



The State Statistical Committee of the Republic of Azerbaijan

**Price statistics: application of a
new approach to data collection**

Methodological guidelines used in the calculation of the consumer price index

- *Calculation of consumer price index in the the State Statistical Committee of the Republic of Azerbaijan is carried out in accordance with standards and requirements specified in “Consumer Price Index Manual: Theory and Practice” (ILO, IMF, Eurostat, UN, World Bank), 2004*
- *For classification of goods and services the national version of the COICOP classification is used and its structure is fully aligned with the international version*

Selection of representative products and services

151 types of food products

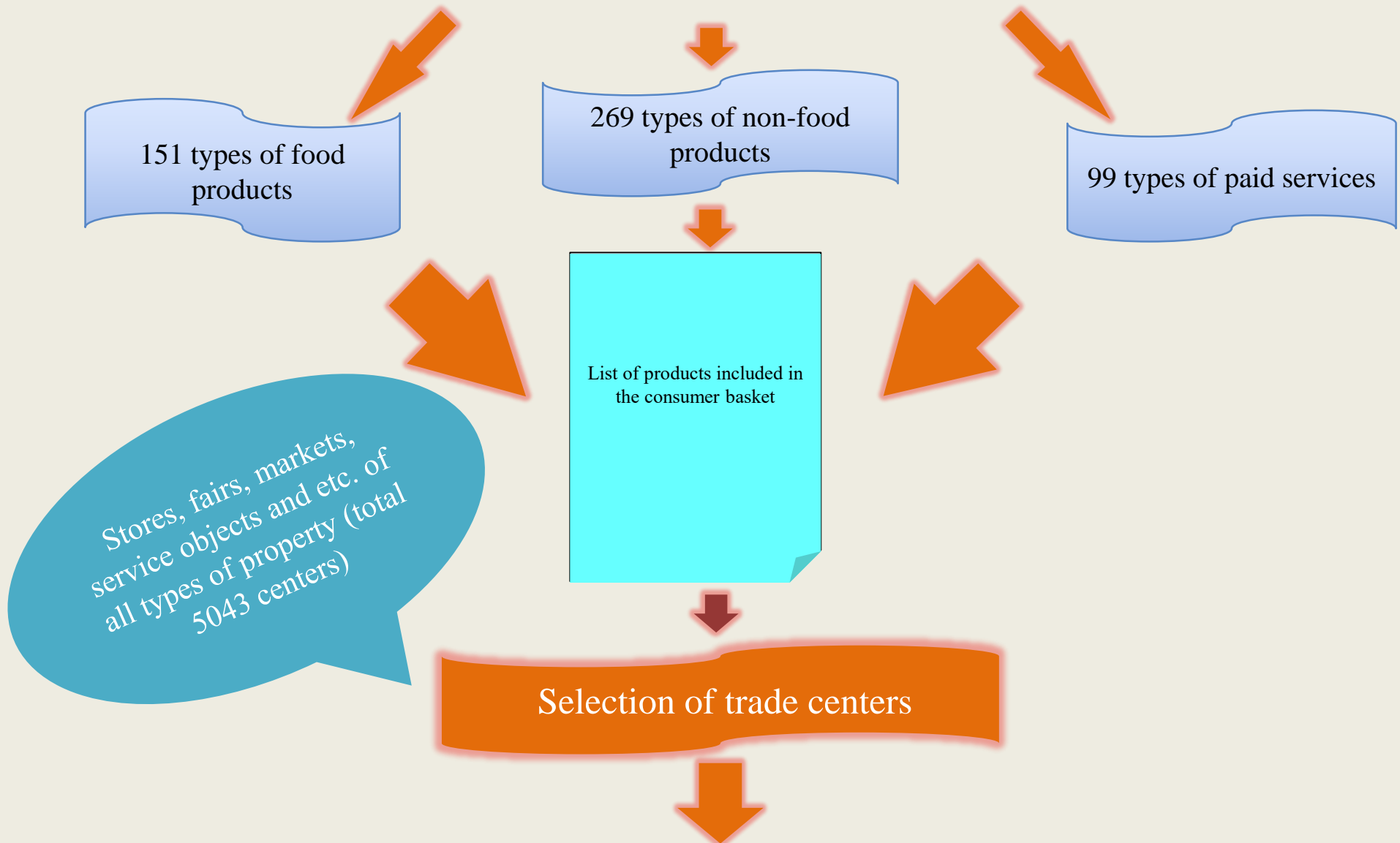
269 types of non-food products

99 types of paid services

List of products included in the consumer basket

Stores, fairs, markets, service objects and etc. of all types of property (total 5043 centers)

