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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 71 countries in the first quarter of 2016 (January to March).¹ The maps on pages 6–7 disaggregate the impact analysis to sub-national level.

Global Highlights

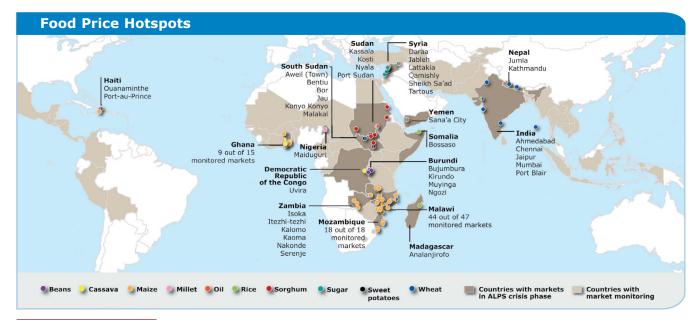
- During Q1-2016, FAO's global cereal price index fell by 14 percent year-on-year thanks to ample supplies and stock positions. The index is now at levels last seen in early 2007. The FAO global food price index is 15 percent lower than in Q1-2015.
- The real price² of wheat has fallen by 22 percent over the past year and is 3 percent below Q4-2015 levels. This is because world production is still at record levels, and ending stocks in March were 9 percent greater than those in 2014/15.
- The real price of maize came under pressure in Q1-2016 and is 9 percent lower than last year. Global supplies are abundant and export competition is high.
- During Q1-2016, the real price of rice remained constant compared to Q4-2015. It is down 15 percent from Q1-2015.
- In Q1-2016, the real price of crude oil dropped by 23 percent to its lowest level since 2004. The drop has been largely supply driven. Prices started to pick up after January.
- The cost of the minimum food basket increased severely (>10%) in Q1-2016 in eight countries:

Burundi, Republic of Congo, Ghana, Lao PDR, Malawi, South Sudan, Swaziland and Viet Nam. *High* increases (5–10%) were seen in Costa Rica, Iran, Mozambique, Myanmar, Nepal, Sudan, Thailand and Zambia. In the other monitored countries, the change was *moderate* or *low* (<5%).

CHANGE OF REAL	PRICES ADJUST	TED FOR US	CONSUMER	PRICE INDE	FX (2005 = 100)

Quarterly Change	Maize	Wheat	Rice	Note: Comparison to
q1-2016 vs. q4-2015	-7%	-3%	0%	Fourth quarter in 2015
q1-2016 vs. q1-2015	-9%	-22%	-15%	Same quarter in 2015
q1-2016 vs. q1-2008		-60%		Global wheat price peak in 2008
q1-2016 vs. q2-2008	-44%		-65%	Global maize and rice price peak in 2008

Price spikes, as monitored by <u>ALPS</u> (Alert for Price Spikes), were detected in 16 countries, particularly in **Burundi, Ghana, Haiti, India, Malawi, Mozambique, South Sudan, Sudan, Syria** and **Zambia** (see the map below).³ These spikes indicate *crisis* levels for the two most important staples in each country, which could be beans, cassava, maize, millet, oil, rice, sorghum, sweet potatoes, sugar or wheat flour.



- 1. Data were collected and collated by WFP country offices and are available at: http://foodprices.vam.wfp.org. Additional data sources are FAO Food Price Index, FAO/GIEWS Food Price Data and Analysis Tool, and IMF Primary Commodity Prices as on 19 April 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 Q1-2016, 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 ALPS website 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 January to March 2016 was high in Costa Rica; moderate in Colombia, Haiti, Honduras, Nicaragua, Panama and Peru; and low in Bolivia and El Salvador.

- Staple commodity prices: In Haiti, prices for local maize fell as expected in southern producing areas (-42% in Grand Anse; -26% in Sud) following the recent harvest. In the departments most affected by El Niño, 2015 crop losses reduced revenues and available inputs discouraging land preparation: as a result, maize supplies remained tight during Q1-2016 and maize prices rose in Nord Est (+33%) and Artibonite (+11%) in spite of better rainfall. In March, the ALPS indicator was at crisis level for maize in Portau-Prince. In Peru, seasonally adjusted cereal prices were stable (+2% maize; -1% rice; +1% wheat flour); potato prices though continued to increase from Q4-2015 (+11%) as persistent dryness severely reduced yields. In Nicaragua, seasonally adjusted prices increased for maize (+10%) in Q1-2016 and were 30 percent higher than in Q1-2015, reflecting scarce supplies following the
- drought in 2015. Quarterly red bean prices were also affected by below-average availability and prices rose in **Nicaragua** (+2%) and **Honduras** (+8%) despite the postrera harvest in December; however, they remained below Q1-2015 levels (-28% in Nicaragua; -27% in Honduras) as increased imports partially mitigated supply shortages.
- Fuel prices: Fuel prices fell following the downward trend in international oil prices. In Nicaragua, diesel prices decreased by 11 percent quarteron-quarter (q/q) and by 15 percent year-on-year (y/y). In **Colombia**, q/q fuel prices went down moderately (-2.7% gasoline; -3.6% diesel) as did y/y prices (-8.1% diesel; -6.4% gasoline). In Honduras, q/q diesel prices were down by 8 percent; gasoline prices also saw a decline both from the previous quarter (-5.0%) and from Q1-2015 (-8.1%).
- Purchasing power: In Haiti, the Consumer Price Index (CPI) rose by 13.6 percent from Q1-2015 and y/y food inflation was 15.3 percent as the depreciation of the local currency (gourde) continued to drive up the price for imported goods and the persistent drought further reduced the availability of local produce. Dry weather conditions also accelerated the increase in y/y food prices in **Colombia** (+12.4%), the Dominican Republic (+6.5%) and **Guatemala** (+10.8%).



Southern Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket during Q1-2016 was severe in Congo, Malawi and Swaziland; high in Mozambique and Zambia; moderate in Congo (DR) and Lesotho; and low in the other countries.

