Yemen Joint Market Monitoring Initiative June 2019



Intersector Cash and Market Working Group

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INTRODUCTION

The Yemen Joint Market Monitoring Initiative (JMMI) was launched by REACH in collaboration with the Water, Sanitation, and Hygiene (WASH) Cluster and the Cash and Market Working Group (CMWG) to support humanitarian actors with the harmonization of price monitoring among all cash actors in Yemen. The JMMI incorporates information on market systems including price levels and supply chains. The basket of goods to be assessed comprises eight non-food items

(NFIs), including fuel, water and hygiene products, reflecting the programmatic areas of the WASH Cluster. The JMMI tracks all components of the WASH Survival Minimum Expenditure Basket (SMEB), since September 2018.

METHODOLOGY

Data was collected through interviews with vendor Key Informants (KIs), selected by partner organisations from markets of various sizes in both urban and rural areas.

The data collected has also been analysed in comparison with price guotations recorded during the Multi-Agency Joint Cash Study conducted in September 2017, and the Weekly Price Monitoring Initiative (WPMI) that was conducted during the economic blockade of Yemen in November 2017.

More details are available in the Methodology section of the appendix. Findings are indicative for the assessed locations and time frame in which the data was collected.

JMMI MONTHLY FIGURES

Data collection 16-29 June 2019 **10** Participating partners 39 Districts assessed 201 Vendor KIs surveyed

KEY FINDINGS

In June 2019, the trend of depreciation of the Yemeni Rival (YER) against the US Dollar (USD) continued, with the YER losing 4.7% on the parallel market.



KEY PRICE FIGURES

Treated water and bottled water increased in price, compared to water trucking which decreased. The lower price of water trucking was shown to have an impact on the overall price of the SMEB.

	Petrol Price (1L)	365 YER	0.0%	
,	Diesel Price (1L)	400 YER	-2.2%	
6	Bottled Water Price (.75L)	130 YER	+13.0%	
I	Treated Water Price (10L)	130 YER	+13.0%	
ı	Water Trucking Price (3.15m ³)	1,500 YER	-21.1%	

WASH SMFB

The median cost for the WASH SMEB was calculated to be 9.599 YER, marking a decrease of 10.3% from the cost observed in May 2019.

June 9,599 YER / May 10,710 YER V 1,111 YER -10.3%

SUPPLY OVERVIEW

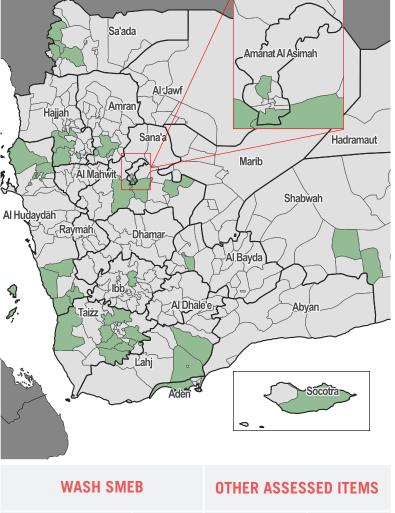
The overall prices of sanitary napkins and treated water showed the widest variance by region.

Roads were reported as the most impacted part of infrastructure when respondents were asked about damage to the market area or market facility.

Vendors were shown to be more willing to accept credit as a form of payment in June, rather than April or May 2019.

*167 of the 201 respondents answered the exchange rate guestion within the parrallel market.

ASSESSED DISTRICTS Assessed districts



Soap	1.05 kg	Petrol	1 liter
Laundry powder	2 kg	Diesel	1 liter
Sanitary napkins	20 units	Treated water	10 liter
Water trucking	3.15 m ³	Bottled water	0.75 liter

WASH SMEB COST OVERVIEW

The WASH SMEB represents the minimum culturally adjusted group of WASH items required to support a Yemeni family of eight for a month.

The cost of the WASH SMEB can be used as a proxy for the financial burdens, relative to WASH items, a household is facing in different locations. The WASH SMEB components were defined by the CMWG in consultation with relevant sector leads.