Selection of trade centers



Price registration



Primary data on prices covers all regions of the country. The consumer price index is calculated and published for each economic region

Registration of prices is carried out online by the relevant specialists of local statistical agencies (85 enumerators) using tablet computers

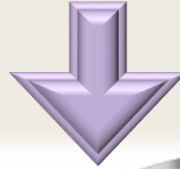
registration



data flow

During the month, prices are registered at 1560 food, 1359 non-food trade objects, 2124 service objects

CENTRALIZATION OF DATA



*Primary data are inputted
into the Committee's
database by the local
statistical agencies and
summarized*

Central Server

Development of ICT in statistics and new partner relations

- Development of ICT in the field of statistics and the establishment of partnerships with trade networks on a new level allowed to improve the process of price registration and use of electronic databases of trade networks for statistical purposes. The following steps have been taken for this purpose:
 - Trade networks which make 20,0 percent of retail trade turnover on Baku city and have 264 supermarkets were selected;
 - In January 2018, an agreement was concluded with trade networks on the submission of retail price data to the State Statistical Committee in the form of electronic databases and partnership agreements were signed;
 - After completion of preparatory works in 2018, the information submitted since January 2019 is integrated into the State Statistical Committee database through special software developed for this purpose;
 - From mid-2019, the scope of use of the new method was further expanded and applied in Khirdalan, Sumgait, Ganja, Mingchevir cities and Dashkesen, Zaqatala, Guba, Barda, Imishli, Saatli regions.

Use of electronic databases of trade networks for statistical purposes:

Conclusion of partnership agreements between the State Statistical Committee and trade networks for the aim to obtain data on retail prices in electronic form from the databases of trade networks



AGREEMENT

Between the State Statistical Committee of the Republic of Azerbaijan and large trade networks on the submission of information in electronic form on retail prices of sold products

1. General provisions

This agreement was signed by the State Statistical Committee of the Republic of Azerbaijan and "Rahat", "Bravo", "Araz", "Eresco", "Sabat", "Neptun", "Bizim market", "Makromark" and "Megastore" supermarket chains (hereinafter referred to as trade networks). The purpose of this Agreement is to provide information in electronic form to the State Statistical Committee in accordance with Part 4 of Article 11 of the Law of the Republic of Azerbaijan "On Official Statistics" on retail prices of products sold by trade networks.

2. Obligations arising from the terms of this agreement

2.1. Trade networks undertake to submit information on retail prices in electronic form to the State Statistical Committee of the Republic of Azerbaijan in accordance with the conditions specified in parts 3 and 4 of this Agreement.

2.2. The State Statistical Committee of the Republic of Azerbaijan guarantees the confidentiality of information on retail prices obtained from trade networks and their general use in accordance with the Law of the Republic of Azerbaijan "On Official Statistics".

3. Organization of data submission

3.1. In accordance with this Agreement, information on retail prices available in electronic form in trade networks shall be provided by them to the State Statistical Committee by e-mail, and if this is not possible due to technical reasons, to the authorized representative of the Committee by electronic carrier.

3.2. The information provided by trade networks must be in Excel format, but may be submitted in other formats by mutual agreement of the parties.

3.3. Data by trade networks must be submitted to the State Statistical Committee three times a month (on the 10th, 20th and 30th of each month (last day of February). When these dates fall on a non-working day, the information is provided on the business day preceding the non-working day.

4. The content of the provided information

4.1. The information submitted to the State Statistical Committee in the form of the following table must indicate the name of the product, barcode, unit of measurement, retail price (including VAT), trademark characteristics and the name of the country of origin.

Conditional example:

Name	Barcode	Unit of measurement	Retail price in manata, one percent accuracy	Trade mark	Specification -	Producing country
Butter	9415007005848	1000gr	18,24	Anchor	In packaged form, fat content 82.5%	New Zealand
Wheat flour	2100000071876	1000gr	0,59	Karmen	Not packaged, extra class	Azerbaijan

* The fat content of milk and dairy products, the type of flour and flour products are indicated.

5. Final provisions

5.1. This agreement shall enter into force on the date of its signing and, if necessary, may be amended or modified by mutual consent of the parties.

5.2. This Agreement is drawn up in the Azerbaijani language in 10 (ten) copies and 1 (one) copy is kept by each of the parties.

