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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 69 countries in the fourth quarter of 2015 (October to December).¹ The maps on pages 6-7 disaggregate the impact analysis to sub-national level.

Global Highlights

- During Q4-2015, FAO's global cereal price index fell by a further 15.2 percent year-on-year because of abundant supplies and sluggish demand. The index returned to the level seen before the food price crisis of 2007-08.
- The real price² of wheat dropped by eight percent over the last quarter. It fell by more than 25 percent compared with Q4-2014 mainly because of world record production and higher ending stocks.

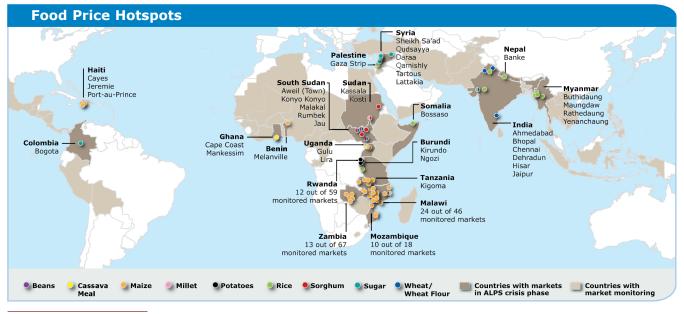
REAL PRICE ADJUSTED FOR CHANGES IN US CONSUMER PRICE INDEX (2005 = 100)										
Quarterly Change	Maize	Wheat	Rice	Note: Comparison to						
q4-2015 vs. q3-2015	0%	-8%	-2%	Third quarter in 2015						
q4-2015 vs. q4-2014	-4%	-27%	-15%	Same quarter in 2014						
q4-2015 vs. q1-2008		-59%		Global wheat price peak in 2008						
q4-2015 vs. q2-2008	-40%		-65%	Global maize and rice price peak in 2008						

- The real price of maize remained constant compared with Q3-2015. Despite lower than expected production forecasts for 2015/16, global supplies were comfortable amid above-average closing stocks.
- During Q4-2015, the real price of rice decreased by two percent. As in Q3, prices were 15 percent below

2014 levels. However, global rice supplies may tighten in 2015/16.

World Food Programme

- In Q4-2015, the real price of crude oil dropped a further 12 percent compared with Q3-2015 and reached its lowest level in the past eleven years.
- The cost of the minimum food basket increased severely (>10%) during Q4-2015 in nine countries: Burundi, Malawi, Niger, Peru, Rwanda, South Sudan, Sudan, Syria and Turkey. *High* increases (5-10%) were seen in Benin, Cameroon, Ghana, Somalia, Sri Lanka, Uganda and Yemen. In the other monitored countries, the change was *low* or *moderate* (<5%).
- Price spikes, as monitored by <u>ALPS</u> (Alert for Price Spikes), were evident in 19 countries, particularly in Ghana, Haiti, India, Malawi, Mozambique, Myanmar, Rwanda, Somalia, Sudan and Syria (see the map below).³ These spikes indicate *crisis* levels for the two most important staples in each country, including beans, cassava meal, maize, millet, potatoes, rice, wheat, sorghum and sugar.



 Data were collected and collated by WFP country offices and are available at: <u>http://foodprices.vam.wfp.org</u>. Additional data sources are FAO Food Price Index, FAO/GIEWS Food Price Data and Analysis Tool, and IMF Primary Commodity Prices as on 19 January 2016.

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

3. A market is designated as a hotspot if prices for the country's two most important caloric contributors 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 (q/q)

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 2015 was severe in **Peru**; moderate in **Colombia, Dominican Republic, Haiti, Nicaragua** and **Panama**; and low in the other countries.

• Staple commodity prices: In Peru, quarterly cereal prices stabilized with the reprise of cereal production (+0% maize and $-1^{'}$ % rice; $+1^{'}$ % wheat flour). By contrast seasonally adjusted prices of potatoes rose above expectations (+39%) as intense heat caused by El *Niño* compromised the planting season. In Colombia, prolonged dry weather associated with El Niño hampered crop production. Seasonally adjusted prices increased for rice (+13%) and plantains (+19%) since Q3-2015. Sugar prices soared in Antioquia (+47%) and Cundinamarca (+40%). Drought affected maize yields in Honduras and seasonal maize prices increased by nine percent during Q4-2015. In Haiti, quarterly prices for local maize were 16 percent up in

the Sud Est because of heavy crop losses. The <u>ALPS</u> indicator was at *crisis* level for maize in Jeremie and Port-au-Prince. Seasonally adjusted prices for red beans decreased atypically in **El Salvador** (-27%), **Honduras** (-24%) and **Nicaragua** (-22%) due to the early arrival of the Postrera harvest season.

- Fuel prices: During Q4-2015, fuel prices fell in line with the declining international oil prices. Quarter-on-quarter (q/q) prices for gasoline decreased in Honduras (-12.7%), and Guatemala (-13.8%). A marked drop also affected year-onyear (y/y) prices for diesel (-9.3% in Colombia, -24.8% in Guatemala) and gasoline (-8.43% in Colombia, -18.8% in Guatemala and -11.8% in Honduras).
- Purchasing power: In Haiti, the Consumer Price Index (CPI) rose by 3.1 percent because of increasing food prices (+3.0%) and the weakening local currency (gourde). Drought-reduced yields accelerated y/y food inflation in Colombia (+10.9%), the Dominican Republic (+8.2%), Guatemala (+9%) and Haiti (+13.8%).



Southern Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2015 was severe in **Malawi**; moderate in **Congo, Lesotho, Mozambique, Swaziland, Tanzania** and **Zambia**; and low in the other countries of the region.

