

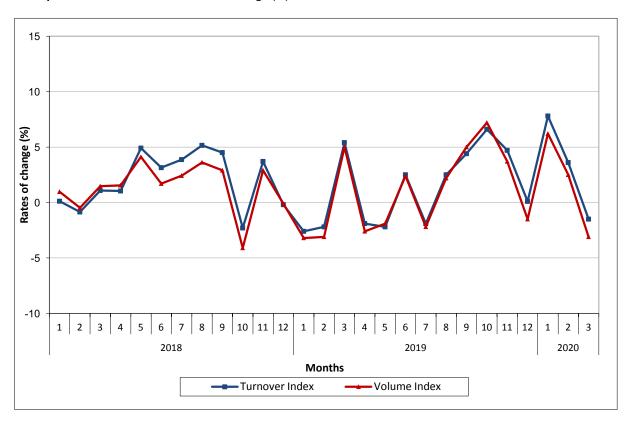
### **PRESS RELEASE**

# TURNOVER INDEX IN RETAIL TRADE: March 2020, y-o-y decrease 1.5%

The Hellenic Statistical Authority (ELSTAT) announces the Turnover and Volume Indices in Retail Trade with base year 2015=100.0 for March 2020 according to provisional and reduced data to a typical month as follows:

- The Overall Turnover Index in Retail Trade in March 2020 decreased by 1.5%, compared with the corresponding index of March 2019, while, compared with the corresponding index of February 2020 increased by 0.7% (Tables 1, 2).
- The Overall Volume Index in Retail Trade (i.e. turnover in retail trade at constant prices) in March 2020, decreased by 3.1%, compared with the corresponding index of March 2019, while, compared with the corresponding index of February 2020, decreased by 2.0% (Tables 1, 2).
- The seasonally adjusted Overall Turnover Index in March 2020, compared with the corresponding index of February 2020, decreased by 0.4% (Table 5).
- The seasonally adjusted Overall Volume Index in March 2020, compared with the corresponding index of February 2020, decreased by 0.7% (Table 5).

Graph 1. Evolution of annual rates of change (%) for Turnover and Volume Overall Indices in Retail Trade



### Information for methodological issues:

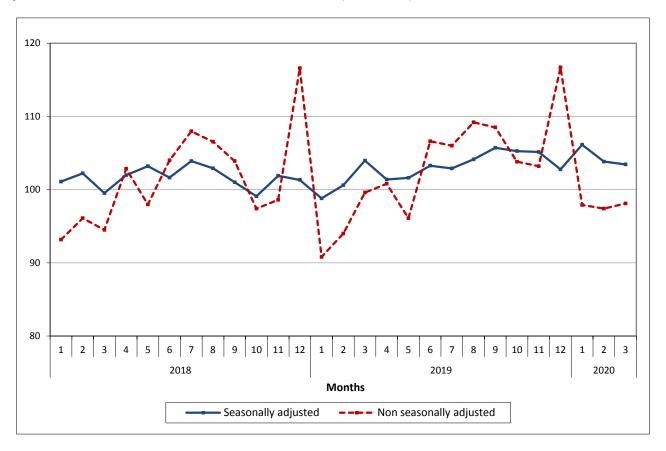
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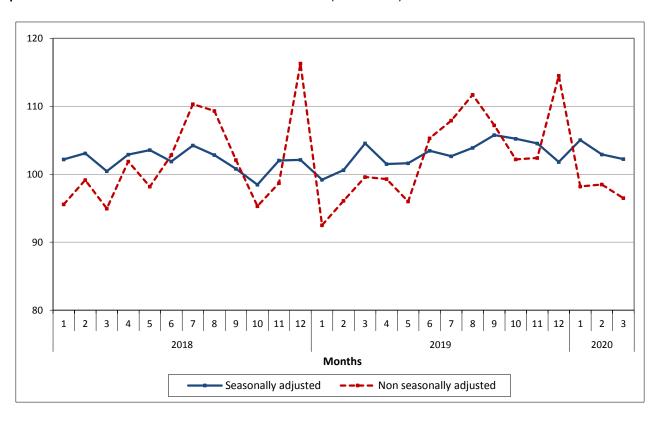
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Graph 2. Evolution of the Overall Turnover Index in Retail Trade (2015=100.0)



Graph 3. Evolution of the Overall Volume Index in Retail 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 month.

