

Producer Price Index

Methods and sources manual

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Chapter 1: Introduction to the South African Producer Price Index (PPI)

1.1 Background on price indices

Four of the principal price indices in the system of economic statistics—the PPI, the Consumer Price Index (CPI), and the Export and Import price indices—are well known and closely watched indicators of macroeconomic performance. They are direct indicators of the purchasing power of money in various types of transactions and other flows involving goods and services. As such, they are also used to deflate nominal measures of goods and services produced, consumed, and traded to provide measures of volumes.

The IMF's PPI manual (2004) identifies 10 steps to design, construct, disseminate, and maintain a producer price index. These are:

- 1. Determining the objectives, scope, and conceptual basis of the index;
- 2. Deciding on the index coverage and classification structure;
- 3. Deriving the weighting pattern;
- 4. Designing the sample;
- 5. Collecting and editing the prices;
- 6. Adjusting for changes in quality;
- 7. Calculating the index;
- 8. Disseminating the indices;
- 9. Maintaining samples of businesses and product specifications; and
- 10. Reviewing and reweighting the index.

This manual will cover steps one to five, step seven; and steps nine to ten.

1.2 Definition of the PPI

The PPI indicates changes in producer prices of locally produced commodities including exports. The PPI is defined as "A measure of the change in the prices of goods either as they leave their place of production or as they enter the production process" (OECD, 2006).

1.3 Uses of the PPI

PPIs are used for a variety of different purposes. There has always been substantial interest in, and demand for, price indices from the general public, private sector as well as government and international agencies. The PPI may be used for

- ⇒ A short-term indicator of inflationary trends The monthly PPI with detailed product and industry data allows short-term price inflation to be monitored through different stages of production.
- ⇒ Contract price adjustments The purpose of using the PPI for indexing long-term contracts to take the inflationary risk out of the contract.
- ⇒ A deflator in the compilation of national accounts a fundamental use of the PPI is as a deflator in the national accounts. Therefore, the concepts underlying the PPI are often conditioned by those underlying the national accounts.

Chapter 2: Types of producer price indices

2.1 Overview

The aggregation of the PPI may take various forms; the South African PPI uses the stages of production approach. With this concept, each commodity is allocated to the stage in which it is used.

Alternatives are the stage of processing, net output price indices per industry, PPI for the country or region, etc. The selection of the aggregation method depends on the intended uses of the PPI.

2.1.1 Stages-of-production

For this approach each commodity is allocated to the stage in which it is used. A product is included in each stage to which it contributes, and not assigned solely to one stage (OECD, 2006). The classification of products to the different stages is usually achieved by reference to input-output (I/O) tables in order to avoid multiple counting of the stages that are not aggregated.

This type of PPI has two types of indices. Output indices measure the change in price of products sold as output for final consumption by domestic producers, while input indices concern intermediate products used as inputs in the production process.

Both PPI output and input indices show changes in prices before the addition of deductible taxes on products such as VAT. This is similar to an ex-factory price or the revenue actually received by a producer.

2.2 Aggregation of the South African PPI

When selecting an aggregation type, a number of questions are required to be taken into consideration. The OECD (Maitland-Smith, 2000: 3) sets the following list as a guideline to the selection of aggregation type:

- a) Will the PPIs be used for deflation of outputs (and inputs?), and/or as a measure of inflation?
- b) Assuming that a choice has to be made, are industry PPIs of higher priority than product PPIs or vice versa?
- c) Which industries and products should be covered? At what level of detail?
- d) Will separate indices be compiled for export and domestic market prices?
- e) Which prices are we trying to measure? Producer prices, wholesale prices?
- f) What will the geographical coverage be? National, regional?

g) Monthly or quarterly time series?

With the analysis of these guidelines, the level of aggregation most suited to the South African PPI is the stages-of-production approach. The decision rests on the fact that although the PPI is a key inflation indicator, it is also used for deflation of the national accounts. The approach of the PPI gives a value-chain perspective on the level of inputs and outputs, and eliminates double counting.

The tables published in the current PPI include industry (divided into input and output) and product information. Industry tables available are:

Table 1: Industry tables

Industry	Input	Output
Agriculture, forestry and fishing		Х
Mining		Х
Manufacturing	Х	X
Electricity and water		Х

Appendix A (page 26) gives the Input and Output 3-digit group CPC for each of the higher-level industries.

Chapter 3: Classification

3.1 Background

The PPI uses two classification systems, the Central Product Classification (CPC) and Standard Industrial Classification (SIC) systems. As the name suggests, the CPC is used to identify and aggregate products. The CPC is a classification based on the physical characteristics of goods or on the nature of the services rendered. Each type of good or service distinguished in the CPC is defined in such a way that it is normally produced by only one activity as defined in ISIC, the International Standard Industrial Classification of All Economic Activities - this classification is the international standard for the classification of productive economic activities. Its main purpose is to provide a standard set of economic activities so that entities can be classified according to the activity they carry out.

The CPC covers products that are an output of economic activities, including transportable goods, non-transportable goods and services (OECD, 2006).

It is a 5-digit classification system, consisting of:

- ⇒ Sections one digit code;
- ⇒ Divisions two-digit code;
- ⇒ Groups three-digit code;
- ⇒ Classes four-digit code;
- ⇒ Subclasses five-digit code

Each product grouping is then assigned an industry classification according to SIC, which classifies the different industries. Standard Industrial Classification version 5 (SIC v5) and Central Product Classification version 2 (CPC v2.1) are used in the PPI.

3.2 The structure of classification of the South African PPI

The structure of the PPI is made up of 1-digit, 2-digit, 3-digit, 4-digit, 5-digit and 9-digit classification levels (within CPC), where the 9-digit code is an indicator product or elementary index attached to a weight.

For example, the hierarchy of product description for the prices of the commonly referred to "motor vehicles" products is the following:

Table 2: Central Product Classification (CPC) hierarchy

Product hierarchy		Product description				
CPC Section	4	Metal products, machinery and equipment				
CPC Division	49	Transport equipment				
CPC Group	491	Motor vehicles, trailers and semi-trailers; parts and accessories thereof				
CPC Class	4911	Motor vehicles				
CPC Sub-class	49113	Motor cars and other motor vehicles principally designed for the transport of persons				
Indicator product (for sub-class 49113)	491130001	Passenger Vehicles				
Sampled product (for 491130001(1)		Volkswagen Polo 1.6 Trend-line				
indicator product 491130001)	491130001 (2)	Volkswagen Jetta 2.0 TSI Highline				

Indicator products:

In order to collect prices, CPC sub-classes need to be divided into meaningful groups, called indicator products and represent the elementary indices of the PPI. These are typical groupings of products on a lower level than the CPC sub-class. Indicator products are chosen in a manner that will ensure that they represent the majority of the output of the sub-class they represent. These groupings are sourced from industry associations or data from Statistics South Africa Stats SA industry surveys, such as the Manufacturing Large Sample Survey (LSS). According to the IMF PPI Manual (2004) some key concepts underlie the construction of elementary indices:

- ⇒ Elementary aggregates should be fairly homogeneous.
- ⇒ They should also consist of products that may be expected to have similar price movements, minimising a wide dispersion of price changes.
- ⇒ The elementary aggregates should be appropriate to serve as strata for sampling purposes for the data collection.

Sampled products:

Sampled products are the actual products that are priced in the PPI process. Each sampled product will be priced consistently over time to ensure comparability. Sampled products are chosen in a manner that will ensure that their price movements will reflect the price movements of the indicator product that they represent. The specific products are sourced from dominant role-players or data from Stats SA industry surveys.

Chapter 4: Weighting sources and derivation

4.1 Industry weights

"The value aggregate from the national accounts framework that aligns with the basic price received by the producer of goods and services is the value of production" (IMF, 2004). In other words, the value-added from the national accounts lays the basis of the industry weighting structure in the PPI.

Some industries and products will be of little importance in terms of their share of total production. For example, an industry that represents less than 0.1 per cent of production within the industrial or service sectors could be excluded from the sample. In such cases, the output for the industry that is excluded should be distributed across those that were selected, or it should be assigned to a closely related industry. It may also be possible to make meaningful combinations of smaller industries producing related products that meet the criteria for minimum sizes. A similar procedure would also be applied to products that are insignificant. In either case, the weight for the non-sampled component needs to be included somewhere in the weighting structure.

4.2 Product weights

The primary sources of weight information for the PPI are business- or establishment-based censuses, the national accounts, annual industry surveys, and business registers. The criteria for use is the level of detail available. In some instances additional data is required to supplement the primary source, in order to select indicator products.. These include administrative sources, association surveys, retail and wholesale surveys and customs data. The South African PPI makes use of the National Accounts, Large Sample Surveys (LSS), administrative sources as well as external association data.

Most recently, the PPI manufacturing product weights and basket were updated using the 2017 Large Sample Survey, published in 2019. These changes were implemented with effect from the January 2021 PPI release.

