

Yemen Joint Market Monitoring Initiative

July Situation Overview 2020



CMWG | Intersector Cash and Market Working Group

REACH Informing more effective humanitarian action

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 and Food Survival Minimum Expenditure Basket (SMEB) as well as other food and non-food items. In light of the current COVID-19 pandemic, REACH has adapted the JMMI to begin assessing the potential impact of the pandemic on markets and on respondents' businesses.

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. 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. From April 2020, data for the JMMI has been collected on a bi-weekly basis to better track disruptions caused by COVID-19. COVID-specific JMMI factsheets are produced bi-weekly, and a more comprehensive situation overview using data from both factsheets is produced monthly. Data from the second round (final week) of the month will be compared to data from the last week of the previous month, to ensure a consistent month-to-month comparison. Please refer to the [appendix](#) for additional methodological details.

JMMI monthly figures

Data collection July (round 1) **12 July - 16 July**

- 12 Participating partners
- 50 Districts assessed
- 269 Vendor KIs surveyed

Data collection July (round 2) **23 July - 30 July**

- 12 Participating partners
- 49 Districts assessed
- 249 Vendor KIs surveyed

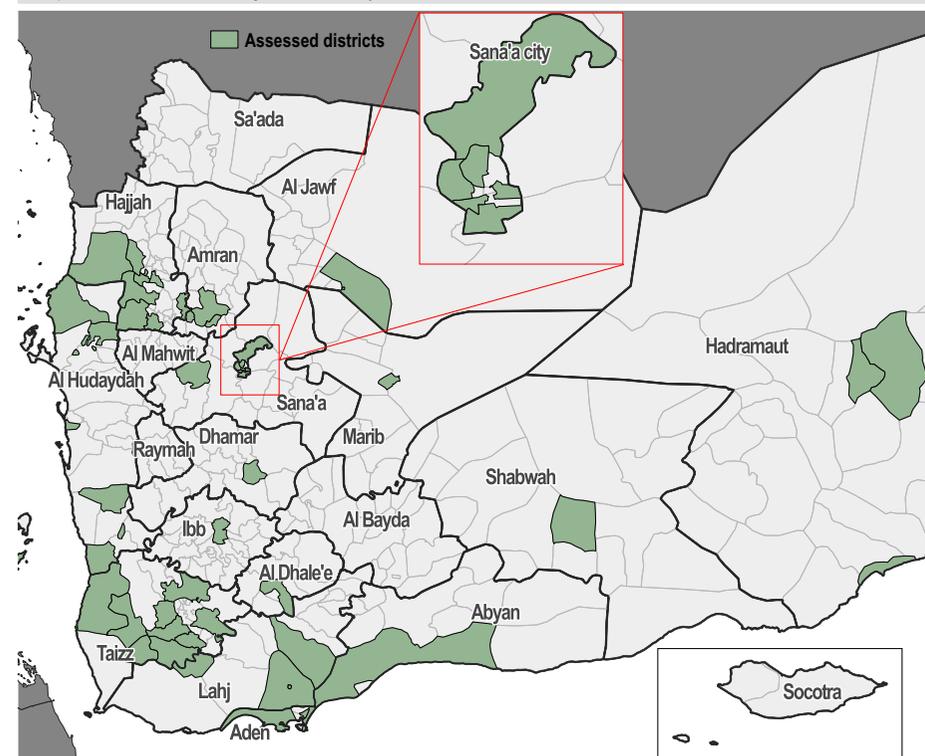
Assessed items	Jul-2020 (R1)	Jul-2020 (R2)	Change (from Jul-2020 R1)
Full SMEB	57975	50150	-13.4%
WASH SMEB*	11375	12850	+12.9%
Soap (100g)	150	150	0.0%
Laundry powder (100g)	120	120	0.0%
Sanitary napkins (10 Pack)	550	500	-9%
Water trucking (1m ³)	2000	2500	+25%
Petrol (1L)	350	400	+14.2%
Diesel (1L)	390	425	+8.9%
Bottled water (0.75L)	150	131	-12.6%
Treated water (10L)	100	100	0.0%
Bleach (1L)	700	700	0.0%
Cooking gas (1 cylinder)	4000	4000	0.0%
Food SMEB[^]	44565	37300	-16.3%
Wheat flour (1 kg)	350	300	-14.2%
Rice (1 kg)	650	650	0.0%
Dry Kidney beans (1 kg)	700	700	0.0%
Canned kidney beans (1 15oz can)	300	300	0.0%
Lentils (1 kg)	700	700	0.0%
Vegetable Oil (1 Liter)	900	850	-5.5%
Sugar (1 kg)	425	400	-5.8%
Salt (1 kg)	150	100	-33.3%
Potatoes (1 kg)	400	450	+12.5%
Onions (1 kg)	425	400	-5.8%

*Contains soap (10.5 Kg), laundry powder (2 Kg), sanitary napkins (20 units), and water (3.15 m³)

[^] Contains wheat flour (75 kg), dry kidney beans (10 kg), vegetable oil (8 liters), sugar (2.5 kg), iodized salt (1)

KEY FINDINGS

- The number of businesses reported as open within a 2 minute walk from KIs has continued to **increase**.
- Vendor KIs reported **facing additional difficulties** obtaining fuel. Almost all vendor KIs (91%) reported that diesel was difficult to obtain and 82% reported difficulties obtaining petrol.
- Price inflation** remains the most commonly reported economic issue when obtaining fuel items, WASH, food items, and water trucking services.
- The food SMEB cost was found to have **decreased by 16.3%** since early July, contributing to a 13.4% decrease in the overall SMEB cost.
- The average restocking time for food items was found to be **lower** than for fuel and WASH items.
- Exchange rates continue to **differ** across the country: rates under 600 Yemeni Riyals (YER) to one US dollar (USD) were reported in Al Hudaydah, Amran, Hajjah, Ibb, and Sana'a City. Meanwhile, the highest exchange rates were reported in Hadramaut, Lahj, Aden and Abyan.