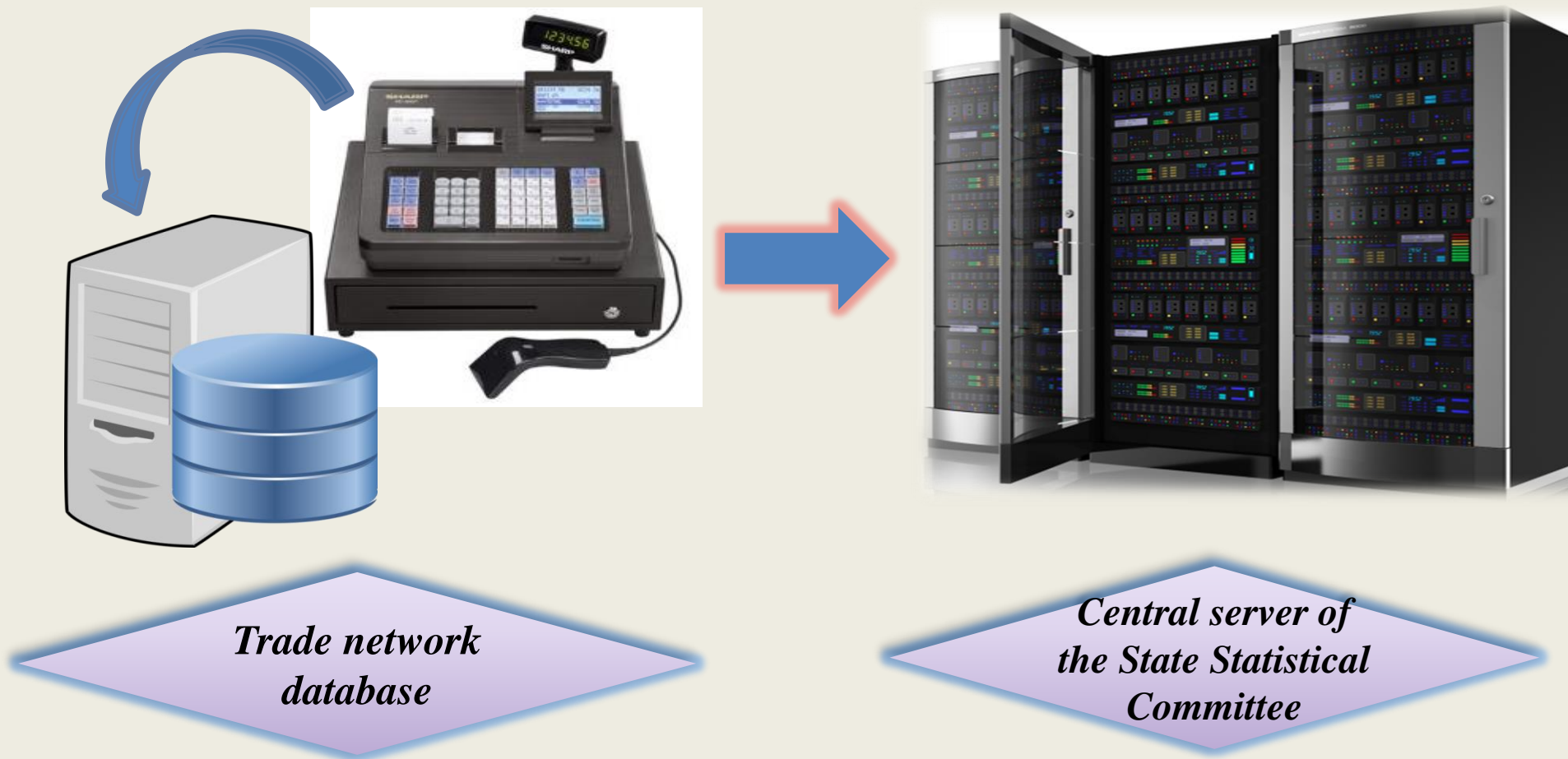
Chairman of the State Statistical Committee of the Republic of Azerbaijan
Mr. Tahir Budagov

22 January 2018

Director of "_____"
trade network Mr. _____

"_____" 2018

Direct obtaining of data on retail prices in electronic form from the databases of trade networks



Codes (barcodes) used
by the trade network

COICOP classification codes
applied in the State Statistical
Committee



country code

manufacturer's
code

product
code

*Corresponding tables
are created to integrate
into the database of the
State Statistical
Committee*

10114122 (code of the product
according to statistical
classification)