Table 3: Sources of weights at product level

Industry	Industry-level weights	Product-level weights
Agriculture, forestry and fishing	National Accounts 2017	Department of Agriculture Forestry
		and Fisheries (2018/19).
		Ocean (marine) fisheries and
		related services industry (2017).
		Statistics South Africa.
		Forestry: Report on Commercial
		Timber Resources and Primary
		Roundwood Processing in South
		Africa (2017/18). Department of
		Agriculture, Forestry and Fisheries.
Mining	National Accounts 2017	South African Mining Industry Annual
		Commodity Summary (2019)
		Department of Mineral Resources.
Manufacturing	National Accounts 2017	Large Sample Survey (2017).
		Statistics South Africa.
Electricity and water	National Accounts 2017	Water: Department of Water Affairs
		(2018/19).

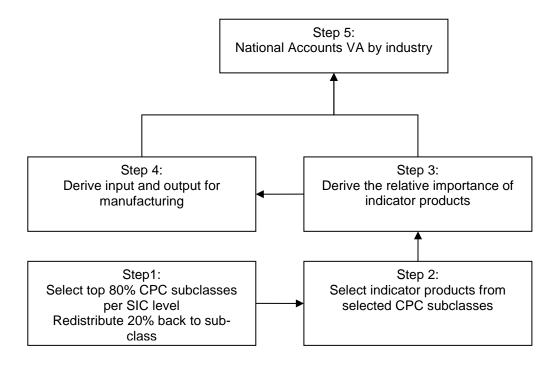
4.3 PPI weight selection

All higher level weights are based on the National Accounts Gross Value Added at a SIC 4-digit level obtained in the supply and use tables. These tables are also used to determine which categories of products belong to the input or output indices.

Within each SIC 4-digit industry, total sales values in a group are used for the selection of the relevant CPC 5-digit sub-class level. Only those falling into the top 80 cumulative percentage of the group are selected. This ensures that at least 80% of groups are covered in the basket of the PPI and insignificant groups are excluded from the PPI.

Indicator product selection is done on either industry product share data or LSS detailed 8-digit data.

Derivation of weights:



4.4 Review of the PPI weights

The PPI value-added weights are reviewed and updated on an annual basis. This implies that the index will be reweighted and chain-linked every year in the January statistical release. In addition to the update of the higher-level weighting, the product proportions within the PPI will be investigated (from external and official sources) during the year, so that appropriate changes may be made to the indicator product or subclass level.

Every three years, with the release of a new Manufacturing LSS, all the detailed product proportions as well as the value-added industry weights for the PPI are reviewed, and all weights are adjusted to reflect the most current economic conditions.

For Mining and Agriculture, forestry and fishing the detailed products as well as lower level proportions will be reviewed and updated on an annual basis¹.

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¹ Dependent on availability

Chapter 5: Basket of goods

5.1 Introduction

The basket is a list of specific goods, which forms the sample for price collection in the PPI.

The National Accounts value-added estimates as well as Stats SA industry surveys and external industry information guides the PPI on the selection of indicator products to be included in the basket.

5.2 Selection criteria for basket of goods

All industries with a high relative importance in the national accounts at 3- and 4-digit SIC group level are included in the PPI. Based on national accounts data, all goods are classified as either intermediate or final manufactured goods.

Furthermore, for the selection of the 5-digit sub-class level, sales values in relation to total sales in a group are used. For a 5-digit sub-classes to be included in the basket, it should fall into the top 80 cumulative percentage of its group. This ensures that at least 80% of groups are covered in the basket of the PPI and insignificant groups are excluded from the PPI.

Indicator product selection is done on either industry product share data or LSS detailed 8-digit data.

5.3 The number of products in the basket

The total number of indicator products in the basket is 278. Refer to Appendix B (page 29) for the complete basket of products in the PPI.

Chapter 6: Sampling

6.1 Introduction

There are two types of sampling in the PPI, sampling of businesses and sampling of sampled products per indicator product.

6.2 Selection of businesses (respondents)

Records from various LSS industry surveys as well as the Stats SA Business Sampling Frame (BSF) form the basis for the PPI sampling frame. Other frame sources include industry association information, where this data is cross-referenced with that of LSS industry surveys to sample the businesses with the highest turnover to represent the selected industries, and more specifically products. The top 80% of businesses within an industry that produce a certain product are selected.

6.3 Selection of a sampled product from the respondent

When selecting sampled products from a company, the price collector has to ensure that the selected ones are the volume sellers, in other words the products for which the highest volumes and/or turnover are obtained. In this process, item and transaction characteristics are important as they are both relevant to the price of a product.

The item characteristics include for example (Maitland-Smith, 2000: 9):

- ⇒ Type of product
- ⇒ Brand name or model number
- ⇒ Main price determining characteristics, size, weight, power, etc.

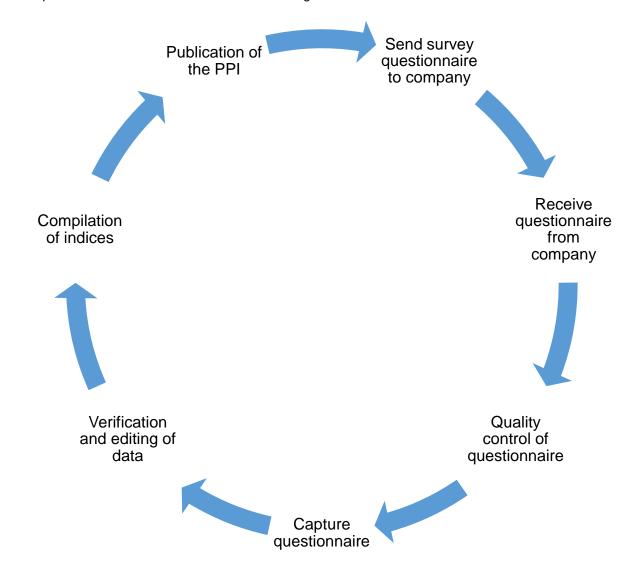
The transaction characteristics include for example (Maitland-Smith, 2000: 10):

- ⇒ Type of buyer: exporter, wholesaler, retailer, manufacturer, government
- ⇒ Type of contract: single/multiple deliveries, orders, one year, agreed volume
- ⇒ Unit of measure per unit: metre, kilogram etc.
- ⇒ Delivery basis: free on board, sale with/without delivery to customer,
- ⇒ Type of price: average, list, free on board, net of discount
- ⇒ Type of discount: seasonal, volume, cash, competitive, trade

Chapter 7: Data collection and processing (includes editing and data quality evaluation)

7.1 Introduction

The process flow of the PPI takes on the following form:



7.2 Collection period and frequency

When collecting prices for a particular period, there are two basic choices of collection period: point-in-time and period averages.

Point-in-time prices relate to the price of a product on a particular date in the month, whereas period prices are an estimate of the price across the month and so are average prices for the month. The pros and cons of each method are summarised in the table below (IMF, 2004: 121).

Table 4: Point-in-time and period prices

Method	Pros	Cons
Point-in-time	Consistency in month-to-month changes in price	 A transaction may not have taken place on the specified date. More susceptible to short-term external influences (for example, extreme weather conditions, labour stoppages) that could affect the price on the particular day of price collection. Miss short-term prices changes, between collection dates
Period prices	 Yields a smoother time series Less susceptible to timing of price increases 	 The index will be less timely when compared with point-in-time estimates, since the average cannot be calculated until the end of the period. Average prices should relate to a narrowly defined product of constant quality, rather than a broad commodity group.

The South African PPI uses mostly the point-in-time approach, and prices are collected on a monthly basis. The majority of prices are collected for the first seven days of the month (to ensure consistency in the final index, the price observation should compare like with like for each period). Period prices are used for electricity, agriculture and mining products,.

7.3 Type of prices collected

A PPI measures changes in the prices received by domestic producers for their outputs or the change in the prices paid by domestic producers for their intermediate inputs. These prices are commonly referred to as transaction prices and include all discounts or rebates given.

7.4 Processing and data validation

Once the questionnaires are received from the companies, the questionnaires are quality controlled to ensure that all fields were completed, and that each questionnaire was completed accurately. Thereafter, the questionnaire is captured and the data validated and edited if required.

Verification includes logical, range, variance and consistency checks (OECD, 2006).

- ⇒ Validation edits to check the validity of basic identification of classificatory items in unit data.
- ⇒ Logical edits ensure that two or more data items do not have contradictory values.

- ⇒ Consistency edits check to ensure that precise and correct arithmetic relationships exist between two or more data items.
- ⇒ Range edits identify whether or not a data item value falls inside a determined acceptable range.
- ⇒ Variance edits involve looking for suspiciously high variances at the output edit stage.

Chapter 8: Imputations in the PPI

The PPI and CPI follow the same methods when imputing for missing prices. There are three methods that the IMF PPI and ILO CPI manual prescribe and give guidelines on, they are:

- ⇒ Omit the item for which the price is missing so that a matched sample is maintained (like is compared with like) even though the sample is depleted
- ⇒ Carry forward the last observed price
- \Rightarrow Imputation:
 - Impute the missing price by the average price change of the prices that are available in the elementary aggregate.
 - Impute the missing price by the price change for a particular comparable product from a similar establishment.

Stats SA uses all three methods of imputation in the calculation of the PPI. The choice of method is determined by the level of aggregation of a particular index and the frequency of price collection for a particular product.

