Issue 26 | January 2015

The Market Monitor

Trends and impacts of staple food prices in vulnerable countries

This bulletin examines trends in staple food and fuel prices, the cost of the basic food basket, and consumer price indices for 68 countries in the fourth quarter of 2014 (October to December).¹ The maps on pages 6–7 disaggregate the impact analysis to sub-national level.

Global Highlights

- During Q4-2014, **FAO's global cereal price index decreased by 7%** year-on-year, but on average, it remained at the level of the previous quarter.
- Real prices² of maize have fallen by 14% since Q4-2013. They are up 1% from the previous quarter.

REAL PRICE ADJUST	ED FOR C	HANGES I	N US CO	NSUMER PRICE INDEX (2005 = 100)
Quarterly Change	Maize	Wheat	Rice	Note: Comparison to
q4-2014 vs. q3-2014	1%	0%	-2%	Third quarter in 2014
q4-2014 vs. q4-2013	-14%	-17%	-8%	Same quarter in 2013
q4-2014 vs. q1-2008		-42%		Global wheat price peak in 2008
q4-2014 vs. q2-2008	37%		-59%	Global maize and rice price peak in 2008

• On average, real prices of wheat remained constant between Q3 and Q4-2014. Global wheat supplies for 2014/15 are projected to rise by 19 million tons against 2013/14 estimates³ thanks to increased production and beginning stocks; thus price levels in Q4-2014 are 17% lower than a year ago.

• Real prices of rice fell and are down by an average 2% since Q3-2014. Global export supplies are at a record high, as are consumption projections for 2014/15.

World Food Programme

- In Q4-2014, real prices for crude oil dropped by a third compared to the year before.
- Despite the low global price levels for staple foods, the cost of the minimum food basket increased severely (>10%) during Q4-2014 in Armenia, Chad, Guinea-Bissau, the Kyrgyz Republic, South Sudan and Syria. High increases (5-10%) were seen in Burkina Faso, Honduras, Kenya, Liberia and Northern Nigeria. In the other 56 monitored countries, the impact of commodity price changes was low or moderate (<5%).
- Price spikes, as monitored by <u>ALPS</u> (Alert for Price Spikes), are evident in **Ethiopia**, **India**, **Nepal**, **South Sudan** and **Sudan** (see the map below).⁴ These spikes indicate crisis levels for the most important staple in the country, whether it is maize, sorghum or rice.



The boundaries and names shown on this map do not imply official endorsement or acceptance by the United Nations.

2. Nominal prices are adjusted by the US Consumer Price Index.

Data were collected and collated by WFP country offices and are available at: <u>http://foodprices.vam.wfp.org.</u> Further data sources are FAO Food Price Index, FAO/GIEWS Food Price Data and Analysis Tool, and IMF Primary Commodity Prices as on 16 January 2015.

^{3.} USDA: World Agricultural Supply and Demand Estimates, January 2015.

^{4.} A market is designated as a hotspot when prices for the country's most important caloric contributor reached ALPS crisis level during Q4, and they did not return to normal levels by the end of the quarter. Note that for some markets/countries, prices are monitored but the price series may not necessarily qualify for ALPS calculation (see <u>ALPS website</u> for details).

Price trends and impacts by region (Change from last quarter)

Impact Codes

Low (< 0%)

Moderate (0-5%)

High (5-10%)

Severe (> 10%)

Latin America and Caribbean

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 compared to the previous quarter was high in Honduras; moderate in Colombia, the Dominican Republic, Guatemala and Mexico; and low in the other countries.

• Staple commodity prices:

Food price trends from Q3 to Q4-2014 were stable or decreasing in most countries of the region. Seasonally adjusted quarterly prices for red beans decreased in Q4 in El Salvador (-19%), **Honduras** (-3%) and Nicaragua (-16%) thanks to the Postrera harvest. Nonetheless, red bean prices remained far above the five-year baseline (EI **Salvador** +55%; **Honduras** +89%; **Nicaragua** +110%) because of low red bean production in 2014 and the shift of planted land to black bean production. Seasonally adjusted prices of maize rose sharply in Q4 compared to Q3 in El Salvador (+13%), **Honduras** (+13%) and Nicaragua (+19%), reflecting the reduced Primera harvest in August/September. In Haiti, maize was 7% more expensive in

Q4 after seasonal adjustments. Major reductions in import flows from Venezuela after the partial border closure in August led to sharp increases in the nominal price of cooking oil in Colombia. Quarterly oil prices were 43% higher than the baseline.

- Fuel prices: Between O3 and Q4-2014, Guatemala saw a sharp fall in the average prices of gasoline (-12.6%) and diesel (-9.7%). Similarly, in Honduras gasoline prices fell by 9.5%, while diesel was down 8.5%. In Colombia, the price of diesel decreased just slightly from the previous quarter (-0.7%).
- Purchasing power: The average headline quarterly inflation in Latin America and the Caribbean was low and stable in most countries between Q3 and Q4-2014.

Quarterly food inflation was moderate in Dominican **Republic** (+2.2%) and Nicaragua (+3.7%). Yearon-year (y/y) food inflation increased in Nicaragua (+12.9%) and Honduras (+6.2%). It continued to decelerate in **Bolivia** (+4.3%).

Honduras

Colombia Dominican Republic Guatemala Mexico

Bolivia **Costa Rica** Ecuador **El Salvador** Haiti Nicaragua Panama Peru

Southern Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 compared to the previous quarter was moderate in **Madagascar** and low in the other countries of the region.

• Staple commodity prices:

Price trends remained generally stable or decreasing in the region between Q3 and Q4-2014. Thanks to the bumper maize harvest of 2014, seasonally adjusted quarterly prices for maize were far below the previous quarter's levels in Malawi (-17%), Tanzania (-19%) and Zambia (-26%), as well as in Mozambique (-3%) and **Zimbabwe** (-6%). By contrast, seasonally adjusted prices soared for cassava meal in Zambia in the Southern (+21%), North-Western (+35%) and Lusaka (+15%) regions. The ALPS indicator also showed that several Zambian

markets were at alert level in December for maize grain.

