22,981	16.6	44,624	13.9	22,442	12.2	14,443	12.3
Accommodation and food service activities	12,101	8.7	31,573	9.8	15,624	8.5	9,534	8.1
Information and communication	645	0.5	1,814	0.6	2,122	1.2	1,212	1.0
Financial and insurance activities	246	0.2	689	0.2	1,956	1.1	1,439	1.2
Real estate activities	900	0.6	1,745	0.5	1,595	0.9	1,262	1.1
Professional, scientific and technical activities	3,243	2.3	10,359	3.2	13,379	7.3	10,407	8.8
Administrative and support service activities	2,344	1.7	7,465	2.3	5,607	3.1	3,891	3.3
Education	1,889	1.4	5,238	1.6	2,130	1.2	1,538	1.3
Human health and social work activities	1,966	1.4	3,962	1.2	3,414	1.9	2,338	2.0
Arts, entertainment and recreation	4,241	3.1	12,132	3.8	9,613	5.2	7,306	6.2
Other service activities	8,243	5.9	16,175	5.0	5,899	3.2	3,775	3.2

Table 2 - Number of small production units by employment size, CEA 2018, Republic of Mauritius

Industry group	Employment size									Total
	1	2	3	4	5	6	7	8	9	
Total	56,707	41,051	15,742	8,099	6,633	4,193	2,528	1,752	1,848	138,553
Manufacturing	8,651	4,477	1,888	1,095	801	322	295	323	335	18,187
Construction	3,980	3,056	1,955	1,375	1,188	894	383	445	243	13,519
Wholesale and retail trade; repair of motor vehicles, motorcycles	22,064	13,944	4,775	2,677	2,027	1,378	390	309	484	48,048
Transportation and storage	8,212	10,542	2,011	660	670	351	238	-	297	22,981
Accommodation and food service activities	3,780	3,775	2,093	760	615	442	244	206	186	12,101
Information and communication	181	192	109	43	40	35	35	-	10	645
Financial and insurance activities	92	30	33	27	14	41	4	4	1	246
Real estate activities	352	259	255	34	-	-	-	-	-	900
Professional, scientific and technical activities	1,233	321	245	445	299	261	224	162	53	3,243
Administrative and support service activities	585	516	410	143	286	144	100	62	98	2,344
Education	663	493	270	106	100	104	62	38	53	1,889
Human health and social work activities	1,036	410	220	38	135	38	58	30	1	1,966
Arts, entertainment and recreation	1,205	1,243	714	254	315	183	210	30	87	4,241
Other service activities	4,673	1,793	764	442	143	-	285	143	-	8,243

Table 3 - Full time and part time employment in small production units, CEA 2018, Republic of Mauritius

Industry group	Full time			Part time			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	196,002	90,393	286,395	23,178	12,454	35,632	219,180	102,847	322,027
Manufacturing	24,413	12,406	36,819	2,753	1,769	4,522	27,166	14,175	41,341
Construction	38,965	215	39,180	2,162	-	2,162	41,127	215	41,342
Wholesale and retail trade; repair of motor vehicles, motorcycles	56,376	35,695	92,071	6,961	4,536	11,497	63,337	40,231	103,568
Transportation and storage	34,922	3,984	38,906	5,192	526	5,718	40,114	4,510	44,624
Accommodation and food service activities	12,719	14,067	26,786	2,033	2,754	4,787	14,752	16,821	31,573
Information and communication	1,371	356	1,727	44	43	87	1,415	399	1,814
Financial and insurance activities	309	362	671	6	12	18	315	374	689
Real estate activities	909	448	1,357	236	152	388	1,145	600	1,745
Professional, scientific and technical activities	5,360	4,733	10,093	137	129	266	5,497	4,862	10,359
Administrative and support service activities	3,525	3,198	6,723	661	81	742	4,186	3,279	7,465
Education	1,793	2,592	4,385	423	430	853	2,216	3,022	5,238
Human health and social work activities	1,064	2,585	3,649	100	213	313	1,164	2,798	3,962
Arts, entertainment and recreation	7,820	1,916	9,736	1,490	906	2,396	9,310	2,822	12,132
Other service activities	6,456	7,836	14,292	980	903	1,883	7,436	8,739	16,175

Table 4 - Number of persons engaged in small production units by employment status and sex, CEA 2018, Republic of Mauritius