The matched sample approach is used when one observation in a sample for an elementary aggregate is temporarily unavailable. For example, if the PPI collects data for 10 types of shirts and one of those is temporality unavailable, the average price change is calculated on the remaining nine. In this way, the assumption is that the price would have moved in the same way as the average of the prices of the items that remain included in the elementary index. This type of imputation is applied at the lowest level of index calculation/aggregation, at the elementary index level.

The carry-forward approach is strictly applied to annual, bi-annual, quarterly and other infrequent surveys (not applied to monthly collected data). In the case of these periodic changes, it is legitimate to infer that the prices should remain constant until the next change. This type of imputation is applied at the lowest level of calculation/aggregation, at the elementary index level.

Imputation by average price change is only considered once there is no data available to calculate an average percentage change for a specific indicator product. The lack of data could be attributed to various causes, for example seasonal behaviour, shortage in the market, etc. If data for a specific indicator product is missing, it is imputed on a similar product or group of products. An alternative to average price change on elementary index level is to use price change for a particular comparable product or specific comparable product from (a) similar establishment(s).

Chapter 9: Index calculation

9.1 Overview

The calculation of price indices is usually conducted in two stages. First, price indices are calculated for the elementary aggregates, and then these elementary price indices are averaged to obtain higher-level indices using the relative sales values of the elementary aggregates as weights.

9.2 Elementary indices

Elementary aggregates are constructed by grouping individual goods into relatively homogeneous products and transactions. They may be formed for products in various regions of the country or for the country as a whole, or for establishments. In other words, compilers of the PPI have to select representative products within an elementary aggregate and then collect a sample of each of the representative products, usually from a sample of different producers. The individual representative products for which prices are actually collected are described as the sampled products.

For elementary index compilation, the Jevons formula is used. A Jevons index is defined as the unweighted geometric mean of the price ratios (pt/pt-1), which is identical to the ratio of the unweighted geometric mean of (matched) prices.

The formula is given as:

$$P_{J}^{0t} = \prod \left(\frac{p_{i}^{t}}{p_{i}^{0}}\right)^{1/n} = \frac{\prod \left(p_{i}^{t}\right)^{1/n}}{\prod \left(p_{i}^{0}\right)^{1/n}}$$

The chained monthly indices link together the month-to-month changes through successive multiplication. The Jevons formula is transitive as the chained monthly indices are identical to the corresponding direct indices which compare prices in each successive month directly with those of the reference month.

9.3 High-level indices

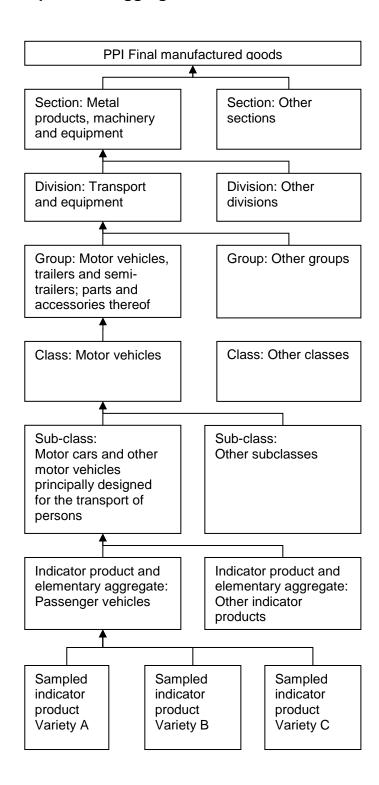
The second stage of calculating the PPI does not involve individual prices or quantities. Instead, a higher-level index is calculated as a Young index in which the elementary price indices are averaged using a set of predetermined weights. The formula can be written as follows:

$$I^{0:t} = \sum w_i^b I_i^{0:t}, \sum w_i^b = 1$$

where $I^{0:t}$ denotes the overall PPI, or any high-level index, from period 0 to t; W_i^b is the weight attached to each of the elementary price indices; and $I_i^{0:t}$ is the corresponding elementary price index. The elementary indices are identified by the subscript i, whereas the higher-level index carries no subscript. The weights are derived in period b, which in practice has to precede period 0, the price reference period.

Almost certainly, the most important aspect of index compilation is consistency. Consistency in aggregation means that if an index is calculated stepwise by aggregating lower-level indices to obtain indices at progressively higher levels of aggregation, the same overall result should be obtained as if the calculation had been made in one step.

9.4 Graphical example of the aggregation structure of the PPI²



² Weighting occurs in one step in the PPI. For example, if a motor vehicle index is published, all items under motor vehicles will be normalised to unity and weighted. If the final manufactured goods index is calculated, then all items under manufacturing are weighted. Two or more subindices are not used to aggregate a higher-level index.

9.5 Linking of the PPI

The PPI high-level weights as well as certain elementary indices are updated annually. When new weights are introduced, the price reference period for the new index can be the last period of the old index; the old and the new indices being linked together at this point. The old and the new indices constitute a linked index.

The introduction of new weights is often a complex operation because it provides an opportunity to introduce new items, new samples, new data sources, new compilation practices, new elementary aggregates, new higher-level indices or new classifications. These tasks are often undertaken simultaneously at the time of reweighting to minimise overall disruption to the time series and any resulting inconvenience to users of the indices.

Annual chaining has the advantage that changes (such as the inclusion of new goods) can be introduced on a regular basis, although every index needs some ongoing maintenance, whether annually chained or not.

9.5.1 Features of a linked index

There are several important features of a linked index:

- The linked index formula allows weights to be updated, and facilitates the introduction of new items and sub-indices and the removal of obsolete ones.
- In order to be able to link the old and the new series, an overlapping period (k) is needed in which the index has to be calculated using both the old and the new set of weights.
- A linked index may have two or more links. Between each link period, the index may be
 calculated as a fixed weight index using any index number formula. The link period may be a
 month or a year, provided the weights and indices refer to the same period.
- Linking is intended to ensure that the individual indices on all levels show the correct development through time.
- Linking leads to non-additivity. When the new series is chained onto the old one the higher-level indices after the link cannot be obtained as weighted arithmetic averages of individual indices using the new weights. If, on the other hand, the index reference period is changed and the index series prior to the link period is rescaled to the new index reference period, this series cannot be aggregated to higher-level indices by use of the new weights.

9.5.2 Method of linking the PPI

The method used to link the PPI is known as splicing and chaining. When weights are updated which reflect the latest production patterns, a new series is created. Consequently, two series exist, the old and the new. However, as with all price statistics, a continuous series is required. To accomplish this, the splicing technique is applied; this means that to make the new index comparable to the old, the indices are spliced at a year that is common to both series.

Chaining occurs when the spliced index change is multiplied to the end index of the old index to obtain a continuous series.

The process followed for the PPI update in January 2021 is as follows (example to follow):

- 1. Calculate the 2020 publication level indices based on the 2016 value added derived weights.
- Calculate the December 2020 and January 2021 publication level indices based on the 2021 weights3
- Calculate the ratio between indices (from step 3) between January 2021 and December 2020. 3.
- Apply the ratio calculated (from step 4) to the published aggregates to obtain the index for January 20214
- 5. The following month the same procedure will be followed.

It should be noted that when the reweighting coincides with a review of the basket, all indices will be reweighted to the last available December, in the present case December 2020. Since all elementary (lowest level) indices equal 100 in December 2020, all aggregations using the new weights also equal 100 in December 2020.

³ Step 3 and 4 is splicing

⁴ Step 5 is chaining

Table 5: Example – Linking and splicing the index

EXAMPLE	Weight 2020	Weight 2021	Jan 2020	Nov 2020	Old index Dec 2020	New index Dec 2020	Jan 2021
Elementary price indices							
Cattles	12.31	11.30	112.3	123.7	125.4		
Pigs	2.02	1.95	97.3	118.8	123.0		
Poultry	15.34	15.20	90.3	108.5	110.8		
Sheep	2.57	2.31	114.0	136.9	142.4		
Eggs	3.98	3.63	101.0	106.9	109.2		
Raw milk	5.88	5.22	95.3	104.7	105.5		
Wool	1.67	1.68	130.5	115.4	113.4		
Elementary price indices rebased							
Cattles			89.6	98.7	100.0	100.0	99.4
Pigs			79.1	96.6	100.0	100.0	99.1
Poultry			82.0	97.9	100.0	100.0	97.4
Sheep			80.1	96.1	100.0	100.0	95.4
Eggs			92.5	97.9	100.0	100.0	101.0
Raw milk			90.3	99.3	100.0	100.0	106.7
Wool			115.0	101.8	100.0	100.0	108.8
Higher-level indices	Old					New	
Live animals= cattles+pigs +poultry+sheep	32.24	30.76	84.4	98.0	100.0	100.0	98.1
Milk and eggs= eggs+raw milk	9.86	8.85	91.2	98.7	100.0	100.0	104.4
Other animal products	1.67	1.68	90.3	99.3	100.0	100.0	108.8
Total	43.78	41.30	87.1	98.3	100.0	100.0	98.8
Chaining of higher-level indices to	Dec 2020	0=100				Ratios	
Live animals= cattles+pigs +poultry+sheep							0.981
Milk and eggs= eggs+raw milk Other animal products							1.044 1.088
Total							0.998
	D = 000	100					
Chaining of higher-level indices to Live animals= cattles+pigs +poultry+sheep	32.24	30.8	84.4	98.0	100.0	100.0	98.1
Milk and eggs= eggs+raw milk	9.86	8.80	91.2	98.7	100.0	100.0	104.4
Other animal products	1.67	1.70	90.3	99.3	100.0	100.0	108.8
Total	43.78	41.30	87.1	98.3	100.0	100.0	99.8