- Staple commodity prices:
- The harsh dryness associated with El Niño severely reduced food availability in several countries of the region. Seasonally adjusted cereal prices rose in Swaziland for maize (+55%) and rice (+16%). In **Malawi**, maize prices rose sharply from Q4-2015 in the central (+17%) and southern regions (+18%) and were more than double the prices in Q1-2015 due to deficits in the 2014/15 production cycle and the very poor prospects for the upcoming harvest in April-May. The ALPS indicator flagged nearly all monitored markets at either crisis or alert levels for maize in March. In Mozambique, crops struggled with erratic rains and stocks dwindled because of lower supplies from neighbouring countries: the seasonally adjusted price for maize skyrocketed in the south-western provinces (+59% in Gaza; +73% in Manica; +123% in Maputo) and
- was at crisis level in all monitored markets according to ALPS. Prices for imported food also increased (+20% rice; +21% vegetable oil) despite a more stable Mozambican metical. In Tanzania, seasonally adjusted prices fell from the previous quarter in line with the vuli harvest season in January-February (-2% maize; -6% rice; -1% beans).
- Fuel prices: In Tanzania, q/q prices dropped for gasoline (-8.5%) and diesel (-12.6%) after the national energy regulator reduced fuel cap prices in line with falling international crude oil prices and the stabilization of the Tanzanian shilling. However, the price for gasoline remained 3 percent higher than in Q1-2015 because of the currency depreciation in 2015.
- Purchasing power: Crop failures caused by El Niño and currency devaluation generated inflationary pressures across the region. In

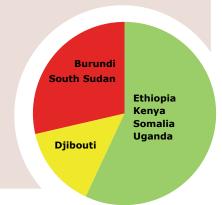
Malawi, food prices rose by 18.9 percent from Q4-2015 and by 29 percent y/y reflecting a severe deficit in food supplies and a weakening kwacha. In Zambia, energy rationing raised production costs, driving up the CPI (+22.3%) and food CPI (+26.1%) from last year. Y/y food inflation was moderate in **Lesotho** (+10.6%) and **Tanzania** (+9.5%).



Central and Eastern Africa

Hotspots: The cumulative impact of staple food price changes on the cost of the basic food basket from January to March 2016 was severe in **Burundi** and **South Sudan**; moderate in **Djibouti**; and low in the other countries of the region.

- Staple commodity prices: In Uganda, abundant rains at the end of 2015 favoured planting activities for the January-March harvest season: quarterly seasonally adjusted food prices fell (-12% maize; -12% cassava; -11% beans) as new supplies arrived in local markets. Above-average yields in Somalia reduced the price of local products (-4% maize; -3% sorghum) while localized deterioration of security conditions led to price increases for imported rice in Juba Dhexe (+5%) and Shabelle Hoose (+14%). Civil unrest, currency depreciation and a shortage of foreign currency and fuel - as well as the production effects of erratic rainfall continued to disrupt trade in South Sudan: the seasonally adjusted prices for main staples skyrocketed from Q4-2015 (+60% sorghum; +63% wheat flour; +38% millet) despite the end of the harvest in January and were at record levels compared with Q1-2015 (+245% sorghum; +200% millet). In
- March, the ALPS indicator was at crisis level for sorghum and wheat flour in all monitored markets. In **Burundi**, widespread insecurity discouraged October planting activities in preparation for the winter harvest season, driving up seasonally adjusted food prices in conflict-affected areas such as Muyinga (+17% sweet potatoes; + 12% beans; +58% cassava flour), Kirundo (+31% sweet potatoes; +30% cassava flour) and Bujumbura (+35% sweet potatoes; +32% beans).
- Fuel prices: In Ethiopia, quarterly prices fell for gasoline (-5%) and diesel (-4.2%) after the reduction of fuel price caps in early February. The price of gasoline also decreased in Kenya from the previous quarter (-5.7%) and from Q1-2015 (-2.4%). The q/q price for diesel increased dramatically in South Sudan (+57%) as the country is facing severe fuel shortages and unprecedented currency depreciation.
- Purchasing power: Q/q food inflation eased in Ethiopia (-4%), Rwanda (-3.4%) and Uganda (-4.7%); nevertheless, food prices remained higher than last year (+9.6% in Ethiopia; +9% in Rwanda; +11.4% in Uganda). In South Sudan, prices rocketed from the previous quarter (+56.3% CPI; +54.8% food CPI) and from Q1-2015 (+205% CPI; +227.8% food CPI): conflict-related insecurity and prohibitive transport costs pose a serious threat to trade flows across the country.



West Africa

Hotspots: The impact of staple food price changes on the cost of the basic food basket from January to March 2016 was severe in **Ghana**; moderate in **Burkina Faso, Cape Verde, Côte d'Ivoire, the Gambia, Liberia** and **north Nigeria**; and low in the other countries.

- Staple commodity prices: In Mali, the beneficial effects of abundant rains on winter crops dragged down the seasonally adjusted price for cereals (-3% millet; -6% sorghum; -4% maize). Seasonally adjusted prices also fell from Q4-2015 in Chad (-16% sorghum; -10% millet), Cameroon (-26% cassava; -4% rice; -11% sorghum) and Niger (-5% millet; -5% sorghum; -3% rice), reflecting adequate supplies. In Ghana, delayed rainfall hampered the second cropping season and adjusted prices increased from Q4-2015 for yams (+27%) and cassava (+30%) during harvesting. In the Gambia, localized quarterly increases affected cereal prices in Central River (+22% millet; +93% sorghum), Upper River (+11% millet; +20% sorghum) and North Bank (+10% millet; +58% sorghum) where flooding limited market accessibility. Volatility of the local currency (dalasi) also drove up the price of imported food such
- as palm oil (+2%), groundnut oil (+12%) and sugar (+5%). In north Nigeria, seasonally adjusted prices rose atypically in Q1-2016 for maize (+6% in Katsina; +10% in Sokoto) and for sorghum (+9% in Katsina; +3% in Sokoto); quarterly cereal prices increased sharply in Borno State (+40% sorghum; +33% millet) where Boko Haram attacks continue to generate insecurity and disrupt farming. Cross-border trade is in slight reprise and the price for imported rice fell from Q4-2015 (-14%) and from last year (-25%). In Liberia, palm oil prices edged up in coastal areas (+15% in Bomi; +16% in Bong); in Lofa they were 62 percent above 2015 levels.
- Fuel prices: In Borno, north Nigeria, fuel prices fell from Q4-2015 (-1.5% gasoline; -14.8% diesel) after the energy regulatory authority lowered ceiling prices in January. Y/y gasoline prices remain 1.8 percent higher than last year.
- Purchasing power: In Ghana, the protracted economic slowdown exacerbated the y/y increase in the CPI (+18.9%) despite tight monetary policy. Y/y headline inflation edged up in Nigeria (11.3%) as scarce foreign exchange reserves and the civil conflict had a detrimental impact on imports and on y/y food prices (+11.5%). Q/q food inflation eased in Mali (-6.4%), Niger (-6.4%) and Senegal (-4.2%) thanks to good production.