Advantages

- *data collection costs and time are saved;*
- *the number of the types of price-monitored products are observed is significantly increasing (from 43534 to 501939);*
- *accuracy in calculations increases, possible errors accruing from human factor are eliminated;*
- *there is an opportunity to involve free price registrars in other statistical surveys;*
- *physical contact is minimized during primary data collection;*
- *during the Covid-19 pandemic the use of this method becomes even more relevant.*

Use of alternative data sources in primary data collection

Internet resources are also used for collection of primary data on prices



The websites of the relevant retailers of price-monitored products and services (for example: home appliances, telephone sets, data processing equipment, passenger cars, air and railway passenger transportation and etc.) are also used to collect and verify primary data.

Electronic control tables for checking primary data

Ərzaq, qeyri-ərzaq məhsullarının qiymətlərinin və əhalıya göstərilən ödənişli xidmətlərin qiymət və tariflərinin müşahidəsi forması (aylıq) (v.1.71)

Seçin... 1.5 BAX EXCELL-ə köçür Səhflərə bax

2018 Fevral 10 günlük

Nəzarət

Ərzaq

Məhsulun növü...

Məlumat bazası

Qiymətə görə

Bütün ərazilər üzrə...

Səhifə № 1

Dücləşdir...

Bulletenlər Katalog Bax

Hesabata daxil ol...

Üzüm Qara üzüm dəyişiklik qeydi alındı.

Say	Qeydiyyatçı	Obyekti	Ərazi	Məhsul	Adı	Sıra	Növ	İzah	Ölçü vahidi (əvvəlki ay)	Qiymət (əvvəlki ay)	Ölçü vahidi (indiki ay)	Qiymət (indiki ay)	Yadda saxla	Sil	Səhifə
1.	(1000017) Bərdənov Teymur	(003) Meyvə tərəvəz kəpiz	307	10118151	Heyvə	1	Yerli	Cobuxlar	1000.0	0.80	1000.0	1.20	✓	✖	👍
2.	(1000042) İsmayilov Nəzi	(001) Mikayilov Səhəyvan "Bazar" hand tədarük məhsul	410	10118131	Alma	1	Yerli	İsmayilov Səhəyvan	1000.0	1.00	1000.0	1.50	✓	✖	👍
3.	(1000047) Hüseynov Teymur	(002) Nəsimi bəzən	503	10117132	İstifadədə yığılma xıyar	4	İstir	İstir	1000.0	1.80	1000.0	3.50	✓	✖	👍
4.	(1000047) Hüseynov Teymur	(002) Nəsimi bəzən	503	10117150	Süfrə çəndirici	1	Yerli	Təvəz	1000.0	0.60	1000.0	1.00	✓	✖	👍
5.	(1000052) Həmzəyeva Səfa	(073) Optimal məhsul Əhmədov Hidayət	507	10117172	Baq soğan	1	Yerli	Yeni məhsul	1000.0	0.40	1000.0	0.60	✓	✖	👍
6.	(1000050) İbadov Emin	(007) Əli Fəzail	608	10118153	Xurma	1	Yerli	Yeni	1000.0	1.00	1000.0	1.50	✓	✖	👍
7.	(1000054) Bərdənov Rəhim	(002) Bərdənov Mircə	804	10118113	Narinci	1	Yerli	Bərdənov	1000.0	1.00	1000.0	1.50	✓	✖	👍
8.	(1000071) Bərdənov Səvda	(053) Aran məhsul	808	10117121	Qıymət	1	Yerli	Qıymət	1.0	0.06	1.0	0.10	✓	✖	👍
9.	(1000071) Bərdənov Səvda	(053) Aran məhsul	808	10117172	Baq soğan	2	Yerli	Yeni soğan	1000.0	0.40	1000.0	0.60	✓	✖	👍
10.	(1000076) Məmmədova Üzeyir	(003) Bazar	903	10118132	Armut	2	Yerli	Armut	1000.0	2.00	1000.0	3.00	✓	✖	👍
11.	(1000088) Seyidov Azər	(038) "Həm" qıymət məhsul - Bazar	303	10118153	Xurma	1	Yerli	Xurma	1000.0	0.90	1000.0	1.50	✓	✖	👍
(1000091)	(035) Meyvə tərəvəz						Yerli						✓	✖	👍

Software for re-checking prices that exceed the average growth (decrease) rate (5-10%) by product type