# 1. Annual comparison of the Turnover Index in Retail Trade

(Turnover at current prices)

The 1.5% decrease of the Turnover Index in March 2020 compared with the corresponding index in March 2019 is mainly due to the changes in the following store categories:

Specialized store categories	Annual rates of change %
Books, Stationery, other goods	-17.9
Automotive fuel	-15.2
Food, beverages, tobacco	-12.2
Pharmaceutical products, cosmetics	14.9
Supermarkets	22.1

# 2. Annual comparison of the Volume Index in Retail Trade

(Turnover at constant prices)

The 3.1% decrease of the Volume Index in March 2020 compared with the corresponding index in March 2019 is mainly due to the changes in the following store categories:

Specialized store categories	Annual rates of change %
Books, Stationery, other goods	-16.9
Food, beverages, tobacco	-13.3
Automotive fuel	-11.5
Pharmaceutical products, cosmetics	13.8
Supermarkets	20.5

**Table 1.** Annual rates of change of Turnover Index and Volume Index in Retail Trade (Data adjusted for working days)

	7	Turnover Index		,	olume Index	
Retail Trade Store Categories	March	March	Annual rates of change	March	March	Annual rates of change
	2020*	2019	(%)	2020*	2019	(%)
Overall Index	98.1	99.6	-1.5	96.5	99.6	-3.1
Overall Index except automotive fuel	101.1	99.3	1.8	99.4	100.0	-0.6
I. Main store categories						
Food sector	121.3	103.8	16.9	118.8	102.8	15.6
Automotive fuel	86.0	101.4	-15.2	84.3	95.3	-11.5
Non-food sector except automotive fuel	81.5	93.9	-13.2	83.0	99.2	-16.3
II. Specialized store categories						
Supermarkets	130.8	107.1	22.1	129.5	107.5	20.5
Department stores	67.6	86.3	-21.7	68.5	91.7	-25.3
Automotive fuel	86.0	101.4	-15.2	84.3	95.3	-11.5
Food, beverages, tobacco	74.0	84.3	-12.2	71.4	82.4	-13.3
Pharmaceutical products, cosmetics	110.2	95.9	14.9	112.5	98.9	13.8
Clothing and footwear	47.6	83.3	-42.9	43.8	87.2	-49.8
Furniture, electrical equipment, household equipment	81.9	96.6	-15.2	89.7	104.0	-13.8
Books, Stationery, other goods	88.2	107.4	-17.9	95.6	115.0	-16.9
Retail sales not in stores	111.9	122.6	-8.7	:	:	:

<sup>\*</sup>Provisional data.

<sup>:</sup> Volume Index for the "Retail sales not in stores" is not calculated.

**Table 2.** Monthly rates of change of Turnover Index and Volume Index in Retail Trade (Data adjusted for working days)

			.013=100.0			
	Т	urnover Inde	x		Volume Index	
Retail Trade Store Categories	March	February	Monthly rates of change	March	February	Monthly rates of change
	2020*	2020**	(%)	2020*	2020**	(%)
Overall Index	98.1	97.4	0.7	96.5	98.5	-2.0
Overall Index except automotive fuel	101.1	98.1	3.1	99.4	100.1	-0.7
I. Main store categories						
Food sector	121.3	103.4	17.3	118.8	100.9	17.7
Automotive fuel	86.0	95.4	-9.9	84.3	88.5	-4.7
Non-food sector except automotive fuel	81.5	92.0	-11.4	83.0	104.6	-20.7
II. Specialized store categories						
Supermarkets	130.8	109.0	20.0	129.5	107.5	20.5
Department stores	67.6	70.8	-4.5	68.5	83.6	-18.1
Automotive fuel	86.0	95.4	-9.9	84.3	88.5	-4.7
Food, beverages, tobacco	74.0	74.6	-0.8	71.4	71.5	-0.1
Pharmaceutical products. cosmetics	110.2	99.9	10.3	112.5	102.2	10.1
Clothing and footwear	47.6	82.0	-42.0	43.8	109.5	-60.0
Furniture, electrical equipment, household equipment	81.9	91.0	-10.0	89.7	101.7	-11.8
Books, Stationery, other goods	88.2	112.6	-21.7	95.6	123.1	-22.3
Retail sales not in stores	111.9	106.0	5.6	:	:	:

<sup>\*</sup>Provisional data.

<sup>\*\*</sup>Revised data.