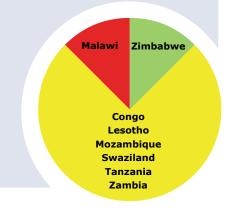
• Staple commodity prices:

In **Tanzania**, the appreciation of the local currency and lower export demand offset the seasonal increase for commonly exported staples (-1% rice and -1% beans). Seasonally adjusted maize prices increased compared with Q3-2015 with the onset of the lean season in bimodal regions (+20% in Mara; +19% in Kagera; +16% in Dodoma) and southern producing areas (+25% Rukwa). Despite steep nominal price increases for maize in Zambia (+24%), they were fairly stable after seasonal adjustments (+3%). Malawi faces an acute deficit in maize supplies as El Niño related "dry spells" severely delayed planting in central and southern provinces: the national average of seasonally adjusted maize prices rose by 13 percent compared with Q3-2015 and almost doubled

since Q4-2014 (+86%). The ALPS indicator flags that nearly all monitored markets were either at crisis or alert level for maize in December. In Mozambique, the seasonally adjusted price for maize surged in coastal provinces (+34% in Sofala and +44% in Inhambane) and was at *alert* level in Tete, Massinga and Quelimane according to the ALPS. The depreciation of the Mozambican local currency (metical) continued to push up quarterly prices for imported commodities (+4% rice and +6% oil).

- Fuel prices: In Tanzania, q/q prices dropped for gasoline (-8.6%) and diesel (-6.3%) after the national energy regulator cut the price ceiling on fuels and the Tanzanian shilling stabilized on the international currency market.
- Purchasing power: In Malawi, q/q headline inflation accelerated

by 12.5 percent and food inflation was 20.4 percent due to tight supplies and a weaker kwacha. In **Zambia**, high food exports to neighbouring countries and growing production costs drove up the quarterly CPI by 11.3 percent and the food CPI by 13.8 percent. Y/y headline inflation was high in **Malawi** (24.7%) and **Zambia** (18.3%), mainly due to food price increases.



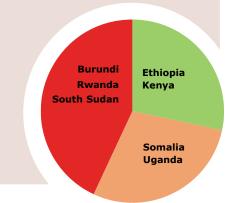
Central and Eastern Africa

Hotspots: The cumulative impact of staple food price changes on the cost of the basic food basket from October to December 2015 was severe in **Burundi, Rwanda** and **South Sudan**; high in **Uganda** and **Somalia**; and low in **Ethiopia** and **Kenya**.

- Staple commodity prices: In Burundi, seasonal adjusted prices increased for cassava flour (+5%), sweet potatoes (+9%), beans (+24%) and maize (+26%) coinciding with the lean season. Insecurity weighed further on food prices in Kirundo (+46% maize and +39% beans), Muyinga (+37% maize and +28% sweet potatoes), and Ngozi (+25% maize, +50% beans and +55% sweet potatoes) as producers abandoned cultivated lands to flee post-electoral turmoil. In Somalia, sorghum prices increased seasonally (+4%) in Q4-2015 but remained well below last year's levels in all regions (-20%). In Ethiopia, sorghum prices decreased on average by 11 percent from Q3-2015, as the Meher harvest began; however, crop prices increased atypically for sorghum in Amhara (+28%) and in Dire Dawa (+32%) and for maize in SPNNR (+30%) because of poor rains during the planting season. In Uganda, seasonally adjusted prices increased for beans
- (+22%), maize (+13%), and millet (+3%) despite the start of the harvest season - dryness in earlier 2015 had delayed land preparation and crop development. In **South Sudan** nominal prices were up by 11 percent for sorghum and 33 percent for wheat flour, while after seasonal adjustment they increased slightly (sorghum) or remained constant (millet). According to the ALPS indicator, prices for sorghum in Aweil, Jau and Konyo Konyo were at *crisis* level. Seasonally adjusted prices for maize decreased in **Kenya** (-3%) after a good harvest.
- Fuel prices: In Kenya, fuel prices fell from last year (-11.8% gasoline and -14.9% diesel). In Ethiopia, q/q gasoline prices rose by a further 8.9 percent in Q4-2015; nevertheless, the cost of fuel was lower than in Q4-2014 (-9.9% gasoline and -17.9% diesel). Q/q diesel prices skyrocketed in South Sudan (+89%) as fuel supplies remained scarce in the country and the South Sudanese pound

depreciated sharply after the introduction of a floating exchange rate policy in early December 2015.

• **Purchasing power:** Q/q headline inflation was moderate in **Rwanda** (2.9%) and **Uganda** (+3.8%) and driven by the change in food prices. In **South Sudan** y/y headline inflation skyrocketed (+84%) and q/q inflation rose sharply (+18.5% CPI and +20.2% food CPI) as insecurity, lower imports and fuel shortages continued to hit the South Sudanese economy.



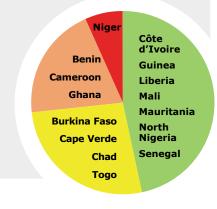
West Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2015 was severe in **Niger**; high in **Benin, Cameroon** and **Ghana**; moderate in **Burkina Faso, Cape Verde, Chad** and **Togo**; and low in the other countries.

Staple commodity prices: During Q4-2015, seasonally adjusted prices for millet and sorghum in Niger went up significantly by 19 and 7 percent respectively. Lower imports from neighbouring countries meant prices soared in southern regions Tillaberi (+37% millet and +32% sorghum) and Maradi (+19% millet and +6% sorghum). Àdditionally, insecurity drove up cereal prices in regions affected by Boko Haram, such as Agadez (+19% millet, +4% sorghum and +25% maize). Seasonally adjusted prices decreased in Burkina Faso (-1% sorghum and -1% millet), Mali (-4% millet and -3% sorghum) and Cote d'Ivoire (-7% cassava and -2% maize) thanks to adequate supplies. Despite civil unrest and displacement affecting food production in North Nigeria, above-average yields meant prices eased for local commodities (-11% sorghum and -17% millet) whereas maize prices increased by 11 percent in Kano as northern regions approached the main lean season. In Cameroon, prices changed sharply because erratic rainfall

