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Price levels for food, beverages and tobacco across the European market differ significantly

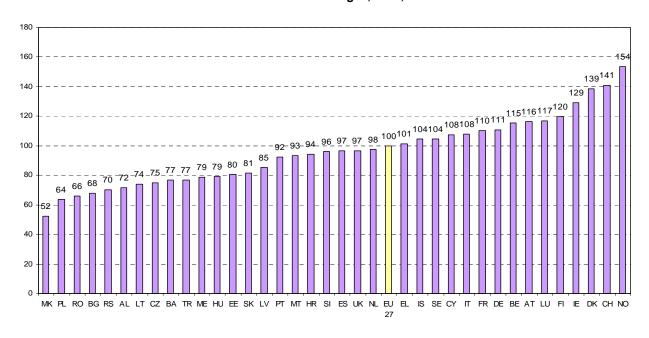
Comparative price levels in 37 European countries for 2009

Price levels for food, beverages and tobacco among the EU Member States vary considerably. In 2009, the prices for food and non-alcoholic beverages in Poland were 64% of the EU average, while in Denmark they were 139%. Alcohol was priced in Finland at 170% of the EU average, but at 70% in Romania. For tobacco the highest prices were observed in Ireland (217% of the EU average), while the lowest were recorded in Bulgaria (46%).

These are the main findings of the most recent survey on food, beverages and tobacco, carried out in 2009 within the Eurostat-OECD Purchasing Power Parities (PPP) Programme. The survey covered a total of approximately 500 comparable products, enabling all countries to price a sufficient number of products representative of their consumption pattern. A total of 37 countries participated in the survey (see Box 1). The results of the survey are expressed in "price level indices" (PLIs), which provide a comparison

of countries' price levels with respect to the European Union average: if the price level index is higher than 100, the country concerned is relatively expensive compared to the EU average, while on the other hand, if the price level index is lower than 100, then the country is relatively inexpensive compared to the EU average. Chart 1 shows the 2009 PLIs for food and non-alcoholic beverages. On the following pages, PLIs are shown for subgroups of products.

Chart 1: Price level index for food and non-alcoholic beverages, 2009, EU27=100



For country abbreviations please see methodological notes



Food, beverages and tobacco

Table 1: Price level indices for food, beverages and tobacco, 2009, EU27=100

Non- alcoholic beverages Tobacco						
HFCE				Non-		
DK 145 134 193 135 117 CH 138 144 112 113 104 NO 137 153 168 234 219 FI 126 118 132 170 110 IE 125 128 146 167 217 LU 121 119 106 96 88 FR 114 112 96 95 133 BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27				alcoholic	Alcoholic	
CH 138 144 112 113 104 NO 137 153 168 234 219 FI 126 118 132 170 110 IE 125 128 146 167 217 LU 121 119 106 96 88 FR 114 112 96 95 133 BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 100				J		
NO						
FI 126 118 132 170 110 IE 125 128 146 167 217 LU 121 119 106 96 88 FR 114 112 96 95 133 BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 NE 67 76 91 161 52 HU 65 78 89 84 51 NE 63 78 83 95 30 RC 57 65 76 97 33 RO 57 65 77 66 97 746 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients						
IE						
LU 121 119 106 96 88 FR 114 112 96 95 133 BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
FR 114 112 96 95 133 BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85						
BE 114 115 116 101 108 NL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81						
NIL 108 98 96 99 111 AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76						
AT 108 117 108 95 97 SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75						
SE 107 104 110 138 130 IT 106 109 94 113 104 DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75						
IT						
DE 106 111 106 91 119 IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74						
IS 102 105 103 168 115 EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
EU 27 100 100 100 100 100 ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76						
ES 97 96 97 84 73 EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 <t< td=""><td>_</td><td></td><td></td><td></td><td></td><td></td></t<>	_					
EL 97 100 115 105 72 UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
UK 93 96 102 117 166 CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 7		97	96			
CY 91 106 130 119 88 PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 </td <td></td> <td></td> <td>100</td> <td>115</td> <td>105</td> <td>72</td>			100	115	105	72
PT 89 92 102 86 85 SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75	UK	93	96	102	117	166
SI 85 96 93 102 65 MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80	CY	91	106	130	119	88
MT 81 91 118 98 94 HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80	PT		92	102	86	
HR 76 93 112 110 67 EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96	SI	85	96	93	102	65
EE 75 79 99 106 58 LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63	MT	81	91	118	98	94
LV 75 83 114 118 62 SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8	HR	76	93	112	110	67
SK 74 80 101 97 73 CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU27	EE	75	79	99	106	58
CZ 71 74 93 89 75 LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU27 25.1 20.1 22.0 22.4 41.8	LV	75	83	114	118	62
LT 68 72 91 99 51 TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8 </td <td>SK</td> <td>74</td> <td>80</td> <td>101</td> <td>97</td> <td>73</td>	SK	74	80	101	97	73
TR 67 76 91 161 52 HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	CZ	71	74	93	89	75
HU 65 78 89 84 51 ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	LT	68	72	91	99	51
ME 63 78 83 95 30 PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	TR	67	76	91	161	52
PL 59 63 76 89 52 BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	HU	65	78	89	84	51
BA 58 75 90 97 33 RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	ME	63	78	83	95	30
RO 57 65 75 70 47 RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	PL	59	63	76	89	52
RS 56 69 80 90 30 BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	BA	58	75	90	97	33
BG 53 67 80 77 46 AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	RO	57	65	75	70	47
AL 51 70 96 92 33 MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	RS	56	69	80	90	30
MK 46 52 63 69 30 Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	BG	53	67	80	77	46
Variation coefficients EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	AL	51	70	96	92	33
EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	MK	46	52	63	69	30
EA16 14.8 11.8 13.7 22.8 34.1 EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8	Variation c	oefficients				
EU15 12.6 10.7 21.9 23.6 31.3 EU27 25.1 20.1 22.0 22.4 41.8			11.8	13.7	22.8	34.1
EU27 25.1 20.1 22.0 22.4 41.8						
		25.1	20.1		22.4	
			24.6		29.8	

