

## Unit Value Indices (UVI) of exported and imported goods 2010 and 2011

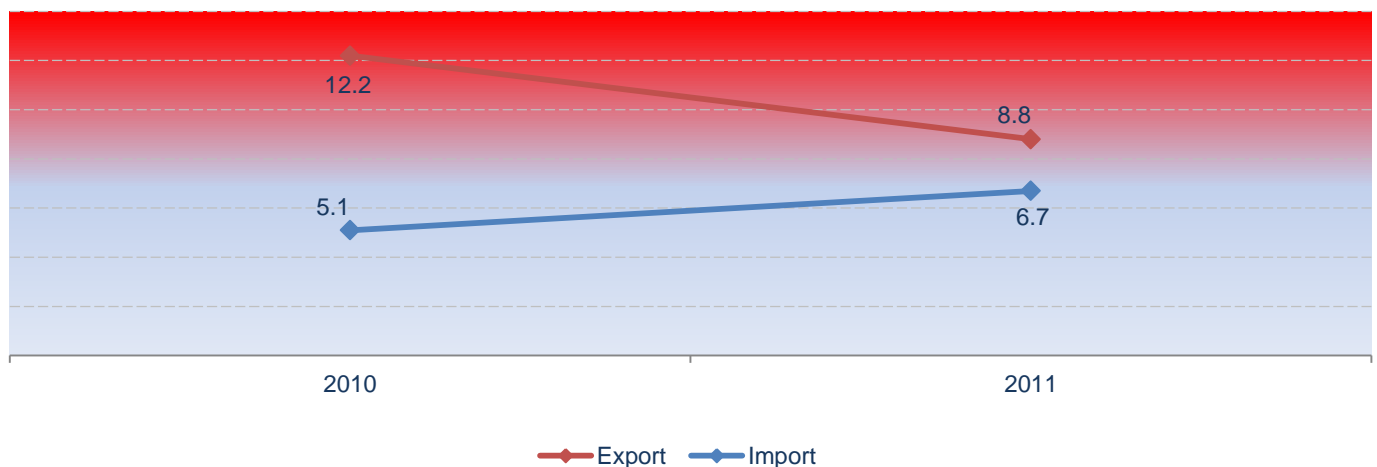
Unit values of goods exported from January to December 2011 increased by 8.8% compared with the same period of previous year, while an increase of 12.2% for period from January to December 2010 compared with the same period in 2009.

From January to December 2011, compared with the same period of previous year, unit values of goods imported increased by 6.7%, while they increased by 5.1% for period January-December 2010 compared with the same period 2009.

From January to December 2011, when observing chapters of customs tariffs, the highest rise of unit value of goods exported of 43.4% was noticed under Chapter 88: Aircraft, spacecraft, and parts thereof, while on side of imported goods, the highest rise of 80% was noticed under Chapter 58: Special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery.

In period from January to December 2010, observing chapters of customs tariffs, the highest rise in the export of goods, 75.7% was registered under Chapter 79: Zinc and articles thereof, while the import of goods indicated the highest rise of 69.7% with Chapter 80: Tin and articles thereof.