MEDIAN COST OF WASH SMEB IN JUNE 9,599 YER

WASH SMEB PRICE INDEX

Since September 2017 (normalized, September 2017 = 1.00)



May 2019 December 2018 -4.8% -10.3%

MEDIAN WASH SMEB PRICES, BY GOVERNORATE: 1-Month and 6-Months (YER)

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	Governorate	Soap (10.5 kg)	Laundry powder (2 kg)	Sanitary napkins (20 units)	Water trucking (3.15 m³)	WASH SMEB June-19	Change since May-19	Change since Dec-18
	Aden	1286	1500	1000	9450	13,236	47.8%	-10.2%
	al Bayda	1050	3000	1100	5040	10,190	-60.2%	-14.5%
	al Hudaydah	1365	2200	900	5670	10,135	10.1%	-6.8%
	Amanat al Asimah	1418	2300	950	4410	9,078	-7.0%	9.6%
	Amran	1575	1910	1500	2993	7,978	-3.5%	4.4%
	Hajjah	1575	2400	1000	9450	14,425	-2.6%	54.0%
	lbb	1313	2200	1200	3871	8,584	-1.3%	-26.0%
	Lahj	1575	2500	1000	3938	9,013	10.5%	32.6%
	Sa'ada	1575	3100	1350	3150	9,175	-99.0%	-20.9%
	Sana'a	1050	3000	1080	4725	9,855	-13.0%	10.9%
	Shabwah	1155	2450	1056	5946	10,607	-0.6%	N/A
	Socotra	1575	2600	1600	2678	8,453	3.0%	-4.0%
	Taizz	1575	2100	1050	5670	10,395	-4.1%	-15.8%

* Enumerators were not able to collect prices for Shabwah in December.

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MOST REPORTED CONSTRAINTS FOR: WASH VENDORS*

Price inflation	78.1%	
Transportation	35.8%	
Insecurity	21.9%	
Liquidity shortage	21.2%	
Shortage of supply	19.2%	
Shortage of demand	17.2%	
No constraints	6.6%	
Government regulations	4.0%	(
Other^	4.0%	< →
Do not know	3.8%	<

^Included additional check point fees, currency instability, and fuel shortages.

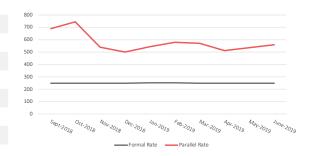
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

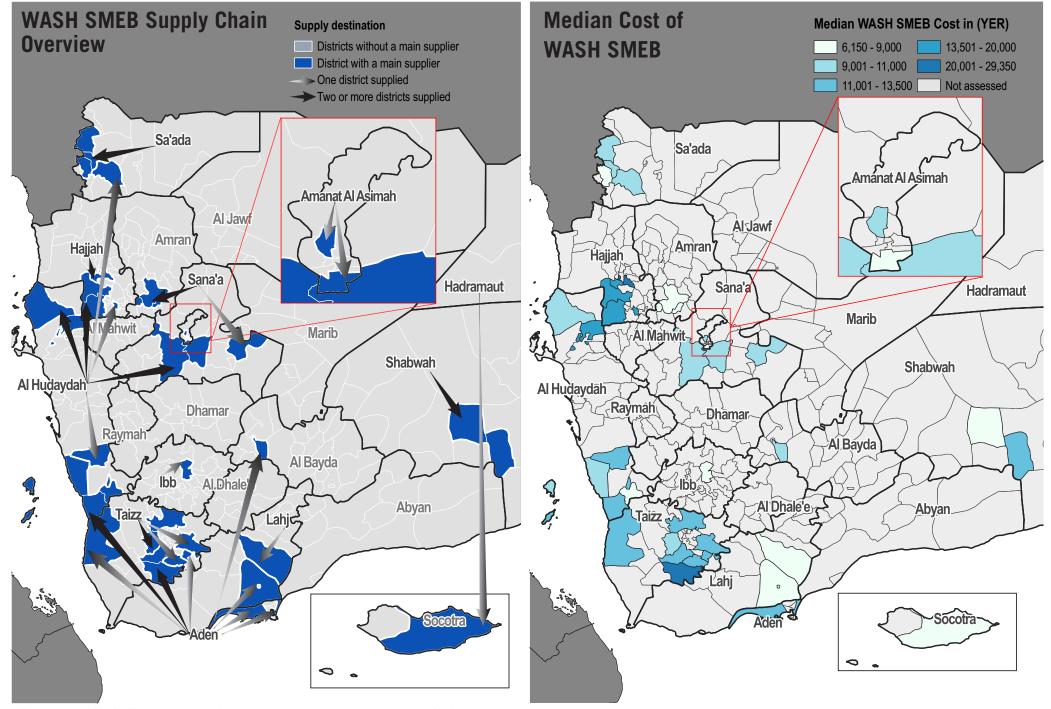
PAYMENT MODALITIES ACCEPTED: WASH VENDORS*