Exchange Rate

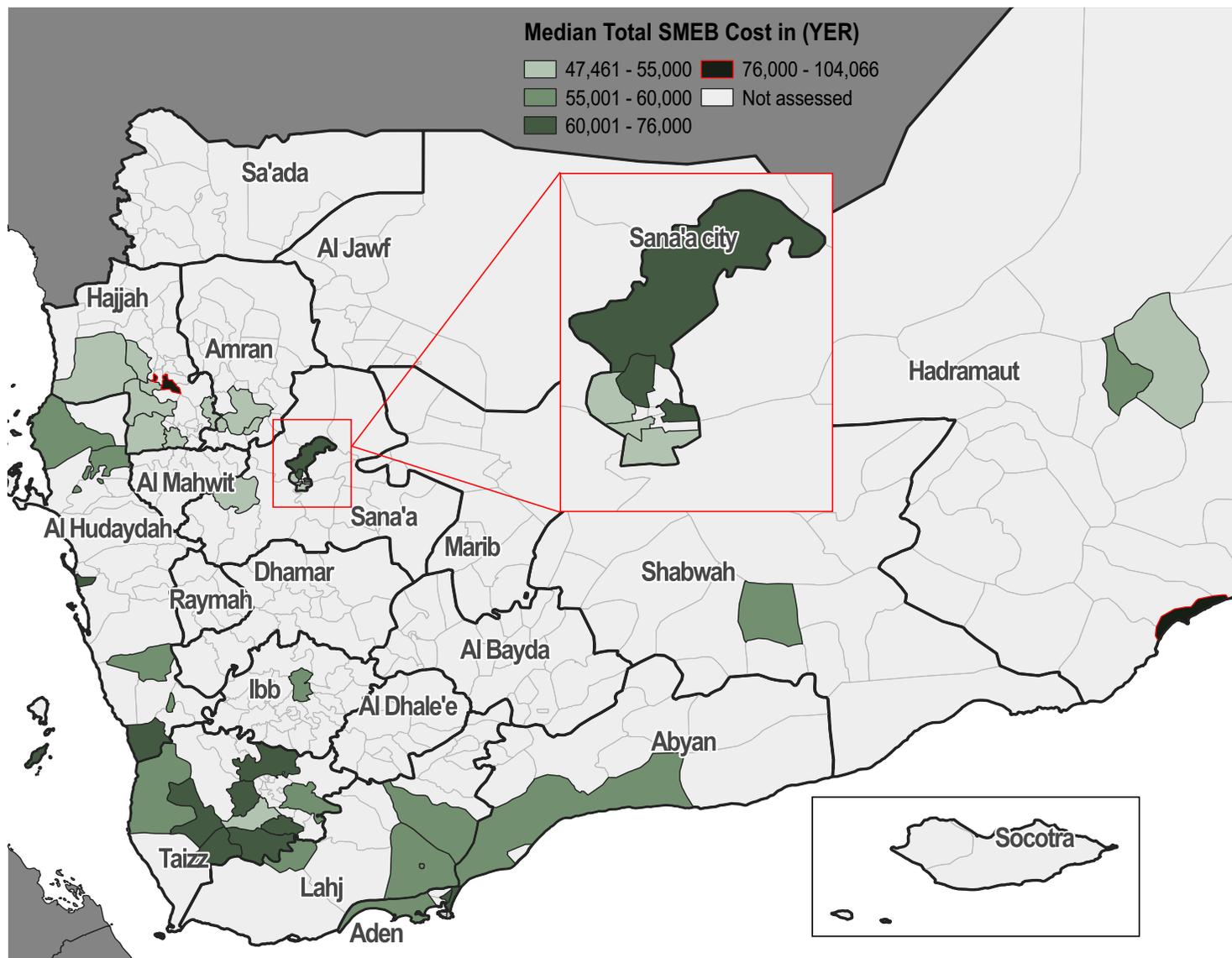
250
▲ 0.0%
USD/YER
Official

598
▼ -3.6%
USD/YER
Parallel market*

620
USD/YER
Previous Parallel Market
Rate June (R2) 2020

750
USD/YER
New currency market

Total SMEB prices (23-30 July)*,^



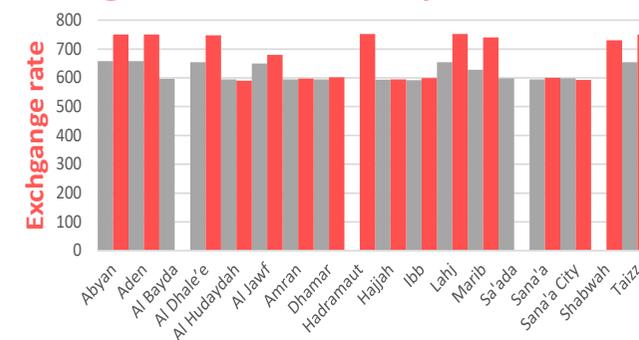
*Total SMEB cost in the legend represents the calculated food basket cost with canned beans.
 ^Red outlines over Al Mahabishah district and Al Mukalla city indicate the districts for which outliers were depicted.

Exchange rate (YER/USD)*

Governorate	March 2020 [^]	July (Round 1)	July (Round 2)
Abyan	658 (658)	750 (750)	750 (750)
Aden	658 (658)	750 (749)	750 (750)
Al Bayda	596 (596)	NA	NA
Al Dhale'e	654 (656)	648 (748)	748 (751)
Al Hudaydah	595 (597)	601	590 (590)
Al Jawf	650	680	680
Amran	595	598	597
Dhamar	595	602	602
Hadramaut	NA	755	752
Hajjah	594	595	595 (594)
Ibb	592	598	599
Lahj	654 (654)	750 (750)	752 (750)
Marib	628	740	740
Sa'ada	598	NA	NA
Sana'a	595	NA	600
Sana'a City	598 (628)	735 (742)	593
Shabwah	NA	598	730 (745)
Taizz	654 (656)	740 (736)	750 (749)

*Exchange rate for the new currency released last year is in parenthesis.
 ^March was chosen as a baseline to assess the effect of COVID-19 on exchange rates.