Industry group	Employer			Own account worker			Employee			Contributing Family Worker			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	45,064	9,217	54,281	55,414	24,252	79,666	104,519	52,615	157,134	14,183	16,763	30,946	219,180	102,847	322,027
Manufacturing	6,002	1,248	7,250	6,674	4,283	10,957	13,000	6,458	19,458	1,490	2,186	3,676	27,166	14,175	41,341
Construction	9,131	45	9,176	4,629	22	4,651	26,785	148	26,933	582	-	582	41,127	215	41,342
Wholesale and retail trade; repair of motor vehicles, motorcycles	11,718	2,800	14,518	20,318	12,548	32,866	24,267	17,015	41,282	7,034	7,868	14,902	63,337	40,231	103,568
Transportation and storage	8,917	540	9,457	12,792	419	13,211	17,153	2,339	19,492	1,252	1,212	2,464	40,114	4,510	44,624
Accommodation and food service activities	3,007	1,519	4,526	3,845	3,692	7,537	5,410	8,254	13,664	2,490	3,356	5,846	14,752	16,821	31,573
Information and communication	299	34	333	212	11	223	904	314	1,218	-	40	40	1,415	399	1,814
Financial and insurance activities	33	15	48	16	11	27	263	339	602	3	9	12	315	374	689
Real estate activities	507	59	566	327	25	352	286	457	743	25	59	84	1,145	600	1,745
Professional, scientific and technical activities	478	80	558	337	139	476	4,646	4,555	9,201	36	88	124	5,497	4,862	10,359
Administrative and support service activities	1,048	348	1,396	463	119	582	2,534	2,679	5,213	141	133	274	4,186	3,279	7,465
Education	400	466	866	770	196	966	704	2,277	2,981	342	83	425	2,216	3,022	5,238
Human health and social work activities	225	337	562	475	161	636	464	2,281	2,745	-	19	19	1,164	2,798	3,962
Arts, entertainment and recreation	2,140	261	2,401	1,391	226	1,617	5,496	1,945	7,441	283	390	673	9,310	2,822	12,132
Other service activities	1,159	1,465	2,624	3,165	2,400	5,565	2,607	3,554	6,161	505	1,320	1,825	7,436	8,739	16,175

Table 5 - Production account of small production units, CEA 2018, Republic of Mauritius

Industry group	No of production units	Gross output at basic prices (Rs mn)	Intermediate Consumption (Rs mn)	Value added at basic prices (Rs mn)	Compensation of employees (Rs mn)	Gross Operating Surplus (Rs mn)
Total	138,553	183,787	66,100	117,687	31,742	85,945
Manufacturing	18,187	24,077	12,401	11,676	2,982	8,694
Construction	13,519	29,561	17,123	12,438	5,735	6,703
Wholesale and retail trade; repair of motor vehicles, motorcycles	48,048	46,368	9,940	36,428	8,125	28,303
Transportation and storage	22,981	22,442	7,999	14,443	2,956	11,487
Accommodation and food service activities	12,101	15,624	6,090	9,534	2,087	7,447
Information and communication	645	2,122	910	1,212	413	799
Financial and insurance activities	246	1,956	517	1,439	346	1,093
Real estate activities	900	1,595	333	1,262	340	922
Professional, scientific and technical activities	3,243	13,379	2,972	10,407	4,115	6,292
Administrative and support service activities	2,344	5,607	1,716	3,891	1,147	2,744
Education	1,889	2,130	592	1,538	540	998
Human health and social work activities	1,966	3,414	1,076	2,338	523	1,815
Arts, entertainment and recreation	4,241	9,613	2,307	7,306	1,591	5,715
Other service activities	8,243	5,899	2,124	3,775	842	2,933

Table 6 - Operational ratios of small production units, CEA 2018, Republic of Mauritius

Industry group	Number of persons engaged per unit	Gross output at basic prices per unit (Rs 000)	Value added at basic prices per unit (Rs 000)	Intermediate Consumption as a % of Gross Output	Value added as a % of Gross Output
Total	2.3	1,326.5	849.4	36.0	64.0
Manufacturing	2.3	1,323.9	642.0	51.5	48.5
Construction	3.1	2,186.6	920.0	57.9	42.1
Wholesale and retail trade; repair of motor vehicles, motorcycles	2.2	965.0	758.2	21.4	78.6
Transportation and storage	1.9	976.5	628.5	35.6	64.4
Accommodation and food service activities	2.6	1,291.1	787.9	39.0	61.0
Information and communication	2.8	3,289.9	1,879.1	42.9	57.1
Financial and insurance activities	2.8	7,951.2	5,849.6	26.4	73.6
Real estate activities	1.9	1,772.2	1,402.2	20.9	79.1
Professional, scientific and technical activities	3.2	4,125.5	3,209.1	22.2	77.8
Administrative and support service activities	3.2	2,392.1	1,660.0	30.6	69.4
Education	2.8	1,127.6	814.2	27.8	72.2
Human health and social work activities	2.0	1,736.5	1,189.2	31.5	68.5
Arts, entertainment and recreation	2.9	2,266.7	1,722.7	24.0	76.0
Other service activities	2.0	715.6	458.0	36.0	64.0