Cash	100%	
Credit	13.2%	
Credit/debit cards	6.0%	<
Mobile money	0.7%	<hr/>

* Payment modalities can add up to more than 100%

EXCHANGE RATE INDEX





*The map shows WASH SMEB supply chain inside the same governorate and towards other governorates. District without a main supplier are those district where vendor KIs could not identify the origin of the WASH items they sold.

Note: Only districts with data for the complete SMEB were taken into account for this map.

PRICE MONITORING OVERVIEW FOR YEMEN

MEDIAN PRICE LEVELS, PER ITEM, PER MONTH (YER)*

ltem	September 2017 (baseline)^	November 2017^	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	% Change (May-June)
Diesel	235	394	448	410	375	430	430	409	400	-2.2%
Petrol	275	349	418	410	325	365	365	365	365	0.0%
Treated water	NA	175 r	100	120	100	114	105	115	130	13.0%
Bottled water	70	100	120	120	110	120	120	115	130	13.0%
Soap	88	NA	130	130	130	135	130	134	135	0.7%
Sanitary napkins	250	NA	518	528	500	525	525	510	528	3.5%
Laundry powder	50	NA	100	100	100	105	105	115	120	4.3%
Water trucking	825	1,700	1,800	1,650	1,500	1,500	1,875	1,900	1500	-21.1%

* Price variations and the percentage change are calculated using data from markets that were assessed in both consecutive months.

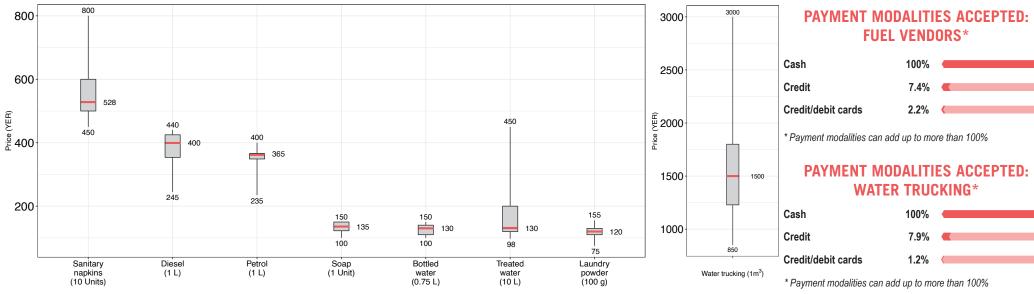
^ Price levels for September 2017 are the price quotations recorded during the Multi-Agency Joint Cash Study, while prices for November

2017 were recorded during the Weekly Price Monitoring Initiative conducted by the WASH Cluster.

¬ Treated water prices for September and November 2017 were for 20L, while the JMMI collects prices for 10L.