- Fuel prices: In Tanzania, retail prices fell for gasoline (-5.3%) and diesel (-5.1%) in Q4-2014 compared to the previous guarter. Prices remained constant in Madagascar.
- Purchasing power: Quarterly changes in the Consumer Price Index (CPI) and in the food CPI have been low or negative in most countries. The exception is Malawi, where guarterly inflation climbed in Q4-2014 (+8.6%) because of the (partly seasonal) increase in food prices (q/q food CPI increased by 14.2%) and the depreciating

Kwacha currency. Y/y headline inflation was moderate in Tanzania (+5.5%) and **Zambia** (+8%), mainly driven by food inflation.

Madagascar

Lesotho Malawi **Mozambique** Swaziland Tanzania **Zambia Zimbabwe**

Central and Eastern Africa

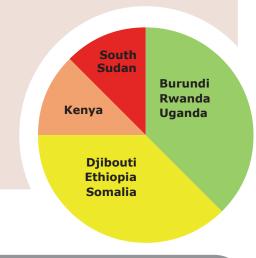
Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 compared to the previous quarter was severe in **South Sudan**, high in **Kenya**, and moderate in **Djibouti**, **Ethiopia** and **Somalia**.

• Staple commodity prices:

Commodity price trends in the region were mixed compared to the previous quarter. In South Sudan, Somalia and Kenya, seasonally adjusted prices for the main commodities increased. In South Sudan, seasonally adjusted prices rose for sorghum (+13%) and millet (+30%) compared to Q3-2014, as the ongoing conflict affected agricultural activities and reduced planted areas. In the state of Unity, for instance, nominal sorghum prices were 70% higher than in Q3. In Somalia, seasonally adjusted sorghum prices increased in the Wogooyi Galbeed (+7%), Awdal (+12%) and Nugaal (+7%)

regions because of consecutive below-average cereal production, trade disruption caused by civil conflict and reduced humanitarian assistance. In **Kenya**, increases in seasonally adjusted food prices affected bread (+9%), cooking oil (+19%) and milk (+7%).

- Fuel prices: In Ethiopia, petrol was slightly less expensive than in Q3 (-2.1%), as was diesel (-1.6%). Consequently, the y/y inflation rate decreased for gasoline (+3.9%) and diesel (+5.1%). Prices in Kenya also fell for gasoline (-15%) and diesel (-7.7%) against the previous quarter.
- Purchasing power: In central and eastern African countries, Q4 quarterly food and headline inflation was low. In spite of a decrease, headline y/y inflation remained fairly high in Ethiopia (+6.2%) and Kenya (+6.2%).



West Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 was severe in **Chad** and **Guinea-Bissau**; high in **Burkina Faso, Liberia** and **northern Nigeria**; and moderate in **Cape Verde, Côte d'Ivoire, Ghana, Mali, Niger** and **Senegal**.

• Staple commodity prices:

Inadequate rainfall reduced crop yields in **Chad** with consequent price increases for sorghum (+18%). The conflict in the Central African Republic has also disrupted livestock trade and increased the number of refugees in Chad. As a result, seasonally adjusted staple food prices soared in the southern regions: sorghum prices rose by 29% in Logone Occidental and by 62% in *Logone Oriental*; millet prices rose by 15% in *Barh Koh* and by 57% in Logone Oriental. Staple prices also increased around Lake Chad as a consequence of both trade restrictions with Nigeria and insecurity: maize cost 26% more in the *Lac* region in **Chad**, and millet cost 11% more in Niger's Diffa region. The conflict in northern Nigeria pushed up seasonally adjusted prices for sorghum (+10%), millet (+10%), rice (+12%) and maize (+13%). It also affected trade with Niger,

where seasonally adjusted prices for sorghum increased in Maradi (+12%), *Tillaberi* (+11%) and Zinder (+10%). In Ghana, a prolonged dry season damaged harvest prospects for maize: the seasonally adjusted price rose by 21% in Q4-2014 and reached ALPS crisis level in several markets in October. In Liberia, persistent restrictions to cross-border movements and currency depreciation pushed up the seasonally adjusted price of imported rice by 15%. Seasonally adjusted cassava prices increased by as much as 65% in the Ebolaaffected province of Grand Bassa in Liberia. In Guinea-Bissau, seasonally adjusted prices were up for local millet (+16%), sugar (+19%) and imported rice (+11%) because of belowaverage production.

• Fuel prices: Diesel prices increased significantly in Gambia (+4.6%) in Q4-2014. • **Purchasing power:** The quarterly headline inflation rate was negative in **Benin** (-3.4%), driven by negative quarterly changes in the food CPI. In **Senegal**, the economy has been in a deflationary period since February 2014, predominantly caused by low international food prices. **Ghana** saw high quarterly headline inflation (+3.4%) and y/y headline inflation (+17%), because of the continued impact of currency depreciation.



Middle East, North Africa and Central Asia

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 was severe in **Armenia, Kyrgyz Republic**, and **Syria**. It was moderate in **Palestine** and **Tajikistan**.

• Staple commodity prices:

Most staple commodity prices were stable or falling between Q3 and Q4-2014. Nevertheless, seasonally adjusted potato prices soared in Armenia (+48%) in Q4-2014 because of significant crop failure in the main producing area of the country. In the Kyrgyz Republic, seasonally adjusted potato prices increased by 26%, and the ALPS indicator was at alert level in four monitored markets in November. Seasonally adjusted wheat prices were also up in the **Kyrgyz Republic** (+5%) because of below-average yields in September-October and the effects of currency depreciation on import prices. In Syria, nominal prices for wheat flour, sugar and oil rose by between 9 and 15%. A favourable harvest in Sudan saw seasonally adjusted prices fall for sorghum (-15%) and millet (-11%). However, prices remained

above 2013 levels (+34% for sorghum and +58% for millet) because of fast stock depletion, the intensification of informal exports to South Sudan and a persistent rise in transportation costs. The largest y/y price increases for millet were seen in Blue Nile (+85%), South Kordofan (+83%) and Kassala (+83%). Staple food prices fell in Yemen: seasonally adjusted quarterly prices decreased for imported rice (-11%), sugar (-11%) and vegetable oil (-7%) following a drop in fuel prices. Wheat prices were lower in all Yemeni markets (-13%) although they remained at ALPS stress level in the conflict-affected province of Sa'ada.