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Appendix A: Input and Output CPCs

CPC 01 Pr	Agriculture, forestry and fishing products Products of agriculture, horticulture and market gardening	Output
		Output
CPC 02 Li	in a primate and primate products (analysis are set)	Output
	ive animals and animal products (excluding meat)	Output
CPC 03 Fo	Forestry and logging products	Output
CPC 04 Fi	ish and other fishing products	Output
CPC 1 O	Ores and minerals; electricity, water and gas	
CPC 11 C	Coal and lignite; peat	Output
CPC 13 G	Sold, uranium and thorium ores and concentrates	Output
CPC 14 M	Metal ores and concentrates	Output
CPC 16 O	Other minerals	Output
CPC 17 EI	Electricity, town gas, steam and hot water	Output
CPC 18 Na	latural water	Output
CPC 2 Fo	ood products; beverages and tobacco; textiles, apparel and	leather products
CPC 211 M	Meat and meat products	Output
	Prepared and preserved fish, crustaceans, molluscs and other	
CPC 212 ac	quatic invertebrates	Output
	Prepared and preserved vegetables, pulses and	2
	otatoes	Output
	Prepared and preserved fruit and nuts	Output
	nimal and vegetable oils and fats	Output
	Dil-cake and other residues resulting from the extraction of egetable fats or oils; flours and meals of oil seeds or oleaginous	
	ruits, except those of mustard; vegetable waxes, except	
	riglycerides; degras; residues resulting from the treatment of	
CPC 219 fa	atty substances or animal or vegetable waxes	Output
CPC 221 Pr	Processed liquid milk and cream	Output
CPC 222 O	Other dairy products	Output
CPC 231 G	Grain mill products	Output
CPC 233 Pr	Preparations used in animal feeding	Output
CPC 234 Ba	Bakery products	Output
CPC 235 St	Sugar	Output
CPC 236 C	Cocoa, chocolate and sugar confectionery	Output
CPC 239 Fo	Food products n.e.c	Output
CPC 241 Et	Ethyl alcohol; spirits, liqueurs and other spirituous beverages	Output
CPC 242 W	Vines	Output
CPC 243 M	Malt liquors and malt	Output
CPC 244 Sc	Soft drinks ;bottled mineral waters	Output
CPC 250 To	obacco products	Output
CPC 271 M	Made-up textile articles	Output
CPC 272 Ca	Carpets and other textile floor coverings	Output
	Vearing apparel, except fur apparel	Output
	anned or dressed leather; composition leather	Input
Fo	ootwear, with outer soles and uppers of rubber or plastics, or	•
	vith uppers of leather or textile materials, other than sports	
	potwear, footwear incorporating a protective metal toe- cap and	Output
	niscellaneous special footwear	Output
	Other transportable goods, except metal products, machinery Vood, sawn or chipped lengthwise, sliced or peeled, of a	and equipment
	nickness exceeding 6mm; railway or tramway sleepers (cross-	
	es) of wood not impregnated	Input

CPC Code	CPC description	Input/Output
CPC 312	Wood continuously shaped along any of its edges or faces; wood wool; wood flour; wood in chips or particles	Input
01 0 312		Прис
	Wood in the rough, including those treated with paint, stains, creosote or other preservatives;	
	railway or tramway sleepers (cross-ties) of	
CPC 313	wood, impregnated	Input
CPC 314	Boards and panels	Input
	Builders' joinery and carpentry of wood (including cellular wood	
CPC 316	panels, assembled parquet panels, shingles and shakes)	Input
CPC 321	Pulp, paper and paperboard	Output
CPC 322	Books, in print	Output
CPC 323	Newspapers and periodicals, daily, in print	Output
	Stamps, cheque forms, banknotes, stock certificates, brochures	
CPC 326	and leaflets, advertising material and other printed matter	Output
CPC 331	Coke and semi-coke of coal, of lignite or of peat; retort carbon	Output
01 0 331	Petroleum oils and oils obtained from bituminous materials,	σαιραι
	other than crude; preparations n.e.c. containing by weight 70%	
	or more of these oils, such oils being the basic constituents of	
CPC 333	the preparations	Output
CPC 334	Petroleum gases and other gaseous hydrocarbons, except natural gas	Output
01 0 334	Petroleum jelly; paraffin wax, micro- crystalline	Output
	petroleum wax, slack wax, ozokerite, lignite	
	wax, peat wax, other mineral waxes, and similar	
	products; petroleum coke, petroleum bitumen	
CPC 335	and other residues of petroleum oils or of oils obtained from bituminous materials	Output
CPC 333	Basic organic chemicals	Input
CPC 342	Basic inorganic chemicals n.e.c.	Input
01 0 0 12	Tanning or dyeing extracts; tannins and their	Прис
CPC 343	derivatives; colouring matter n.e.c.	Input
CPC 346	Fertilizers and pesticides	Output
CPC 347	Plastics in primary forms	Input
	Synthetic rubber and factice derived from oils, and mixtures thereof with natural rubber and similar natural gums, in primary	
CPC 348	forms or in plates, sheets or strip	Input
CPC 351	Paints and varnishes and related products; artists' colours ;ink	Output
CPC 352	Pharmaceutical products	Output
CPC 353	Soap, cleaning reparations, perfumes and toilet preparations	Output
CPC 354	Chemical products n.e.c.	Output
CPC 361	Rubber tyres and tubes	Output
CPC 362	Other rubber products	Input
CPC 363	Semi-manufactures of plastics	Input
CPC 364	Packaging products of plastics	Input
CPC 369	Other plastic products	Output
CPC 371	Glass and glass products	Input
CPC 372	Non-structural ceramic ware	Output
CPC 373	Refractory products and structural non-refractory clay products	Output
CPC 374	Plaster, lime and cement	Output
CPC 375	Articles of concrete, cement and plaster	Output
CPC 379	Other non-metallic mineral products n.e.c.	Output
CPC 381	Furniture	Output

CPC Code	CPC description	Input/Output
CPC 382	Jewellery and related articles	Output
CPC 389	Other manufactured articles n.e.c.	Output
CPC 393	Metal waste or scraps	Input
CPC 399	Other wastes and scraps	Input
CPC 4	Metal products, machinery and equipment	
CPC 411	Basic iron and steel	Input
CPC 412	Products of iron or steel	Input
CPC 413	Basic precious metals and metals clad with precious metals	Input
	Copper ,nickel, aluminium, alumimina, lead, zinc and tin,	
CPC 414	unwrought	Input
CPC 415	Semi-finished products of copper, nickel, aluminium, lead, zinc and tin or their alloys	Input
CPC 416	Other non-ferrous metals and articles thereof (including waste and scrap of some metals); cermets and articles thereof	Input
CPC 421	Structural metal products and parts thereof	Output
CPC 422	Tanks, reservoirs and containers of iron, steel or aluminium	Output
CPC 429	Other fabricated metal products	Output
CPC 429	Engines and turbines and parts thereof	Output
GFG 431	Pumps, compressors, hydraulic and pneumatic power engines,	Ουίραι
CPC 432	and valves, and parts thereof	Output
CPC 433	Bearings, gears, gearing and driving elements, and parts thereof	Output
CPC 435	Lifting and handling equipment and parts thereof	Output
CPC 439	Other general -purpose machinery and parts thereof	Output
CPC 441	Agricultural or forestry machinery and parts thereof	Output
CPC 442	Machine-tools and parts and accessories thereof	Output
CPC 444	Machinery for mining, quarrying and construction, and parts thereof	Output
CPC 445	Machinery for food, beverage and tobacco processing, and parts thereof	Output
CPC 447	Weapons and ammunition and parts thereof	Output
CPC 448	Domestic appliances and parts thereof	Output
CPC 449	Other special-purpose machinery and parts thereof	Output
CPC 452	Computing machinery and parts and accessories thereof	Output
CPC 461	Electric motors, generators and transformers, and parts thereof	Output
CPC 462	Electricity distribution and control apparatus, and parts thereof	Output
CPC 463	Insulated wire and cable; optical fibre cables	Output
CPC 464	Accumulators, primary cells and primary batteries, and parts thereof	Output
CPC 471	Electronic valves and tubes; electronic components; parts thereof	Output
	Television and radio transmitters; television, video and digital	
CPC 472	cameras; telephone sets	Output
	Radio broadcast and television receivers; apparatus for sound and video recording and reproducing; microphones,	
CPC 473	loudspeakers, amplifiers, etc.	Output
	Instruments and appliances for measuring, checking, testing,	
	navigating and other purposes, except optical instruments; industrial process control equipment; parts and accessories	
CPC 482	thereof	Output
CPC 491	Motor vehicles, trailers and semi-trailers; parts and accessories thereof	Output
CPC 492	Bodies (coachwork) for motor vehicles; trailers and semi-trailers; parts and accessories thereof	Output