<sup>:</sup> Volume Index for the "Retail sales not in stores" is not calculated.

**Table 3.** Evolution of the Turnover Index in Retail Trade (Data adjusted for working days)

		Base year: 2015=100.0									-100.0
Year and month		Overall Index		Overall Index except automotive fuel		Food sector			otive fuel ector	Non-food sector except automotive fuel	
			Annual rates of change (%)		Annual rates of change (%)	Indices	Annual rates of change (%)	Indices	Annual rates of change (%)	Indices	Annual rates of change (%)
2018:	1	93.2	0.1	92.0	-0.1	89.9	-2.1	99.8	2.3	94.6	2.5
	2	96.1	-0.9	96.0	-0.5	99.0	-0.4	98.0	-1.2	92.6	-0.5
	3	94.5	1.1	95.5	2.3	96.3	2.5	91.2	-3.2	94.9	2.2
	4	102.8	1.0	104.0	0.9	106.1	1.8	99.3	2.7	101.6	0.0
	5	98.0	4.9	98.7	4.2	99.5	6.0	96.0	9.5	98.0	2.2
	6	104.0	3.1	104.6	2.3	105.8	4.2	102.9	8.2	103.3	0.3
	7	108.0	3.9	108.2	2.8	107.1	3.4	108.3	10.3	109.9	2.3
	8	106.5	5.2	106.1	4.4	112.3	6.0	110.0	9.4	98.9	2.7
	9	103.9	4.5	104.1	3.6	107.5	6.1	104.6	10.2	99.5	-0.1
	10	97.4	-2.3	97.1	-2.6	95.6	-1.8	100.0	0.1	96.8	-5.7
	11	98.6	3.7	99.2	4.2	91.6	4.7	97.2	2.1	104.5	-0.4
	12	116.6	-0.2	118.7	-0.6	112.0	1.7	108.6	2.7	122.9	-6.2
Annual average		101.6	2.0	102.0	1.7	101.9	2.7	101.3	4.3	101.5	-0.2
2019:	1	90.8	-2.6	89.9	-2.3	90.4	0.6	95.3	-4.5	88.1	-6.9
	2	94.0	-2.2	93.0	-3.1	93.7	-5.4	98.8	0.8	91.0	-1.7
	3	99.6	5.4	99.3	4.0	103.8	7.8	101.4	11.2	93.9	-1.1
	4	100.8	-1.9	101.7	-2.2	103.8	-2.2	97.9	-1.4	98.2	-3.3
	5	96.1	-1.9	96.4	-2.3	96.9	-2.6	95.3	-0.7	94.6	-3.5
	6	106.6	2.5	106.9	2.2	109.7	3.7	106.0	3.0	102.7	-0.6
	7	106.0	-1.9	106.4	-1.7	106.6	-0.5	105.1	-3.0	104.6	-4.8
	8	109.2	2.5	109.2	2.9	115.1	2.5	110.1	0.1	102.3	3.4
	9	108.5	4.4	109.2	4.9	109.0	1.4	105.9	1.2	107.7	8.2
	10	103.8	6.6	103.8	6.9	101.8	6.5	104.8	4.8	104.1	7.5
	11	103.2	4.7	104.6	5.4	94.6	3.3	97.7	0.5	112.0	7.2
	12	116.7	0.1	118.2	-0.4	108.9	-2.8	111.0	2.2	124.7	1.5
Annual average		102.9	1.3	103.2	1.2	102.8	0.9	102.4	1.1	102.0	0.5
2020:	1	97.9	7.8	96.4	7.2	94.1	4.1	106.0	11.2	97.1	10.2
	2**	97.4	3.6	98.1	5.5	103.4	10.4	95.4	-3.4	92.0	1.1
	3*	98.1	-1.5	101.1	1.8	121.3	16.9	86.0	-15.2	81.5	-13.2

<sup>\*</sup>Provisional data.

<sup>\*\*</sup>Revised data.