• Fuel prices: In Yemen, prices fell for gasoline (-13.5%) and diesel (-11.8%). However, they were significantly higher than 2013 levels (+20% for gasoline and +50% for diesel). • Purchasing power: Egypt

registered the highest y/y headline inflation (+10.3%) and y/y food inflation (+9%), attributable to the cut in fuel subsidies in July 2014. In **Palestine**, falling oil and international food prices dragged down the q/q (-2.2%) and y/y food inflation (-1.6%), which turned negative in spite of a rise in domestic wheat and sugar prices.

Armenia Kyrgyz Republic Syria Palestine Tajikistan

Azerbaijan Egypt Georgia Jordan Sudan Yemen

Asia

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2014 was moderate in **Cambodia, Indonesia, Lao PDR, Pakistan, Sri Lanka** and **Thailand**. It was low in the remaining countries of the region.

• Staple commodity prices: For all reported staple commodities, national average prices were either falling or fairly stable between Q3 and Q4-2014. Seasonally adjusted prices for rice fell in Bangladesh (-4%), Cambodia (-9%), India (-6%), Myanmar (-3%), Nepal (-2%) and Pakistan (-3%), thanks to a favourable winter harvest. In Sri Lanka, the nominal rice price rose in Q4-2014 (+7%) and was 31% higher than last year because of poor yala rice output in August-September, estimated to be 30% below 2013 levels. Moreover, ALPS still shows alert and crisis levels for two thirds of the monitored markets in India in December. Despite a good harvest season, quarterly wheat prices in Afghanistan were 9% higher than last year because of currency depreciation since August 2014.

Annual increases were registered in the border provinces of Hirat (+14%), *Badakhshan* (+16%) and *Fayrab* (+10%). In **India**, seasonally adjusted wheat prices fell by 4% in Q4-2014 thanks to a combination of ample reserves and weak exports. Nonetheless, prices were 3% higher than last year because of government purchases at higher minimum prices.

- Fuel prices: In Q4-2014, India saw lower quarterly prices for gasoline (-8.9%) and diesel (-5.9%). Prices also fell in Lao PDR (petrol -4.3% and diesel -3.2%) and Pakistan (petrol -5.3% and diesel -4.3%). Quarterly diesel prices dropped significantly in Afghanistan (-7.4) and Sri Lanka (-7.5%).
- Purchasing power: Quarterly changes in the CPI were low or

slightly negative in most countries. Despite the general reduction in staple commodity prices, y/y headline inflation in **Indonesia** was 6.7%. Y/y inflation was moderate in **Lao PDR** (+2.8%), Philippines (+3.6%), **India** (+ 5%) and **Pakistan** (+4.7%).