CPC Code	CPC description	Input/Output
	Railway and tramway locomotives and rolling	
CPC 495	stock, and parts thereof	Output
CPC 496	Aircraft and spacecraft, and parts thereof	Output

Appendix B: Basket and weights of products in the PPI, price collection methodology and frequencies (as at January 2021)

B1: Agriculture, Forestry and Fishing

SIC	SIC	Indicator products	Price collection	Fraguanay	Type of price	Woight		
Code	Description	Indicator products	methodology	Frequency	Type of price	Weight		
1		Agriculture, forestry and fishing						
11	Agriculture							
111	Growing of c	-		T	1			
1111		Wheat	Markets	Monthly	Average price	2,60%		
1111		Maize	Markets	Monthly	Average price	10,34%		
1111		Soybeans	Markets	Monthly	Average price	2,00%		
1111		Sunflower seed	Markets	Monthly	Average price	1,28%		
1111		Sugar cane	Sugar Cane Growers Association	Monthly (on month lag)	Price per ton of Recoverable Value (RV)	3,21%		
1112		Tomatoes	Markets	Monthly	Average price	1,94%		
1112		Onions	Markets	Monthly	Average price	1,62%		
1112		Potatoes	Markets	Monthly	Average price	5,49%		
1113		Bananas	Markets	Monthly	Average price	1,04%		
1113		Lemons	Markets	Monthly	Average price	1,66%		
1113		Oranges	Markets	Monthly	Average price	4,82%		
1113		Grapes	Markets	Monthly	Average price	5,28%		
1113		Apples	Markets	Monthly	Average price	2,56%		
1113		Pears	Markets	Monthly	Average price	1,31%		
112	Farming of a	nimals						
1121		Cattle	Auctions	Monthly	Average price	11,30%		
1121		Sheep	Auctions	Monthly	Average price	2,31%		
1121		Raw milk	Processors of milk/Farmers/Association	Monthly	Average price	5,22%		
1121		Wool	Auctions/Companies	Monthly	Average price	1,68%		
1122		Pigs	Auctions	Monthly	Average price	1,95%		
1122		Poultry	Association	Monthly	Average price	15,20%		
1122		Eggs	Association/Companies	Monthly	Average price	3,63%		
12	Forestry and	logging						
122	Logging			Γ	T			
1220		Sawn and planted timber - Softwood	Companies	Monthly	Price per unit	5,61%		
1220		Sawn and planted timber - Hardwood	Companies	Monthly	Price per unit	1,13%		
13	Fishing							
131	Ocean and c	oastal fishing			T			
1310		Hake	Fishing Producers/Companies	Monthly	Price per unit	2,54%		
1310		Small pelagic (e.g. anchovies and pilchards)	Fishing Producers/Companies	Monthly	Price per unit	1,40%		
1310		Rock lobster	Fishing Producers/Companies	Monthly	Price per unit	1,25%		
1310		Squid	Fishing Producers/Companies	Monthly	Price per unit	1,61%		

B2: Mining and Quarrying

	Initing and Qui	, ,						
SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight		
2	Mining and Q	uarrying	methodology			100.00%		
21		Mining of Coal						
210	Mining of Coa							
210	initing of oot				Contract			
			Mining		price/Average			
2100		Coal	Producers/Companies	Monthly	price	25,55%		
22	Extraction cru	ide petroleum /natura			1 1	,		
221		crude petroleum and	Y					
2210		Natural gas	Companies	Monthly	Average price	2,12%		
					Price per			
					unit/Brent			
		Natural gas			crude oil			
2210		condensate	Companies	Monthly	average	0,48%		
23	Mining of gol							
230	Mining of gol	d	1 a.e		1			
2200		Gold	Mining Producers/Companies	Monthly	Average price	16 760/		
2300 24	Mining of mot	tal ores, except gold	Producers/Companies	Monthly	Average price	16,76%		
241	Mining of from							
241	willing of Iron	lore	Mining					
2410		Haematite	Producers/Companies	Monthly	Average price	10,53%		
242	Mining of nor	n-ferrous metal ores,		ivioriting	7 (Voluge phoe	10,0070		
			Mining					
2421		Chromite	Producers/Companies	Monthly	Average price	4,12%		
			Mining		<u> </u>	-		
2422		Metallic copper	Producers/Companies	Monthly	Average price	0,78%		
		Metallurgical	Mining					
2423		manganese	Producers/Companies	Monthly	Average price	5,84%		
					London Metal			
			Companies/Platinum refiners/ London Metal		Exchange			
2424		Platinum	Exchange	Monthly	(LME) average price	8,26%		
2424	-	rialiiluiii	Mining	Widitilly	price	0,2076		
2424		Rhodium	Producers/Companies	Monthly	Average price	4,90%		
	1		Mining		7. Werdings price	.,,,,,,		
2424		Palladium	Producers/Companies	Monthly	Average price	8,49%		
			Mining					
2429	_	Nickel	Producers/Companies	Monthly	Average price	1,75%		
			Mining					
2429		Zircon	Producers/Companies	Monthly	Average price	1,99%		
25		and quarrying						
251	Stone quarry	ing, clay and sand-pit │			1			
2511		Granite	Mining Producers/Companies	Monthly	Average price	0.440/		
2511	1	Gianne	Producers/Companies Mining	ivioritrity	Average price	0,41%		
2519		Aggregate stones	Producers/Companies	Monthly	Average price	1,48%		
2010	1	, iggregate stories	Mining	Williamy	, worage price	1,-10/0		
2519		Sand	Producers/Companies	Monthly	Average price	0,18%		
	1		Mining	Í		,		
2520]	Gem diamonds	Producers/Companies	Monthly	Average price	1,44%		
			Mining					
2520	1	Industrial diamonds	Producers/Companies	Monthly	Average price	1,83%		
0504		Phosphate	Mining	NA 41.7		4.0=0/		
2531	-	concentrate	Producers/Companies	Monthly	Average price	1,87%		
2520		Andalusita	Mining Producers/Companies	Monthle	Avorogo price	4 040/		
2539		Andalusite	Producers/Companies	Monthly	Average price	1,21%		

B3: Electricity and Water

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight	
4	Electricity and water						
41	Electricity						
411	Production, collection and distribution of electricity						
					Weighted		
4111		Electricity	Eskom	Monthly	average	86.20%	
42	Collection, p	urification and distribution of	water				
420	Collection, p	urification and distribution of	water				
4200		Processed water	Water Boards	Annually	Price per unit	9.71%	
	1		Department of Water				
4200		Raw water	Affairs	Annually	Price per unit	4.09%	

B4: Manufacturing (Input)

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight	
3	Manufacturing	g (Input)				100.00%	
31	Manufacture of	of textiles, clothing and leath	er goods				
316	Tanning and o	Tanning and dressing of leather					
		Bovine Tanned or dressed			Average		
3161		leather	Producers/Companies	Monthly	prices	4,10%	
32		of wood, cork, straw, paper, _l	printing, media				
321	Sawmilling an	d planing of wood	T	T	1		
2040		Untreated logs and	Dan dan ann /O a man an i a a	Manthh	D.:::	0.000/	
3210		structural timber	Producers/Companies	Monthly	Price per unit	2,99%	
3210		Wood in chips or particles	Producers/Companies	Monthly	Price per unit	4,58%	
3210		Treated logs and structural timber	Producers/Companies	Monthly	Price per unit	2,63%	
322	Manufacture	of products of wood, cork, st			i nee per unit	2,0370	
3221	Mariaracture	Boards of wood	Producers/Companies	Monthly	Price per unit	6,56%	
3222		Builders carpentry of wood	Producers/Companies	Monthly	Price per unit	8,73%	
323	Manufacture o	of paper and paper products		Wioritrity	i nee per unit	0,7370	
3231	Manadacture	Wood pulp	Producers/Companies	Monthly	Price per unit	2,86%	
33	Manufacture o	of coke, refined petroleum pr		•		2,0070	
334		of basic chemicals	- Cadoto, Hadioar, Orionino	alo, rabbor, p	laotio		
3341	a.rarastars	Basic organic chemicals	Producers/Companies	Monthly	Price per unit	6,99%	
3341		Basic inorganic chemicals	Producers/Companies	Monthly	Price per unit	3,31%	
3341		Tanning extracts	Producers/Companies	Monthly	Price per unit	0,76%	
0011		Ethylene polymers and	1 Toddooro, Companios			0,1070	
3343		copolymers (PET)	Producers/Companies	Monthly	Price per unit	1,48%	
3343		PVC and HDPE compound	Producers/Companies	Monthly	Price per unit	4,83%	
3343		Polyester resin	Producers/Companies	Monthly	Price per unit	2,42%	
337	Manufacture of	of rubber products					
3379		Conveyor belts or belting	Producers/Companies	Monthly	Price per unit	2.18%	
338	Manufacture of	of plastic products					
3380		Plastic bags	Producers/Companies	Monthly	Price per unit	1,96%	
3380		Plastic containers	Producers/Companies	Monthly	Price per unit	3,85%	
34	Manufacture of	of other non-metallic mineral	products				
341	Manufacture of	of glass and glass products					
3411		Safety glass	Producers/Companies	Monthly	Price per unit	0,90%	
3411		Fibre glass	Producers/Companies	Monthly	Price per unit	0,37%	
3411		Glass containers	Producers/Companies	Monthly	Price per unit	2,22%	