Middle East, North Africa and Central Asia

Hotspots: The impact of staple food price changes on the cost of the basic food basket in Q1-2016 was high in Iran and Sudan; moderate in Azerbaijan, Egypt, Jordan, Lebanon, Palestine, Tajikistan and Turkey; and low in the remaining countries.

- Staple commodity prices: In Q1-2016, seasonally adjusted prices fell in Armenia (-4% bread; -10% potatoes; -8% milk; -3% sugar;) and the **Kyrgyz** Republic (-3% bread; -21% potatoes) thanks to a good harvest and the decline in export quotations from major suppliers. In **Syria**, the seasonally adjusted price for subsidized (bakery) bread was 9 percent lower than in Q4-2015 but was nearly double last year's price (+91%). In besieged areas, clashes prevented supplies from reaching local markets; seasonally adjusted prices surged in Damascus (+36% sugar; +43% oil), Dara'a (+15% sugar; +70% oil) and Hassakeh (+69% sugar; +26% oil). In Deir Ezzor, seasonal prices fell during Q1-2016 for sugar (-52%) and oil (-45%) but remained far above Q1-2015 levels (+419% sugar; +373% oil). Although conflict continued to affect trade in Yemen, food availability improved in local markets and seasonally adjusted prices decreased from Q4-2015 (-21% wheat flour; -4%
- sugar; -14% vegetable oil) thanks to growing imports and new crops harvested in January. In Sudan, prices rose from Q4-2015 after El Niño damaged the winter harvest (+4% millet; +5% sorghum). Sorghum prices were markedly higher than last year in Kassala (+66%), Red Sea (+42%) and Southern Darfur (+45%) and at crisis level in half of the monitored markets according to ALPS.
- Fuel prices: In Algeria, q/q prices rose sharply for gasoline (+28.6%) and diesel (+15.4%) as national authorities budgeted a fuel price increase to counteract lower revenues from energy exports. In Syria, diesel prices increased from the previous quarter (+14.8%) and from Q1-2015 (+11.3%). In Yemen, q/q fuel prices were in steep decline (-56.7% gasoline; -59.2% diesel) after supplies began to flow across the country again; however, prices remained above Q1-2015 levels (+44% gasoline; +33% diesel).
- Purchasing power: Q/q inflation decelerated in **Egypt** (+1.0% CPI; +0.9% food CPI) after national authorities expanded the list of commodities subject to price controls in November and increased interest rates. In Jordan, economic growth, a stronger dinar and lower fuel prices brought down food inflation from Q4-2015 (-3.9%) and from Q1-2015 (-3.3%). In Azerbaijan, q/q headline inflation was 10.6 percent and food inflation 14 percent due to the impact of a weaker currency on import prices.

Iran **Algeria** Sudan **Armenia** Georgia Kyrgyz Republic Azerbaijan **Syria** Egypt **Ukraine** Jordan Yemen Lebanon **Palestine Tajikistan** Turkev

Asia

Hotspots: The impact of staple food price changes on the cost of the basic food basket from January to March 2016 was severe in Laos PDR and Viet Nam; high in Myanmar, Nepal and Thailand; moderate in Cambodia, India, Pakistan and Sri Lanka; and low in the remaining countries of the region.

- **Staple commodity prices:** In **Myanmar**, the 2015 flooding cut rice production by damaging lands and reducing seeds; with winter yields down to half the amount expected, the seasonally adjusted price for rice was 5 percent higher than in Q4-2015. The ALPS indicator was at crisis level for rice in Magway. Seasonally adjusted rice prices also increased moderately in Cambodia (+4%), Thailand (+5%) and Viet Nam (+10%). In India, seasonally adjusted sugar prices continued to rise from Q4-2015 (+18%) in the expectation that adverse weather conditions will reduce crop production. The introduction of duties on sugar imports drove up sugar prices in Pakistan (+12%) and **Sri Lanka** (+4%). Recent turmoil in southern regions of Nepal has made it
- difficult for supplies to reach inner local markets, pushing up the seasonally adjusted price for rice from Q4-2015 in the central (+20%), eastern (+9%) and western regions (+7%) despite the harvest. The seasonally adjusted price for wheat increased by 7 percent ahead of the beginning of the harvest in March.
- Fuel prices: In Q1-2016, q/q fuel prices dropped in Afghanistan (-11% diesel), **Laos** (-7.6% gasoline; -9.2% diesel) and **Myanmar** (-3.2% diesel) in response to falling oil prices in the world market. In Pakistan, fuel prices fell significantly both q/q (-7.1% gasoline; -8.5% diesel) and y/y (-4% gasoline; -7.6% diesel) as the energy regulatory authority progressively slashed pump prices.
- Purchasing power: Quarterly changes in the CPI and the food CPI were low in most countries. General strikes in southern regions of Nepal continue to block cross-border trade and delay delivery of food and fuel. As a result, y/y food prices rose considerably (+13%), driving up headline inflation (+11%).