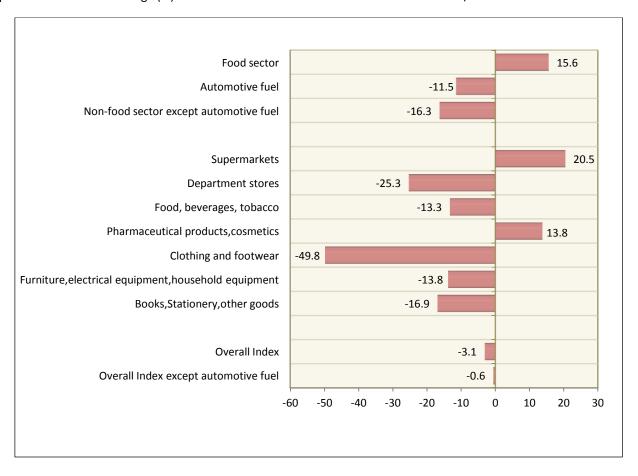
**Table 4.** Evolution of the Volume Index in Retail Trade (Data adjusted for working days)

Year and month		Over	all Index	ex	all Index scept otive fuel	Food	l sector		notive fuel ector	Non-food sector except automotive fuel	
		Indices	Annual rates of change (%)	Indices	Annual rates of change (%)	Indices	Annual rates of change (%)	Indices	Annual rate of change (%)	Indices	Annual rates of change (%)
2018:	1	95.6	1.0	95.2	0.9	89.9	-1.7	94.8	2.2	104.0	4.8
	2	99.2	-0.5	99.9	-0.1	99.0	-0.1	93.3	-1.0	103.3	0.5
	3	94.9	1.5	96.5	2.8	96.4	2.8	87.4	-3.4	98.4	3.7
	4	101.9	1.5	103.6	1.7	106.3	2.5	93.4	1.3	101.8	1.2
	5	98.2	4.1	100.0	4.1	99.5	5.5	87.5	2.6	102.2	2.9
	6	102.8	1.7	104.6	1.9	106.0	3.1	92.2	-2.2	104.4	1.2
	7	110.3	2.4	112.3	2.5	106.9	2.2	97.1	-1.1	121.9	3.7
	8	109.3	3.6	110.6	3.9	112.2	5.3	98.6	-1.0	111.1	2.8
	9	102.1	2.9	103.5	3.0	106.9	5.1	93.5	0.8	100.8	0.6
	10	95.3	-4.1	96.1	-3.6	94.8	-3.4	88.5	-9.2	97.3	-5.3
	11	98.7	2.9	100.3	3.9	91.7	4.3	89.5	-2.1	109.9	1.1
	12	116.3	-0.1	118.9	-0.6	112.5	1.5	105.1	3.9	124.7	-5.6
Annual average		102.1	1.5	103.4	1.6	101.8	2.2	93.4	-0.8	106.6	0.8
2019:	1	92.5	-3.2	91.9	-3.5	89.3	-0.7	93.8	-1.1	97.8	-6.0
	2	96.1	-3.1	95.6	-4.3	92.3	-6.8	96.1	3.0	103.0	-0.3
	3	99.6	5.0	100.0	3.6	102.8	6.6	95.3	9.0	99.2	0.8
	4	99.3	-2.6	101.0	-2.5	103.0	-3.1	88.6	-5.1	99.8	-2.0
	5	96.0	-2.2	97.5	-2.5	96.7	-2.8	85.4	-2.4	99.6	-2.5
	6	105.3	2.4	106.5	1.8	109.2	3.0	97.2	5.4	104.8	0.4
	7	107.9	-2.2	109.7	-2.3	106.6	-0.3	95.7	-1.4	116.5	-4.4
	8	111.7	2.2	113.2	2.4	115.2	2.7	99.9	1.3	115.2	3.7
	9	107.2	5.0	108.8	5.1	108.7	1.7	97.5	4.3	109.5	8.6
	10	102.2	7.2	102.9	7.1	100.9	6.4	96.7	9.3	105.6	8.5
	11	102.4	3.7	104.6	4.3	93.4	1.9	90.3	0.9	117.1	6.6
	12	114.5	-1.5	116.8	-1.8	107.5	-4.4	102.4	-2.6	126.2	1.2
Annual average		102.9	0.8	104.0	0.6	102.1	0.3	94.9	1.6	107.9	1.2
2020:	1	98.2	6.2	97.7	6.3	91.8	2.8	96.5	2.9	108.0	10.4
	2**	98.5	2.5	100.1	4.7	100.9	9.3	88.5	-7.9	104.6	1.6
	3*	96.5	-3.1	99.4	-0.6	118.8	15.6	84.3	-11.5	83.0	-16.3

<sup>\*</sup>Provisional data.

<sup>\*\*</sup>Revised data.