**Graph 1. Growth rate of unit values of goods exported and imported, in %**



**Table 1. Unit value indices of exported and imported goods**

	EXPORT		IMPORT		TRADE RELATIONS	
	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	2010	2011
<b>Total</b>	<b>112.2</b>	<b>108.8</b>	<b>105.1</b>	<b>106.7</b>	<b>106.8</b>	<b>102.0</b>
Live animals; animal products	100.0	120.0	103.2	113.6	96.9	105.7
Meat and edible meat offal	99.0	101.0	97.7	105.8	101.3	95.5
Fish and crustaceans, molluscs and other aquatic invertebrates	104.3	108.7	104.3	107.2	100.0	101.3
Dairy produce; birds' eggs; natural honey; edible products of animal origin, not elsewhere specified or included	100.0	100.0	102.6	102.2	97.5	97.9
Products of animal origin, not elsewhere specified or included	100.0	100.0	89.3	96.0	112.0	104.2
Live trees and other plants; bulbs, roots and the like; cut flowers and ornamental foliage	59.7	112.2	97.3	99.3	61.4	113.0
Edible vegetables and certain roots and tubers	109.7	98.7	102.6	106.4	106.9	92.8
Edible fruit and nuts; peel of citrus fruit or melons	123.0	109.1	104.7	106.4	117.5	102.5
Coffee, tea, maté and spices	86.6	106.8	135.1	127.6	64.1	83.7
Cereals	159.7	100.0	95.4	126.3	167.4	79.2
Products of the milling industry; malt; starches; inulin; wheat gluten	106.8	148.6	107.6	118.0	99.3	125.9
Oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder	92.3	112.5	94.9	90.8	97.3	123.9
Lac; gums, resins and other vegetable saps and extracts			81.0	101.3		
Vegetable plaiting materials; vegetable products not elsewhere specified or included		100.0	77.0	112.9		88.5
Animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes	94.4	120.7	97.4	124.8	96.9	96.7
Preparations of meat, of fish or of crustaceans, molluscs or other aquatic invertebrates	99.4	103.7	95.9	103.0	103.6	100.7
Sugars and sugar confectionery	127.9	101.4	114.5	127.8	111.7	79.4
Cocoa and cocoa preparations	106.0	109.0	99.9	104.6	106.1	104.1
Preparations of cereals, flour, starch or milk; pastry cooks' products	111.4	119.8	98.2	108.3	113.4	110.5
Preparations of vegetables, fruit, nuts or other parts of plants	97.0	102.8	98.5	105.6	98.5	97.4
Miscellaneous edible preparations	83.3	111.9	100.4	100.2	83.0	111.8
Beverages, spirits and vinegar	99.2	112.9	99.8	103.3	99.4	109.3
Residues and waste from the food industries; prepared animal fodder	115.3	103.1	110.8	117.0	104.1	88.2
Tobacco and manufactured tobacco substitutes	100.0	100.0	104.1	103.7	96.1	96.4
Salt; sulphur; earths and stone; plastering materials, lime and cement	87.9	106.2	93.6	92.9	93.9	114.3
Ores, slag and ash	93.7	93.7	94.1	107.8	99.6	87.0
Mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes	116.4	111.6	129.9	126.6	89.6	88.1
Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes	114.3	100.0	129.4	102.7	88.3	97.4
Organic chemicals	100.0	102.1	102.8	105.3	97.3	96.9
Pharmaceutical products	100.0	107.2	101.3	97.8	98.7	109.6
Fertilisers	100.0	100.0	85.4	101.1	117.1	98.9
Tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints and varnishes; putty and other mastics; inks	116.1	74.8	101.6	104.3	114.3	71.7
Essential oils and resinoids; perfumery, cosmetic or toilet preparations	122.6	100.0	101.1	104.8	121.3	95.4
Soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, 'dental waxes' and dental preparations with a basis of plaster	76.9	107.1	96.4	100.8	79.8	106.2
Albuminoidal substances; modified starches; glues; enzymes	100.0	100.0	83.8	99.4	119.3	100.6

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	EXPORT		IMPORT		EXCHANGE RELATIONS	
	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	2010	2011
Explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations	107.2	99.0	113.2	100.0	94.7	99.0
Photographic or cinematographic goods	122.8	100.0	93.1	100.8	131.9	99.2
Miscellaneous chemical products	85.0	110.6	117.5	99.4	72.3	111.3
Plastics and articles thereof	133.2	107.2	102.3	104.0	130.2	103.1
Rubber and articles thereof	104.7	113.5	99.9	105.3	104.8	107.8
Raw hides and skins (other than furskins) and leather	127.1	123.0	92.8	119.6	137.0	102.8
Articles of leather; saddlery and harness; travel goods, handbags and similar containers; articles of animal gut (other than silkworm gut)	73.6	126.0	101.1	103.5	72.8	121.7
Furskins and artificial fur; manufactures thereof			101.5	102.5	0.0	0.0
Wood and articles of wood; wood charcoal	89.0	98.1	101.8	101.8	87.4	96.4
Cork and articles of cork	100.0		97.4	101.6	102.7	0.0
Manufactures of straw, of esparto or of other plaiting materials; basketware and wickerwork	100.0	100.0	113.3	100.5	88.3	99.5
Pulp of wood or of other fibrous cellulosic material; recovered (waste and scrap) paper or paperboard	124.6	131.0	100.0	100.0	124.6	131.0
Paper and paperboard; articles of paper pulp, of paper or of paperboard	89.2	102.6	102.4	105.2	87.1	97.6
Printed books, newspapers, pictures and other products of the printing industry; manuscripts, typescripts and plans	113.0	90.8	103.3	98.2	109.4	92.5
Silk			63.5	100.0		
Wool, fine or coarse animal hair; horsehair yarn and woven fabric	100.0	112.7	132.8	93.3	75.3	120.8
Cotton	100.0	100.0	101.5	109.1	98.5	91.6
Other vegetable textile fibres; paper yarn and woven fabrics of paper yarn			100.0	100.0		
Man-made filaments; strip and the like of man-made textile materials	100.0	100.0	109.8	95.6	91.1	104.6
Man-made staple fibres	100.0		98.3	103.9	101.7	0.0
Adding, felt and nonwovens; special yarns; twine, cordage, ropes and cables and articles thereof	100.0	100.0	101.6	99.8	98.4	100.2
Carpets and other textile floor coverings	100.0	100.0	101.0	107.2	99.0	93.3
Special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery	100.0	100.0	156.0	180.0	64.1	55.6
Impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use	100.0	100.0	94.3	106.5	106.0	93.9
Knitted or crocheted fabrics	100.0	100.0	81.9	103.0	122.1	97.0
Articles of apparel and clothing accessories, knitted or crocheted	109.9	110.0	100.2	101.6	109.7	108.2
Articles of apparel and clothing accessories, not knitted or crocheted	100.6	89.4	99.6	101.6	101.0	88.0
Other made-up textile articles; sets; worn clothing and worn textile articles; rags	100.0	100.0	100.4	108.7	99.6	92.0
Footwear, gaiters and the like; parts of such articles	73.8	118.4	102.5	101.9	72.0	116.2
Headgear and parts thereof	115.8	81.0	107.0	101.5	108.2	79.8
Umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof	100.0	100.0	106.0	111.6	94.3	89.6
Prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair	100.0	100.0	124.1	100.1	80.6	99.9
Articles of stone, plaster, cement, asbestos, mica or similar materials	112.4	106.0	103.1	98.7	109.0	107.4
Ceramic products	87.6	109.0	96.0	102.1	91.3	106.8
Glass and glassware	100.0	101.3	97.6	100.1	102.5	101.2
Natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin	66.3	100.0	96.9	84.5	68.4	118.3
Iron and steel	111.8	112.8	115.3	103.6	97.0	108.9