Exchange rate in March and July 2020 (YER/USD)*



Governorates

■ March exchange rates
 ■ July exchange rates

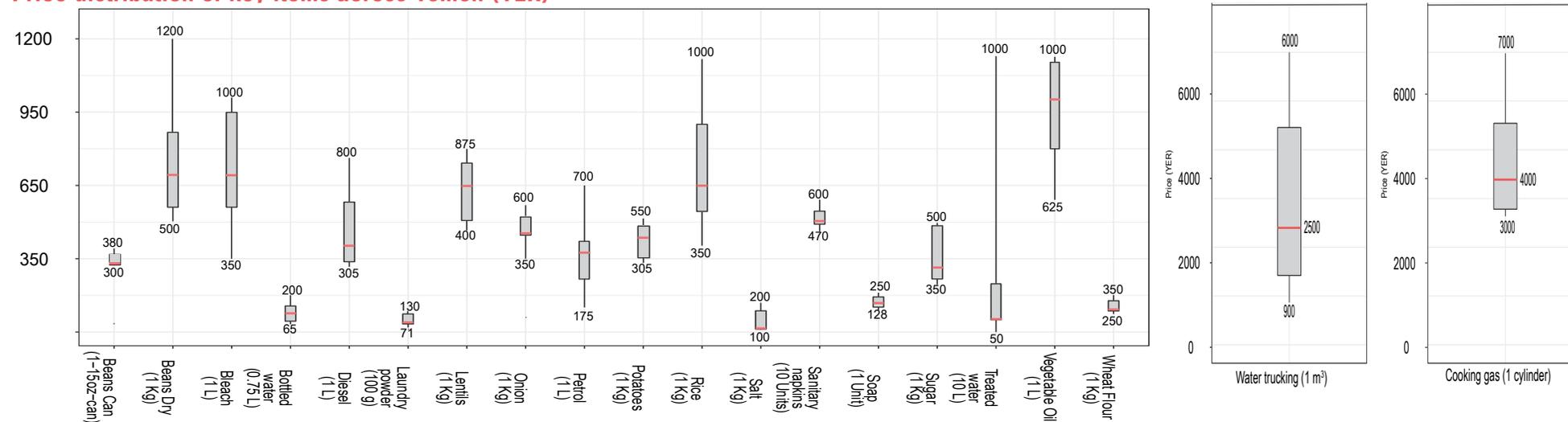
*Governorate labels point to two bars indicating March base values and July round 2 values, gaps between bars indicates that no exchange rate value was recorded in this governorate.

Price per key item, per governorate (YER)*

Governorate	Petrol (1L)	Diesel (1L)	Cooking gas	Bottled water (0.75L)	Treated water (10L)	Bleach (1L)	Soap (1 Unit)	Laundry powder (100g)	Sanitary napkins (10)	Water trucking (1m³)	WASH SMEB	Wheat flour (1Kg)	Rice (1Kg)	Beans Dry (1Kg)	Beans cans (1 15oz can)	Lentils (1 Kg)	Vegetable oil (1L)	Sugar (1Kg)	Salt (1Kg)	Potatoes (1Kg)	Onions (1 Kg)	Food SMEB
Abyan	290	410	3500	120	100	900	168	100	600	1800	10634	350	800	700	300	NA	800	500	100	500	600	44800
Aden	285	385	5000	100	100	950	154	100	600	2200	11747	350	1000	800	350	850	1000	475	100	400	400	48138
Al Dhale'e	300	380	3200	100	100	900	170	100	500	3000	14235	300	500	700	NA	500	1000	450	100	500	450	NA
Al Hudaydah	600	650	4000	150	NA	460	141	130	470	5000	20771	265	675	NA	300	650	775	400	125	500	450	38000
Al Jawf	500	480	NA	200	1000	560	250	120	650	1250	10263	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Amran	295	345	NA	120	100	700	150	120	500	1000	8125	300	450	NA	300	400	740	350	150	450	375	40245
Dhamar	700	800	NA	150	500	750	150	120	500	1000	8125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hadramaut	285	305	3000	100	540	745	183	100	600	4000	17722	310	580	700	300	775	760	410	200	550	450	41355
Hajjah	550	500	7000	100	100	500	150	120	500	2500	12850	250	620	500	300	700	850	400	100	500	400	37450
Ibb	295	345	5000	130	100	700	200	130	600	3000	15350	325	400	NA	350	700	625	400	150	325	350	43125
Lahj	285	390	3900	100	100	1000	200	120	600	1750	11213	312	970	1200	350	875	960	385	125	400	350	44768
Marib	175	370	NA	65	50	700	125	120	500	900	7548	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sana'a	NA	NA	3950	120	100	725	128	109	450	1200	8204	300	350	NA	300	475	900	400	200	400	375	41700
Sana'a City	295	345	NA	120	110	350	145	109	500	6000	23598	300	800	NA	380	500	775	350	100	300	400	43355
Shabwah	350	375	3250	100	NA	700	200	71	500	1250	8458	340	720	NA	350	NA	1000	440	100	NA	NA	47300
Taizz	400	425	4000	150	100	906	150	125	550	3000	14625	340	507	800	325	700	950	420	110	450	475	45960
National median price	400	425	4000	131	100	700	150	120	500	2500	12850	300	650	700	300	650	850	400	100	450	400	41200

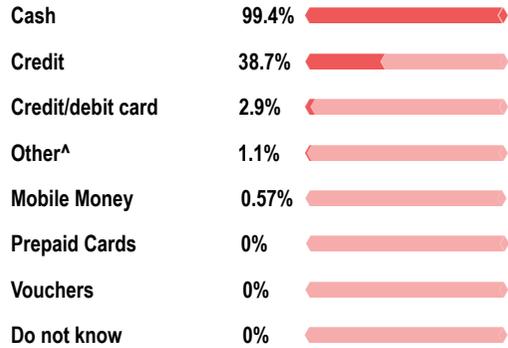
*Darker color strokes indicate high outliers for each commodity, lighter color strokes indicate the low outliers of each commodity.