compromised crop development before the second harvest season (+48% cassava, +22% sorghum and +5% rice). Seasonally adjusted prices increased dramatically by the border to Nigeria, such as in Nord Ouest (+51% cassava, +31% local rice, 12% sorghum and 7% maize), as insecurity disrupted agriculture. In Chad, late rains delayed planting and drove up seasonal cereal prices in Lake and southern regions: Hadjer Lamis (+13% sorghum, +10% millet and +19% maize) and Longone Oriental (+17% sorghum and +9% millet). Prices in Ghana still followed an upward trend as a consequence of the weaker local currency (cedi): most monitored markets were at crisis level for local rice and at *alert* level for maize according to the ALPS. Markets continued to rebound in Ebola-affected countries and seasonally adjusted prices decreased in Guinea (-5% rice and -9% palm oil) as well as in Liberia (-5% rice, -6% cassava and -8% palm oil) thanks to growing production and imports.

- Fuel prices: No fuel prices available.
- Purchasing power: Inflationary pressure on food prices eased in Burkina Faso (-3.7%), Chad (-5.9%) and Mali (-5.2%), reflecting the improvement in food supplies. In Ghana, y/y headline inflation remained high (+17%) as a long-lasting result of below-average production and currency depreciation. Y/y headline inflation also edged up in Guinea (+7.4%) and Nigeria (+8.9%), partly driven by the rise in transportation costs.



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 2015 was severe in **Sudan, Syria** and **Turkey**. It was high in **Yemen**; moderate in **Algeria, Armenia, Jordan** and **Lebanon**; and low in the remaining countries of the region.

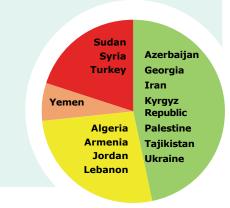
 Staple commodity prices: In Sudan, prices rose seasonally for sorghum (+17%) and millet (+7%) as poor summer rains affected crop establishment for the current harvest season. Political instability weighed on prices in Southern Darfur (+47% sorghum and +19% millet) and in White Nile (+25% sorghum and +10% millet). The <u>ALPS</u> indicator was at crisis level for sorghum in Kosti and Kassala and at alert level for millet in Al Fashir and Port Sudan. In Syria, the ongoing conflict continued to disrupt trade and access to food: seasonally adjusted prices surged for sugar (+23%) and oil (+21%). The besieged governorate of Deir Ezzor recorded the highest quarterly price increase (+27% sugar and +62% oil); sugar and oil were respectively 17 and 10 times more expensive than last year. In Turkey, bread and sugar prices were 18 and 10 percent more expensive after seasonal adjustment. In Ukraine seasonally adjusted prices for

potatoes went up by 30 percent, but down by 10 percent for bread and oil. In **Yemen**, food availability improved in December 2015 keeping quarterly price increases in check for wheat flour (+7%), sugar (+5%) and vegetable oil (+12%) by comparison with previous surges. Yet, wheat flour increased significantly in Amran (+17%), Hajjah (+18%), Sa'ada (15%) and Al Hudaydah (+10%) in the fourth quarter.

 Fuel prices: Diesel prices stabilized in Syria, recording a moderate increase from to Q3-2015 (+4.6%). A chronic fuel shortage pushed prices up in Yemen: q/q prices rose by 19.5 percent for gasoline and by 13 percent for diesel; y/y price increases were at record levels (+269.6% gasoline; +248.4% diesel). In Ukraine, q/q prices decreased for gasoline (-4.2%) and diesel (-7.1%) but were still high compared with Q4-2014 (+17% gasoline and +4.3% diesel) due to the increase in the levy for fuels.

Purchasing power: In Egypt,

q/q headline inflation rose by 3.9 percent during Q4-2015 and by 10.7 percent compared with last year as the reduction in subsidies drove up food prices (+13.9%). In **Jordan**, the appreciation of the Jordanian dinar pulled down the annual headline inflation by 21.7 percent, due to the sharp drop in exports and cheaper imported products. In **Sudan**, y/y headline inflation eased at 12.9 percent from peak levels in 2014 due to the fall in international oil prices.



Asia

Hotspots: The impact of staple food price changes on the cost of the basic food basket from October to December 2015 was high in **Sri Lanka**; moderate in **Afghanistan, Cambodia, India, Indonesia, Lao PDR, Philippines, Thailand** and **Viet Nam**; and low in the remaining countries of the region.

Staple commodity prices: Seasonally adjusted rice prices were stable or falling between Q3-2015 and Q4-2015, reflecting good availability of supplies in nearly all countries of the region. In Myanmar, the price for low quality rice decreased in Q4-2014 (-4%) thanks to a good harvest season; however, prices were at alert level in Magway, Maungdaw and Yenanchaung markets according to the ALPS. The seasonally adjusted price for sugar increased slightly in **Indonesia** (+1%); sugar prices were three percent up in **India** as sugar crops suffered severe damage from curbed monsoon rains; in Sri Lanka, quarterly sugar prices increased by six percent following the introduction of taxes on imported sugar in

September. Despite recent turmoil in southern regions of Nepal and the interruption of cross-border trade, seasonally adjusted prices decreased for wheat (-4%) and rice (-4%) during Q4-2015. Nevertheless, the <u>ALPS</u> indicator was at *crisis* level in Banke district for rice and at *alert* level for wheat in Kathmandu and Morang.

- Fuel prices: In Pakistan, fuel prices fell from Q3-2015 (-1.4% gasoline and -2.1% diesel) and from Q4-2014 (-17.7% diesel and -28% gasoline) as result of oversupplies. The plummeting of global oil prices explains the drop in q/q diesel prices in Afghanistan (-11%) and in Myanmar (-17%). Quarterly diesel prices remained unchanged in Sri Lanka due to state controls on the price for petroleum by-products.
- **Purchasing power:** Quarterly changes in the CPI and the food CPI were low to moderate in most countries. Y/y food inflation went up significantly in **Nepal** (+12%) as a prolonged period of general strikes reduced food supplies and disrupted cross-border trade in south-eastern regions.