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
35	Manufacture of	of basic or fabricated metals	, machinery, equipment,	computing e	quipment	
351	Manufacture of	of basic iron and steel				
3510		Ferro-manganese	Producers/Companies	Monthly	Price per unit	1,20%
3510		Ferro-chromium alloy	Producers/Companies	Monthly	Price per unit	1,48%
3510		Flat rolled non-alloy steel products	Producers/Companies	Monthly	Price per unit	5,17%
3510		Flat rolled stainless steel products	Producers/Companies	Monthly	Price per unit	6,28%
3510		Bars and rods of iron or steel	Producers/Companies	Monthly	Price per unit	2,33%
3510		Angles, shapes, sections and similar products of iron or steel Wire of iron or non-alloy	Producers/Companies	Monthly	Price per unit	1,30%
3510		steel	Producers/Companies	Monthly	Price per unit	0,79%
352	Manufacture of	of basic precious and non-fe	rrous metals			
3520		Silver in powder form	Producers/Companies	Monthly	Price per unit	0,51%
3520		Unwrought or semi- manufactured gold	Producers/Companies	Monthly	Price per unit	4,85%
3520		Unwrought or semi- manufactured platinum	Producers/Companies	Monthly	Price per unit	3,86%
3520		Unwrought aluminium	Producers/Companies	Monthly	Price per unit	0,11%
3520		Tubes, pipes and tube or pipe fittings, of copper	Producers/Companies	Monthly	Price per unit	0,70%
3520		Manganese metal (electrolytic manganese)	Producers/Companies	Monthly	Price per unit	2,08%
353	Casting of me		T	1		
3531		Semi - finished products and ingots of iron and steel	Producers/Companies	Monthly	Price per unit	1,17%
3532		Aluminium products	Producers/Companies	Monthly	Price per unit	1,15%
395	Recycling n.e.	.c				
3951		Metal waste and scrap	Producers/Companies	Monthly	Price per unit	1,68%

B5: Manufacturing (Output)

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
3	Manufacturing	(Output)				100.00%
30	Manufacture o	f food products, beverages	and tobacco products			
301	Production, pr	ocessing and preserving of	meat, fish, fruit, vegetab	les, oils and f	ats	
3011		Beef carcasses	Producers/Companies	Monthly	Price per unit	1,71%
3011		Pork carcasses	Producers/Companies	Monthly	Price per unit	0,28%
3011		Lamb carcasses	Producers/Companies	Monthly	Price per unit	0,34%
3011		Chicken - Fresh or chilled	Producers/Companies	Monthly	Price per unit	0,26%
3011		Frozen chicken	Producers/Companies	Monthly	Price per unit	1,91%
3011		Polony	Producers/Companies	Monthly	Price per unit	0,35%
3011		Meat burgers	Producers/Companies	Monthly	Price per unit	0,34%
3012		Fresh and chilled fish	Producers/Companies	Monthly	Price per unit	0,74%
3012		Frozen fish	Producers/Companies	Monthly	Price per unit	0,48%
3012		Tinned fish	Producers/Companies	Monthly	Price per unit	0,84%
3013		Frozen potato fries	Producers/Companies	Monthly	Price per unit	0,16%
3013		Chips	Producers/Companies	Monthly	Price per unit	0,64%
3013		Canned baked beans	Producers/Companies	Monthly	Price per unit	0,14%
3013	-	Fruit juice	Producers/Companies	Monthly	Price per unit	0,74%
3013	<u> </u>	Canned fruits	Producers/Companies	Monthly	Price per unit	0,20%
3013	 	Fruit concentrates	Producers/Companies	Monthly	Price per unit	0,16%
3014	 	Vegetable oil	Producers/Companies	Monthly	Price per unit	0,62%
3014	-	Margarine	Producers/Companies	Monthly	Price per unit	0,10%
3013		Oilseed cake	Producers/Companies	Monthly	Price per unit	0,11%
302	Manufacture o	f dairy products	T	T	I	
3020	-	Fresh full-cream milk	Producers/Companies	Monthly	Price per unit	0,61%
3020	-	Long life full-cream milk	Producers/Companies	Monthly	Price per unit	0,55%
3020	-	Yoghurt	Producers/Companies	Monthly	Price per unit	0,68%
3020	-	Cheddar	Producers/Companies	Monthly	Price per unit	0,57%
3020		Ice cream	Producers/Companies	Monthly	Price per unit	0,25%
303	Manufacture o	f grain mill products, starch				0.440/
3031	-	Cake flour	Producers/Companies	Monthly	Price per unit	0,41%
3031	-	White bread flour	Producers/Companies	Monthly	Price per unit	0,27%
3031	 	Brown bread meal	Producers/Companies	Monthly	Price per unit	0,13%
3031	 	Maize meal and maizina	Producers/Companies	Monthly	Price per unit	1,01%
3031	-	Cereals	Producers/Companies	Monthly	Price per unit	0,55%
3031	-	Rice	Producers/Companies	Monthly	Price per unit	0,26%
3033	-	Dairy cattle feeds	Producers/Companies	Monthly	Price per unit	0,20%
3033 304	Manufactura	Poultry Feeds	Producers/Companies	Monthly	Price per unit	1,32%
3041	Manuacture 0	f other food products Sweet biscuits	Draduaara/Campaniaa	Monthly	Drigg par unit	1 250/
3041	-	White bread	Producers/Companies	•	Price per unit Price per unit	1,25%
3041		Brown bread	Producers/Companies Producers/Companies	Monthly Monthly	Price per unit	3,34% 2,99%
3041	-			•	Price per unit	
3042	-	Raw cane sugar Refined sugar	Producers/Companies Producers/Companies	Monthly Monthly	Price per unit	0,40% 1,52%
3042	-	Chocolate slabs and bars	Producers/Companies	Monthly	Price per unit	0,39%
3043	-	Sweets	Producers/Companies	Monthly	Price per unit	0,39%
3043	1	Nuts and nut products	Producers/Companies	Monthly	Price per unit	0,16%
3049	1	Instant coffee	Producers/Companies Producers/Companies	Monthly	Price per unit	0,14%
3049	1	Tea	Producers/Companies Producers/Companies	Monthly	Price per unit	0,08%
3049	1	Infant food and formula	Producers/Companies	Monthly	Price per unit	0,08%
3043	1	miani 1000 and 10mida	i roducers/Companies	ivioritilly	i nce per unit	0,01 /0

SIC	SIC	Indicator products	Price collection	Frequency	Type of	Weight
Code	Description	-	methodology	Trequency	price	Weight
0040		Soups and broths,	D I /O	March	D	0.040/
3049		powdered	Producers/Companies	Monthly	Price per unit	0,04%
3049		Tomato sauce	Producers/Companies	Monthly	Price per unit	0,05%
3049		Mayonnaise	Producers/Companies	Monthly	Price per unit	0,08%
3049		Spices and condiments	Producers/Companies	Monthly	Price per unit	0,15%
3049		Non-dairy creamers	Producers/Companies	Monthly	Price per unit	0,08%
		Nutritional, dietary and formulated food				
3049		supplements	Producers/Companies	Monthly	Price per unit	0,17%
305	Manufacture of	of beverages				
3051		Spirits	Producers/Companies	Monthly	Price per unit	0,67%
3051		White wine	Producers/Companies	Monthly	Price per unit	0,18%
3051		Red wine	Producers/Companies	Monthly	Price per unit	0,22%
3051		Spirit coolers	Producers/Companies	Monthly	Price per unit	0,46%
3052	1	Beer	Producers/Companies	Monthly	Price per unit	3,99%
3053		Soft drinks	Producers/Companies	Monthly	Price per unit	1,48%
306	Manufacture o	of tobacco products		1	, p a. a	
3060		Cigarettes	Producers/Companies	Monthly	Price per unit	1,16%
31	Manufacture o	of textiles, clothing and leath		ivioriting	1 1100 por arm	1,1070
312		of other textiles	ci goods			
3121	Wallaracture C	Linen	Producers/Companies	Monthly	Price per unit	0,25%
3121	-	Loose car seat covers	Producers/Companies	Monthly	Price per unit	0,23%
3121	-	Carpets (excl mats and	1 Toddcers/Companies	Wioritrily	Trice per unit	0,2470
3122		rugs)	Producers/Companies	Monthly	Price per unit	0,29%
313	Manufacture o	of knitted and crocheted fabr		1	1 1100 por anni	
3130	- Mariarastars s	Sportswear	Producers/Companies	Monthly	Price per unit	0,29%
314	Manufacture o	of wearing apparel, except fu	•	1 Wieriany	r nee per anic	0,2070
3140	araaatara s	Womens clothing	Producers/Companies	Monthly	Price per unit	1,60%
3140	1	Mens clothing	Producers/Companies	Monthly	Price per unit	1,33%
3140	-	Protective wears	Producers/Companies	Monthly	Price per unit	0,40%
317	Manufacture o		1 Toddcers/Companies	IVIOLITIIIY	i nce per unit	0,4070
3170	Wandlacture C	Footwear	Producers/Companies	Monthly	Drigg par unit	0,58%
32	Manufacture	r rootwear of wood, cork, straw, paper, p	•	IVIOTILITY	Price per unit	0,5676
323			orniting, media			
	wanulacture o	of paper and paper products	Dua di /O	NA tl- l	Daise a servicia	0.040/
3231	-	Paper for printing Packing and wrapping	Producers/Companies	Monthly	Price per unit	0,21%
3231		paper in rolls or sheets	Producers/Companies	Monthly	Price per unit	0,45%
3232	1	Sacks and bags of paper	Producers/Companies	Monthly	Price per unit	0,27%
3232		Cardboard boxes	Producers/Companies	Monthly	Price per unit	2,26%
3232	1	Disposable nappies for		y	. Hoo por drift	_,_0/0
3239		babies	Producers/Companies	Monthly	Price per unit	0,29%
		Toilet paper, tissues,	•		·	,
		napkins and other				
3239		household articles of paper	Producers/Companies	Monthly	Price per unit	0,36%
0000		Labels/tags/stickers of	Decidence 10	Max the	Duine 1	0.000/
3239	D. J. P. C.	paper	Producers/Companies	Monthly	Price per unit	0,28%
324	Publishing	D I	D /O	NA	D	4.0=0/
3241		Books	Producers/Companies	Monthly	Price per unit	1,65%
325	Printing and a	ctivities related to printing	1	T	1	
3251		Newspapers	Producers/Companies	Monthly	Price per unit	0,15%
3251		Magazines	Producers/Companies	Monthly	Price per unit	0,34%
0054		Trade advertising material	Decidence 10	Max the	Duine 1	0.750/
3251		and other printed material	Producers/Companies	Monthly	Price per unit	0,75%