Graph 4. Annual rates of change (%) of the Volume Indices in Retail Trade for March 2020/2019



Graph 5. Monthly rates of change (%) of the Volume Indices in Retail Trade for March 2020/ February 2020

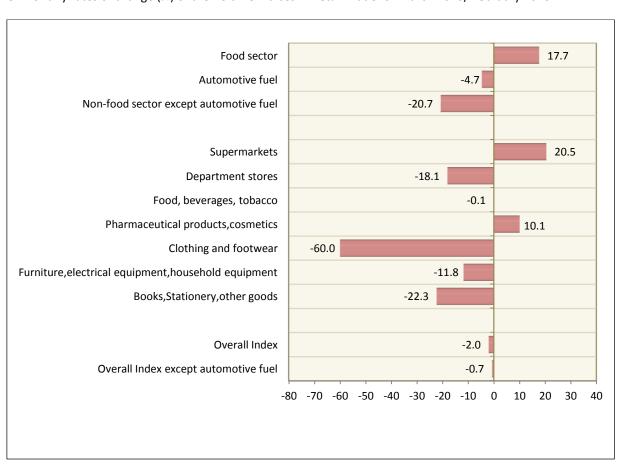


 Table 5. Monthly rates of change of seasonally adjusted Turnover and Volume Indices in Retail Trade

	T	urnover Index	(	Volume Index				
Retail Trade Store Categories	March	February	Monthly rates of change	March	February	Monthly rates of change		
	2020	2020	(%)	2020	2020	(%)		
Overall Index	103.4	103.8	-0.4	102.2	102.9	-0.7		
Overall Index except automotive fuel	106.0	105.8	0.3	105.5	106.9	-1.2		
I. Main store categories								
Food sector	123.5	107.3	15.0	122.0	105.5	15.6		
Automotive fuel	90.8	97.1	-6.6	88.1	89.7	-1.8		
Non-food sector except automotive fuel	88.1	102.9	-14.4	90.3	109.5	-17.6		
II. Specialized store categories								
Supermarkets	131.6	112.0	17.5	131.3	111.5	17.8		
Department stores	79.9	82.9	-3.6	80.0	88.0	-9.1		
Automotive fuel	90.8	97.1	-6.6	88.1	89.7	-1.8		
Food, beverages, tobacco	82.5	82.7	-0.2	79.8	79.3	0.5		
Pharmaceutical products, cosmetics	108.3	106.6	1.6	110.3	109.1	1.1		
Clothing and footwear	58.6	100.5	-41.6	54.9	109.3	-49.8		
Furniture, electrical equipment, household equipment	91.0	110.3	-17.5	100.5	121.0	-16.9		
Books, Stationery, other goods	95.7	120.2	-20.3	104.2	130.8	-20.4		
Retail sales not in stores	117.4	115.1	2.0	:	:	:		

<sup>:</sup> Volume Index for the "Retail sales not in stores" is not calculated.

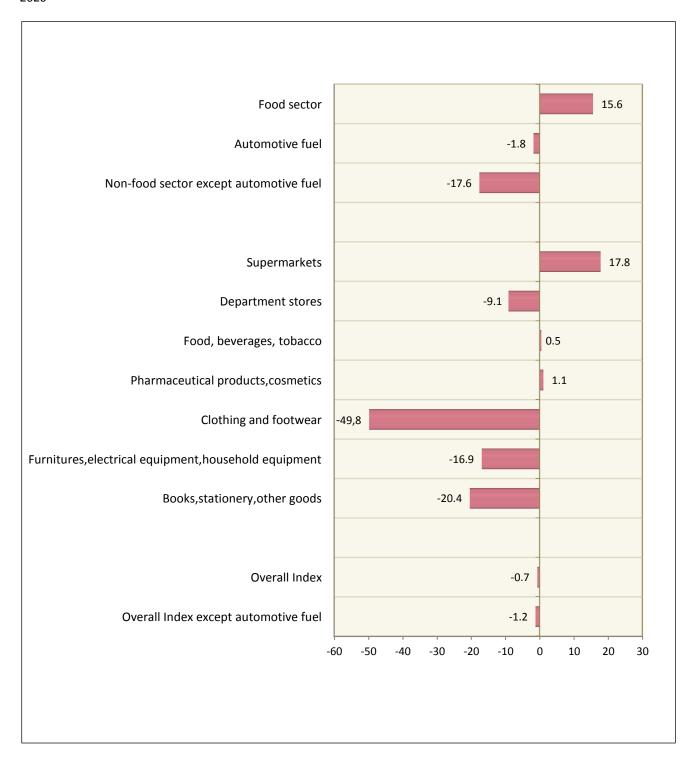
 Table 6. Monthly evolution of the seasonally adjusted Turnover Index in Retail Trade