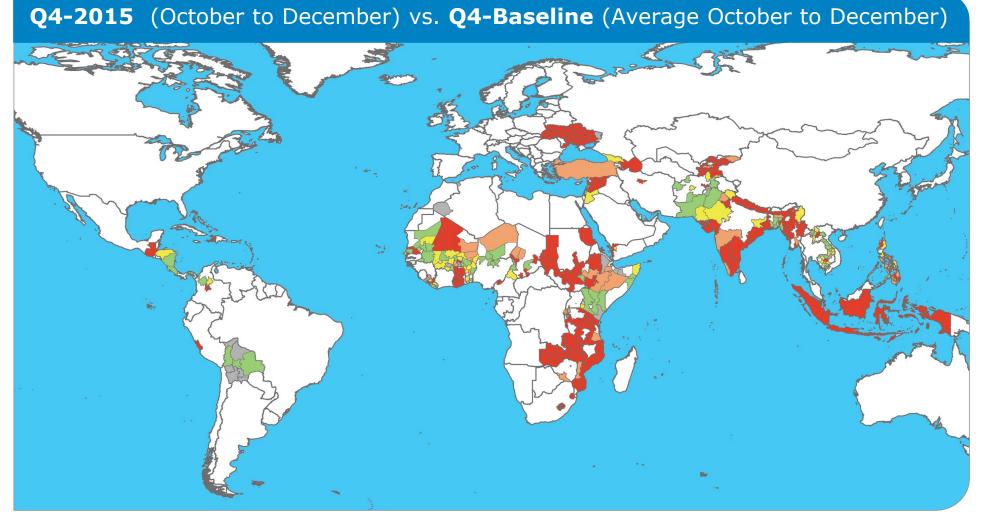


				in Q4-2015 (October-December)	
gion	Country	Quarter-o		Year-or	
		General CPI	Food CPI	General CPI	Food CPI
	Bolivia	0.81%	1.21%	3.64%	4.09%
	Colombia	1.95%		6.36%	10.85%*
	Costa Rica	-0.43%	0.38%	-0.64%	0.03%
Latili Alifetica alla Calibbeali	Dominican Republic	1.04%	4.21%	1.64%	8.24%
2	El Salvador	1.32%		-0.06%	-0.41%*
2	Guatemala	0.96%		2.60%	9.00%*
	Haiti	3.06%	3.00%	12.17%	13.77%
Ī	Honduras	-0.11%	-0.26%	2.33%	-0.26%
	Nicaragua	0.56%	2.44%	2.28%	2.03%
3	Panama	-0.56%		-0.05%*	
	Peru	0.67%		4.08%	
	Lesotho	1.26%	-0.30%	4.62%	6.00%
	Madagascar	1.09%		7.03%	6.34%*
	Malawi	12.54%	20.37%	24.69%	28.83%
4	Mozambique	5.25%		7.20%	
	Swaziland	0.56%		4.57%	3.90%*
3	Tanzania	0.94%	1.41%	6.48%	10.82%
*	Zambia	11.34%	13.80%	18.34%	21.30%
	Zimbabwe	-0.54%		-2.72%	-3.85%*
	Burundi	0.09%	-0.57%	51.24%	
	Ethiopia	-0.04%	1.38%	10.69%	16.19%
g	Kenya	1.45%		7.35%	13.26%*
Africa	Rwanda	2.90%	5.66%	6.58%	8.91%
	South Sudan	18.51%	20.22%	84.80%	107.63%
	Uganda	3.78%	6.75%	9.03%	15.06%
	Benin	0.98%	5.65%	1.61%	5.37%
	Burkina Faso	0.42%	-3.73%	2.01%	1.47%
	Cape Verde	0.10%	0.39%	-0.02%	1.43%
	Chad	-3.26%	-5.92%	0.42%	-2.26%
	Côte d'Ivoire	-3.2070	-5.5270	1.2%*	1.79%*
2	Ghana	2.86%	-1.38%	16.99%	1.7570
	Guinea	1.51%	-1.50%	7.35%	
	Guinea-Bissau	0.21%		2.60%	
3	Mali	-1.85%	-5.16%	1.42%	
	Mauritania	-5.16%	2.58%	-10.77%	-5.24%
		0.71%	2.38%	2.13%	-5.24%
	Niger	1.37%		8.92%	
	Nigeria Senegal	0.72%	2.11%	1.04%	9.84%
Milaure cast, North Arrica and Central Asia	Armenia	-1.68%	0.64%	-6.64%	-1.40%
5	Azerbaijan	1.00%	2.50%	2.95%	4.94%
	Egypt	3.91%	4.40%	10.70%	13.91%
5	Georgia	1.83%	-1.97%	5.63%	-2.89%
0	Iran	1.29%		9.50%	6.40%*
5	Iraq	0.23%	0.03%	1.33%	0.73%
٢	Jordan	-20.81%	0.20%	-21.65%	1.92%
5	Kyrgyzstan	2.04%		3.99%	
ş	Lebanon	0.29%	1.80%	-3.52%	-1.30%
2	Palestine	0.70%	1.79%	1.60%	4.86%
	Sudan	1.55%		12.92%	
	Tajikistan	-3.29%	-0.56%	-4.42%	-3.37%
	Turkey	2.82%		8.16%	10.87%*
	Afghanistan	2.32%	1.88%	-1.27%	-2.26%
	Bangladesh	1.95%	2.17%	5.96%	5.70%
	Cambodia	0.22%		2.11%	
	India	1.34%	2.94%	5.18%	6.22%
	Indonesia	0.47%		4.73%	
ť.	Lao PDR	0.00%		1.17%	
	Nepal	3.59%	4.81%	9.34%	11.98%
	Pakistan	0.75%	0.33%	2.51%	0.77%
	Philippines	0.44%	0.78%	0.99%	1.39%
	Sri Lanka	1.08%	2.18%	2.52%	4.03%

Note: The calculation of quarterly changes uses averages of indices.

