



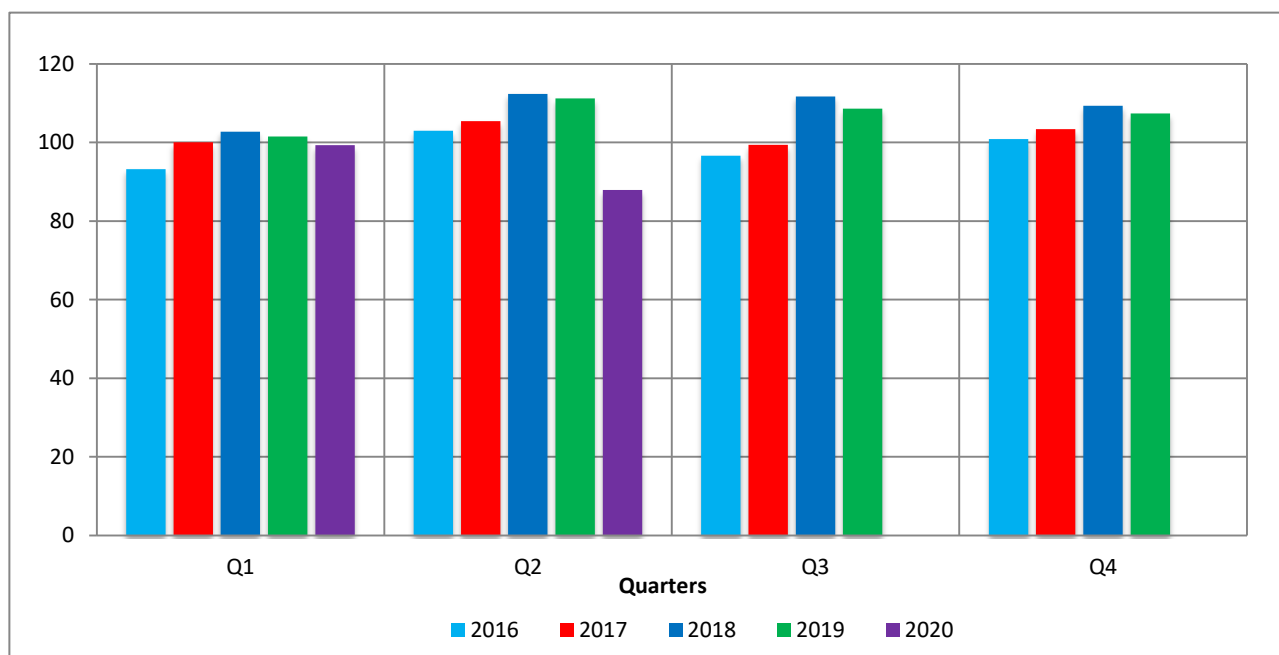
## PRESS RELEASE

### TURNOVER INDEX IN WHOLESALE TRADE: 2<sup>nd</sup> quarter 2020, annual decrease 21.0%

The Hellenic Statistical Authority announces the Turnover Index in Wholesale Trade with base year 2015=100.0 for the 2<sup>nd</sup> quarter 2020, the evolution of which according to provisional and working day adjusted data, is as follows:

- The Turnover Index in Wholesale Trade of the 2<sup>nd</sup> quarter 2020, compared with the corresponding index of the 2<sup>nd</sup> quarter 2019, decreased by 21.0%, while, compared with the corresponding index of the 1<sup>st</sup> quarter 2020, decreased by 11.5% (Table 1).
- The seasonally adjusted Turnover Index of the 2<sup>nd</sup> quarter 2020, compared with the corresponding index of the 1<sup>st</sup> quarter 2020, decreased by 19.2% (Table 1).