> Cambodia Indonesia Pakistan Philippines Sri Lanka Thailand

Afghanistan Bangladesh Cambodia India Myanmar Nepal Philippines Viet Nam

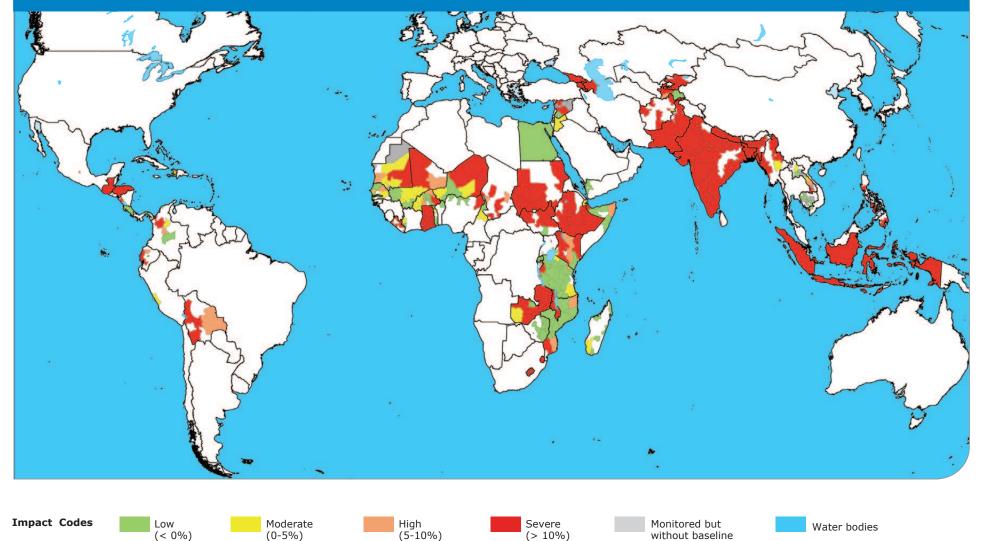
Consumer Price Index and Fuel Prices

				Quarterly an	d Yearly Changes	in Q4-2014 (Octobe	r-December)		
egion	Country		Quarter-c	on-Quarter			Year-o	n-Year	
		General CPI	Food CPI	Gasoline	Diesel	General CPI	Food CPI	Gasoline	Diesel
	Bolivia	0.62%	0.26%			4.42%	4.28%		
	Colombia	0.17%		-1.17%	-0.72%	3.20%		2.50%	1.12%
	Costa Rica	-0.11%	0.91%			5.57%	6.15%		
ean	Dominican Republic	0.09%	2.24%			2.64%	5.60%		
ribb	Ecuador	0.75%	0.78%			3.73%	4.48%		
Latin America and Caribbean	El Salvador	-0.41%				1.37%			
ca an	Guatemala	0.42%		-12.58%	-9.73%	3.32%		-12.50%	-13.90%
neri	Haiti	1.67%	1.14%			6.44%	5.67%		
in Ar	Honduras	0.56%	1.08%	-9.47%	-8.50%	6.18%	6.20%		
Lat	Mexico	1.36%	1.41%			3.86%	5.72%		
	Nicaragua	1.06%	3.71%			6.89%	12.88%		
	Panama	-3.17%				-1.42%			
	Peru	0.30%				3.15%			
	Lesotho	0.10%	-2.82%			3.83%	2.47%		
	Madagascar	0.89%		0.00%	0.00%	5.11%			
Southern Africa	Malawi	8.57%	14.21%			20.91%	17.55%		
ern A	Mozambique	0.02%				1.65%			
nthe	Tanzania	0.62%	0.76%	-5.34%	-5.05%	5.49%	6.58%	0.58%	-3.69%
x	Zambia	1.03%	1.06%			7.96%	7.12%		
	Zimbabwe	-0.71%				-0.53%			
	Burundi	-0.13%	-0.56%			3.80%			
	Ethiopia	1.04%	0.20%	-2.13%	-1.64%	6.21%	4.65%	3.91%	5.10%
Africa	Kenya	0.31%		-15.02%	-7.73%	6.18%		-10.80%	-8.78%
¥	Rwanda	-1.23%	-3.73%			-1.91%	-5.14%		
	Uganda	0.55%	-0.94%			1.72%	-2.71%		
	Benin	-3.35%	-2.43%			-0.22%	-2.30%		
	Burkina Faso	-0.46%	-1.99%			0.12%	-2.30%		
	Chad	-0.03%	-0.65%			1.67%	2.5070		
	Côte d'Ivoire	-0.06%	0.45%			0.84%			
	Gambia		014570	0.41%	4.55%	0.017			
	Ghana	3.37%		0.1170	4.5570	17.00%			
West Africa	Guinea-Bissau	0.31%				0.03%			
	Mali	0.49%	-0.90%			2.05%	0.14%		
	Mauritania	0.4570	10.62%			2.0370	14.62%		
		-0.31%	-1.14%			-0.71%	-0.07%		
	Niger	1.70%	1.81%			7.98%	9.20%		
	Nigeria Senegal	0.30%	0.32%			-1.45%	1.28%		
ō									
al As	Armenia	2.39%	3.30% 2.55%			1.84%	1.43% 0.14%		
entr	Azerbaijan								
e S	Egypt	1.95%	0.06%			10.34%	8.98%		
Middle East, North Africa, Central Asia	Georgia	1.45%	3.31%			2.78%	2.00%		
Ę	Iraq	1.36%	3.42%			1.88%	0.10%		
st, N	Jordan	0.22%	1.72%			1.94%	1.92%		
e Eas	Palestine	0.02%	-2.21%			1.25%	-1.59%		
ig	Tajikistan	0.16%	-0.12%			0.23%	0.09%		
2	Yemen	0.31%	-0.70%	-13.46%	-11.76%	7.58%	3.18%	20.00%	50.00%
	Afghanistan	-0.26%	-0.93%		-7.43%	2.17%	3.35%		-10.96%
	Bangladesh	2.08%	2.44%			6.14%	6.44%		
	Cambodia	-0.21%	-0.34%			2.94%	3.90%		
	India	0.44%	-0.13%	-8.87%	-5.92%	4.96%	4.81%		
	Indonesia	2.73%				6.65%			
	Lao PDR	0.07%	-0.05%	-4.31%	-3.20%	2.75%	4.91%	-1.44%	-3.78%
	Myanmar				-3.01%				
	Nepal				-3.00%				
	Pakistan	-0.13%	-1.09%	-5.34%	-4.34%	4.69%	2.66%		
	Philippines Sri Lanka	0.05%	0.49%		-7.50%	3.56% 1.76%	6.34%		

Note: The calculation of quarterly changes uses averages of indices or prices for the respective quarters.

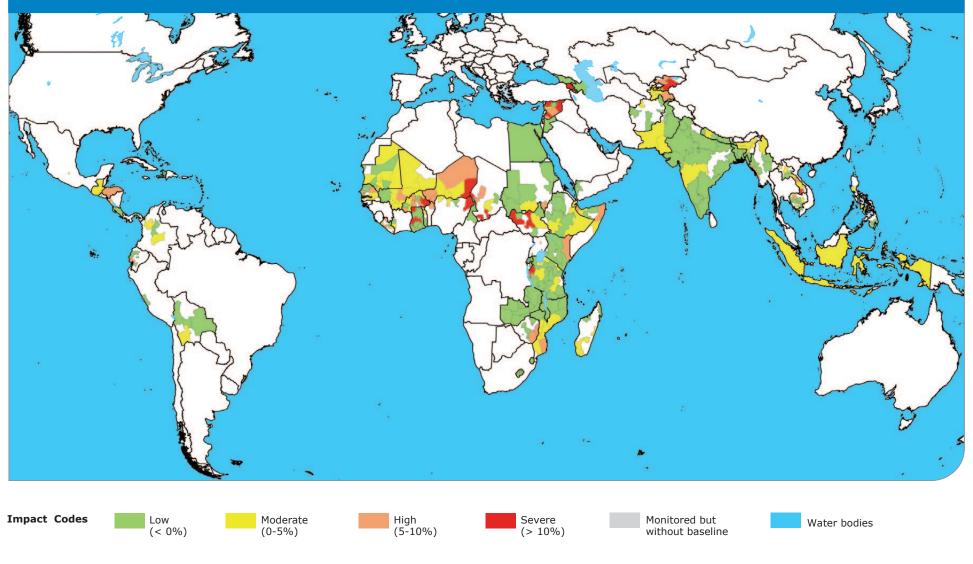
Impact of staple commodity price changes on the cost of the basic food basket





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Q4-2014 (October to December) vs. Q3-2014 (July to September)



Note: This map is based on the calculations at subnational level of **column L** of the table on page 8-12.

Maps produced by: VAM - Food Security Analysis (OSZAF).

Source: WFP; Base Map: UNCS.

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Magnitude of quarterly price changes and their impacts on the cost of the food basket, by country and commodity