* Where indices were not available, y/y changes are not based on quarterly average but on the inflation rate of the last month available.

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



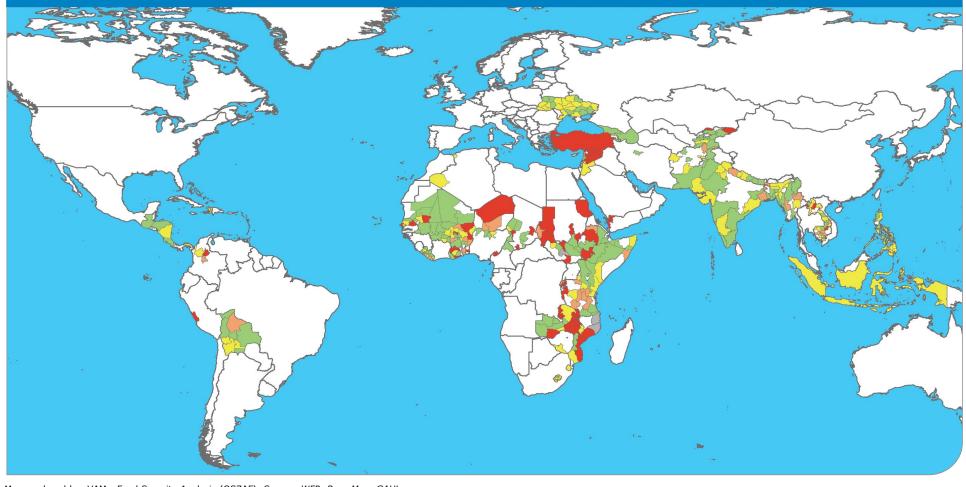
Map produced by: VAM - Food Security Analysis (OSZAF). Source: WFP; Base Map: GAUL.

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Note: This map is based on the calculations at subnational level of column M of the table on page 8-12. Baseline prices are from Q4 2010-14.

Q4-2015 (October to December) vs. Q3-2015 (July to September)



Map produced by: VAM - Food Security Analysis (OSZAF). Source: WFP; Base Map: GAUL.



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

								< 0%	Decreasing			Low	
								>= 0% and < 5% >= 5% and < 10% >= 10%	Stable		Moderate High Severe ↓		
legion	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly change	Monthly change from last year (% change)	Quarterly change from last year (% change)	Quarterly change from baseline (% change)	Price trend	Quarterly cost share in food basket			# of years in baseline (the last 5 years)
			(%)	(% change)	(% change)					(%)	from previous quarter	from baseline (%)	[* see footnote]
А	В	С	D	E	F	G	Н	1	J	К	L	М	N
		Rice (carolina 2da)	14	-2	+1	-14	-14	-7	\rightarrow	49			5
	Bolivia	Maize (hard yellow, cubano)	13	-15	-13	-26	-25	-32	\downarrow	10	-3	-12	5
		Sugar	13	-1	N/A	N/A	N/A	N/A	\downarrow	41			•
		Maize (white)	13	0	+1	+27	+33	+53	→	7			4
		Sugar	13	+22	+29	+68	+51	+49	<u>↑</u>	9			3
	Colombia	Rice (paddy)	12	+6	+13	+32	+29	+26	↑	7			3
	Colombia	Wheat flour	8	-7	-7	+32	+29	+11	↓	5	0	-38	5
		Milk (pasteurized)	7	-4	-4	+25	+4	-54	<u>↓</u>	59			4
		Bananas Plantains	5	-1 +15	-1 +19	-6 +30	-10 +15	-9 +30	↓ 	6 7			2
-		Plantains Rice (first quality)	5	+15	+19	+30	+15	+30	↑ ↓	63			5
	Costa Rica	Wheat (flour)	10	-1	-1	-3	-4	-3	↓	37	-1	-3	5
111		Rice (first quality)	10	-2	-4	+1	+1	+3	\rightarrow	45			5
	Dominican Republic	Chicken (processed)	5	+4	+4	+5	+2	+17	, →	55	+2	+10	5
E I		Maize (white)	25	-8	+2	-4	-2	+7	\rightarrow	48			5
pe	El Salvador	Beans (red)	6	-20	-27	-37	-32	-10	↓	37	-7	+1	5
li		Sorghum (maicillo)	6	+18	+13	+50	+30	+14	\uparrow	15			5
Ca	Guatemala	Tortilla (maize)	36	0	-2	+1	+5	+30	4	55			5
pu		Sugar	14	0	-1	0	0	+7	 ↓	10	-2	+22	5
g		Bread	11	+1	-2	-1	+1	+15	\downarrow	34			5
eric		Wheat flour (imported)	12	+2	0	+18	+23	+21	\rightarrow	47			5
Latin America and Caribbean	Haiti	Maize (local)	9	+4	+8	+36	+34	+40	R	29	+3	+23	5
.e		Oil (vegetable, imported)	7	+3	+3	+8	+9	+10	\rightarrow	24			3
Lat		Maize (white)	26	-18	+9	+23	+15	+22	R	50			5
	Honduras	Beans (red)	5	-23	-24	-38	-44	-15	\downarrow	27	-6	+4	5
		Rice (milled 80-20)	5	-1	-4	-6	-5	+2	\downarrow	23			5
		Rice (milled 80-20)	17	-2	-5	-6	-5	-5	\downarrow	29			*
	Nicaragua	Sugar	15	-1	+7	-3	-3	-91	R	19	0	-68	2
		Bread	9	-6	-10	-10	-6	-6	\checkmark	34			*
		Beans (red)	7	-13	-22	-31	-38	-38	\checkmark	17			•
		Rice (first quality)	24	+7	+5	+18	+17	-8	7	43			5
	Panama	Bread	12	0	-1	0	0	-15	↓	48	0	-11	5
		Maize	7	0	-3	0	0	+1	↓	9			5
		Rice (local)	21	0	-1	+1	+1	+7	↓ \	23			5
	Poru	Wheat flour (locally processed)	14	+1	+1	+2	+2	+6	\rightarrow	23	+10	+16	5
	Peru	Potatoes Sugar	8	+40	+39	+77 +19	+55 +20	+47 +3	↑ ↓	33 8	+10	+16	5
		Sugar Maize (local)	8	-1	-1	+19	+20	+3 +5		13			5
		waize (local)	/	-2	0	-4	-4	75	→	13			5
		Cassava (fresh)	32	+3	+2	N/A	N/A	-1	→	74			3
frica	Congo	Oil (palm)	11	0	+5	N/A	N/A	+61	ת	15	+2	+8	*
Southern Africa		Rice (mixed, low quality)	6	0	+2	N/A	N/A	+18	<i>→</i>	11			3
Sout	Lesotho	Maize meal	56	+3	+3	+12	+11	+23	<i>→</i>	56	+1	+20	5
		Bread (brown)	14	0	-2	0	0	+17	\downarrow	44			5
	Malawi	Maize	53	+17	+13	+88	+86	+127	^	100	+13	+127	5