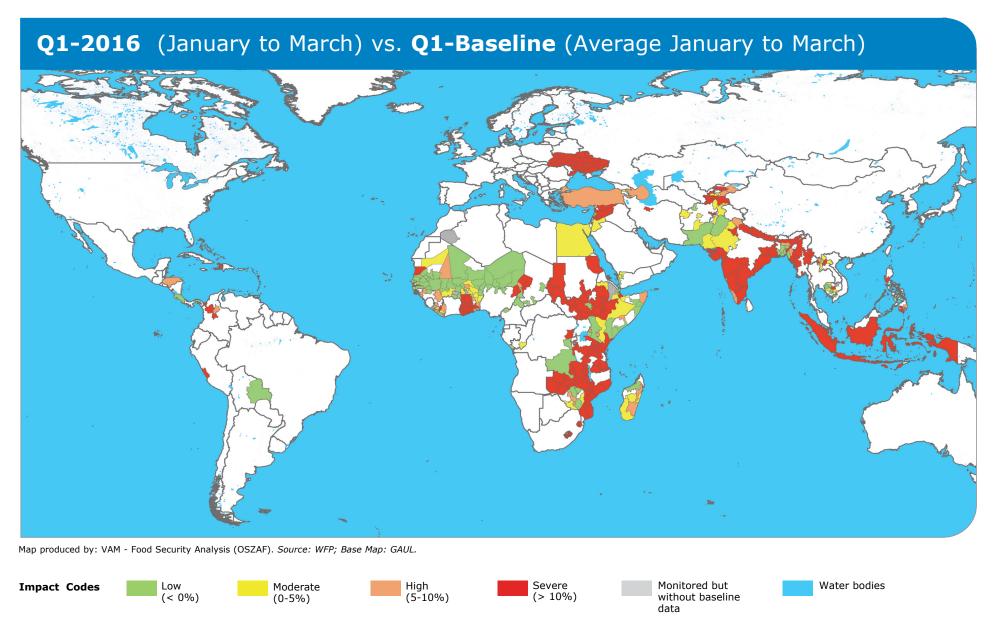
Lao PDR **Viet Nam Afghanistan** Bangladesh Indonesia Myanmar **Philippines** Nepal **Thailand** Cambodia India **Pakistan** Sri Lanka

			Quarterly and Yearly Cha	nges in Q1-2016 (January-March)	
egion	Country	Quarter	-on-Quarter		r-on-Year
		General CPI	Food CPI	General CPI	Food CPI
	Bolivia	0.98%	0.87%	2.77%	2.26%
	Colombia	3.10%		7.67%	12.35%*
ean	Costa Rica	0.48%	2.49%	-0.29%	1.00%*
qqi	Dominican Republic	-0.21%	0.08%	1.95%	6.52%
Car	Ecuador	0.56%	0.85%	2.67%	3.28%
and	El Salvador	0.22%		1.54%	0.66%
ica	Guatemala	1.60%		4.33%	10.81%*
Latin America and Caribbean	Haiti	2.33%	2.59%	13.64%*	15.33%*
n A	Honduras	0.70%	0.47%	2.83%	0.21%
Lati	Nicaragua	1.48%		3.43%	
	Panama	0.23%		0.22%	2.30%
	Peru	1.10%		4.46%	4.89%*
	Lesotho	1.18%	4.45%	5.98%*	10.60%*
ica	Madagascar	2.20%		6.78%*	
Afr	Malawi	12.38%	18.86%	23.26%*	28.92%*
ern	Mozambique	8.50%		12.35%*	
Southern Africa	Tanzania	1.99%	3.49%	5.79%	9.46%
So	Zambia	5.30%	6.76%	22.31%	26.14%
	Zimbabwe	-1.35%		-3.23%	
	Burundi	0.35%	-0.04%	5.76%	
956	Ethiopia	0.62%	-3.95%	8.90%	9.61%
Africa	Kenya	1.25%		7.02%	
Af a	Rwanda	-1.35%	-3.35%	6.17%	8.98%
Central and Eastern Africa	South Sudan	56.29%	54.77%	204.96%	227.76%
3	Uganda	-1.80%	-4.66%	6.93%	11.41%
_	Benin	-1.47%	-2.79%	-0.28%	-0.58%
	Burkina Faso	-3.04%		-0.11%	
	Cape Verde	-1.15%	-1.20%	-1.22%	0.17%
	Chad	-1.55%		-2.59%	
	Côte d'Ivoire			0.60%	0.03%*
West Africa	Ghana	6.82%	7.49%	18.92%	8.27%
st A	Guinea	2.21%		7.45%*	
We	Guinea-Bissau	-0.71%		3.01%*	
	Mali	-3.85%	-6.37%	-1.43%	-3.18%
	Mauritania	-4.60%	8.36%	-9.45%	0.95%
	Niger	-2.86%	-6.41%	0.91%	0.48%
	Nigeria	4.08%	2.55%	11.25%	11.54%
	Senegal	-2.40%	-4.21%	1.10%	6.94%
sia	Armenia	0.33%	5.25%	-5.72%	-4.86%
al A	Azerbaijan	10.62%	14.06%	11.80%*	14.96%*
antr	Egypt	1.02%	0.88%	9.40%	12.63%
Middle East, North Africa and Central Asia	Georgia	0.58%	-0.19%	5.07%	1.92%
an	Iran	2.22%		8.64%*	
frica	Iraq	-2.37%	-5.41%	0.06%*	-0.45%
h A	Jordan	-1.36%	-3.91%	-1.19%	-3.29%
ro 1	Kyrgyzstan	0.41%	4.040/	1.19%*	4 4 4 4 4
st, N	Lebanon	-2.41%	1.04%	-3.21%	-1.14%
Ë	Palestine	-0.94%	-3.22%	0.67%	1.72%
adle	Sudan	1.91%		12.13%*	
Ξ	Tajikistan	5.90%		-1.29%	
	Turkey	2.16%		8.60%	
	Afghanistan	1.93%		2.49%	
	Bangladesh	1.40%	0.050/	5.78%	0.5111
	India	-0.13%	0.25%	5.26%	0.21%
<u></u>	Indonesia	1.23%	4.16%	4.34%	7.60%*
Asia	Laos	-0.49%	4 000/	1.10%*	40.000/#
	Nepal	0.48%	-1.82%	11.21%*	13.00%*
	Pakistan	-0.09%	-2.12%	3.77%	2.04%
	Philippines Sri Lanka	0.32% -0.32%	0.51% -0.49%	1.09% 1.87%	1.60% 0.65%