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	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	<u>2010</u> <u>2009</u>	<u>2011</u> <u>2010</u>	2010	2011
Iron and steel	104.6	90.8	99.0	104.0	105.7	87.3
Copper and articles thereof	147.8	105.5	113.1	110.5	130.7	95.5
Nickel and articles thereof			101.7	65.1		
Aluminium and articles thereof	122.5	109.7	98.6	104.7	124.2	104.8
Lead and articles thereof	130.1	107.4	113.7	87.2	114.4	123.2
Zinc and articles thereof	175.7	93.3	104.4	108.8	168.3	85.8
Tin and articles thereof			169.7	100.1		
Other base metals; cermets; articles thereof			100.0	100.0		
Tools, implements, cutlery, spoons and forks, of base metal; parts thereof of base metal	94.1	103.8	100.3	101.7	93.8	102.1
Miscellaneous articles of base metal	94.2	111.1	100.3	102.0	93.9	108.9
Nuclear reactors, boilers, machinery and mechanical appliances; parts thereof	107.2	103.8	99.5	98.4	107.7	105.5
Electrical machinery and equipment and parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles	126.0	114.7	100.8	100.9	125.0	113.7
Railway or tramway locomotives, rolling stock and parts thereof; railway or tramway track fixtures and fittings and parts thereof; mechanical (including electromechanical) traffic signalling equipment of all kinds	100.0	100.0	98.7	102.0	101.3	98.0
Vehicles other than railway or tramway rolling stock, and parts and accessories thereof	91.9	101.0	100.9	101.6	91.1	99.4
Aircraft, spacecraft, and parts thereof	88.3	143.4	100.6	101.5	87.8	141.3
Ships, boats and floating structures	94.6	110.2	100.7	101.3	93.9	108.8
Optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof	109.7	100.0	100.4	102.0	109.3	98.0
Clocks and watches and parts thereof	100.0	100.0	100.3	101.7	99.7	98.3
Musical instruments; parts and accessories of such articles	100.0	100.0	85.6	119.0	116.8	84.0
Arms and ammunition; parts and accessories thereof	100.0	102.3	92.2	99.7	108.5	102.6
Furniture; bedding, mattresses, mattress supports, cushions and similar stuffed furnishings; lamps and lighting fittings, not elsewhere specified or included; illuminated signs, illuminated nameplates and the like; prefabricated buildings	106.0	91.8	101.3	102.2	104.6	89.8
Toys, games and sports requisites; parts and accessories thereof	126.3	99.8	100.7	103.3	125.4	96.6
Miscellaneous manufactured articles	100.0	53.1	104.1	98.6	96.1	53.8
Works of art, collectors' pieces and antiques	127.7	100.0	66.9	151.7	190.9	65.9

## METHODOLOGICAL NOTES

Unit value indices of exported and imported goods are aimed at analytical measuring the dynamics of unit values of export and import, and they are also used as a deflator in Gross Domestic Product calculation.

The data source for unit value index calculation are collective customs declarations on export and import of goods which are monthly transmitted to Statistical Office of Montenegro by Customs Administration of Montenegro, and used for regular statistical survey in the foreign trade of Montenegro.

Indices of exported and imported prices are calculated as Unit Value Indices (UVI), i.e. changes indices of export and import values per quantity unit of products exported and imported, i.e. per kilogram as a standard and comparable quantity unit for all products.

Indices are calculated by Fisher formula, as an arithmetic average between Laspeyres and Paasche formulas, i.e.

Laspeyres index  $= (\sum p_1 * q_0 / \sum p_0 * q_0) * 100$ ,

Paasche index  $= (\sum p_1 * q_1 / \sum p_0 * q_1) * 100$  i

Fisher index =  $\sqrt{\text{Laspeyres} * \text{Paasche}}$

Where:

$p_0$  unit value from previous period,  
 $p_1$  unit value from current period,  
 $q_0$  quantity from previous period and  
 $q_1$  quantity from current period.

Relations of exchange are relations between export and import of unit values.

Processing excludes products with the value under 1 000 EUR, where is unit value of current year twice or more higher in comparison with previous year and vice versa, where is the quantity of current year 10 times or more higher in comparison with previous year and vice versa.

The data are presented by chapters of customs tariff, i.e. Harmonised system of names and codes of goods.

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