Ərzaq, qeyri-ərzaq məhsullarının qiymətlərinin və əhalıya göstərilən ödənişli xidmətlərin qiymət və tariflərinin müşahidəsi forması (aylıq) (v.1.71)

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Say	Qeydiyyatçı	Obyekti	Ərazi	Sıra	Növ	İzah	Ölçü vahidi (əvvəlki ay)	Qiymət (əvvəlki ay)	Ölçü vahidi (indiki ay)	Qiymət (indiki ay)	Yadda saxla	Sil	Səhifə
1.	(1000011) Hüseynov Vüsal	(012) Bursa məhsul Rəhmətli 12	001	3	İstir	Zeytun	500.0	7.38	500.0	7.38	✓	✖	👍
2.	(1000011) Hüseynov Vüsal	(012) Bursa məhsul Rəhmətli 12	001	4	İstir	Consul	800.0	10.25	800.0	10.25	✓	✖	👍
3.	(1000011) Hüseynov Vüsal	(020) Fərid məhsul Nəvəzli 119	001	1	Yerli	Zeytun Bazar	750.0	6.40	0.0	0.00	✓	✖	👍
4.	(1000011) Hüseynov Vüsal	(020) Fərid məhsul Nəvəzli 119	001	2	Yerli	Zeytun Bazar	500.0	5.70	0.0	0.00	✓	✖	👍
5.	(1000011) Hüseynov Vüsal	(020) Fərid məhsul Nəvəzli 119	001	3	Yerli	Zeytun Bazar	1000.0	11.20	0.0	0.00	✓	✖	👍
6.	(1000011) Hüseynov Vüsal	(021) Nəzi məhsul Rəhmətli 17	001	4	Yerli	Zeytun Bazar	1000.0	10.50	0.0	0.00	✓	✖	👍
7.	(1000011) Hüseynov Vüsal	(021) Nəzi məhsul Rəhmətli 17	001	6	Yerli	Zeytun Bazar	750.0	8.10	0.0	0.00	✓	✖	👍
8.	(1000011) Hüseynov Vüsal	(021) Nəzi məhsul Rəhmətli 17	001	7	Yerli	Zeytun Bazar	500.0	5.60	0.0	0.00	✓	✖	👍
9.	(1000011) Hüseynov Vüsal	(022) Sənan məhsul Mənsəli 5	001	4	Yerli	Zeytun Bazar	1000.0	11.00	0.0	0.00	✓	✖	👍
10.	(1000011) Hüseynov Vüsal	(022) Sənan məhsul Mənsəli 5	001	5	Yerli	Zeytun Bazar	750.0	8.00	0.0	0.00	✓	✖	👍
11.	(1000011) Hüseynov Vüsal	(022) Sənan məhsul Mənsəli 5	001	6	Yerli	Zeytun Bazar	500.0	6.00	0.0	0.00	✓	✖	👍
12.	(1000011) Hüseynov Vüsal	(055) Ərənd məhsul Q. Qarayev 84	001	5	Yerli	Zeytun Bazar	750.0	8.30	0.0	0.00	✓	✖	👍
13.	(1000011) Hüseynov Vüsal	(055) Ərənd məhsul Q. Qarayev 84	001	6	Yerli	Zeytun Bazar	1000.0	10.70	0.0	0.00	✓	✖	👍

Software for re-checking suspicious figures resulted from comparing prices in different trade networks for the same product or service

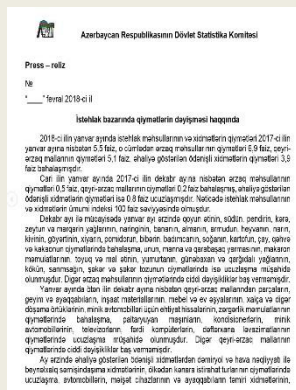
Data processing

Final indicators are disseminated through press release, interactive spreadsheets, statistical bulletins and yearbooks. All information is posted on the Committee's website

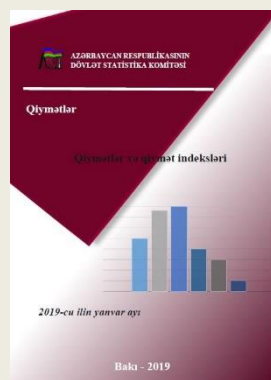


$$I_{it} = \frac{\sum P_{i0} q_{i0}}{\sum P_{i0} q_{i0}} \times 100$$

Dissemination of information



Press release



Statistical bulletin



Statistical yearbook



Web site of the SSC

Thank you for your attention!