			Base year: 2015=100.0								15=100.0
Year and mo	Year and month		Overall Index		Overall Index except automotive fuel		Food sector		otive fuel ector	Non-food sector except automotive fuel	
		Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)
2018:	1	101.1	0.4	101.6	0.0	100.2	0.2	99.9	1.2	103.3	-1.3
	2	102.2	1.1	102.7	1.0	103.2	3.0	100.3	0.4	102.2	-1.0
	3	99.5	-2.6	100.6	-2.0	98.0	-5.0	95.6	-4.7	102.6	0.4
	4	102.0	2.5	102.4	1.7	103.2	5.3	102.1	6.8	102.3	-0.3
	5	103.2	1.2	103.6	1.2	104.0	0.8	102.2	0.1	103.0	0.6
	6	101.6	-1.5	101.9	-1.6	101.4	-2.4	101.8	-0.4	102.5	-0.5
	7	103.9	2.2	103.7	1.7	103.0	1.5	105.5	3.7	104.4	1.8
	8	102.9	-1.0	102.8	-0.8	103.1	0.1	103.9	-1.5	102.0	-2.3
	9	101.0	-1.9	101.1	-1.7	102.5	-0.6	103.6	-0.3	99.1	-2.8
	10	99.1	-1.9	99.5	-1.6	99.3	-3.1	99.1	-4.4	97.7	-1.4
	11	101.9	2.8	102.3	2.9	102.2	3.0	99.9	0.8	100.3	2.6
	12	101.3	-0.6	102.2	-0.1	102.9	0.7	101.3	1.4	99.6	-0.7
Annual averag	e	101.6		102.0		101.9		101.3		101.6	
2019:	1	98.8	-2.5	99.9	-2.3	101.3	-1.6	95.3	-5.9	96.7	-2.9
	2	100.6	1.8	100.5	0.7	98.3	-2.9	101.1	6.0	101.2	4.6
	3	104.0	3.3	103.,4	2.9	104.9	6.8	106.6	5.5	101.4	0.2
	4	101.4	-2.5	101.6	-1.7	101.1	-3.7	101.6	-4.7	99.8	-1.6
	5	101.6	0.2	101.,7	0.1	101.5	0.4	101.9	0.3	100.1	0.3
	6	103.3	1.6	103.4	1.6	103.6	2.1	105.1	3.1	101.9	1.8
	7	102.9	-0.4	102.9	-0.4	103.5	-0.1	102.8	-2.2	100.0	-1.9
	8	104.1	1.2	104.4	1.4	103.9	0.4	104.3	1.4	104.3	4.3
	9	105.7	1.5	105.,9	1.5	104.7	0.7	104.3	0.1	105.8	1.4
	10	105.3	-0.4	105.9	0.0	105.5	0.8	103.5	-0.8	104.6	-1.1
	11	105.1	-0.1	106.,0	0.2	104.4	-1.1	100.1	-3.3	106.0	1.3
	12	102.8	-2.3	103.6	-2.3	102.5	-1.8	103.0	2.9	102.0	-3.8
Annual averag	e	103.0		103.3		102.9		102.5		102.0	
2020:	1	106.1	3.3	106.7	3.0	105.5	2.9	104.5	1.5	106.1	4.1
	2	103.8	-2.2	105.8	-0.9	107.3	1.7	97.1	-7.1	102.9	-3.1
	3	103.4	-0.4	106.0	0.3	123.5	15.0	90.8	-6.6	88.1	-14.4

 Table 7. Monthly evolution of the seasonally adjusted Volume Index in Retail Trade