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

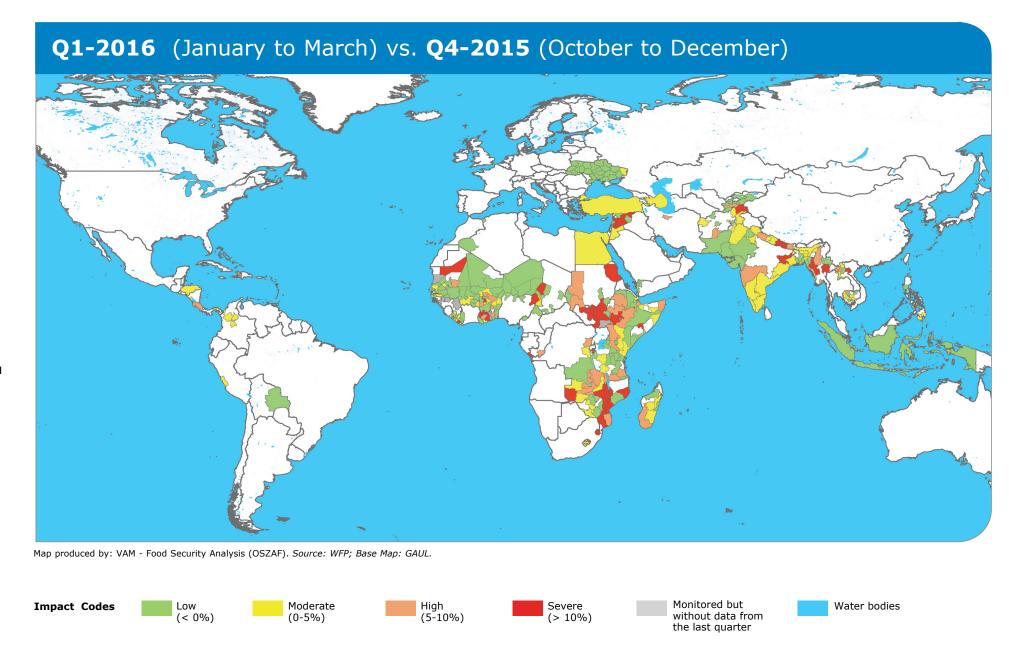
^{*} Where indices were not available, y/y changes are not based on quarterly average but on the inflation rate of the last month available.

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



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 Q1 2011-2015.





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

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

Change	Price trend
< 0%	Decreasing
>= 0% and < 5%	Stable
>= 5% and < 10%	Slightly increasing
>= 10%	Increasing

Impact
Low
Moderate
High
Severe
V

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]
Α	В	С	D	E	F	G	Н	The state of	J	K	L	M	N
	Bolivia	Rice (carolina 2da)	14	0	-1	-14	-14	-8	↓	100	-1	-8	4
		Maize (white)	13	0	-15	+1	+11	+31	↓	18			5
		Sugar	13	+8	+4	+25	+44	+55	\rightarrow	24			3
	Colombia	Rice (paddy)	12	+15	+6	0	+10	+33	7	19	0	+26	3
	COLONIDIA	Wheat flour	8	-7	-6	-19	+5	+4	↓	10	Ů	120	5
		Bananas	5	-2	+3	+14	+4	-6	\rightarrow	14			3
		Plantains	5	0	+2	-6	+17	+30	\rightarrow	16			3
	Costa Rica	Rice (milled 80-20)	17	0	+5	-4	-4	-18	7	100	+5	-18	5
	El Salvador	Wheat (flour)	9	0	0	-7	-7	-4	\rightarrow	53	-4	+10	5
_		Sorghum (maicillo)	6	-24	-6	+25	+34	+31	↓	47			5
Latin America and Caribbean		Wheat flour (imported)	12	+10	+10	+39	+28	+34	↑	49			5
aribl	Haiti	Maize (local)	9	+5	-4	+28	+28	+35	↓	28	+4	+28	5
D D		Oil (vegetable, imported)	7	+2	+1	+11	+9	+11	\rightarrow	23			3
e es		Maize (white)	26	+13	-4	+9	+9	+20	↓	53			5
neric	Honduras	Beans (red)	5	-2	+8	-20	-27	-9	7	25	+3	+7	5
n An		Rice (milled 80-20)	5	+1	+2	0	-1	+2	→	22		+22	5
Latii		Maize (white)	23	+13	+10	+37	+30	+52	1	30			5
	Nicaragua	Rice (first quality)	17	+2	0	+3	+2	+18	→	49	+4		5
		Beans (red)	7	-12	+2	-12	-28	+2	\rightarrow	21			5
		Rice (first quality)	24	+1	+2	+20	+19	-7	→	43			5
	Panama	Bread	12	0	-1	0	0	-16	↓	48	0	-10	5
		Maize	7	+1	+5	0	+1	+5	7	9			5
		Rice (local)	21	0	-1	+1	+1	+6	↓	22			5
		Wheat flour (locally processed)	14	+2	+1	+4	+3	+7	→	23			5
	Peru	Potatoes	8	+12	+11	+8	+33	+64	↑	36	+4	+21	5
		Sugar	8	0	0	+18	+18	+3	→	7			5
		Maize (local)	7	+1	+2	-3	-3	+7	→	13			5
		Cassava (fresh)	32	+27	+28	N/A	N/A	+20	↑	55			3
	C	Bread	18	+13	N/A	N/A	N/A	N/A	↑	35	+13	+17	
ica	Congo	Oil (palm)	11	-34	-32	N/A	N/A	+9	V	6	+13	+17	2
n Afr		Rice (mixed, low quality)	6	-22	-19	N/A	N/A	-3	V	5			4
Southern Africa		Cassava (chikwangue)	53	+1	+2	+6	+6	+9	→	83			5
So	Congo (DR)	Maize	14	-3	+5	+8	+13	-2	71	7	+1	+4	5
	Congo (DK)	Oil (palm)	5	+8	-2	-12	-10	-14	V	3	*1	T*4	5
		Wheat flour	5	-6	-11	-17	-7	-24	4	7			5