Source: Eurostat (prc_ppp_ind)

Table 1 shows the PLIs for four important groups: food, non-alcoholic beverages, alcoholic beverages and tobacco. These groups represent on average 16%, 2%, 4% and 3% of household expenditure respectively. For reference, the PLIs of total household final consumption expenditure (HFCE) are also presented.

The shaded fields indicate the highest and lowest PLIs per product group among the 27 EU Member States. The highest and lowest PLIs among all 37 participating countries are marked in bold.

At the bottom of the table, variation coefficients are provided for the euro area (EA16), the 15 "old" EU Member States (EU15), the European Union (EU27) and the group of all countries participating in the program (All 37). The variation coefficient is defined as the standard deviation of the PLIs of the respective group of countries as percentage of their average PLI. The higher the variation coefficient, the higher is the price dispersion in the respective product group.

Norway is the most expensive country of all 37 for food, alcoholic beverages and tobacco, whilst Denmark is the most expensive for non-alcoholic beverages.

Amongst the Member States, Denmark represents the most expensive country also for food. Finland has the highest price level of alcoholic beverages in the EU, while Ireland and the United Kingdom are by far the most expensive for tobacco. The former Yugoslav Republic of Macedonia is the least expensive country of all 37 in all four product groups. Montenegro and Serbia have an equally low price level for tobacco. Among the EU countries, the lowest prices are observed in Romania for 2 of these product groups, in Poland for food and Bulgaria for tobacco.

Price dispersion is most pronounced within the 37 country group, including both the high price EFTA countries and the mostly low price Western Balkan Countries. Price dispersion is much less pronounced in the euro area than in the EU as a whole (except for alcoholic beverages). The highest price dispersion is found for tobacco. This is mainly due to large differences in excise taxation on these products across the 37 countries.