PRICE DISTRIBUTION OF KEY ITEMS ACROSS YEMEN

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JUNE 2019 MEDIAN PRICE PER GOVERNORATE (YER)

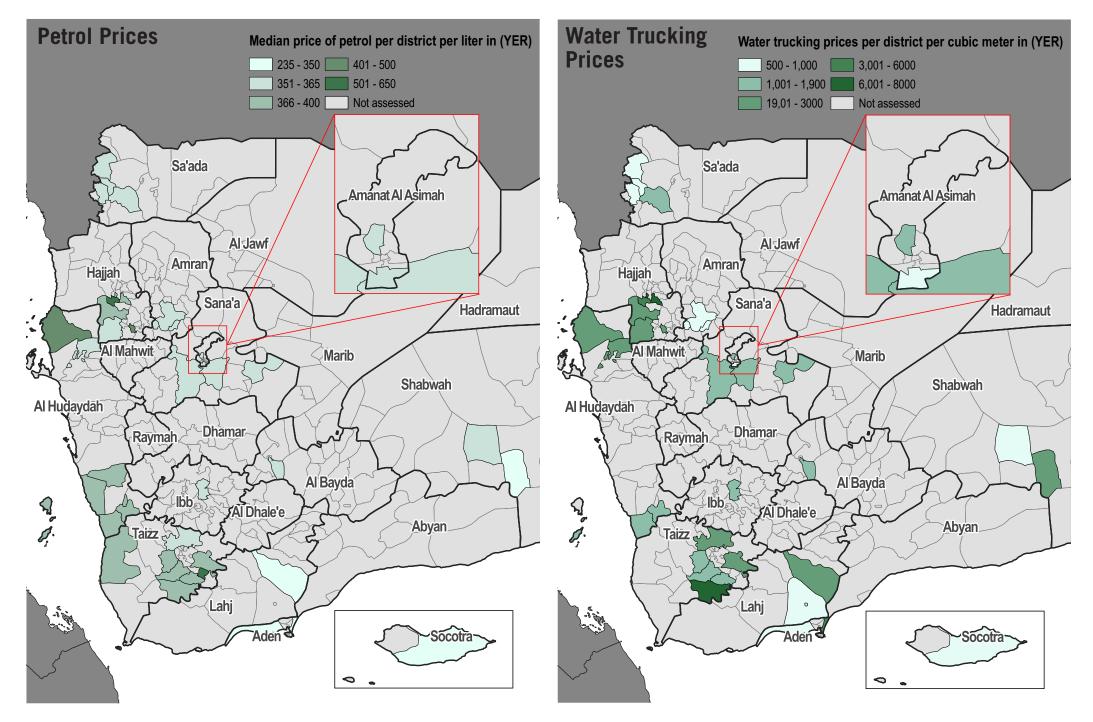
G	Governorate	Petrol (1L)	Diesel (1L)	Bottled water (0.75L)	Treated water (10L)	Soap (1 Unit)	Laundry powder (100g)	Sanitary napkins (10)	Water trucking (1m³)
	Aden	325	350	150	98	123	75	500	3000
	al Bayda	365	400	110	120	100	150	550	1600
	al Hudaydah	398	420	150	175	130	110	450	1800
Am	nanat al Asimah	365	430	110	215	135	115	475	1400
	Amran	365	425	123	450	150	96	750	950
	Hajjah	400	440	130	150	150	120	500	3000
	lbb	360	400	120	200	125	110	600	1229
	Lahj	340	350	150	105	150	125	500	1250
	Sa'ada	365	425	140	130	150	155	675	1000
	Sana'a	365	410	100	120	100	150	540	1500
	Shabwah	349	354	100	200	110	123	528	1888
	Socotra	235	245	130	125	150	130	800	850
	Taizz	383	390	140	100	150	105	525	1800

Yemen Joint Market Monitoring Initiative (JMMI), June 2019

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Note: The differences in the number of districts shown between the two maps for fuel and water prices are due to the methodology-stipulated requirement for a minimum of three price quotations per market per district.