**Graph 1.** Evolution of Turnover Index in the Wholesale Trade (2015=100.0)



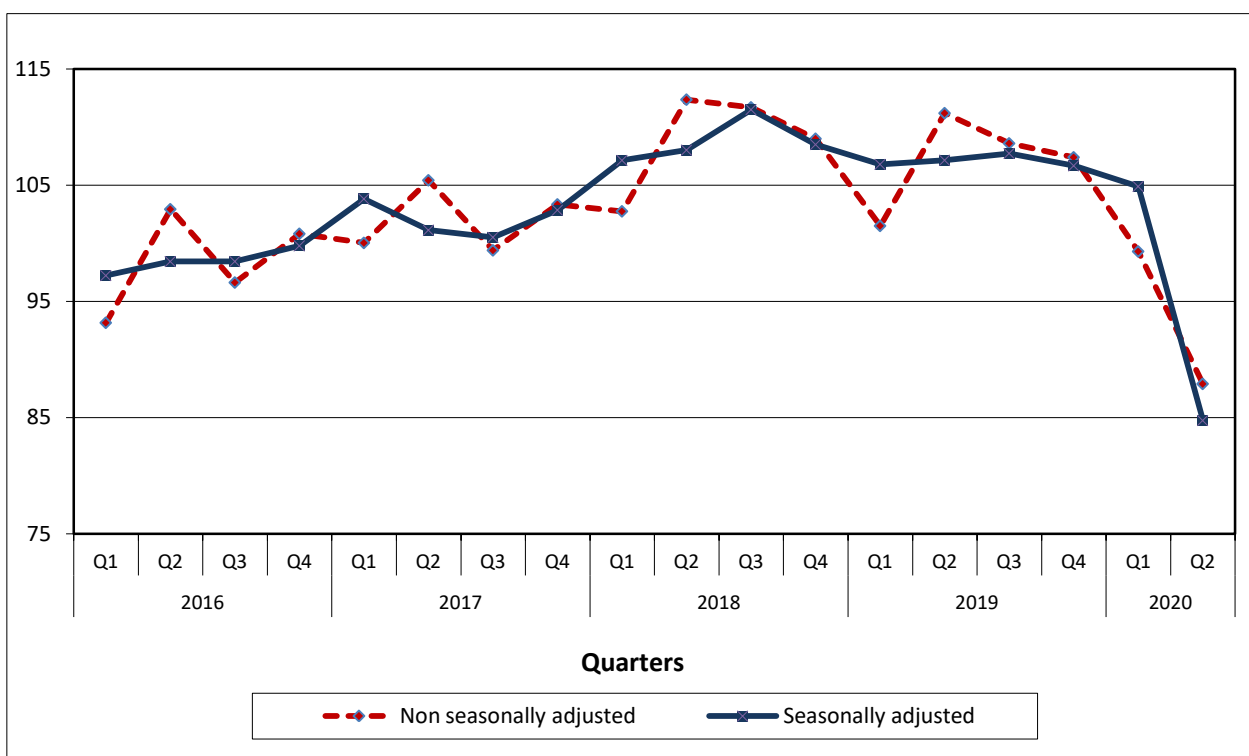
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**Graph 2:** Evolution of seasonally and non seasonally adjusted Turnover Index in Wholesale Trade (2015=100.0)



It should be noted, that the timeseries of the seasonally adjusted index is recalculated every time a new observation is added and could differ from 100 for the base year, as seasonal effect is not the same each year. Therefore, the seasonally adjusted data differ from the published data of the Press Release of the previous quarter.

**Table 1. Evolution of Turnover Index in Wholesale Trade**  
(Data adjusted for working days)

Base year: 2015=100.0

Year / Quarter		Indices	Annual Rates of Change (%)	Quarterly Rates of Change (%)	Seasonally Adjusted Indices	Quarterly Rates of Change (%)
2016	Q1	93.2	-4.7	-8.2	97.2	-2.7
	Q2	102.9	-3.6	10.5	98.4	1.2
	Q3	96.6	2.8	-6.1	98.4	0.0
	Q4	100.8	-0.7	4.3	99.8	1.4
<b>Annual average</b>		<b>98.4</b>	<b>-1.6</b>		<b>98.5</b>	
2017	Q1	100.0	7.4	-0.8	103.8	4.0
	Q2	105.4	2.4	5.4	101.1	-2.6
	Q3	99.4	2.9	-5.7	100.5	-0.6
	Q4	103.3	2.5	4.0	102.9	2.3
<b>Annual average</b>		<b>102.0</b>	<b>3.7</b>		<b>102.1</b>	
2018	Q1	102.8	2.7	-0.6	107.1	4.2
	Q2	112.4	6.6	9.4	108.0	0.8
	Q3	111.7	12.4	-0.6	111.5	3.2
	Q4	109.0	5.5	-2.4	108.5	-2.7
<b>Annual average</b>		<b>109.0</b>	<b>6.9</b>		<b>108.8</b>	
2019	Q1	101.5	-1.3	-6.9	106.8	-1.6
	Q2	111.2	-1.1	9.6	107.1	0.3
	Q3	108.6	-2.8	-2.3	107.7	0.5
	Q4	107.4	-1.5	-1.1	106.7	-1.0
<b>Annual average</b>		<b>107.2</b>	<b>-1.7</b>		<b>107.1</b>	
2020:	*Q1	99.3	-2.2	-7.5	104.9	-1.7
	**Q2	87.9	-21.0	-11.5	84.7	-19.2

\* Revised data

\*\* Provisional data

Note: The indices and the percentage changes are published rounded up to one decimal digit.