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted	Monthly change from last year	Quarterly change from last year	Quarterly change from baseline	Price trend	Quarterly cost share in food basket			# of years in baseline (the last 5 years)
	,		(%)	(% change)	quarterly change (% change)	(% change)	(% change)	(% change)		(%)	ood cost of food basket	[* see footnote]	
Α	В	С	D	E	F	G	Н		J	К	L	M	N
	Lesotho	Maize meal	56	+3	+1	+25	+16	+24	\rightarrow	56	0	.21	5
	Lesotrio	Bread (brown)	14	+2	0	+3	+3	+18	\rightarrow	44	U	+21	5
	Madagascar	Rice (local)	49	0	-1	N/A	N/A	+1	V	100	-1	+1	4
	Malawi	Maize	53	+49	+14	+119	+120	+160	↑	100	+14	+160	5
		Cassava flour	32	+3	-10	+17	+28	+28	\	40			•
		Maize (white)	20	+56	+45	+126	+126	+118	↑	21			5
	Mozambique	Wheat flour (local)	9	+26	+25	+42	+38	+41	↑	17	+7	+42	4
ŗņ.		Rice (imported)	8	+18	+20	+33	+23	+25	↑	13			5
Southern Africa		Oil (vegetable, imported)	5	+22	+21	+30	+26	+26	↑	9			2
hern		Maize (white)	25	+58	+55	+49	+65	+67	↑	24			4
Sout	Swaziland	Wheat flour	16	0	+1	+9	+4	+23	\rightarrow	36	.15	.26	5
	SWAZIIATIU	Sugar (brown)	11	+8	+10	+26	+19	+35	↑	22	+15	+30	4
		Rice	8	+14	+16	+19	+19	+33	↑	18			5
		Maize	26	+5	-2	+64	+73	+32	\	39			5
	Tanzania	Rice	10	+4	-6	+11	+19	+20	\	41	-3	+25	5
		Beans	5	-1	-1	+5	+11	+24	\	20			5
	Zambia	Maize (white)	51	+5	+5	+68	+25	+36	7	55	16	+40	5
	Zallibia	Cassava meal	13	N/A	N/A	+51	+15	+44	N/A	45	+3	740	4
	Zimbabwe	Maize	41	+10	-6	+29	+20	+19	\	66	.4	10	5
	Linibabwe	Wheat (flour)	10	-1	-2	-6	-5	-8	\	34		food basket from baseline (%) M +21 +1 +160 +42 +36 +25 +40 48	5
		Sweet potatoes	17	+18	+49	+23	+26	+19	↑	45			5
	Burundi	Beans	16	-1	+5	+58	+50	+32	7	34	+29	+24	5
		Cassava flour	13	+27	+34	+61	+55	+24	↑	20			5
		Pasta	34	-1	-1	-3	-2	-1	V	64			3
Africa	Djibouti	Rice (imported)	17	-1	0	-6	-6	-8	→	22	0	-4	5
stern		Sugar	11	-2	-1	-6	-6	-11	+	14			3
and Ea		Maize (white)	21	+1	0	-5	-4	+10	→	26			5
Central and Eastern Africa	Ethiopia	Pasta	12	-19	-28	-6	-12	-17	+	51	-15	-2	2
ల		Sorghum	12	+10	+16	+12	+12	+32	1	23			5
		Maize (white)	35	-2	+3	-1	-3	-13	→	23			5
	Kenya	Bread	9	+1	-3	0	+4	+13	<u> </u>	22	-7	+7	5
	,		7	-6	-14	+7		+16		55			
		Milk (cow, fresh)	/	-6	-14	+/	+8	+16	Ψ	55			5