SUPPLY CHAIN OVERVIEW FOR YEMEN

AVERAGE RESTOCKING TIME (DAYS)

-CHANGE IN DAYS FROM MAY 2019 IN BRACKETS

Governorate	Fuel Items	WASH Items	Ę
Aden	3 (0)	1 (-2)	
al Bayda	5 (4)	5 (3)	
al Hudaydah	5 (1)	3 (-6)	
Amanat al Asimah	5 (-1)	3 (2)	8
Amran	6 (0)	2 (0)	
Hajjah	4 (1)	3 (0)	1
lbb*	7 (NA)	2 (NA)	
Lahj	5 (-1)	4 (-1)	
Sa'ada	6 (0)	6 (0)	
Sana'a	5 (-1)	5 (1)	8
Shabwah	4 (1)	1 (-1)	
Socotra	4 (0)	4 (1)	
Taizz	4 (0)	2 (0)	1

*Data was not collected in Ibb in May 2019

MOST REPORTED CONSTRAINTS FOR: FUEL VENDORS*

Price inflation	84.4%	
Transportation	47.4%	
Insecurity	37.8%	
Shortage of supply	34.1%	
Liquidity shortage	19.3%	
Shortage of demand	16.3%	
Government regulations	8.9%	
Other^	7.4%	
No constraints	0.7%	

[^]Included fees at security checkpoint and fuel shortages. *Values do not add up to 100% as vendor KIs were allowed to select multiple options.

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OVERVIEW FOR WATER TRUCKING

of water trucking vendor KIs stated that they charged delivery costs based on the distance between the water source and the delivery point. The average price for an additional 5km is 7,500 YER and 10,000 YER for an additional 10 km.

87% of water trucking vendor KIs stated that they sell non-chlorinated water.

12% of water trucking vendor KIs stated that they sell chlorinated water. Only, 1% of water trucking vendor KIs reported being unaware if the water they sold was chlorinated.

87% of water trucking vendor KIs reported sourcing water from a pumping station or a borehole.

10% of water trucking vendor KIs reported sourcing water from a treatment station.

3% of water trucking vendor KIs reported sourcing water from a spring.

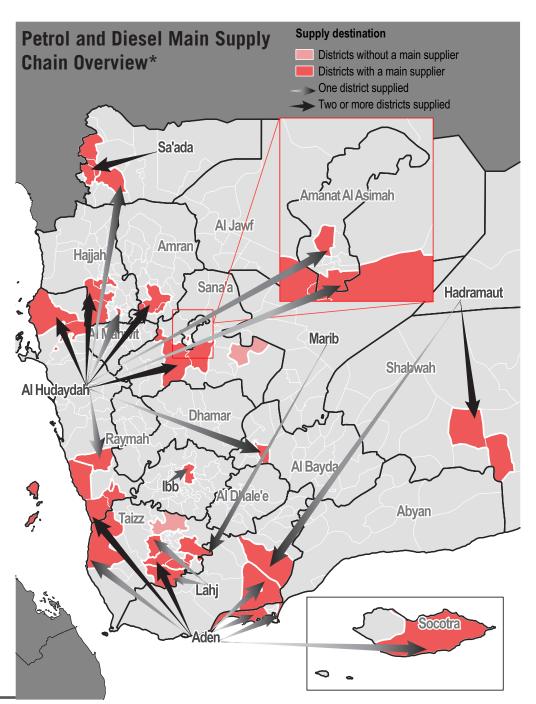
CONSTRAINTS AND CHALLENGES

When asked about the top constraints they faced in conducting their business, fuel vendor KIs reported price inflation, transportation, and insecurity as their top three issues.

Additional comments from KIs revealed increased costs for goods as fuel shortages, decreased demand, and increased transportation time due to infrastructure issues.

KIs reported a surge in the number of security check point fees driving increased transportation costs.





*The map shows fuel supply chain inside the same governorate and towards other governorates. District without a main supplier are those where vendor KIs could not identify the origin of the fuel they sold.