		Base year: 2015								13-100.0	
Year and month		Overa	all Index	е	rall Index except notive fuel	Food	l sector		notive fuel ector	Non-food sector except automotive fuel	
		Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)	Indices	Monthly rates of change (%)
2018:	1	102.2	0.7	103.5	0.4	100.6	0.7	94.4	1.4	108.7	-0.2
	2	103.1	0.9	104.0	0.5	104.0	3.4	94.5	0.1	106.2	-2.2
	3	100.5	-2.5	102.4	-1.5	98.2	-5.6	91.0	-3.7	107.1	0.8
	4	102.9	2.4	103.9	1.5	103.9	5.8	96.6	6.2	107.1	0.0
	5	103.6	0.7	104.8	0.8	103.9	0.0	94.7	-1.9	107.8	0.7
	6	101.9	-1.6	103.4	-1.4	101.4	-2.4	92.2	-2.6	106.7	-1.1
	7	104.2	2.3	105.2	1.8	102.7	1.3	95.2	3.2	108.9	2.1
	8	102.8	-1.3	103.9	-1.2	102.8	0.1	93.8	-1.4	106.7	-2.0
	9	100.8	-2.0	102.1	-1.7	101.9	-0.9	93.3	-0.6	105.1	-1.5
	10	98.5	-2.3	100.3	-1.7	98.2	-3.6	88.8	-4.9	103.7	-1.3
	11	102.0	3.6	103.5	3.2	101.8	3.6	92.3	4.0	106.2	2.4
	12	102.1	0.1	103.4	-0.1	102.6	0.8	96.3	4.3	105.8	-0.5
Annual average	e	102.0		103.4		101.8		93.6		106.7	
2019:	1	99.2	-2.9	100.9	-2.4	100.5	-2.0	92.7	-3.7	103.4	-2.2
	2	100.6	1.4	100.5	-0.4	97.4	-3.1	96.9	4.5	107.1	3.6
	3	104.5	3.9	104.8	4.3	104.7	7.4	98.8	2.0	107.4	0.3
	4	101.5	-2.9	102.8	-1.9	100.4	-4.1	92.7	-6.2	106.2	-1.1
	5	101.6	0.1	102.7	-0.1	101.1	0.7	92.9	0.3	106.5	0.3
	6	103.5	1.8	104.3	1.5	103.0	1.9	96.9	4.3	107.8	1.2
	7	102.7	-0.8	103.8	-0.4	103.3	0.3	94.1	-2.9	106.5	-1.2
	8	103.9	1.2	105.1	1.3	103.8	0.5	95.2	1.2	109.2	2.6
	9	105.8	1.8	106.9	1.7	104.4	0.6	96.2	1.0	110.4	1.1
	10	105.2	-0.5	106.6	-0.3	104.4	0.1	96.1	0.0	110.2	-0.1
	11	104.5	-0.7	106.4	-0.2	102.6	-1.7	92.8	-3.5	110.6	0.4
	12	101.8	-2.6	103.8	-2.5	100.1	-2.4	93.8	1.1	108.6	-1.9
Annual average	e	102.9		104.1		102.1		94.9		107.8	
2020:	1	105.0	3.2	106.8	2.9	103.5	3.3	94.6	0.8	112.0	3.1
	2	102.9	-2.0	106.9	0.1	105.5	1.9	89.7	-5.2	109.5	-2.2
	3	102.2	-0.7	105.5	-1.2	122.0	15.6	88.1	-1.8	90.3	-17.6

**Graph 6.** Monthly rates of change (%) of the seasonally adjusted Volume Indices in Retail Trade for March 2020/ February 2020



Generally

The Retail Trade Turnover Index is a monthly index, which was released in 2006 for the first time, with base year (b.y.) the year 2005=100.0. This index is a continuation of the Retail Sales Value Index, which had been compiled since 1963.

Purpose of the index – definitions

The purpose of the index is to depict the evolution of the goods and services market. Turnover comprises the total amounts invoiced by the enterprise during the reference period which correspond to the resale of goods without any further transformation. The data collected each month refer to the actual sales (both retail and wholesale) excluding VAT but including other duties and taxes on the goods.

**Legal Framework** 

The compilation of the Retail Trade Turnover Index is governed by Council Regulation (EC) No.1165/98 of 19<sup>th</sup> May 1998 concerning "Short Term Statistics" and by Regulation (EC) No.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.

Reference period

Month.

Base year

2015=100.0.

Revision

Pursuant to the provisions of the Council Regulation No.1165/98 concerning "Short Term Statistics", the index is revised every five (5) years in years ending in 0 or 5. The purpose of the revision is to adapt the index to the changes in the structure of retail trade.

Statistical classification

The NACE Rev.2 statistical classification of economic activities is used in conformity with Regulation (EC) No.1893/2006 of the European Parliament and of the Council.