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

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted	Monthly change from last year	Quarterly change from	Quarterly change from baseline	Price trend	Quarterly cost share in food basket			# of years in baseline (the last 5 years)
	,		(%)	(% change)	quarterly change (% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]
Α	В	С	D	E	F	G	Н	1	J	K	L	M	N
		Sorghum (red)	29	-5	-3	-29	-12	-11	4	41			5
	Somalia	Maize (white)	18	-1	rom Seasonally Monthly change from last year adjusted quarterly change ge) (% change) (%	5							
		Wheat flour	10	+8	N/A	N/A	N/A	N/A	7	19		ood basket from baseline (%) M -10 -10 +316 +19 -15 -1 -3 +12 +3 +6 +62 +57 -3 +5 -6 -3 -13 -16 -7	*
Africa		Rice (imported)	9	-3	+4	-4	-4	-17	\rightarrow	18	= 10,5 = 1		5
ıstern		Sorghum (white)	26	+58	+60	+376	+245	+272	Λ.	38			5
Central and Eastern Africa	South Sudan	Wheat flour	15	+44	+63	N/A	N/A	+370	↑	47	+55	+316	4
ntral a		Millet (white)	7	+51	+38	+230	+200	+297	↑	15			4
ဗ		Cassava flour	13	-4	-12	-8	-5	+18	4	40		from baseline (%) M	5
	Uganda	Maize (white)	9	-11	-12	+6	+9	+11	V	16	0	.10	4
	Oganda	Beans	5	0	-11	+14	+20	+27	4	26	-9		4
		Millet	5	+3	+3	+20	+17	+19	→	18			4
		Maize (white)	19	-17	-16	0		-22	V				5
_	Benin	Cassava meal (gari) Rice (imported)	16 13	-2		0			7		-3	-15	5
		Sorghum	5	-12	-7	0			, J	9		ood basket from baseline (%) M -10 +316 +19 -15 -1 -3 +12 +3 +6 +62 +57 -3 +5 -6 -3 -13 -16 -7	5
		Sorghum	26	+1	+1	+2			\rightarrow	42			5
	Burkina Faso	Millet	22	-1	+1			-1	\rightarrow	36	0	-1	5
		Maize	16	-1	-4	+12		0	V	22			5
		Maize	15	+1	+2		+2		\rightarrow	25			5
	Cameroon	Cassava (cossette)	12	+5	-26		-8		<u> </u>	40	-6	-3	2
		Rice (local) Sorghum (red)	10	+9 -13		+12	+18	0	<u> </u>	23			5
		Rice (long grain, imported)	19	-15	-11	0	±1	-7	<u> </u>	12			5
	Cape Verde	Wheat (flour, imported)	13	0	-1	0	-1	-1	4	22	+1	+12	5
		Maize (white, local)	12	+3		+30	+24	+62	→	36			5
		Sorghum	18	-16	-16	-14	-11	+1	V	42			5
	Chad	Millet	15	-14	-10	-7		+3	↓	43	-12	+3	5
		Maize	5	0	-1	-1		+9	<u>+</u>	16			5
		Rice (denikassia, imported) Cassava (fresh)	20 12	+4	0				→ -				5
	Côte d'Ivoire	Oil (palm)	9	+3	-8	-2			J.	21	+1	+6	5
		Maize	7	+6	-1	+11			, i	13			5
		Rice (basmati, broken)	21	-2	-2	N/A	N/A	+104	į.	67			
		Millet	19	-2		N/A	N/A	+13	\rightarrow	7			4
		Sugar	12	+5	+5	N/A	N/A	+12	71	8			*
	Gambia (The)	Bread	8	+2					<u>→</u>	8	U	+62	-
		Oil (palm) Oil (groundnut)	5	+3 +5	+12	N/A N/A	N/A N/A	+14	→ •	3			*
		Sorghum	5	+14	+19		N/A	+50	<u></u>	3			3
2		Cassava	21	+30	+30		+51	+82	1	26			5
Ē	Ghana	Maize	12	+3	-3		+28	+88	V	12	+10	+57	5
West Africa		Yam Rico (imported)	11 8	+30					<u> </u>				5
Ş.		Rice (imported) Rice (imported)	37	+3 N/A									4
7	Guinea	Cassava meal (gari)	12	N/A	N/A	N/A	N/A	-6	N/A	19	N/A	-3	•
		Oil (palm)	6	N/A			+2						5
		Rice (imported)	32	+1					→				5
100000	Liberia	Cassava (fresh) Oil (palm)	21 15	+1					→ →		+5	+5	5
		Rice (imported)	21	-1				-5	7 J				5
1000	Mali	Millet	20	-4				-8	į į				5
10000	Mali	Sorghum	13	-4			-1	-7	į.		-4	-6	5
		Maize	9	-2					V				5
		Wheat	30	-4					<u> </u>				5
	Mauritania	Sugar Oil (vegetable)	12 11	+6 -2)		-3	-3	5
		Rice (imported)	11	+5					→		d a		5
		Sorghum (taghalit)	7	-16				-9	<u> </u>	12			5
1000		Millet	39	-1					V		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5
	Niger	Sorghum	11	-7					4		-5	-13	5
		Rice (imported)	7	0 +22					<u> </u>				5
		Sorghum Millet	13 11	+22				+21	T				3
	North Nigeria	Maize	8	-5				-17	4		0	-16	5
		Rice (imported)	8	-18			-25	-32	į.	43			5
100		Rice (imported)	30	+1					į.				5
100000000000000000000000000000000000000	Senegal	Maize (imported)	10	-7							-3	-7	5
		Millet Maize (white)	8	-6									5
		Marize (white) Manioc (cassava)	24 15	+2									5
	Togo	Rice (imported)	10	+3							-1	+1	5
		Sorghum	8	+4					7				5
							. 13			20		-10 +316 +19 -15 -1 -3 +12 +3 +6 +62 +57 -3 +5 -6 -3 -13 -16 -7	