								Change	Price trend			04 80 P.S.Y	
								< 0%	Decreasing			High High Kinet High Kinet Kine Kine	
								>= 0% and < 5%	Stable				
								>= 5% and < 10%	Slightly increasing		н	igh	
								>= 10%	Increasing		Se	vere	
									4			ł	
Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	Monthly change from	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food	and the second se		# of years in baseline
			(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)		basket (%)	from previous quarter (%)	from baseline (%)	(the last 5 years) [* see footnote]
Α	В	с	D	E	E F	G	н	S - 11	J. J.	К	L	M	N
		Wheat	19	-15	-17	-40	-38	-4	4	40			5
	Bolivia	Rice (Estaquilla)	14	-3	-5	-5	-4	+30	\downarrow	49	-11	+9	5
		Maize	13	-13	-15	-21	-20	-8	\downarrow	11			5
		Maize (White)	13	-1	+2	N/A	N/A	+34	\rightarrow	7			4
		Sugar	13	-2	+5	+5	+4	-2	Л	7			2
		Rice (White)	12	-3	+3	+10	+2	-8	\rightarrow	8			2
	Colombia	Oil	8	+15	+3	+87	+43	+43	\rightarrow	8	+2	10	2
	Colombia	Wheat Flour	8	0	+3	+1	0	-16	\rightarrow	4	16		5
		Milk	7	+2	N/A	+19	+7	N/A	\rightarrow	53			•
		Bananas	5	-1	N/A	-3	+3	N/A	\downarrow	8			•
		Plantains	5	-1	+3	+27	+19	+21	\rightarrow	6			2
	Costa Rica	Rice (Ordinary Second Quality)	17	0	-4	0	0	-6	4	100	-4	-6	5
	Dominican Republic	Rice (Ordinary Second Quality)	17	0	0	-1	-3	-1	→	42	+3	+11	5
	bonniedintepublie	Meat (Chicken)	5	+5	+5	+8	+10	+21	Z	58			5
	Ecuador	Rice (Long Grain)	19	-4	-4	-1	+3	+12	4	64	-1	+8	5
	LCOROLI	Wheat Flour	13	+4	+3	-1	-1	0	→	36		+8	4
5		Maize (White)	25	-1	+13	+26	+24	+14	1	44			5
ea Be	El Salvador	Beans (Red)	6	-13	-19	+65	+139	+55	\downarrow	46	-3	Low Moderate High Severe ↓ 1 1 1 1 1 1 1 1 1 1 1 1 1	5
Latin America and Caribbean		Sorghum	6	-3	-4	+5	+6	-13	4	10			5
, E		Tortilla (Maize)	36	+4	+4	+12	+13	+39	→	51			5
- P	Guatemala	Sugar	14	+1	0	+7	+8	+16	\rightarrow	9	+2	+29	5
F	A CONTRACTOR	Bread	11	+1	-1	+6	+5	+23	\downarrow	33			5
3		Oil (Cooking)	8	0	0	+2	+1	+12	→	7			5
eri		Rice (Tchako)	23	+1	-4	-4	-2	+4	\checkmark	57			5
Ę	Haiti	Wheat Flour	12	-1	-4	-8	-8	+1	\downarrow	20	-1	+3	5
è		Maize (Local)	9	+3	+7	0	0	+2	R	11			5
ati		Oil (Vegetable, Imported)	7	0	+1	0	0	+1	→	11		1	2
-		Maize (White)	26	-18	+13	+18	+21	+6	1	38		1000	5
	Honduras	Beans (Red)	5	-3	-3	+67	+125	+89	\checkmark	41	+7	+31	5
		Rice (Milled 80-20)	5	-2	-5	0	0	+10	4	21			5
	Mexico	Maize (Tortillas)	32	0	0	0	0	+12	→	100	0	+12	5
		Maize (White)	23	-12	+19	+19	+18	+32	1	13			5
		Rice (Ordinary Second Quality)	17	-3	-4	+10	+10	+25	\downarrow	22			5
	Nicaragua	Sugar	15	+1	-1	+4	+4	+27	4	13	-1	+32	5
		Bread	9	+2	-2	+4	+4	+9	\downarrow	30			5
		Beans (Red)	7	-3	-16	+125	+169	+110	4	22			5
	and the second sec	Rice (Ordinary First Quality)	24	-4	-6	-32	-31	-24	4	38	7.4	1.000	5
	Panama	Bread	12	0	0	-24	-27	-16	<i>→</i>	52	-4	-18	5
		Maize	7	0	-4	0	0	+7	4	10			5
		Rice (Local)	21	+1	+1	+4	+3	+5	<i>→</i>	25			5
	200	Wheat Flour (Local)	14	0	0	+2	+2	+6	→	27	1.00	1000	5
	Peru	Potatoes	8	-4	-6	-18	-17	-4	4	24	-1	+3	5
		Sugar	8	+1	-2	+2	+2	-15	4	7			5
		Maize (Local)	7	-1	+1	0	0	+14	<i>→</i>	16			5