## METHODOLOGICAL NOTES

<b>Generally</b>	The Wholesale Turnover Index is a quarterly index, which was first released in 2006, with base year (b.y.) the year 2005=100.0.
<b>Purpose of the index – definitions</b>	The purpose of this index is to measure in value terms the activity of wholesale trade in the market. The turnover excludes VAT and comprises the totals invoiced by the enterprise during the reference period (quarter), which correspond to sales of goods or services supplied to third parties.
<b>Legal framework</b>	The compilation of the wholesale turnover index is governed by the Council Regulation (EC) 1165/98 of 19 <sup>th</sup> May 1998 concerning “Short Term Statistics” and by the Regulation (EC) 1158/05 of the European Parliament and Council, amending the original Regulation 1165/98. Additionally, the compilation of the above index is governed by the Regulation 1893/2006 of the European Parliament and of the Council of 20 <sup>th</sup> December 2006, establishing the statistical classification of economic activities NACE Rev.2.
<b>Reference period</b>	Quarter.
<b>Base year</b>	2015=100.0.
<b>Revision</b>	Pursuant to the provisions of Council Regulation 1165/98 concerning “Short Term Statistics”, the index is revised every five (5) years, in years ending in 0 or 5. The purpose of revising the wholesale turnover index is to adapt the index to recent developments as regards the structure of wholesale trade.
<b>Statistical classification</b>	The NACE Rev.2 statistical classification of economic activities is used, in conformity with the Regulation (EC) 1893/2006 of the Council and of the European Parliament.
<b>Geographical coverage</b>	The index covers the whole of the country with data coming from 54 Regional Units.
<b>Coverage of economic activities</b>	The index covers the division 46 (wholesale trade, except of motor vehicles and motorcycles) of NACE Rev.2 statistical classification of economic activities.
<b>Statistical survey</b>	The index includes 15,911 wholesale trade enterprises, with an annual turnover (in year 2015) equal or greater than 300,000€, from which a random representative sample of 520 enterprises was therefore selected and surveyed.
<b>Data collection, processing and imputation in the context of the COVID-19 pandemic</b>	The compilation of the indices was based on data collected by enterprises, administrative sources and the use of an estimation method for the calculation of the missing data. For the 2 <sup>nd</sup> quarter 2020 few estimations of data at enterprise level were used, at group and stratum level (class), based on collected data by enterprises. In the revised results of 1 <sup>st</sup> quarter 2020, published in the current Press Release, newly collected data by enterprises have been incorporated.
<b>Calculating the indices</b>	The index is calculated by the implementation of the chaining method. The index is reduced to a typical quarter of equal duration by multiplying the turnover estimates for the current quarter by an appropriate correction coefficient. This coefficient is calculated through the division of the average quarterly number of working days for the current year by the number of regular working days of the examined quarter.
<b>Seasonal Adjustment</b>	Seasonal adjustment is the procedure followed to remove the impact of seasonality on the time series (after eliminating the seasonal effects, e.g: the beginning of the school year, holidays, tourist period. etc) in order to improve the comparability over time. The method applied is the TRAMO-SEATS with the use of JDemetra+ 2.0.0. The whole timeseries of the seasonally adjusted index is recalculated every time a new observation is added into the timeseries.
<b>Seasonal adjustment in the context of the COVID-19 pandemic</b>	<p>The COVID-19 outbreak has a sever impact on several economic activities. Given the fact that, calendar and seasonal adjustment corresponds to predictable and recurrent phenomena, the impact of COVID-19 pandemic, as an extraordinary phenomenon, shall not be included in the calendar or seasonal component of the time-series.</p> <p>According to the methodological recommendations and guidance of the European Statistical Service (Eurostat) on time-series treatment in the context of the COVID-19 pandemic, this impact is strongly suggested to be treated as outlier and be included in the trend-cycle component or in the irregular, depending on the type of outlier.</p> <p>During the seasonal adjustment of time-series for the 2<sup>nd</sup> quarter 2020, outliers were determined (additive outliers) in cases where it was deemed appropriate, based on statistical criteria and economic information. As new observations will become available and will be added in the time-series, the type of outliers may change (from additive outlier to a transitory change or a level shift), depending on the evolution of the phenomenon, which may result in significant revisions, only to the already published seasonally adjusted data (Table 1, and Graph 2).</p>

<b>Compiled index series</b>	The timeseries of the index are compiled from the 1 <sup>st</sup> quarter 2000 with base year 2015=100.0.
<b>Publication of data</b>	The Wholesale Turnover Index (b.y. 2015=100.0) is released quarterly since the 3 <sup>rd</sup> quarter 2018, with retrospective data from the 1 <sup>st</sup> quarter 2000.
<b>References</b>	More information on the methodology for compiling and calculating the Wholesale Turnover Index. as well as on the timeseries of the index. can be found on ELSTAT's website: <a href="http://www.statistics.gr/en/statistics/-/publication/DKT42/">http://www.statistics.gr/en/statistics/-/publication/DKT42/</a>