Bread and cereals, meat, fish and dairy products

Table 2: Price level for 4 subcategories of food, 2009, EU27=100

ĺ					Milk,	
		Bread and			cheese	
	Food	cereals	Meat	Fish	and eggs	
NO	153	145	162	122	169	
CH	144	138	197	150	121	
DK	134	136	131	120	115	
IE	128	132	121	113	137	
LU	119	123	117	121	120	
FI	118	123	120	103	111	
AT	117	126	120	114	100	
BE	117	116	120	114	122	
FR	112	113	122	110	104	
DE	111	110	126	109	92	
IT	109	103	112	115	124	
CY	106	116	90	119	137	
IS	105	129	99	80	91	
SE	104	114	107	99	90	
EL	100	117	95	111	132	
EU 27	100	100	100	100	100	
NL	98	99	115	105	93	
ES	96	111	86	93	105	
SI	96	101	91	100	101	
UK	96	84	102	75	95	
HR	93	99	87	101	96	
PT	92	106	80	81	111	
MT	91	84	75	94	113	
LV	83	81	75	77	89	
SK	80	78	68	83	92	
EE	79	78	70	77	86	
ME	78	69	76	79	82	
HU	78	71	72	93	89	
TR	76	68	71	80	100	
BA	75	68	77	75	79	
CZ	74	69	69	82	82	
LT	72	78	63	66	77	
AL	70	62	64	71	90	
RS	69	61	66	85	81	
BG	67	52	59	72	92	
RO	65	61	58	72	93	
PL	63	58	56	69	63	
MK	52	48	51	57	60	
Variation coefficients						
EA16	11.8	13.0	18.7	12.1	13.3	
EU15	10.7	12.4	13.2	13.2	13.1	
EU27	20.1	24.9	26.2	18.9	17.7	
All 37	24.6	29.0	33.3	22.0	21.4	

Source: Eurostat (prc ppp ind)

The results of the survey also provide an insight into the different sub-groups of products for all participating countries. Table 2 presents the PLIs for bread and cereals, meat, fish and dairy products. These groups represent on average 17%, 25%, 3% and 19% of household expenditure on food respectively. For comparison this table includes the PLIs for food as a whole.

Amongst all 37 countries Switzerland shows the highest price levels for meat and fish, while Norway has the highest PLIs for dairy products and Denmark for bread and cereals. Denmark is also the most expensive country for meat within the EU, whilst Belgium is the most expensive for fish and Cyprus for milk, cheese and eggs.

The former Yugoslav Republic of Macedonia is the cheapest country in all sub-groups of products. Among the EU Member States, the lowest price level for meat and dairy products is observed in Poland, for bread and cereals in Bulgaria and for fish in Lithuania.

Price dispersion in all groups of countries does not show much variation between these four product groups. Meat has a somewhat higher price dispersion in most country groups except within EU15. Within the EU27, the lowest price dispersion is found for dairy products.

Oils and fats, fruits, vegetables, potatoes and other food products

Table 3: Price level indices for 3 subcategories of food, 2009, EU27=100

			Funita		
		Oils and	Fruits,	Other food	
	Food	fats	vegetables, potatoes		
NO				products	
CH	153 144	155	154	157	
DK	134	168	131 134	126	
		140		160	
<u>IE</u>	128	105	142	123 109	
<u>LU</u> FI	119 118	123 111	126 129	115	
AT	117	118	129	115	
BE	117	124		104	
FR			109		
	112	106	118	103	
DE	111	98	127	106	
IT	109	116	94	131	
CY	106	110	92	121	
IS	105	90	117	119	
SE	104	104	119	95	
EL	100	120	77	116	
EU 27	100	100	100	100	
NL	98	83	104	80	
ES	96	83	100	102	
SI	96	122	92	103	
UK	96	87	117	91	
HR	93	102	84	109	
PT	92	98	81	116	
MT	91	111	91	116	
LV	83	115	85	95	
SK	80	108	73	107	
EE	79	100	80	92	
ME	78	98	83	86	
HU	78	98	75	89	
TR	76	87	63	99	
BA	75	81	73	87	
CZ	74	84	70	86	
LT	72	92	70	89	
AL	70	93	61	92	
RS	69	87	62	89	
BG	67	89	65	84	
RO	65	79	58	77	
PL	63	80	68	72	
MK	52	62	43	70	
Variation coefficients					
EA16	11.8	11.4	19.1	10.0	
EU15	10.7	14.6	16.2	16.1	
EU27	20.1	14.9	24.7	17.7	
All 37	24.6	20.3	28.9	19.3	

Source: Eurostat (prc ppp ind)

Table 3 shows the PLIs for three further groups of food products: oils and fats; fruits, vegetables and potatoes as well as other food products. These groups represent on average 5%, 12% and 11% of household expenditure for food respectively.

Amongst all 37 countries the lowest prices for all categories can again be observed in the former Yugoslav Republic of Macedonia, while the highest price for oils and fats are noted in Switzerland, for fruits and vegetables in Norway and for other food in Denmark.