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	Monthly change from	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on ood basket	# of years in baseline
HCBION .	country	main supre roou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	The trend	basket (%)	from previous quarter (%)		(the last 5 years) [* see footnote]
Α	В	C	D	E	F	G	н		J	K	L	M	N
	in the state of th	Maize Meal	56	-2	-3	+1	+2	+14	4	75			4
	Lesotho	Wheat Flour	14	0	-1	+5	+5	+13	\downarrow	25	-3	+14	4
	Madagascar	Rice (Local)	49	+8	+1	-11	-12	-1	<i>→</i>	100	+1	-1	5
	Aduland	Maize 53 -10 -17 -38 -37 +28 Cassava Root 6 -20 -25 +17 +23 +50 Maize Grain (White) 20 +10 -3 -20 -23 48 Wheat Elour 9 -2 -3 -3 -4 -1	-37	+28	\downarrow	68	20		5				
	Malawi		4	32	-20	+34	2						
		Maize Grain (White)	20	+10	-3	-20	-23	-8	↓	24			5
	Mozambique	Wheat Flour	9	-2	-3	-3	-4	-1	\downarrow	33	+1 -1 -20 +34 -4 -2 -1 +27 -5 -4 -12 +17 -6 -11 -16 -12 +1 0	3	
ic	wozamoique	Rice	8	+3	0	-4	-1	+3	\rightarrow	29	-4	from baseline (%) M +14 -1 +34 -2 -2 +27 -4 +17 -11 -12 0 +34 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -3	5
Af		Oil (Vegetable, Local)	5	-4	-5	-3	-6	-6	\downarrow	15			5
L'		Maize Meal	25	-2	-2	0	+2	+38	\downarrow	36			5
Southern Africa	Swaziland	Wheat Flour	16	-1	+1	+11	+10	+22	\rightarrow	33	-1		3
5	Strazilaria	Sugar	11	0	+2	+3	+6	+21	÷	17			3
S		Rice	8	+1	0	+2	+2	+22	→	14	ki		5
		Maize	26	-8	-19	-29	-27	-17	\downarrow	33			5
	Tanzania	Rice	10	+15	+3	+16	+11	+2	<i>→</i>	42	-5	-4	5
		Beans	5	+8	-5	+7	+7	+7	\downarrow	24			3
	Zambia	Maize Grain (White)	51	-8	-26	-7	-7	+12	\downarrow	53	-12	+17	3
	Lumbru	Cassava Meal	13	+10	+8	+32	+19	+23	7	47			2
	Zimbabwe	Maize Grain (White)	41	+5	-6	-31	-27	-11	\downarrow	100	-6	-11	4
		Potatoes (Sweet)	17	-2	-17	+1	+1	-27	\downarrow	39			5
	Burundi	Beans	16	+6	-10	-24	-22	-1	\downarrow	26	-16	.12	5
	burunur	Cassava Flour	13	-8	-13	-9	+10	-2	\downarrow	18			5
		Maize Grain	13	-9	-21	-10	-4	+10	\downarrow	17			5
		Wheat Flour	34	+2	+4	+13	+11	+10	\rightarrow	44			5
	Djibouti	Rice (Imported)	17	-1	0	+1	+1	-6	→	23	+1		5
	- Justin	Oil (Cooking)	15	0	-1	0	0	-3	4	19			2
		Sugar	11	-6	-3	-3	-3	-11	4	14			2
		Maize (Local)	21	-12	-5	-15	-10	+28	\downarrow	36		the second of the	5
	Ethiopia	Sorghum	12	0	-3	-16	-7	+38	\downarrow	29	0	+39	5
<u>.5</u>		Wheat Grain	12	+4	+8	+30	+21	+54	R	35		2	5
Afr		Maize (White)	35	-1	0	-6	-3	+13	→	27			5
Central and Eastern Africa	Kenya	Bread	9	+10	+9	0	+2	+25	Я	19	+7	+26	5
te	Concerns.	Oil (Cooking)	8	+26	+19	-1	+7	+12	1	9			5
Eas		Milk	7	+8	+7	0	+6	+40	Л	45			5
P		Bananas	17	+4	0	-4	-6	-39	<i>→</i>	27			5
ē		Potatoes (Irish)	12	-14	-13	-19	-11	+4	4	23			5
tra	Sector Con	Beans	11	-8	-20	-32	-23	+3	4	11	1.1	20.00	5
e	Rwanda	Cassava	11	-5	-11	-17	-13	+6	↓	13	-6	-9	5
<u> </u>		Potatoes (Sweet)	11	-2	-10	-9	-2	+24	4	16			5
		Sorghum	8	+12	+2	+43	+41	+31	→ -	7			5
		Maize	5 29	+4	-11	-20	-19	-2	4	3			5
	Somalia	Sorghum (White)	29	+4	+2 +4		+3	+4	→ ``	79	+4	0	2
		Rice (Imported)	26	-1 +18	+4 +13	-9 +12		-10 +39	→ ^	21			5
	South Sudan	Sorghum (White)	26	+18	+13 +30	+12 -4	+12 +31	+39	<u>Т</u>	71 29	+17	+41	5
		Millet (White)	13	+28	-9	-4	-21		4	41		-	4
		Cassava Flour Maize Grain	9	-8	-9	-23	-21 -31	+1 -22	4	41			4
	Uganda	Beans	5	-16	-9	-42 -8	-31 -14	-22	+	22	-7	-4	3
		Beans Millet Grain	5	-10	-4 -3	-8 -14	-14 -9	+2	*	22			3

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly	Monthly change from	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food			baseline
Region	country	Main staple roou	(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	Price trent	basket (%)	from previous quarter (%)		(the last 5 years) [* see footnote]
Α	В	C	D	E	F	G	н	1	J	K	L.	M	N
		Maize (White)	19	-18	-3	-29	-31	-37	4	17	1		5
	Realiz	Gari	16	-20	-18	-35	-35	-23	4	29	-8	10	5
	Benin	Rice (Imported)	13	-2	-2	-6	-5	-4	4	45	-0	-19	5
		Sorghum	5	-7	-10	-26	-21	-26	\downarrow	10			5
		Sorghum	26	-2	+5	+9	+6	+5	Л	34			5
	Burkina Faso	Millet	22	-4	+3	+9	+5	+3	→	33	+5	+2	5
	Durking 1030	Maize	16	-6	+5	-8	-6	-9	R	16	10 A		5
		Rice (Imported)	6	+1	+1	+3	+2	+3	<i>→</i>	17			5
		Maize	15	-11	+4	0	-2	-2	→	34			3
	Cameroon	Cassava (Cossette)	12	+3	N/A	+22	+22	+27	<i>→</i>	20	-9	+2	3
	1	Rice (Local)	10	-9	-15	-6	-4	0	4	32			3
		Sorghum (Red)	8	-20	-3	-5	-8	-9	+	14	1		3
	Cape Verde	Rice (Long Grain, Imported)	19	-1	-2	-2	-4	-4	¥	64	0	-2	5
		Wheat	13	0	+1	0	-1	+3	→ ↑	36	-		5
	Chad	Sorghum Millet	18	-4	+18	+5	-2	+12		40 45	+11	112	
	Chad		5	-4 -12	+6 +3	+5 +15	-7 +1	+9 +28	R	45	+11	+12	5
		Maize Rice (Denikassia, Imported)	20	+4	+3	+15	+1 +1	+20	\rightarrow	47			5
	Contraction and Contraction	Cassava	12	+10	+4	+19	+17	0	7	20			5
	Côte d'Ivoire	Oil (Palm)	9	-3	-5	-11	-11	-7	4	20	+1	0	3
		Corn	7	+7	+8	0	0	+6	7	13			3
		Cassava	21	-2	-1	-6	-5	+35	4	26			5
	1.00	Maize	12	+5	+21	+81	+74	+90	* *	15			5
	Ghana	Yam	11	-9	+9	+15	+10	+54	7	38	+2	+59	5
		Rice (Local)	8	+4	+3	+53	+55	+92		21			5
		Rice (Imported)	35	0	+11	0	0	+40	1	50			4
		Oil (Vegetable, Imported)	11	+2	+8	+5	+2	+14	R	11			4
West Africa	Guinea-Bissau	Maize	8	+4	+4	+8	+4	+4	→	20	+10	+22	4
	and the second second	Millet	8	+2	+16	+4	+2	+17	1	13			4
		Sugar	5	+10	+19	0	-8	-3	↑	6			4
		Rice (Imported)	32	+17	+15	+31	+31	+25	<u>↑</u>	62			2
	Liberia	Cassava	21	-11	-21	+3	+10	+9	4	18	+5	+21	3
		Oil (Palm)	15	+9	+2	+17	+17	+22	→	20			5
		Rice (Local)	21	+1	+3	+1	+2	-1	→	47			5
	Mali	Millet	20	-4	-1	-4	0	0	\downarrow	28	+2	-1	5
	1.000	Sorghum	13	-2	+4	+3	+6	+1	<i>→</i>	16	100		5
		Maize	9	-3	+5	-2	0	-6	R	10			5
		Wheat	30	+3	-1	+1	+2	+11	.↓	34			5
	and the second	Sugar	12	-6	-9	-12	-8	-8	¥	18	1.1.1		5
	Mauritania	Oil (Vegetable)	11	-2	-2	+4	+3	+9	¥	14	-1	+8	5
		Rice (Imported)	11	+1	-3	+5	+1	+12	÷	19			5
		Sorghum (Taghalit)	7	+3	0	+14	+13	+20	Ż	15			5
	Niger	Millet Sorghum	39 11	-13 -5	+6 +8	-14 -14	-14 -10	+3 +7	ת ת	60 17	+3	+3	5
	Niger	Rice (Imported)	7	-5	+0 +1	-14	-10	+1	7	23	*2	*3	5
			13	-7		-1	-14			23			5
	A CONTRACTOR OF THE OWNER	Sorghum Millet	13	-//	+10 +10	-15 -12	-14 -17	-4 -2		23			5
	Northern Nigeria	Maize	8	-11	+10	-12	-17	-2	*	14	+8	+1	5
		Rice (Imported)	8	+9	+12	+6	+8	+9	^	41			5
		Rice (Imported)	30	-2	-1	-2	-1	-5	+	65			5
	Senegal	Maize (Imported)	10	+1	+1	-1	-2	+3	↓ →	18	0	0	5
		Millet	8	-4	+4	-6	-1	+17		16			5
		Maize (White)	24	-7	+3	-19	-24	-24	÷	17			5
	100000	Cassava	15	-10	-6	-19	-23	-5	Ý	45	a second second	1.000	5
	Togo	Rice (Imported)	10	-1	+1	0	-1	+2	÷	28	-2	-7	5
		Sorghum	8	-2	+2	-8	-15	-4	+	10			5