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly change	Monthly change from last year	Quarterly change from last year	Quarterly change from baseline	Price trend	Quarterly cost share in food basket		oact of changes on ood basket	# of years in baseline (the last 5 years)
			(%)	(% change)	(% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]
A	В	С	D	E	State Francis	G	Н		J. State	К	La de La dese	М	N
		Cassava flour	32	-3	-12	+54	+56	+56	Ą	47			*
		Maize (white)	20	+35	+16	+81	+64	+50	ſ	16			5
	Mozambique	Wheat flour (local)	9	+4	+3	+7	+13	+13	<i>→</i>	16	+2	+33	4
		Rice (imported)	8	+8	+4	+15	+5	+4	<i>→</i>	13			5
		Oil (vegetable, imported)	5	+11	+6	+5	+6	+4	R	9			3
Southern Africa		Maize (white)	25	+5	-2	+5	+5	+7	\checkmark	18			4
uthern	Swaziland	Wheat flour	16	+1	0	-5	-2	+22	÷	41	0	+18	5
Sol	SWALINI	Sugar (brown)	11	+2	+3	+5	+7	+22	÷	23	Ť		4
		Rice	8	+2	-1	-6	-1	+15	\checkmark	18			5
	Tanzania	Maize	26	+14	+5	+69	+62	+35	R	38			5
		Rice	10	+11	-1	+24	+31	+28	¥	41	+2	+30	5
		Beans	5	+8	-1	+17	+18	+25	\checkmark	21			4
	Zambia	Maize (white)	51	+24	+3	+30	+25	+32	÷	100	+3	+32	3
	Zimbabwe	Maize	41	+8	-1	+42	+39	+26	\checkmark	100	-1	+26	5
		Sweet potatoes	17	+17	+9	-8	-9	-20	R	35			5
	a Second	Beans	16	+39	+24	+53	+27	+25	Ŷ	32			5
	Burundi	Cassava flour	13	+9	+5	-9	-10	-7	R	15	+16	0	5
		Maize	13	+35	+26	+18	+15	+21	¢	18			5
		Maize (white)	21	0	+7	+10	-5	+9	R	24			5
rica	Ethiopia	Pasta	12	-15	-24	-8	+19	+19	\checkmark	57	-14	+16	•
rn A		Sorghum	12	-6	-11	-1	-6	+14	\checkmark	19			5
Central and Eastern Africa		Maize (white)	35	-4	-3	-21	-21	-17	\checkmark	22			5
and	Kenya	Bread	9	0	-2	0	0	+16	\checkmark	21	-4	+15	5
ntra		Milk (cow, fresh)	7	-3	-5	+16	+10	+35	\checkmark	57			5
ů		Bananas	17	+18	+12	+16	+12	-23	1	27			5
		Potatoes (irish)	12	+8	+17	+46	+41	+37	Ŷ	26			5
		Beans (dry)	11	+11	+4	+21	+16	+18	\rightarrow	11			5
	Rwanda	Cassava	11	+1	+1	+13	+6	+14	÷	12	+10	+7	5
		Sweet potatoes	11	+13	+6	+18	+11	+27	R	16			5
		Sorghum	8	0	-8	-10	-8	+14	Ŷ	6			5
		Maize	5	+8	-2	+8	+3	+3	\checkmark	3			5