Price distribution of key items across Yemen (YER)



WASH SMEB*

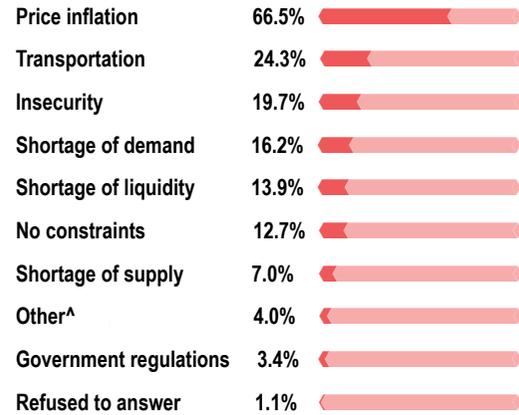
WASH vendors reported accepting the following payment modalities*



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

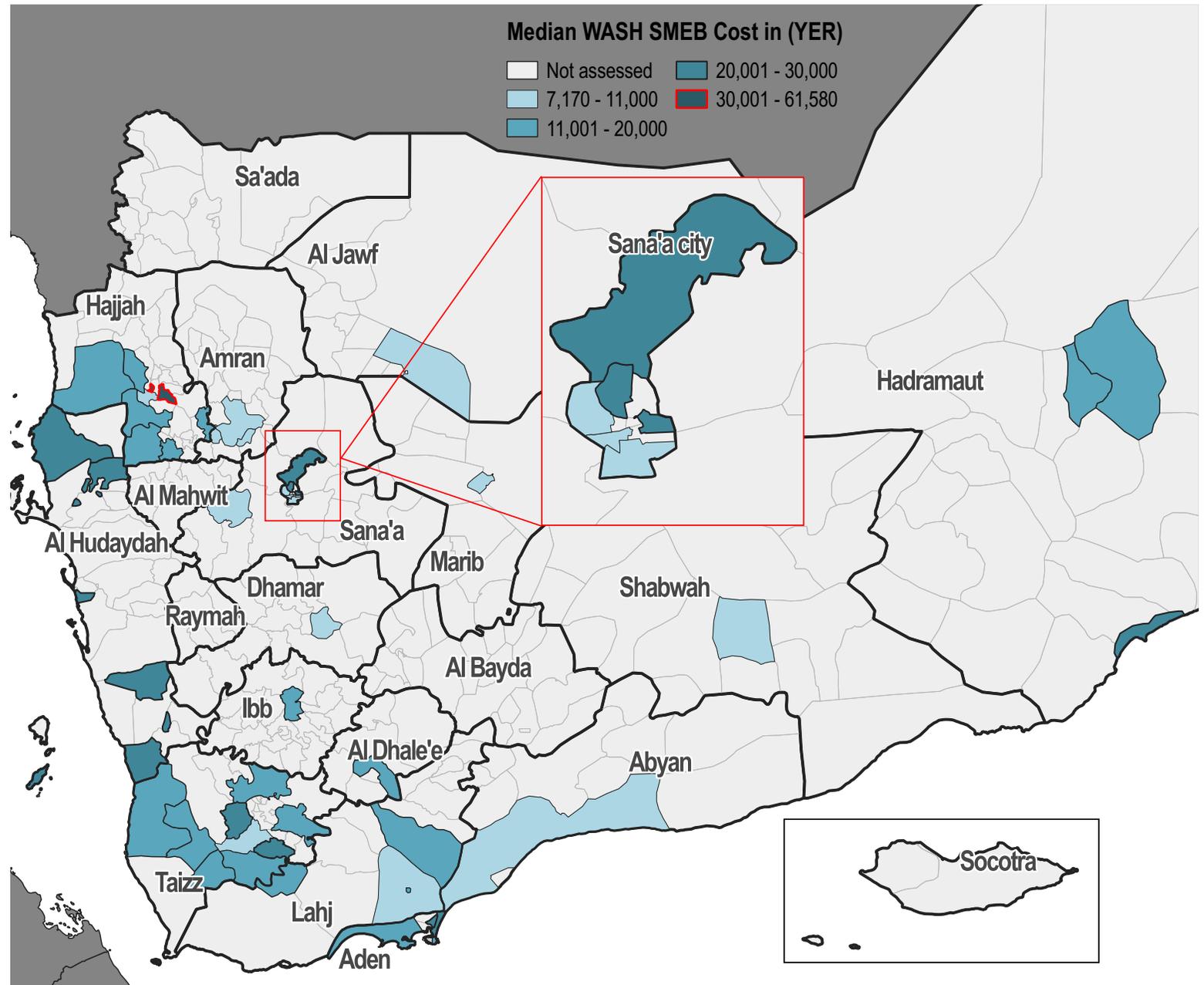
^Includes bank transfers.