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

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted	Monthly change from last year	Quarterly change from last year	Quarterly change from baseline	Price trend	Quarterly cost share in food rice trend basket		oact of changes on ood basket	# of years in baseline (the last 5 years)
neg.o			(%)	(% change)	quarterly change (% change)	(% change)	(% change)	(% change)	1100 0000	(%)	from previous quarter	from baseline (%)	[* see footnote]
Α	В	С	D	E	F	G	Н	1	J	K	L	M	N
		Pasta	46	-15	N/A	N/A	N/A	N/A	V	55			
	Algeria	Sugar	9	+3	N/A	N/A	N/A	N/A	\rightarrow	12	-8	N/A	•
		Milk	5	+3	N/A	N/A	N/A	N/A	\rightarrow	33			*
		Bread (first grade flour)	40	-1	-4	-4	-3	+4	↓	47			3
	Armenia	Milk	8	-5	-8	-5	-1	+5	V	39	-6	+3	3
	Allicina	Sugar	8	-1	-3	-6	-10	-9	↓	6	, and the second		3
		Potatoes	5	+1	-10	-22	-23	-5	V	9			3
	Azerbaijan	Bread (high grade flour)	57	+5	+5	+3	+7	+8	7	68	+2	+8	5
	7 Let buijun	Potatoes	6	+9	-5	0	-3	+7	↓	32	12	.0	5
		Pasta	35	0	N/A	+17	+13	-2	\rightarrow	57			5
	Egypt	Rice	12	+9	N/A	N/A	N/A	N/A	7	28	+3	+1	5
		Sugar	7	+4	N/A	+17	+12	+12	\rightarrow	15			5
	Georgia	Bread	41	+1	+1	+1	+1	+4	\rightarrow	43	-14	-5	5
	GCOIBIU	Milk (raw)	10	-22	-23	-28	-21	-11	V	57	-7		5
	Iran (Islamic Republic of)	Rice (local)	9	+4	+3	+21	+16	+32	\rightarrow	71	+5	+33	3
	man (islamic republic or)	Sugar	9	+7	+9	+28	+22	+38	7	29	.,	133	3
\sia		Bread (pita)	38	0	+1	0	0	+1	\rightarrow	23			5
=	Jordan	Sugar	15	0	+1	-4	-4	-9	\rightarrow	26	+2	+2	3
Ě	Jordan	Oil (vegetable)	12	0	+2	+7	+5	+8	\rightarrow	25			5
ē		Rice (imported)	8	+1	+5	+2	+1	+12	7	26			5
Middle East, North African and Central Asia	Kyrgyz Republic	Bread	40	0	-3	-1	-1	+19	V	83	-7	+4	5
<u>a</u>	KYIBYE NEPODIC	Potatoes	8	-6	-21	-51	-49	-35	↓	17	-/	- 17	5
car	Lebanon	Bread (pita)	30	+1	0	+3	+2	-9	\rightarrow	86	+1	-12	3
Ë	ECOMO	Sugar	11	+3	+11	-11	-6	-25	1	14	**	-12	3
-		Wheat flour	40	-1	-2	-4	-5	-8	V	41			5
F.	Palestine	Sugar	10	-1	+2	-2	-2	-13	\rightarrow	14	+1	0	4
2	ruicsanc	Rice (small grain, imported)	7	-1	+1	+8	+7	+14	\rightarrow	17	'*	Ů	5
ast		Oil (olive)	5	+3	+5	+9	+9	+14	7	28			5
e E	Sudan	Sorghum	60	+6	+5	+25	+20	+65	7	85	+5	+64	5
ᇴ	Sudan	Millet	9	+1	+4	+8	+6	+59	\rightarrow	15	.,	104	5
Ē		Bread (bakery)	39	0	-9	+75	+91	+170	↓	24			3
	Syria	Sugar	13	+2	-6	+146	+178	+314	V	49	-3	+231	4
		Oil	11	-1	+8	+88	+102	+182	7	26			4
		Bread	54	+1	+3	+22	+33	+44	\rightarrow	92			5
	Tajikistan	Sugar	7	+12	+13	+29	+28	+22	↑	4	+3	+42	5
	- ajiJ.turi	Oil (cotton)	6	+6	+3	+15	+12	+17	\rightarrow	3	.,		5
		Maize	5	+1	-3	+5	+6	+14	↓	1			5
		Bread (common)	41	+4	-1	+9	+7	+6	V	60			2
	Turkey	Sugar	8	+1	+1	+11	+9	+10	\rightarrow	10	0	+7	2
		Milk (pasteurized)	5	+3	+3	+1	+1	+7	\rightarrow	29			2
		Bread (rye)	29	+2	-8	+8	+29	+42	V	40			2
	Ukraine	Oil (sunflower)	9	+5	-12	+9	+32	+47	↓	8	-7	+39	2
	Ollianic	Potatoes	8	+5	-24	+25	+50	+35	V	15	, , , , , , , , , , , , , , , , , , ,		2
		Milk	7	+8	+4	+29	+32	+36	\rightarrow	37			2
		Wheat flour	38	-24	-21	-3	+2	+4	V	59			5
	Yemen	Sugar	12	-5	-4	+2	0	0	↓	26	-16	+1	3
		Oil (vegetable)	9	-17	-14	+16	+9	-8	4	15	10		3

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

Region	Country	Main staple food	Caloric contribution	Change from last quarter	Seasonally adjusted	Monthly change from last year	Quarterly change from last year	Quarterly change from baseline	Price trend	Quarterly cost share in food basket		pact of changes on ood basket	# of years in baseline (the last 5 years)
	,		(%)	(% change)	quarterly change (% change)	(% change)	(% change)	(% change)		(%)	from previous quarter	from baseline (%)	[* see footnote]
Α	В	C	D	E	F	G	Н	1	J	K	L	M	N
	Afghanistan	Bread	58	-1	-2	0	+1	+4	V	79	-1	+5	2
	Aighainstair	Rice (low quality)	22	+2	+3	+6	+3	+6	\rightarrow	21		,,	5
	Bangladesh	Rice (coarse)	70	0	-2	-18	-17	-14	\	100	-2	-14	5
	Cambodia	Rice (mix)	65	-3	+4	+8	+4	-10	\rightarrow	100	+4	-10	5
		Rice	31	0	-1	0	-1	+9	V	51			5
	India	Wheat	22	+4	+2	+9	+9	+20	\rightarrow	35	+2	+12	5
		Sugar	7	+14	+18	+15	+6	+6	↑	13			5
		Rice	50	+1	-3	+2	+4	+22	V	80			5
	to to control	Oil (vegetable)	7	0	-2	-3	-4	+1	V	5			5
	Indonesia	Sugar	6	+2	+1	+13	+13	+14	\rightarrow	9	-2	+19	5
		Wheat	6	0	0	+2	+2	+6	\rightarrow	6			5
	Lao PDR	Rice (glutinous, first quality)	64	+8	+11	+2	+6	+12	1	100	+11	+12	5
Asia	Myanmar	Rice (emata, manawthukha)	55	+7	+5	+36	+34	+45	7	100	+5	+45	5
As	Ness	Rice	32	+3	+8	+10	+8	+22	7	65	+7	+22	5
	Nepal	Wheat	15	+5	+7	+6	+6	+24	7	35	*/	+22	5
		Wheat	37	+2	-2	-2	-1	-7	V	19			2
		Sugar	11	+5	+12	+17	+15	+17	1	8			3
	Pakistan	Milk	9	0	0	+3	+3	+3	÷	59	0	0	٠
		Oil (cooking)	9	+1	+2	-10	-10	-13	\rightarrow	9			3
		Rice (basmati, broken)	6	-4	-8	-17	-14	-4	V	5			5
	Philippines	Rice (regular milled)	48	-2	-3	-6	-5	+6	V	100	-3	+6	5
		Rice (white)	41	+3	+1	-12	-8	+9	\rightarrow	56			5
	Sri Lanka	Wheat (flour)	14	+1	+2	+3	-3	-3	\rightarrow	24	+2	+3	5
		Sugar	11	+6	+4	N/A	N/A	-5	→	20			•
	Thailand	Rice (25% broken)	48	+2	+5	+4	+2	-14	7	100	+5	-14	5
	Viet Nam	Rice (25% broken)	59	+1	+10	+5	+6	-3	↑	100	+10	-3	5

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







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 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 http://www.wfp.org/content/price-analysis-methods

- 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.
- Caloric contributions are based on FAO 2005-2007 estimates.
- 3. 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.
- 5. 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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