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted quarterly change	Monthly change from last year	Quarterly change from last year	Quarterly change from baseline	Price trend	Quarterly cost share in food basket		act of changes on ood basket	# of years in baseline (the last 5 years)	
			(%)	(% change)	(% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]	
А	В	С	D	E	F	G	H	- I	J	К	L	М	N	
		Sorghum (red)	29	+10	+4	-23	-20	-20	\rightarrow	82			*	
	Somalia										+7	-21		
p.		Rice (imported)	9	0	0	-29	-17	-23	<i>→</i>	18			3	
Central and Eastern Africa		Sorghum (white)	26	+11	+6	+145	+105	+135	٦	36			5	
tern	South Sudan	Wheat flour	15	+33	0	N/A	N/A	+194	→	49	+22	+168	3	
i East		Millet (white)	7	N/A	N/A	+242	+142	+186	N/A	15			5	
al and		Cassava flour	13	-3	-2	+61	+33	+34	\downarrow	40			5	
entra		Maize (white)	9	+5	+13	+93	+54	+27	Ť	18			4	
U U	Uganda	Beans	5	+13	+22	+40	+48	+42	Ϋ́	25	+7	+31	4	
		Millet	5	+1	+3	+21	+14	+15	\rightarrow	17			4	
_		Maize (white)	19	+5	+20	+78	+64	+38	·	20			5	
		Manioc (cassava)	16	-4	0	-11	-7	-15	\rightarrow	40			5	
	Benin	Rice (imported)	13	-1	0	0	0	+2	\rightarrow	34	+5	-1	5	
		Sorghum (red)	5	+6	+5	+15	+19	+6	7	6			5	
		Sorghum	26	-6	-1	-2	-3	-1	↓	41		0	5	
	Burkina Faso	Millet	22	-7 -5	-1 +4	-2 +15	-2 +13	-2 +3	↓ →	36	0	U	5	
	Cameroon	Maize	15	-5	-1	+13	-12	-6	 ↓	25			4	
		Cassava (cossette)	12	-7	+48	+10	+1	+16	↑	39			4	
		Rice (local)	10	-10	+5	+70	-28	-8	7	22	+8	+4	4	
		Sorghum (red)	8	-1	+22	+60	+28	+12	\uparrow	14			4	
	Cape Verde	Rice (long grain, imported)	19	+2	+4	-2	-2	-6	→	43			5	
		Wheat (flour, imported) Maize (white, local)	13	+1	+3 -3	-1 +32	-2 +37	0 +58	→ 	22 35	+1	+11	5	
		Sorghum	12	-6	+4	+52	+37	+30	↓ →	44				5
	Chad	Millet	15	-6	+1	+1	+7	+16	→ ×	43	+4	+18	5	
		Maize	5	-11	+2	-3	-3	+14	\rightarrow	13			5	
		Rice (denikassia, imported)	20	0	-2	+6	+5	+4	\checkmark	47				5
	Côte d'Ivoire	Cassava (fresh)	12	-1	-7	+2	0	-1	\checkmark	19	-4	+4	5	
		Oil (palm)	9	0	-1	+4	+2	-2	<u>↓</u>	21			4	
	Ghana	Maize Cassava	7 21	0 +3	-2 +6	+13 +21	+8 +21	+26 +40	↓ ス	13 100	+6	. 40	5	
		Rice (imported)	37	0	-5	0	0	+1	¥	86		140	3	
West Africa	Guinea	Oil (palm)	6	0	-9	0	0	-14	4	14	-3	-1	3	
ist ,		Rice (imported)	32	-2	-5	-10	-13	+6	\checkmark	61			5	
Ň	Liberia	Cassava (fresh)	21	-1	-6	-19	-15	-8	\checkmark	19	-8	+1	4	
		Oil (palm)	15	+1	-8	-7	-12	-3	↓	20			5	
		Rice (imported) Millet	21 20	0-6	+1 -4	-3	+2 -4	-1 -5	→ 	49 25			5	
	Mali	Sorghum	13	-6	-4	0	0	-1	¥	17	-1	-2	5	
		Maize	9	+2	+7	+3	+6	-1	7	10			5	
		Wheat	30	-4	-8	-7	-4	0	\checkmark	34			5	
		Sugar	12	0	+1	-10	-15	-23	<i>→</i>	16			5	
	Mauritania	Oil (vegetable)	11	0	-1	-4	-4	0	↓	14	-3	-1	5	
		Rice (imported)	11 7	+6 -8	+3 -10	+11 -22	+12 -10	+20 +1	<u>→</u>	22 14			5	
		Sorghum (taghalit) Millet	39	-8	-10	-22 N/A	-10	+1 -2	↓ ↑	14 56			4	
	Niger	Sorghum	11	0	+15	N/A	-1	+6	R	19	+10	0	4	
		Rice (imported)	7	-1	0	N/A	+2	0	→	25			4	
		Sorghum	13	-13	-11	-37	-32	-23	\checkmark	34			5	
	North Nigeria	Millet	11	-16	-17	-30	-31	-31	\downarrow	26	-6	-21	4	
	,	Maize	8	+3	+11	-3	-2	-4	↑	24			5	
	Senegal	Rice (imported) Maize (imported)	8	-2	-3 -2	-25	-25	-17	↓ ↓	16 100	-2	-1	5	
	Jenegai	Maize (mported)	24	-15	-2	+33	+43	+9	¥	21	-2	-1	5	
		Manioc (cassava)	15	+6	+10	+8	+5	-4	↑	45			5	
	Тодо	Rice (imported)	10	-3	-2	-3	-3	-3	\downarrow	24	+2	0	5	
		Sorghum	8	-5	0	+12	+14	+7	\rightarrow	10			5	