Most commonly reported constraints, by % of WASH vendors*



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

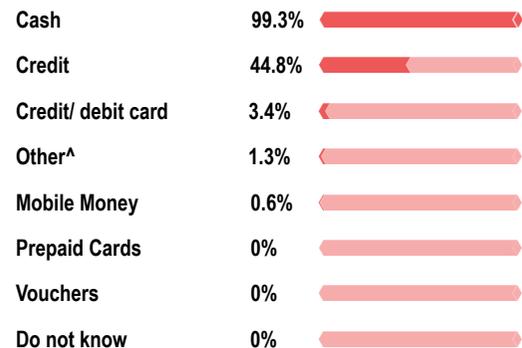
^Includes increased currency fluctuations, loss of vendors in the area, and additional fees.



*Red outlines over Al Mahabishah district indicate the districts for which outliers were depicted.

Food SMEB*

Food vendors reporting accepting the following payment modalities*



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

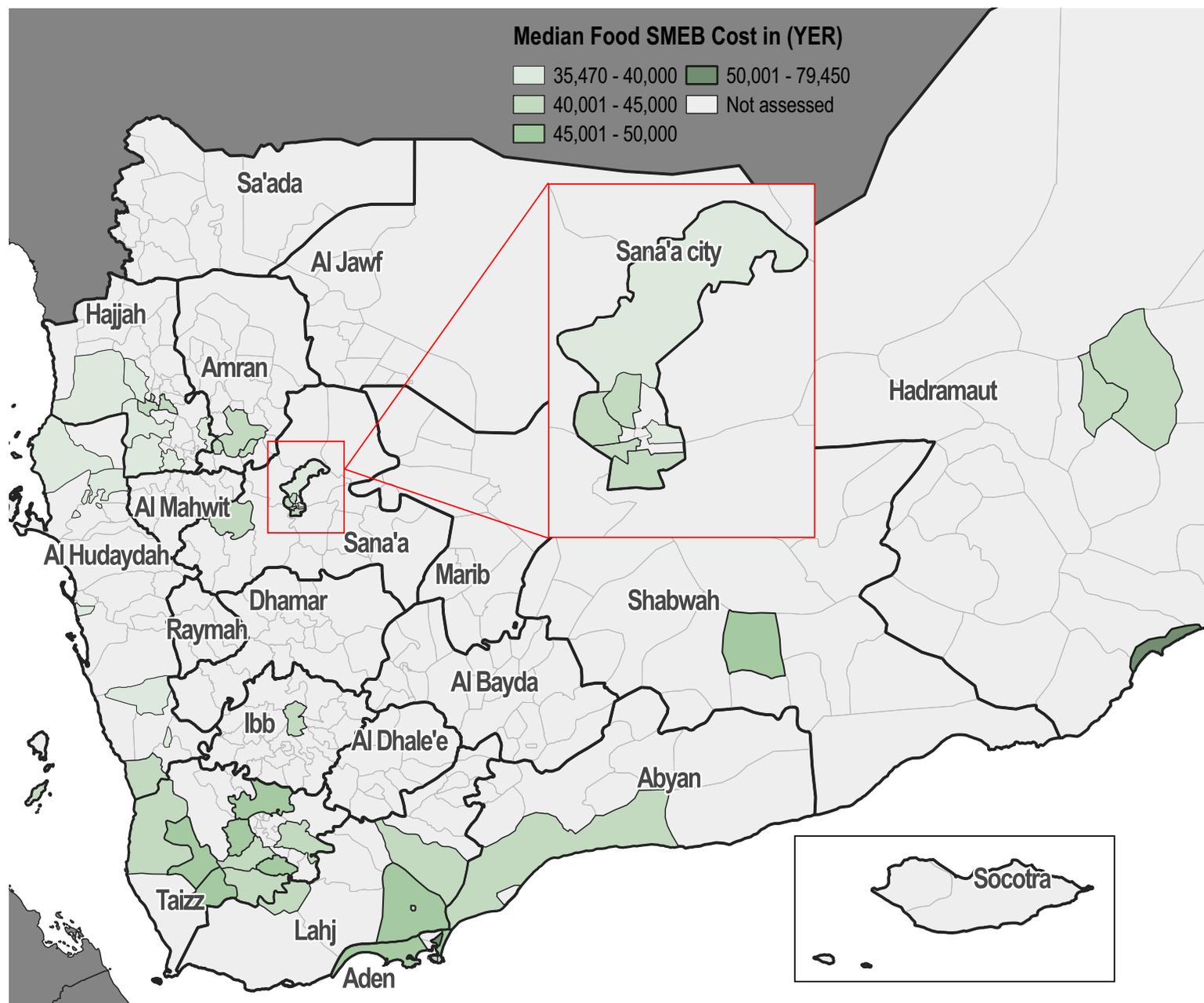
^Includes bank transfers.