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
3251		Printed Stationary	Producers/Companies	Monthly	Price per unit	0,49%
33	Manufacture of	of coke, refined petroleum pr	oducts, nuclear, chemic	als, rubber, pl	astic	
331	Manufacture of	f coke oven products				
3310		Charcoal	Producers/Companies	Monthly	Price per unit	0,11%
3310		Pre-mixed asphalt	Producers/Companies	Monthly	Price per unit	0,09%
3310		Bituminous mixtures	Producers/Companies	Monthly	Price per unit	0,16%
332	Petroleum refi	neries/synthesisers				
3321/					Average	
2/3	_	Petrol	Producers/Companies	Monthly	price	3,11%
3321/					Average	
2/3	-	Jet fuel	Producers/Companies	Monthly	price	0,27%
3321/ 2/3		Diesel	Producers/Companies	Monthly	Average price	2 200/
3321/		Diesei	Producers/Companies	Monthly	Average	3,20%
2/3		Engine oils	Producers/Companies	Monthly	price	0,25%
3321/		21.9.1.0 0.10	1 Toddooro, Companios	Wienany	Average	0,2070
2/3		LPG gasses	Producers/Companies	Monthly	price	0,20%
3321/		Petro-chemicals and	•		Average	,
2/3		feedstocks	Producers/Companies	Monthly	price	1,81%
3321/					Average	
2/3		Lubricating preparations	Producers/Companies	Monthly	price	0,09%
334	Manufacture of	f basic chemicals	_	1		
3342		Fertilizers	Producers/Companies	Monthly	Price per unit	0,46%
335	Manufacture o	f other chemicals products		T.		
3351		Insecticides	Producers/Companies	Monthly	Price per unit	0,40%
3352		Paints	Producers/Companies	Monthly	Price per unit	1,21%
		Provitamins, vitamins,				
3353	 -	hormones and antibiotics	Producers/Companies	Monthly	Price per unit	0,67%
3353	<u> </u>	Cold and flu preparations	Producers/Companies	Monthly	Price per unit	0,18%
3353	-	Anti-inflammatories	Producers/Companies	Monthly	Price per unit	0,31%
3353	-	Non-narcotic Analgesics	Producers/Companies	Monthly	Price per unit	0,25%
		Antiviral and retroviral				4.000/
3353	-	drugs	Producers/Companies	Monthly	Price per unit	1,00%
3354	-	Toilet Soap	Producers/Companies	Monthly	Price per unit	0,21%
		Non soap based				
3354		detergents, laundry bars and tablets	Producers/Companies	Monthly	Price per unit	0,26%
3354	-	Washing powder	Producers/Companies	Monthly	Price per unit	0,64%
3354	-	Lotions and creams	Producers/Companies	Monthly	Price per unit	0,49%
3354	-	Perfumes and deodorant	Producers/Companies	Monthly	Price per unit	0,43%
335	Manufacture	of other chemicals products	r roducers/Companies	IVIOTITITY	Frice per unit	0,27 /0
3359	Wallulacture C	Adhesives and sealants	Producers/Companies	Monthly	Price per unit	0,14%
3359	-	Prepared explosives	Producers/Companies	Monthly	Price per unit	0,14%
3339	-	Water and pool treatment	Froducers/Companies	ivioritrity	Frice per unit	0,52 /6
3359		chemicals	Producers/Companies	Monthly	Price per unit	0,17%
3359	-	Chemical catalyst	Producers/Companies	Monthly	Price per unit	0,24%
3359	1	Mining chemical	Producers/Companies	Monthly	Price per unit	0,11%
337	Manufacture o	of rubber products	1. Todacoro, Companios	1 .viorially	. Hoo por drift	0,1170
3371	a.iaiaotaio 0	Tyres	Producers/Companies	Monthly	Price per unit	0,88%
338	Manufacture o	of plastic products	. roducoro/companico	1 World ity	. 1100 per unit	0,0070
000	.manaracture 0	Vinyl chloride polymers				
3380		(PVC) and copolymers	Producers/Companies	Monthly	Price per unit	0,47%
	1	Plastic pipes, tubes and			11 11 11 11	-, , 0
3380		fittings	Producers/Companies	Monthly	Price per unit	0,39%

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
		Plastic films for packaging				
3380	 -	purposes	Producers/Companies	Monthly	Price per unit	0,65%
3380	 -	Vinyl sheeting or flooring	Producers/Companies	Monthly	Price per unit	0,02%
3380		Industrial mouldings of plastic	Producers/Companies	Monthly	Price per unit	0,23%
3380		Stationery goods of plastic	Producers/Companies	Monthly	Price per unit	0,09%
34		of other non-metallic mineral				
342	Manufacture o	of non-metallic mineral produ	cts n.e.c	1		
3421		Non-structural ceramic ware	Producers/Companies	Monthly	Price per unit	0,18%
3422		Refractory bricks and shapes	Producers/Companies	Monthly	Price per unit	0,27%
3423	-	Clay bricks	Producers/Companies	Monthly	Price per unit	0,14%
3423	<u> </u>	Ceramic tiles	Producers/Companies	Monthly	Price per unit	0,40%
3424	 	Cement	Producers/Companies	Monthly	Price per unit	0,73%
3425	<u> </u>	Ready-mix concrete	Producers/Companies	Monthly	Price per unit	0,53%
3425	<u> </u>	Ceiling boards	Producers/Companies	Monthly	Price per unit	0,01%
3425	<u> </u>	Roof tiles	Producers/Companies	Monthly	Price per unit	0,13%
3425	-	Cement or concrete bricks	Producers/Companies	Monthly	Price per unit	0,19%
3425		Concrete pipes Prefabricated cement and	Producers/Companies	Monthly	Price per unit	0,03%
3425		concrete components	Producers/Companies	Monthly	Price per unit	0,18%
354	Manufacture o	f structural metal products	1	1		
0544		Steel door and window	D	NA (I. I	D.:	0.000/
3541	-	frames	Producers/Companies	Monthly	Price per unit	0,36%
3541	-	Roof sheeting	Producers/Companies	Monthly	Price per unit	0,60%
3541	-	Reinforcing metal work Equipment for scaffolding,	Producers/Companies	Monthly	Price per unit	0,32%
3541		shuttering and propping	Producers/Companies	Monthly	Price per unit	0,06%
0544		Welded angles, shapes and sections for use in	B	NA (b.)	D.:	0.000/
3541	<u> </u>	manufactured structures	Producers/Companies	Monthly	Price per unit	0,29%
3541		Steel pipes Reservoirs, tanks, vats and	Producers/Companies	Monthly	Price per unit	0,22%
3542		similar containers of iron, steel or aluminium	Producers/Companies	Monthly	Price per unit	0,46%
355 355	Manufacture	of other fabricated metal proc		I MOHUITY	i noe per unit	U, 4 U /0
3553	Wallulacture C	Handtools and parts thereof	Producers/Companies	Monthly	Price per unit	0,67%
3333		Locks and padlocks, clasps, keys and parts	1 Toddcers/Companies	Worthing	i nee per unit	0,0776
3553		thereof of base metal	Producers/Companies	Monthly	Price per unit	0,23%
3559]	Cans	Producers/Companies	Monthly	Price per unit	1,47%
3559		Stoppers, lids, caps, discs and other closures	Producers/Companies	Monthly	Price per unit	0,61%
		Cloth, grill, netting and		1	_	
3559	-	fencing, of iron or steel wire	Producers/Companies	Monthly	Price per unit	0,26%
3559		Nails ,screws and other metal fastners	Producers/Companies	Monthly	Price per unit	0,49%
3559		Wire for fencing of iron or steel	Producers/Companies	Monthly	Price per unit	0,49%
356	Manufacture o	of general purpose machinery		1	1	
3561		Engines for motor vehicles	Producers/Companies	Monthly	Price per unit	0,06%
3562		Pumps	Producers/Companies	Monthly	Price per unit	0,43%
3562		Taps, cocks and valves	Producers/Companies	Monthly	Price per unit	0,27%
3563		Ball or roll bearings	Producers/Companies	Monthly	Price per unit	0,12%