MARKET-RELATED CONCERNS AFFECTING VENDOR CAPACITY TO CONDUCT BUSINESS

When asked if they faced any market-related concerns that would prevent them from conducting their business, 65% of the assessed KIs responded that they did not face any concerns compared to 35% who responded that they did. Of those vendors who experienced market related concerns, the most reported responses are summarized below.

Most reported market-related concern* Damage to market area 53.4%

•		
Damage to market facility	49.3%	
Movement restriction	42.5%	
Preferred not to answer	12.3%	
Damage to storage facility	4.1%	

*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

MEDIAN PRICE OF GOODS ORIGINATING FROM ADEN AND AL HUDAYDAH

Governorate Source	Petrol (1L)	Diesel (1L)	Soap (1 Unit)	Laundry powder (100g)	Sanitary napkins (10)
Aden	390	390	120	100	500
al Hudaydah	365	430	120	150	540

Vendor KIs were asked about the origin of various products sold in their stores. The two main points of origin for these products were Aden and al Hudaydah, with goods emanating from Aden being cheaper than al Hudaydah, except for petrol.

RATE OF VENDORS ACCEPTING CREDIT AS PAYMENT, BY TYPE

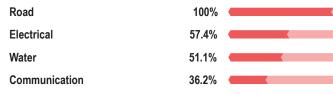
Vendor Source	April 2019	May 2019	June 2019
Fuel	1.3%	4.2%	7.4%
WASH	5.1%	7.8%	13.2%
Water Trucking	2.3%	5.8%	7.9%

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MOST REPORTED DAMAGED INFRASTRUCTURE AFFECTING VENDOR CAPACITY TO CONDUCT BUSINESS*

Vendor KIs who reported "damage to the market area" and "damage to the market facility" as concerns affecting their capacity to run their businesses were then asked what infrastructure was most damaged.

Most reported infrastructure damage*



*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

MEDIAN EXCHANGE RATE AND ORIGIN OF GOODS BY GOVERNORATE*

Governorate	Median Exchange Rate	Governorate Origin: Fuel	Governorate Origin: WASH
Aden	564	Aden	Aden
al Bayda	590	al Hudaydah	Aden
al Hudaydah	555	al Hudaydah	al Hudaydah
Amanat al Asimah	561	al Hudaydah	Amanat al Asimah
Amran	560	al Hudaydah	Sana'a
Hajjah	550	al Hudaydah	Hajjah / al Hudaydah
lbb	555	Ibb	lbb
Lahj	563	Aden	Aden
Sa'ada	560	Sa'ada	Sa'ada
Sana'a	550	al Hudaydah	al Hudaydah
Shabwah	558	Hadramaut	Shabwah
Socotra	565	Aden	Hadramaut
Taizz	558	Aden	Taizz
*Most reported answer is indicated in the origin column. If two governorates are			

*Most reported answer is indicated in the origin column. If two governorates are reported equally, both are reported.

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VENDOR CAPACITY TO RESPOND TO A SUDDEN INCREASE IN DEMAND

To understand vendor capacity to cope with sudden increases in the demand for water trucking, fuel, and WASH items, they were questioned as to if they would be able to increase their stock by 50% and 100% respectively. KIs are able to better absorb a 50% increase in demand, compared to a 100% increase in demand, regardless of the item in question.

Vendor capacity to respond to a 50% and 100% increase in demand for fuel items



Vendor capacity to respond to a 50% and 100% increase in demand for WASH items



Vendor capacity to respond to a 50% and 100% increase in demand for water trucking



Yemen Joint Market Monitoring Initiative (JMMI), June 2019

APPENDIX

WHAT IS THE INTERSECTORAL OR CASH AND **MARKET WORKING GROUP?**

With the emergence of the conflict in 2014, humanitarian actors in Yemen began using cash and vouchers as a response tool to meet the immediate needs of the Yemeni population. The CMWG was established to provide a platform for discussion and setting standards/recommendations on cash and market-based responses (inclusive of cash and vouchers) for the cash actors in Yemen. The JMMI was developed by the CMWG, the WASH Cluster, and REACH in order to harmonize price monitoring amongst WASH actors in Yemen.