Most commonly reported constraints, by % food vendors*



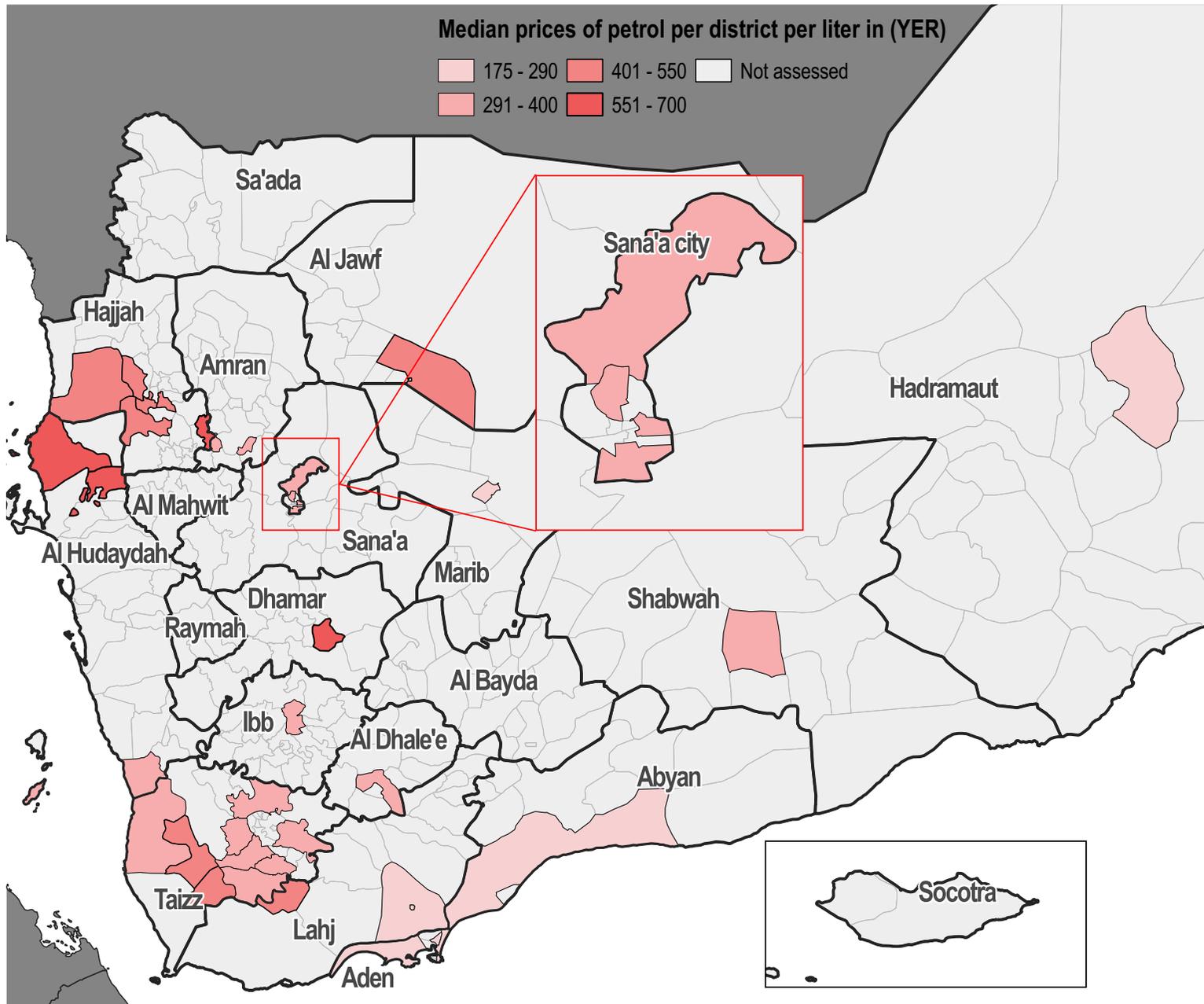
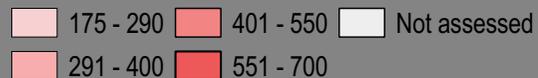
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

^Usually includes increased currency fluctuations, loss of vendors in the area, and additional fees.

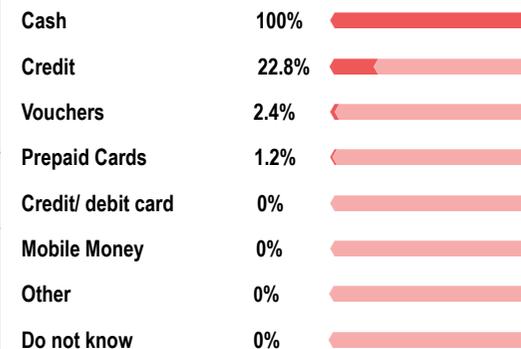


*Total SMEB cost in the legend represents the calculated food basket cost with canned beans.

Median prices of petrol per district per liter in (YER)