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			(%)	(% change)	(% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]
Α	В	С	D	E	F	G	Н	l I	J	K	L	М	N
	Algeria	Pasta	46	+2	N/A	N/A	N/A	N/A	→	84	+2	N/A	*
	-	Sugar	9	0	N/A	N/A	N/A	N/A	→	16			•
		Bread (first grade flour)	40	0	-2	0	+5	+8	\downarrow	46			3
	Armenia	Milk	8	-1	+2	-3	+11	+14	→	40	0	+9	3
		Sugar	8	-4	-1	-15	+1	-7	\checkmark	5			3
		Potatoes	5	-2	+1	-31	-23	+5	→	9			3
	Azerbaijan	Wheat (flour)	57	+1	-2	+9	+9	+16	\downarrow	70 -5	-5	+14	5
		Potatoes	6	+2	-6	0	-5	+11	\downarrow	30			5
	Georgia	Bread	41	0	-2	+1	0	+3	\downarrow	100	-2	+3	5
	Iran (Islamic Republic of)	Rice (local)	9	+4	-3	+8	+10	+27	\downarrow	71	-3	+27	3
		Sugar	9	+4	-1	+14	+12	+26	\downarrow	29			3
		Bread (pita)	38	0	0	0	0	0	→	23			4
	Jordan	Sugar	15	0	+1	-6	-6	-10	→	26	+2	0	3
		Oil (vegetable)	12	+7	+9	+7	+5	+6	Л	25			4
<u>.e</u>		Rice (imported)	8	0	-1	-1	-1	+7	\downarrow	26			4
As	Kyrgyz Republic	Bread	40	0	-5	+2	+5	+23	\downarrow	72			5
tra		Sugar	9	+5	+9	+5	+4	+7	7	12	-3	+12	5
e		Potatoes	8	-3	-5	-46	-43	-18	\checkmark	16			5
Middle East, North African and Central Asia	Lebanon	Bread (pita)	30	0	+5	-5	-5	-7	7	86	+1	-12	3
l ar		Sugar	11	+1	-4	-24	-23	-31	\checkmark	14			3
icar		Wheat flour	40	-1	-4	-7	-6	-7	\downarrow	42			5
Afr	Palestine	Sugar	10	0	-2	-2	-2	-15	\downarrow	14	-1	-1	4
Ę		Rice (small grain, imported)	7	-1	-2	+7	+10	+13	\downarrow	17			5
2		Oil (olive)	5	+4	+4	+7	+8	+9	→	28			5
ž	Sudan	Sorghum	60	+12	+17	+10	-3	+57	1	85	+15	+57	5
E E		Millet	9	+4	+7	-6	-13	+53	7	15			5
ğ		Bread (bakery)	39	+12	+1	+129	+106	+200	→	25			3
Ăi	Syria	Sugar	13	+31	+23	+241	+231	+342	1	49	+16	+241	4
		Oil	11	+28	+21	+140	+135	+162	<u>↑</u>	26			4
		Bread	54	+4	-3	+45	+41	+40	↓	92			5
	Tajikistan	Sugar	7	+1	+3	+12	+15	+8	→	4	-3	+38	5
		Oil (cotton)	6	+3	+2	+11	+13	+14	→	2			5
		Maize	5	-9	+1	+11	+9	+18	<i>→</i>	1			5
		Bread (common)	41	+4	+18	+10	+8	+8	<u>↑</u>		60		2
	Turkey	Sugar	8	+2	+10	+8	+8	+9	<u>↑</u>	11	+12	+7	2
		Milk (pasteurized)	5	0	-1	0	0	+4	↓	29			2
		Bread (rye)	29	+1	-10	+57	+55	+55	↓	41			*
	Ukraine	Oil (sunflower)	9	-2	-10	+61	+67	+67	4	8	-1	+50	*
		Potatoes	8	+13	+30	+90	+86	+86	1	15			*
		Milk	7	+7	+1	+34	+31	+31	→	36			*
		Wheat flour	38	+5	+7	+15	+39	+32	7	63			5
	Yemen	Sugar	12	-3	+5	-3	+4	+4	7	23	+8	+21	3
		Oil (vegetable)	9	+9	+12	+14	+29	+7	↑	15			3

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			(%)	(% change)	(% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]
A	В	С	D	E	F	G	Н	- 1	J	К	L	М	N
	Afghanistan	Bread	58	+2	+2	+6	+6	+6	\rightarrow	80	+1	+5	•
		Rice (low quality)	22	+1	-1	-3	-3	+3	\checkmark	20			5
	Bangladesh	Rice (coarse)	70	-1	-4	-19	-19	-12	\downarrow	91	-4	-11	5
	bungitutesh	Wheat flour	6	-1	-7	-8	-8	-4	\checkmark	9			5
	Cambodia	Rice (mixed, low quality)	65	+1	+4	-3	0	0	÷	100	+4	0	2
		Rice	31	+1	-1	0	-2	+15	\checkmark	54			5
	India	Wheat	22	+2	-1	+3	+2	+18	\checkmark	33	0	+12	5
		Sugar	7	+5	+3	-9	-11	-9	\rightarrow	13			5
		Rice	50	+3	0	+8	+11	+26	\rightarrow	80			5
	Indonesia	Oil (vegetable)	7	-3	-3	-5	-4	+4	\checkmark	5			5
		Sugar	6	+1	+1	+13	+13	+12	÷	9	0	+22	5
		Wheat	6	0	-1	+2	+2	+7	Ŷ	6			5
	Lao PDR	Rice (glutinous, first quality)	64	+1	+1	-4	-5	-1	÷	100	+1	-1	5
Asia	Myanmar	Rice (low quality)	55	-2	-4	+20	+18	+30	\downarrow	100	-4	+30	5
		Rice	32	-2	-4	-2	-1	+13	\downarrow	65			5
	Nepal	Wheat	15	-1	-4	+2	+2	+16	\checkmark	35	-3	+14	5
		Wheat	37	+4	+1	N/A	-5	-6	÷	45			*
		Sugar	11	-8	-10	+4	+6	+6	Ŷ	20			2
	Pakistan	Oil (cooking)	9	-1	-1	-16	-15	-15	\checkmark	22	-2	-5	2
		Rice (basmati, broken)	6	-3	-5	-14	-12	+5	\checkmark	14			5
	Dhilipping	Rice (regular, milled)	48	-1	+1	-7	-7	+11	÷	49			4
	Philippines	Meat (pork)	7	0	0	0	0	+7	÷	51	+1	+9	4
		Rice (long grain)	41	+6	N/A	N/A	N/A	N/A	R	59			*
	Sri Lanka	Wheat flour	14	+1	-2	N/A	N/A	0	\checkmark	23	+5	-4	3
		Sugar	11	+7	+6	N/A	N/A	-9	R	18			*
	Thailand	Rice (25% broken)	48	+1	+1	-3	-2	-18	÷	100	+1	-18	5
	Viet Nam	Rice (25% broken)	59	+9	+1	+4	-5	-12	÷	100	+1	-12	5

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 9 above.
 Caloric densities are based on NutVal 4.0 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.