Among the EU Member States, Romania is the most inexpensive country for oils and fats and fruits and vegetables, whilst other food products are cheapest in Poland. The highest prices for fruits, vegetables and potatoes are observed in Ireland, whilst Denmark is the most expensive EU country for oil and fats.

Within these 3 categories, relatively large price dispersion can be observed for fruits, vegetables and potatoes.

Box 1: Data sources

Within the framework of the Eurostat-OECD Purchasing Power Parities (PPP) program, surveys on prices of household goods and services are carried out cyclically by the National Statistical Institutes (NSIs) of 37 countries: the 27 EU Member States, 3 Candidate Countries (Croatia, the former Yugoslav Republic of Macedonia and Turkey), 3 EFTA countries (Iceland, Norway and Switzerland) and 4 Western Balkan countries (Albania, Bosnia and Herzegovina, Montenegro and Serbia).

Each survey cycle comprises 6 surveys, each related to a particular group of household consumption products. As 2 surveys are run per year, the whole survey cycle takes 3 years to conclude, before the next cycle starts. The prices used for this publication were collected in spring 2009 and extrapolated to annual average prices for 2009 using detailed consumer price indices. The PLIs presented in this article are based on annual national average prices for about 500 goods in total.

The expenditure shares reported in this article are based on national accounts data for 2008 and represent the average over all participating countries. The national accounts data are also used as weights in the aggregation of detailed PLIs to aggregate PLIs such as for Household Final Consumption Expenditure (HFCE).

Price convergence

A comparison of the price dispersion observed on the basis of the surveys conducted since 2003 (see Box 1) shows that for each group of products prices have converged within the EU. Table 4 shows the development of the variation coefficient of the PLI for the various categories. A decrease of the variation coefficient for the Member States between 2003 and 2009 is an indication of price convergence for the respective product group. Price differences have decreased most for food and alcoholic beverages and least for non-alcoholic beverages.

Table 4: Price convergence in the EU: comparison between 2003, 2006 and 2009 by product groups

	2003	2006	2009	Change (%) 2003-2009
Food and non-alcoholic beverages	28.6	23.9	19.8	-30.7%
Food	29.2	24.3	20.1	-31.2%
Bread and cereals	35.2	30.6	24.9	-29.2%
Meat	36.5	33.0	26.2	-28.4%
Fish	27.0	24.7	18.9	-29.8%
Milk, cheese and eggs	22.2	20.1	17.7	-20.5%
Oil and fats	18.1	15.0	14.9	-18.1%
Fruits and vegetables	32.1	26.6	24.7	-23.0%
Other food	24.9	19.3	17.7	-28.8%
Non-alcoholic beverages	25.3	23.1	22.0	-12.9%
Alcoholic beverages	32.5	28.0	22.4	-31.2%
Tobacco	54.1	50.4	41.8	-22.8%

Price level indices for Kosovo¹

In 2009, in the framework of a pilot project, the Statistical Office of Kosovo participated for the first time in the Eurostat-OECD Purchasing Power Parities Programme by carrying out the price survey on food, beverages and tobacco.

Table 5 shows the PLIs as they result from the survey Price levels in Kosovo are higher than those of the former Yugoslav Republic of Macedonia, but lower than those of the other Western Balkan countries.

Table 5: Price level indices for Kosovo in 2009

Food and non-alcoholic beverages	65
Food	64
Bread and cereals	56
Meat	58
Fish	70
Milk, cheese and eggs	67
Oils and fats	75
Fruits, vegetables, potatoes	70
Other food	75
Non-alcoholic beverages	70
Alcoholic beverages	81
Tobacco	29

¹ under UNSCR 1244/99

Box 2: The impact of exchange rate changes on PLIs

As explained in the methodological notes, the PLI for a given country is calculated as its purchasing power parity (PPP) divided by its annual average exchange rate to the euro. This implies that exchange rate movements have an impact on the PLIs. A depreciation of a country's currency against the euro will make the country cheaper in comparison to euro area countries and this will show as a decrease of the relative price level expressed in the PLI.

In 2009, several countries experienced relatively large exchange rate movements. The most prominent example is Iceland (depreciation of 35% between 2008 and 2009). This explains in part some changes in the position of countries in PLIs compared to previously published data for 2008.