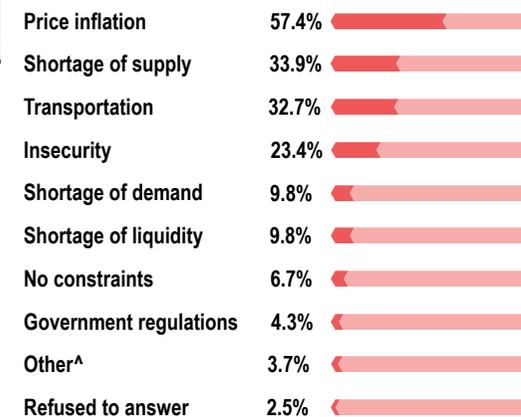


Fuel vendors reported accepting the following payment modalities*



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

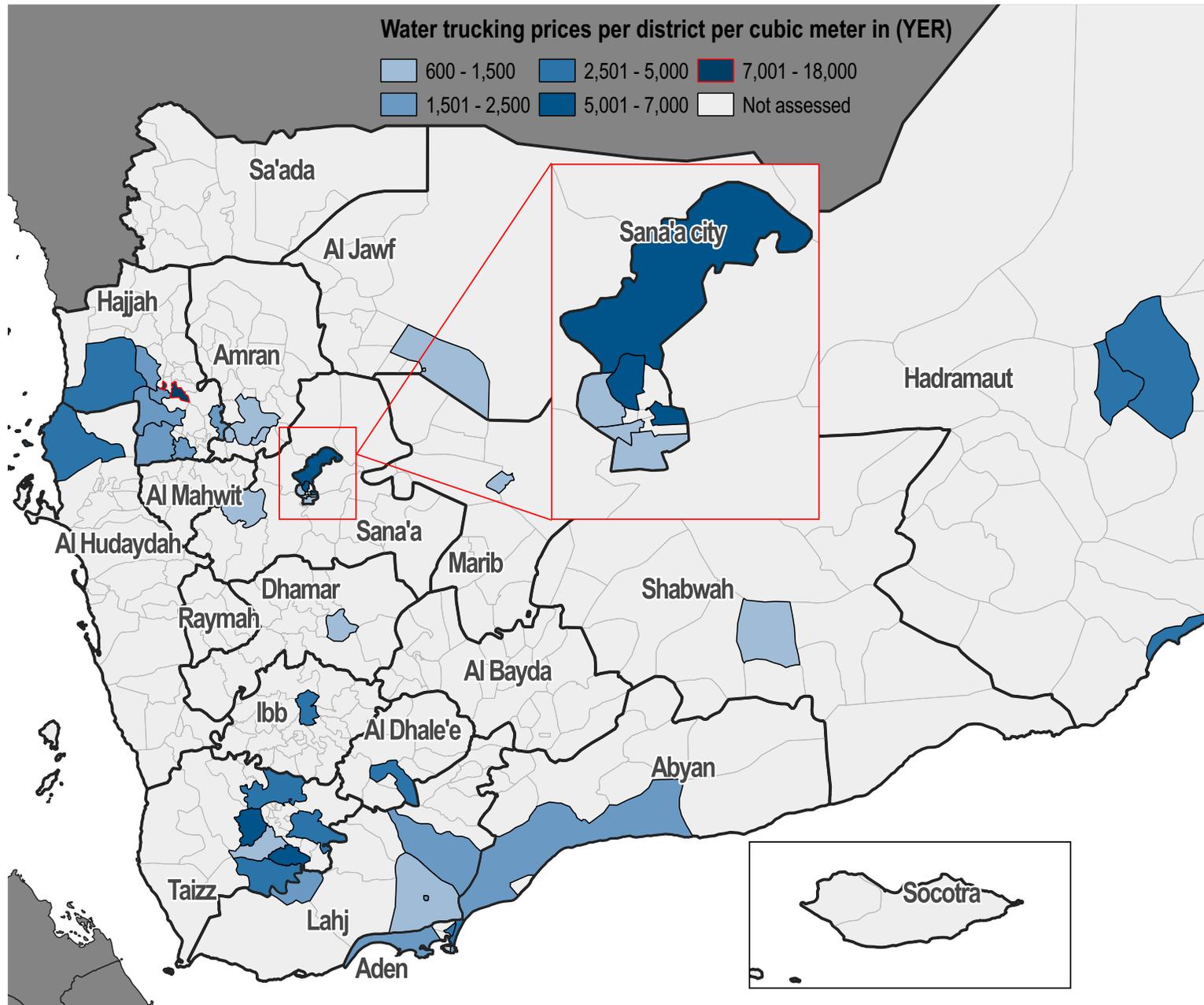
Most commonly reported constraints, by % of fuel vendors*



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

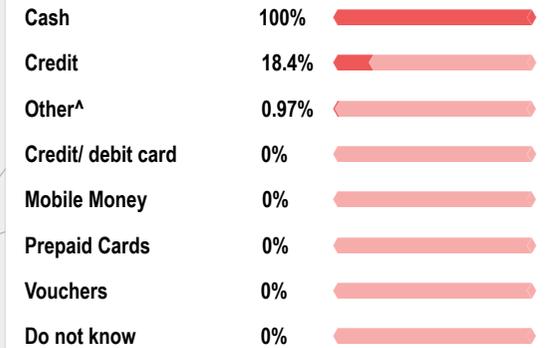
^Includes increased currency fluctuations, loss of vendors in the area, and additional fees.

Water Trucking SMEB



Red outlines over Al Mahabishah district indicate the districts for which outliers were depicted.

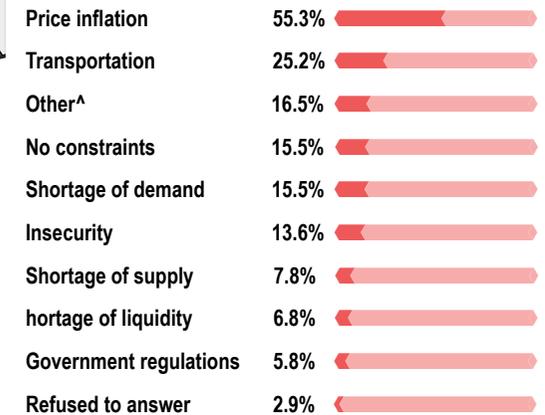
Water trucking vendors reported accepting the following payment modalities*



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

^Includes bank transfers.

Most commonly reported constraints, by % of water trucking vendors*



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

^Includes increased currency fluctuations, loss of vendors in the area, and additional fees.

SUPPLY CHAIN OVERVIEW FOR YEMEN

Median price of goods originating from Aden and al Hudaydah

Vendor KIs were asked about the origin of various products sold in their stores. The two main ports of origin for these products were Aden and al Hudaydah. The table below shows the median price of goods originating from these two ports.

Item	Aden	Al Hudaydah
Petrol (1L)	47 YER	26 YER
Diesel (1L)	42 YER	20 YER
Cooking Gas	47 YER	44 YER
Soap (1 unit)	44 YER	44 YER
Laundry Powder (100g)	43 YER	44 YER
Sanitary Napkins (10units)	32 YER	37 YER
Wheat Flour (1kg)	50 YER	35 YER
Beans Dry (10kg)	7 YER	2 YER
Beans Can (15oz can)	41 YER	29 YER
Vegetable Oil (1L)	50 YER	32 YER
Sugar (1kg)	49 YER	35 YER
Salt	48 YER	33 YER
Potatos (1kg)	4 YER	3 YER
Onions (1kg)	31 YER	21 YER
Bleach (1L)	37 YER	40 YER
Bottled water (0.75L)	41 YER	41 YER
Treated water (10L)	28 YER	37 YER
Water trucking (1m ³)	32 YER	19 YER
Rice (1kg)	34 YER	44 YER
Lentils (1kg)	17 YER	20 YER

Average restocking time (days)