ADDITIONAL INFORMATION ON METHODOLOGY

To be assessed by the JMMI, markets must be either a single permanent market, or a local community where multiple commercial areas are located in close proximity to one another. When possible, markets/shops are selected within a single geographical location, where there is at least one wholesaler operating in the market, or multiple areas of commerce within the same geographical location when it is too small, to provide a minimum of three price quotations per assessed item.

Participating organisations train their enumerators on the JMMI methodology and data collection tools using standard training materials developed by REACH. Each month. enumerators conduct KI interviews with market vendors to collect three price quotations for each item from the same market in each district. In addition to price levels, vendors are asked about the location of their supplier, the number of days it takes to restock the items. and the constraints they are facing in purchasing and selling the items in question. Additional questions are included for water trucking, to gauge the impact of delivery distance upon price level.

Following data collection, REACH compiles and cleans all partner data, normalising prices and cross-checking outliers. The cleaned data is then analysed by commodity and by governorate. To illustrate local variations in prices and availability, REACH uses the collected data to map the price of each type of item in each district. REACH also calculates the WASH SMEB (Survival Minimum Expenditure Basket), which is composed of four items: soap (1.05 kg), laundry powder (2 kg), sanitary napkins (20 units) and water trucking (3.15 m3). The cleaned data sets are available on the REACH Resource Centre and are distributed to all participating partners, as well as to relevant clusters and the broader humanitarian community.

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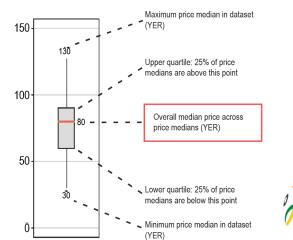
LIMITATIONS

Due to issues of access and security across Yemen, the districts included in the JMMI vary on a monthly basis, and as such there are sometimes a limited number of districts for which trends can be assessed over time. Governorate level data is aggregated from the respective districts assessed in a given month, and so the findings are not representative of individual markets. Finally, the market monitoring process has been coordinated remotely by REACH, which inherently presents some challenges in terms of coordination and follow-up with partners. Participating organisations are therefore requested to adopt harmonised data collection methodologies and tools to ensure that the data uploaded is as accurate as possible.

CALCULATION OF DISTRICT AND **GOVERNORATE MEDIAN PRICE**

The calculation of the aggregated median price for districts and governorates is done following a stepped approach. Firstly, the median of all the price quotations related to the same market is taken. Secondly, the median quotation from each market is aggregated to calculate the district median. Finally, the median guotation from each district is aggregated to calculate the governorate median. Additionally, district and governorate median prices and percentage change from one month to another are calculated only on data from markets that were assessed in both consecutive months. Therefore, part of the percentage variation should be attributed to changes in monthly coverage when registered.

How to read a box plot



WASH Cluster

Intersector Cash

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CMWG

ABOUT REACH

REACH is a joint initiative that facilitates the development of information tools and products that enhance the capacity of aid actors to make evidence-based decisions in emergency. recovery and development contexts. By doing so, REACH contributes to ensuring that communities affected by emergencies receive the support they need. All REACH activities are conducted in support to and within the framework of inter-agency aid coordination mechanisms. For more information, please visit our website at www.reach-initiative.org, contact us directly at yemen@reach-initiative.org or follow us on Twitter at @REACH info.

PARTICIPATING PARTNERS INCLUDE



or Development and Humanitarian Response المؤسسة الوطنية للتنمية والاستجابة الانساني

Number of Districts Assessed Per

Governorate

Aden

al Bavda

Amran

Hajjah

lbb

Lahi

Sa'ada

Sana'a

Shabwah

Socotra

Taizz

al Hudavdah

Amanat al Asimah

Districts Covered

2

6

2

2

5

1

2

4

3

2

1

8

Governorate