

Overview of the Machinery and Equipment Survey

**Regional workshop of the ICP 2021 cycle
for Latin America and the Caribbean**



'Machinery and Equipment' Survey

- ICP PPPs require **collecting prices and compiling expenditures** for the whole range of final goods and services comprising GDP.
- The ICP classification provides a means of **systematically identifying the components of GDP by breaking down its expenditures** into major aggregates, which are then subdivided into categories, groups, classes, and basic headings.
- **ICP price surveys** are designed to suit the characteristics of the ICP classification aggregate under consideration.
 - However, some aggregates require 'special data' collection forms due to the difficulty in collecting prices for them, e.g., government, gross capital formation, etc.

'Machinery and Equipment' and the ICP Classification

Item Code	Classification Name	Classification Level
1000000	GROSS DOMESTIC PRODUCT	GDP
...
1500000	GROSS CAPITAL FORMATION	Main Aggregate
1501000	GROSS FIXED CAPITAL FORMATION	Category
1501100	MACHINERY AND EQUIPMENT	Group
1501110	<u>Metal products and equipment</u>	<u>Class</u>
1501111	Fabricated metal products, except machinery and equipment	Basic Heading
1501112	Electrical and optical equipment	Basic Heading
1501115	General purpose machinery	Basic Heading
1501116	Special purpose machinery	Basic Heading
1501120	<u>Transport equipment</u>	<u>Class</u>
1501121	Road transport equipment	Basic Heading
1501122	Other transport equipment	Basic Heading
...
1501300	OTHER PRODUCTS	Group
1501310	<u>Other products</u>	<u>Class</u>
1501311	Other products	Basic Heading

Prices collected

Prices collected

Reference PPP used

Reference PPP used

'Machinery and Equipment' weight in GDP

- The importance of the 'Machinery and Equipment' aggregate should not be underestimated as reflected by its **high expenditure share in countries' nominal GDP figures.**



176 participating economies in ICP 2017

	MEQ expenditures (% of nominal GDP)
Min	0.7 %
Mean	10.9 %
Median	9.9 %
Max	31.1 %

Source: own calculations based on global ICP 2017 results.

- Given the 'Machinery and Equipment' importance in GDP, this survey should be carefully planned and carried out.

'Machinery and Equipment' Requirements

- The **ICP 'Machinery and Equipment' survey** has its own **Data Collection Form**. It is important to note that MEQ items tend to have very detailed technical specifications and may require consultation with experts.
- The **MEQ item list** generally includes one item identified by brand and model and another generic item with the exact same characteristics, but not identified by brand and model.
- For each item, the **Data Collection Form** asks countries to report the (unit) cost of transporting the asset, any (unit) charges for installation, any (unit) discounts and any non-deductible product taxes paid by the purchaser. The **total unit price** (net of deductible taxes and discounts) will then be generated automatically by the form, assuming the relevant cells are filled.

'Machinery and Equipment' Data Collection Form [1]

International Comparison Program

MACHINERY AND EQUIPMENT

Survey Form

Operational Material

General Instructions

The 202 item tabs for the machinery and equipment basic headings provide Structured Product Descriptions (SPDs) of each item whose various parameters are to be reported, together with the section for your data collection. They work as printable survey forms so that data collectors can utilize them on the field, as well as electronically.

- (1) Provide Country Name, Country Code, Reported Currency, and Reference Year in the tab "3. Country Data"
- (2) Read carefully the SPDs to identify the item in request.
- (3) Read carefully the notes below in this tab for recording and collection of data.
- (4) Enter Currency, Make and model, Technical parameters, Unit price, Order quantity, Transport and delivery costs, Installation costs and Discounts data into the data entry section in each item tab.
- (5) Data will be automatically stored in the tab "5. Database"

This file is designed for a single observation for each observation. Please create copies to collect multiple observations. When the data are reported to Regional Coordinating Agency, national average prices need to be reported. Please refer to the ICP Operational Guide for details.

Country Name	
ISO Country Code (three-letter)	
Currency	
Reference Year	

'Machinery and Equipment' Data Collection Form [2]

Item Code	15.01.11.2.01.260		DATA ENTRY
Item Name	Diesel generating set for continuous i.e. prime use		
Make (and nationality)	Proposed		Observed
	Caterpillar (USA)		
Model	C9 (DE300E0)		Observed
	Metric	Imperial	
Continuous i.e. prime use:	275 kva	275 kva	
Three phase:	yes	yes	
Electric system:	24 V DC	24 V DC	
Frequency:	50 Hz	50 Hz	
Speed:	1500 rpm	1500 rpm	
Generator make: Olympian model no.:	LC 5114 J	LC 5114 J	
Capacity of engine:	8.8 l	537 cu. in	
Number of cylinders:	6	6	
With baseframe incorporating fuel tank:	yes	yes	
Fuel type:	Diesell	Diesell	
Width:	1030 mm	41 in	
Height:	1754 mm	69 in	
Length:	2662 mm	105 in	
Weight:	3429 kg	7560 lb	
Company website:	www.cat.com	www.cat.com	
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	

'Machinery and Equipment' Data Collection Form [3]

Item Code	15.01.11.2.01.250		DATA ENTRY
Item Name	Diesel generating set for continuous i.e. prime use		
Make (and nationality) Model	Proposed		Observed
	Unspecified		
	Unspecified		
	Metric	Imperial	Observed
Continuous i.e. prime use:	275 kva	275 kva	
Three phase:	yes	yes	
Electric system:	24 V DC	24 V DC	
Frequency:	50 Hz	50 Hz	
Speed:	1500 rpm	1500 rpm	
Generator make: Olympian model no.:	LC 5114 J	LC 5114 J	
Capacity of engine:	8.8 l	537 cu. in	
Number of cylinders:	6	6	
With baseframe incorporating fuel tank:	yes	yes	
Fuel type:	Diesel	Diesel	
Width:	1030 mm	41 in	
Height:	1754 mm	69 in	
Length:	2662 mm	105 in	
Weight:	3429 kg	7560 lb	
Company website:			
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	

'Machinery and Equipment' Data Collection Form [4]

Prices	Observed
Unit base price	
Order quantity	
Delivery cost/unit	
Installation cost per unit	
Other unit costs (please specify here)	
Discount per unit (%)	
Non-deductible taxes	
Total unit price net of deductible taxes and discount	0
Notes	Comments
No change (except from minor modifications of the specs). We search for the C9 (DE330E0) "Emission strategy: Non-certified emissions". If you cannot price this model, but find the C9 (DE330E3) "Emissions strategy: EU Stage IIIa", please price this as equivalent, noting the differences in the specs.	
Importance	Importance
Is the item priced important (1) or less important (0)?	
Date of collection	Date of collection
Date of collection (mm/dd/yyyy)	



Thank you! | ¡Gracias!

Questions or comments?