egion	Country	Main staple food	Caloric contribution	Change from last quarter	adjusted quarterly		Quarterly change from		Price trend	Quarterly cost share in food		act of changes on ood basket	# of years in baseline
-Bion			(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)	, nee nena	basket (%)	from previous quarter (%)	from baseline (%)	(the last 5 years [* see footnote]
Α	В	С	D	E	F	G	Н	1	J	К	L	М	N
		Wheat Flour (First Grade)	40	+2	+1	+14	+10	+17	÷	65	+14	+27	5
	Armenia	Potatoes	5	+40	+48	+30	+53	+49	†	35	+14	+27	5
	Azerbaijan	Wheat Flour	57	0	-4	+3	+5	+14	¥	68	-5	+18	5
	Azerbaijan	Potatoes	6	+4	-9	-7	+6	+27	¥	32	-3	+10	5
		Wheat Flour	35	-2	-7	0	-21	-8	4	64			4
	Egypt	Rice	12	-2	-2	-4	-17	-8	4	21	-5	-6	4
		Sugar	7	+3	+3	-7	+5	+4	÷	15			4
	Counts	Wheat Flour	41	0	-4	+2	+2	+4	¥	34		+13	5
	Georgia	Milk	10	+3	-9	+3	+3	+19	\downarrow	66	-8	+13	5
		Bread	38	-1	-1	0	0	0	Ŷ	24	1		3
	112223	Sugar	15	-2	o	-2	-3	-7	<i>→</i>	26	-1		2
sia	Jordan	Oil (Vegetable)	12	0	+4	+1	-1	+2	÷	24	-1	+1	3
		Rice (Medium Grain)	8	-1	N/A	0	+6	+11	Ŷ	26			3
iniggie East, North Africa and central Asia	Kyrgyz Republic	Wheat	40	+6	+5	+83	+80	+61	R	59	100		5
		Potatoes	8	+15	+26	+62	+42	+83	^	41	+11	+70	5
		Wheat Flour	40	+7	+6	-1	-5	-1	Я	46		-3	5
		Sugar	10	+6	+5	+2	-7	-17	7	14			3
	Palestine	Rice (Small Grain, Imported)	7	-1	-2	+24	+22	-3	¥	15	+3		5
		Oil (Olive)	5	+2	0	+8	+7	0	÷	25			5
	1924	Sorghum	60	-13	-15	+11	+34	+107	4	82		1000	5
	Sudan	Millet	9	-10	-11	+32	+58	+138	¥	18	-15	+112	5
		Wheat Flour	39	+9	N/A	-15	-18	N/A	R	63			•
	Syria	Sugar	13	+14	+13	+8	+4	+50	↑	21	+11	+32	3
		Oil	11	+15	+12	-36	-38	+14	Ŷ	16			3
		Wheat Flour (Local)	54	+3	0	+9	+6	+15	÷	69			5
		Sugar	7	0	+3	+2	0	-2	÷	16			5
	Tajikistan	Oil (Cotton)	6	+5	+6	+4	+4	+6	R	10	+1	+11	5
		Maize	5	-1	+4	+3	+3	+18	÷	5			5
		Wheat Grain	38	-8	-13	+1	+3	-6	4	50			5
		Sugar	12	-15	-11	-8	-8	-3	¥	24			2
	Yemen	Oil (Vegetable)	9	-6	-7	-27	-26	-26 -25 4	¥	13	-13	-9	2
		Rice (Imported)	6	-18	-11	-8	-11	-10	¥	13			2

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(*) Calculations based on nominal prices. For details, see 'Approach' on page 13.