Geographical coverage

The index covers the whole of the country with data coming from 72 Regional Units.

Coverage of economic activities

The index covers the codes from 4711 to 4799 of the division 47 of NACE Rev 2 statistical classification of economic activities.

Statistical survey

The index includes 38,444 retail trade enterprises, with an annual turnover (in year 2015) equal or greater than 140,000€, from which a random representative sample of 1,674 enterprises was therefore selected and surveyed.

Data collection, processing and imputation in the context of the COVID-19 pandemic 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. This estimation is made at enterprise level, as the product of the value of the previous month value by the rate of change of the annual moving average of the reference month. Moreover, for March 2020, for the estimation of data at enterprise level, the monthly changes of the values collected by enterprises, were used at group and stratum level (class).

Volume Index

Since 2005, a parallel calculation of the retail trade volume index is introduced, for measuring the volume changes in retail trade.

**Calculating the indices** 

The turnover index is calculated by applying the chaining method. Firstly the moving based index is calculated by comparing the estimated turnover value for the current month with the corresponding value of the previous month. Afterwards, the fixed base index for the current month is calculated by multiplying the moving-based index by the fixed base index of the previous month.

The comparability of the indices is achieved by reducing them to indices of a typical month of equal duration. This is implemented through the multiplication of the estimated turnover values by a specific correcting coefficient that results, by dividing the average monthly number of working days in the current year, by the number of the regular working days of the surveyed month.

The Volume Index (since September 2018) is calculated by deflating the Retail Trade Turnover Index, with the use of the Harmonized Index of Consumer Prices at Constant Tax rates (HICP-CT) as a deflator.

**Seasonal Adjustment** 

Seasonal adjustment is the procedure followed to remove the impact of seasonality on the timeseries (that is eliminating the monthly effects, e.g. the beginning of the school year, holidays, tourist period, etc) in order to improve the comparability over time. The seasonal adjustment is performed by the application of TRAMO-SEATS method with the use of JDemetra+ 2.0.0. The whole series with seasonally adjusted indices is recalculated every time a new observation is added.

**Compiled index series** 

Due to the implementation of the classification NACE Rev 2, parallel timeseries for the indices including and not including the automotive fuels are provided.

These timeseries data are also compiled seasonally adjusted.

Seasonal adjustment in

The COVID-19 outbreak has a sever impact on several economic activities. Given the fact that, calendar and

### the context of the COVID-19 pandemic

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.

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.

During the seasonal adjustment of time-series for March 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 5, 6, 7 and Graph 6).

#### **Publication of data**

Timeseries of Retail Trade Turnover and Volume Indices (b.y. 2015=100.0) are released monthly since September 2018, with retrospective data from 2000, into the following categories of economic activity classes:

#### Supermarkets

Non-specialized stores with food, beverages or tobacco predominating.

#### Department stores

Other retail sale in non-specialized stores.

#### Food, beverages, tobacco

Fruit and vegetables, meat products. Fishes, crustaceans and molluscs, bread, cakes, flour confectionery and sugar confectionery. Beverages, tobacco products, other retail sale of food in specialized stores.

#### Automotive fuel

Automotive fuel in specialized stores.

#### **Pharmaceutical products. Cosmetics**

Dispensing chemist, medical and orthopaedic goods, cosmetic and toilet articles in specialized stores.

#### Clothing and footwear

Textiles, clothing, footwear and leather goods in specialized stores.

### Furniture, electrical equipment, household equipment

Furniture, lighting equipment, audio and video equipment, hardware, paints and glass, electrical household appliances and other household articles, music and video recordings in specialized stores.

### Books. stationery and other goods

Books, newspapers and stationery, sporting equipment, games and toys, watches and jewellery, computers, peripheral units and software, telecommunications equipment, flowers, plants, seeds, fertilisers, pet animals and pet food, carpets, rugs, wall and floor coverings, other retail sale of new goods in specialized stores.

#### Retail sales not in stores

Retail sales via mail order houses, via Internet, via stalls and markets of other goods and other retail sales not in stores, stalls or markets.

#### Food sector

Supermarkets, Food, beverages, tobacco

#### References

More information on the methodology concerning the compilation and calculation of the indices and for the timeseries is available on ELSTAT website:

http://www.statistics.gr/en/statistics/-/publication/DKT39/-