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
3563	-	Gears and gearing	Producers/Companies	Monthly	Price per unit	0,20%
3303		Lifting and handling	Froducers/Companies	ivioritrity	Frice per unit	0,2076
		equipment and parts				
3565		thereof	Producers/Companies	Monthly	Price per unit	0,40%
		Industrial heating and				
3569		cooling system Commercial and industrial	Producers/Companies	Monthly	Price per unit	0,47%
		refrigerating and freezing				
3569		equipments	Producers/Companies	Monthly	Price per unit	0,46%
		Filtering or purifying	•		•	,
		machinery and apparatus(
3569		except for air or engines)	Producers/Companies	Monthly	Price per unit	0,14%
3569		Filters for engines	Producers/Companies	Monthly	Price per unit	0,19%
3569		Industrial ventilating fans and blowers	Producers/Companies	Monthly	Price per unit	0,20%
357	Manufacture o	of special purpose machinery		Wioriting	Thee per unit	0,2070
3571	manara de a	Irrigation pipe systems	Producers/Companies	Monthly	Price per unit	0,21%
0071		Machine-tools and parts	1 Toddoord/Companies	Wieritriny	Theo per dint	0,2170
3572		and accessories thereof	Producers/Companies	Monthly	Price per unit	0,33%
		Continuous-action				
		elevators, cutters,				
3574		tunnelling, boring and sinking machinery	Producers/Companies	Monthly	Price per unit	0,22%
3574		Graders and scrapers	Producers/Companies	Monthly	Price per unit	0,01%
		Tamping machines and	1 Toddooro, Companios	, wieriamy	T HOO POT GITTE	0,0170
3574		road rollers	Producers/Companies	Monthly	Price per unit	0,01%
		Front-end shovel loaders,				
3574		self-propelled	Producers/Companies	Monthly	Price per unit	0,01%
		Mechanical shovels, excavators and shovel				
3574		loaders	Producers/Companies	Monthly	Price per unit	0,22%
		Dumpers designed for off-				5,==15
3574		highway use	Producers/Companies	Monthly	Price per unit	0,12%
		Machinery for sorting,				
		screening, separating, washing, crushing,				
		grinding, mixing or				
		kneading of construction				
3574		material	Producers/Companies	Monthly	Price per unit	0,32%
		Parts of machinery for				
3574		mining, quarrying and construction	Producers/Companies	Monthly	Price per unit	0,26%
3374		Machinery for food,	1 Toddcc13/Companies	Wioritrity	Thee per unit	0,2070
		beverage and tobacco				
		processing, and parts		1	_	
3575		thereof	Producers/Companies	Monthly	Price per unit	0,20%
3577		Munitions, ammunitions and cartridges	Producers/Companies	Monthly	Price per unit	1,13%
3377		Assembling machines and	1 Toddoors/Companies	ivioritilly	i noo per unit	1,10/0
3579		apparatus	Producers/Companies	Monthly	Price per unit	0,77%
358	Manufacture o	f household appliances				
3580		Fridge-freezer	Producers/Companies	Monthly	Price per unit	0,15%
3580		Geysers	Producers/Companies	Monthly	Price per unit	0,01%
3580		Stoves and ovens	Producers/Companies	Monthly	Price per unit	0,22%
359	Manufacture o	of office, accounting and con	<u>'</u>	1		
3590		Computers	Producers/Companies	Monthly	Price per unit	0,47%

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
36	Manufacture o	of electrical machinery and a	pparatus n.e.c			
361	Manufacture of	f electric motors, generators	and transformers			
3610		Electric motors	Producers/Companies	Monthly	Price per unit	0,02%
3610		Generators sets	Producers/Companies	Monthly	Price per unit	0,07%
3610		Power transformers	Producers/Companies	Monthly	Price per unit	0,16%
362	Manufacture o	of electricity distribution and	control apparatus			
		Electricity distribution and				
3620		control equipment	Producers/Companies	Monthly	Price per unit	0,78%
363	Manufacture of	f insulated wire and cable	T	1		
		Steel wire armoured (SWA)				
3630		cable	Producers/Companies	Monthly	Price per unit	0,15%
364	Manufacture o	of accumulators, primary cell		1	1	
3640		Batteries	Producers/Companies	Monthly	Price per unit	0.16%
366	Manufacture of	of other electrical equipment		T	1	
3660		Automotive wire cables	Producers/Companies	Monthly	Price per unit	0.57%
		of radio, television and comm		d apparatus a	and of	
37	medical, preci	sion and optical instruments	s, watches and clocks			
371	Manufacture of	f electronic valves and tubes	s and other electronic co	pmponents		
3710		Electronic security systems	Producers/Companies	Monthly	Price per unit	0.13%
		of television and radio transm	nitters and apparatus for	r line telephor	ny and line	
372	telegraphy		T	T	1	
3720		Communication equipment	Producers/Companies	Monthly	Price per unit	0.67%
		of television and radio receive	ers, sound or video reco	ording or repre	oducing	
373	apparatus and	associated goods	T	1		
3730		Television and decoders	Producers/Companies	Monthly	Price per unit	0.37%
274		of medical appliances and ins			ng, checking,	
374	testing, naviga	ating and other purposes, ex Electricity and water supply	cept optical instruments	<u> </u>		
3742		meters	Producers/Companies	Monthly	Price per unit	0.60%
38	Manufacture	of transport equipment	i roducers/Companies	ivioriting	i nce per unit	0.0076
381	Manufacture of					
3810	Wallulacture C	Passenger Vehicles	Producers/Companies	Monthly	Price per unit	1 000/
3010	-	Bakkies and vans not	Producers/Companies	Monthly	Price per unit	1,99%
3810		exceeding 3.5 tons	Producers/Companies	Monthly	Price per unit	1,20%
0010	1	Lorries, trucks and vans	1 Toddocto/Companies	Wichting	1 Hoc per unit	1,2070
3810		exceeding 3.5 tons	Producers/Companies	Monthly	Price per unit	0,47%
382	Manufacture o	of bodies for motor vehicles,	•	•		,
		Bodies for motor vehicles				
3820		and parts thereof	Producers/Companies	Monthly	Price per unit	0,43%
3820		Draw bar trailers	Producers/Companies	Monthly	Price per unit	0,07%
		Tipper, tanker and trailer	·	_		
3820		parts	Producers/Companies	Monthly	Price per unit	0,09%
383	Manufacture of	f parts and accessories for r	notor vehicles and their	engines		
		Catalytic convertors and				
3830		parts thereof	Producers/Companies	Monthly	Price per unit	2,09%
0000		Silencers and exhaust				4.040/
3830	-	pipes	Producers/Companies	Monthly	Price per unit	1,21%
3830		Suspension, brakes, clutch,	Producero/Companies	Monthly	Drice per unit	O 240/
	-	mountings and parts	Producers/Companies	Monthly	Price per unit	0,34%
3830	Monrefort	Axles	Producers/Companies	Monthly	Price per unit	0,23%
385	wanutacture o	of railway and tramway locon	notives and rolling stock	<u> </u>		
		Railway locomotives and				
3850		rolling stock, and parts thereof	Producers/Companies	Monthly	Price per unit	0.21%
5555	1		. roadoord/ourripanies	i would ny	. Hoo per unit	0.21/0

SIC Code	SIC Description	Indicator products	Price collection methodology	Frequency	Type of price	Weight
385	Manufacture o	f aircraft and spacecraft				
3850		Parts of aircraft	Producers/Companies	Monthly	Price per unit	0.86%
39	Manufacture o	f furniture, recycling and ma	nufacturing n.e.c			
391	Manufacture o	f furniture				
3910		Furniture	Producers/Companies	Monthly	Price per unit	0.67%
3910		Base sets and mattresses	Producers/Companies	Monthly	Price per unit	0.54%
392	Manufacture n	.e.c.				
		Precious and semi-precious				
3921		stones	Producers/Companies	Monthly	Price per unit	0,23%
3921		Gold jewellery	Producers/Companies	Monthly	Price per unit	0,27%
3929		Number plates and signs	Producers/Companies	Monthly	Price per unit	0,44%