Box 3: Description of the product groups

The product groups presented in the article include the following types of products:

<u>Bread and cereals</u>: rice, other cereals, flour and other cereal products, bread, other bakery products, pasta products

<u>Meat</u>: beef and veal, pork, lamb, mutton and goat, poultry, other meats and edible offal, delicatessen and other meat preparations

Fish: fresh, chilled or frozen fish and seafood, preserved or processed fish and seafood

Milk, cheese, eggs: fresh milk, preserved milk and other milk products, cheese, eggs and egg-based products

Oils and fats: butter, margarine, other edible oils and fats

<u>Fruits, vegetables, potatoes</u>: fresh or chilled fruit, frozen, preserved or processed fruit and fruit-based products, fresh or chilled potatoes, frozen, preserved or processed vegetables and vegetable-based products

Other food products: sugar, jams, marmalades and honey, confectionery, chocolate and other cocoa preparations, edible ice, ice cream and sorbet, food products n.e.c.

Non-alcoholic beverages: coffee, tea and cocoa, mineral waters, soft drinks and concentrates, fruit and vegetable juices

Alcoholic beverages: spirits, wine, beer

Tobacco: tobacco and narcotics

METHODOLOGICAL NOTES

The data in this publication are produced by the Eurostat-OECD Purchasing Power Parity (PPP) programme. The full methodology used in the programme is described in the Eurostat-OECD Methodological manual on purchasing power parities which is available free of charge from the Eurostat website. In their simplest form PPPs are nothing more than price relatives that show the ratio of the prices in national currencies of the same good or service in different countries.

For example, if the price of a hamburger in France is 2.84 euros and in the United States it is 2.20 dollars, the PPP for hamburgers between France and the United States is 2.84 euros to 2.20 dollars or 1.29 euros to the dollar. In other words, for every dollar spent on hamburgers in the United States, 1.29 euros would have to be spent in France in order to obtain the same quantity and quality – or volume – of hamburgers.

Comparative price levels as presented in this publication are the ratios of PPPs to exchange rates. They provide a measure of the differences in price levels between countries by indicating for a given product group the number of units of common currency needed to buy the same volume of the product group or aggregate in each country.

Price level indices (PLIs) provide a comparison of the countries' price levels with respect to the European Union average: if the price level index is higher than 100, the country concerned is relatively expensive compared to the EU average and vice versa. The EU average is calculated as the weighted average of the national PLIs, weighted with the expenditures corrected for price level differences. Price level indices are not intended to rank countries strictly. In fact, they only provide an indication of the order of magnitude of the price level in one country in relation to others, particularly when countries are clustered around a very narrow range of outcomes. The degree of uncertainty associated with the basic price data and the methods used for compiling PPPs, may affect in such a case the minor differences between the PLIs and result in differences in ranking which are not statistically or economically significant.

The main use of PPPs is to convert expenditures (including GDP) of different countries into real expenditures (and real GDP). Real expenditures are valued at a uniform price level and so reflect only differences in the volumes purchased in countries. PPP and real expenditures provide the price and volume measures required for international comparisons.

Country abbreviations:

EU member states			Cand	idate countries	
BE	Belgium	LU	Luxembourg	HR	Croatia
BG	Bulgaria	HU	Hungary	MK*	former Yugoslav Republic of Macedonia
CZ	Czech Republic	MT	Malta	TR	Turkey
DK	Denmark	NL	Netherlands		
DE	Germany	ΑT	Austria	EFTA countries	
EE	Estonia	PL	Poland	CH	Switzerland
ΙE	Ireland	PT	Portugal	IS	Iceland
EL	Greece	RO	Romania	NO	Norway
ES	Spain	SI	Slovenia		
FR	France	SK	Slovakia	West	ern Balkan countries
IT	Italy	FI	Finland	AL	Albania
CY	Cyprus	SE	Sweden	BA	Bosnia and Herzegovina
LV	Latvia	UK	United Kingdom	ME	Montenegro
LT	Lithuania			RS	Serbia

*MK: Provisional code which does not prejudge in any way the definitive nomenclature for this country which will be agreed following the conclusion of negotiations currently taking place on this subject at the UN

Further information

Eurostat Website: http://ec.europa.eu/eurostat

Data on Purchasing Power Parities:

http://epp.eurostat.ec.europa.eu/portal/page/portal/purchasing_power_parities/data/database

More information about Purchasing Power Parities:

http://epp.eurostat.ec.europa.eu/portal/page/portal/purchasing_power_parities/introduction

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