Region	Country	Main staple food	Caloric	Change from last quarter	Seasonally adjusted quarterly	Monthly change from	Quarterly change from	Quarterly change from	Price trend	Quarterly cost share in food		act of changes on bod basket	# of years in baseline
			(%)	(% change)	change (% change)	last year (% change)	last year (% change)	baseline (% change)		basket (%)	from previous quarter (%)	from baseline (%)	(the last 5 years) [* see footnote]
А	В	C	D	Е	F	G	н	1	J	К	L	м	N
	Afghanistan	Wheat	58	+2	-2	+8	+9	+26	¥	63	-4	+20	5
	ABIOIISCH	Rice (Low Quality)	22	-3	-6	-9	-9	+10	¥	37			5
	Bangladesh	Rice (Coarse)	70	-1	-4	+1	+3	+17	¥	91	-5	+17	5
	Dangradesh	Atta-Packet	6	0	-6	-1	+1	+13	¥	9		·····	5
	Cambodia	Rice (Mixed)	65	-4	-9	-4	-3	-11	¥	100	-9	-11	5
		Rice	31	-3	-6	-2	0	+28	¥	54			5
	India	Wheat	22	+1	-4	+1	+3	+23	¥	32	-6	+23	5
		Sugar	7	-2	-7	0	0	+3	¥	14			5
	Indonesia	Rice	50	+4	+1	+10	+7	+26	÷	79			5
		Oil (Cooking)	7	0	0	+8	+9	+13	÷	5	+1	+21	5
		Sugar	6	0	-3	-5	-6	+2	¥	8	- 1		5
		Wheat	6	0	-1	+1	+3	+6	¥	7			5
Asia	Lao PDR	Rice (Glutinous)	64	0	0	+8	+9	+9	÷	100	0	+9	5
	Myanmar	Rice (Low Quality)	55	-2	-3	+1	+5	+17	¥	100	-3	+17	5
	Nepal	Rice	32	-1	-2	+3	+5	+19	¥	66	-4	+19	5
	нера	Wheat	15	-2	-6	-1	+3	+18	¥	34			5
		Wheat Flour	37	+1	-1	-5	-2	+25	¥	46			5
	Pakistan	Sugar	11	-2	N/A	-5	-3	N/A	¥	17	0	+26	
	Fakistali	Oil (Cooking)	9	-1	N/A	0	-1	N/A	¥	23	v	+20	•
		Rice (Basmati Broken)	6	0	-3	-10	-11	+30	¥	14			5
	Philippines	Rice (Regular Milled)	48	-2	-1	+11	+11	+24	¥	100	-1	+24	5
	Sri Lanka	Rice (White)	41	+7	+2	+29	+31	+33	÷	70	0	+27	5
	STLETING	Wheat Flour	14	0	-3	0	0	+13	¥	30	U		5
	Thailand	Rice	41	0	0	-1	-2	-19	÷	100	0	-19	5
	Viet Nam	Rice	59	-5	-15	-8	+3	-6	¥	100	-15	-6	5

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Approach

This bulletin examines price changes for staple food items and their impact on the cost of the basic food basket. For the most vulnerable population groups in developing countries, food often represents over 50% of total household expenditures, and staples contribute 40-80% of energy intake. Any change in staple food prices therefore has a big impact on overall food consumption, especially when the food basket is composed of very few items.

Monitoring the percentage changes of quarterly prices reveals whether recent changes are normal or abnormal when compared to a reference period (e.g. the previous quarter, the previous year or the baseline period).

Column D shows **what each food item contributes to total household energy intake**. The analysis is based on quarterly price¹ changes of the main food items (those that contribute at least 5% of caloric intake²):

- i) "Change from last quarter" (column E) shows how far quarterly nominal prices have changed from the previous quarter (percentage change).
- **ii)** "Seasonally adjusted quarterly change" (column F) shows how far quarterly prices have changed from the previous quarter, once prices have been adjusted for seasonality (percentage change). This indicator is calculated by dividing each monthly nominal price by its corresponding baseline average price.³
- iii) "Monthly change from last year" shows how the monthly nominal price has changed from the same month in the previous year (percentage change). The indicator reflects the data for the latest available month of the last quarter.
- iv) "Quarterly change from last year" (column H) is the percentage change of the quarterly nominal prices.
- v) "Quarterly price change from baseline" (column I) shows how far quarterly prices have changed from baseline average prices⁴ (percentage change).

How the impact on the cost of the food basket is assessed

The **'cumulative impact of the quarter'** (column L) shows the partial (known) change in the total cost of the food basket since the previous quarter. The **'cumulative impact from the baseline'** (column M) shows the change from the baseline. This approach seeks to derive the quantities of food consumed from the caloric contribution of each item in order to estimate the cost of the food basket and from there, the impact of price changes.

The impact calculation assumes that each food basket provides 2,100 kcal a day, and that the proportional caloric contribution is a proxy of the relative importance of the item in the food basket. It comprises the following calculations:

a) the total food basket energy is multiplied by the proportion of each item to give the absolute energy (in kcal) each item contributes to the total energy intake; b) each item's absolute energy is divided by its caloric density⁵ to give the weight of that item in the food basket; and c) each item's weight is multiplied by its unit nominal/seasonally adjusted price to calculate the relative cost of each food basket item.

Costs are only calculated for energy contributors for which prices are available. To avoid bias, the other energy contributors that fill the gap to 2,100kcal are ignored. Thus, the total cost of the known part of the food basket is the sum of the itemized commodity costs (step c).

The **'quarterly cost share of food basket'** (column K) indicates the proportion each item represents in the total cost of the known food basket. The cumulative impact values are then calculated by comparing the seasonally adjusted $cost^6$ of the food basket with the cost in the previous quarter (column L) and against the baseline period (column M), as percentage changes. The likely impact is considered low when the percentage change is below 0, moderate when it is between 0 and 5%, high between 5 and 10%, and severe above 10%.

For further details on this approach, please visit <u>http://www.wfp.org/content/price-analysis-methods</u>

- 2. Caloric contributions are based on FAO 2005-2007 estimates.
- The baseline is an average of prices for the last five years of the same month. Note that this indicator requires a minimum two years' worth of data (see column N).
 See note 3 above.
- See note 3 above.
 Caloric densities are based on NutVal 3.0 estimates.
- 6. For countries where seasonally adjusted prices cannot be derived, the nominal food basket cost is considered to measure the impact.

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^{1.} Prices are calculated as indices, using reference years. 'Last year' captures 12-month percentage changes, and 'last 5 years' captures percentage changes from long-term patterns.