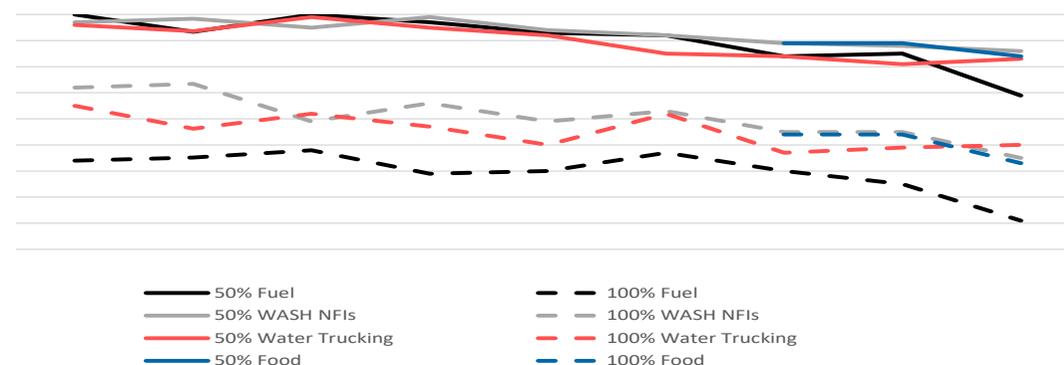
-Change in days from (July 1st round 2020) in brackets -

Governorate	Fuel Items	WASH Items	Food Items
Abyan	4 (-6)	8 (4)	11 (-1)
Aden	3 (NA)	3 (1)	2 (NA)
Al Dhale'e	3 (-2)	1 (-1)	2 (-1)
Al Hudaydah	5 (-2)	8 (2)	4 (-1)
Al Jawf	20 (10)	4 (-4)	NA (NA)
Amran	6 (6)	14 (-2)	5 (2)
Dhamar	22 (17)	9 (1)	NA (NA)
Hadramaut	4 (NA)	7 (4)	2 (NA)
Hajjah	8 (1)	7 (3)	7 (3)
Ibb	9 (-1)	6 (1)	5 (1)
Lahj	4 (NA)	4 (-2)	4 (-2)
Marib	9 (1)	30 (3)	NA (NA)
Sana'a	7 (7)	2 (2)	2 (2)

* N/A indicates that the specific question was not answered by the KIs

Vendor capacity to respond to a sudden increase in demand: Proportion of vendors able to absorb a 50% and 100% increase in demand for key items

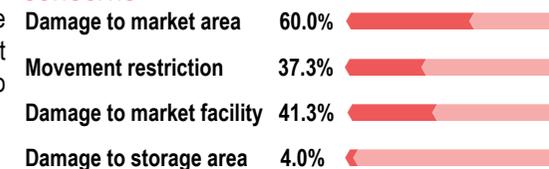
To understand vendor capacity to cope with sudden increases in the demand for water trucking, fuel, and WASH items, vendor KIs were asked if they would be able to increase their stock by 50% and 100% respectively. Responses indicated that KIs are better able to absorb a 50% increase in demand, compared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



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, 70% of the vendor KIs responded that they did not face any concerns compared to 30% who responded that they did.

Most commonly reported market-related concerns*

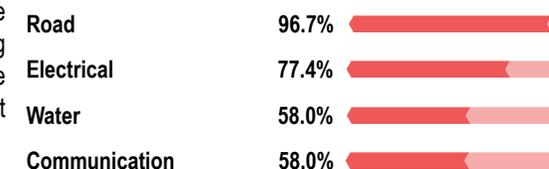


*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

Damaged infrastructure affecting vendor capacity to conduct business

The 30% of 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.

DISTRICTS COVERED

Governorate	District	Petrol price	Water Trucking	SMEB WASH	SMEB Food	SMEB Total	Fuel: Supplier Governorate	Fuel: Number respondents of total interviewed ^A	WASH: Supplier Governorate	WASH: Number respondents of total interviewed ^A	Food: Supplier Governorate	Food: Number respondents of total interviewed ^A
Abyan	Khanfir	290	1800	20725	39350	60075	3/3	Aden	4/5	Abyan	4/5	Aden
Aden	Al Buraiqeh	285	2400	7223	29798	37021	3/5	Aden	5/5	Aden	5/5	Aden
Aden	Ash Shaikh Outhman	285	5000	12850	26450	39300	2/2	Aden	2/2	Aden	2/2	Aden
Aden	Craiter	285	1750	14385	37235	51620	3/3	Aden	3/3	Aden	3/3	Aden
Aden	Khur Maksar	285	5000	12419	43600	56019	2/2	Aden	2/2	Aden	1/1	Aden
Al Dhale'e	Ad Dhale'e	300	3000	10634	41000	51634	5/5	Aden	4/5	Al Dhale'e	3/5	Al Dhale'e
Al Hudaydah	Al Hawak	N/A	N/A	7170	29793	36963	3/3	Al Hudaydah	3/3	Al Hudaydah	3/3	Al Hudaydah
Al Hudaydah	Al Khawkhah	400	N/A	16400	34900	51300	3/3	Aden	3/3	Aden	3/3	Aden
Al Hudaydah	Al Qanawis	600	N/A	27208	35350	62558	8/8	Al Hudaydah	7/9	Al Hudaydah	9/9	Al Hudaydah
Al Hudaydah	Alluheyah	600	5000	12850	29410	42260	9/9	Al Hudaydah	9/9	Al Hudaydah	9/9	Al Hudaydah
Al Hudaydah	Zabid	N/A	N/A	14235	38725	52960	10/10	Al Hudaydah	10/10	Al Hudaydah	N/A	N/A
Al Jawf	Al Hazm	500	1250	23160	25600	48760	3/3	Marib	3/3	Sana'a	N/A	N/A
Amran	Amran	295	1000	10980	79650	90630	2/2	Al Hudaydah	4/5	Sana'a	2/2	Sana'a
Amran	Jabal Iyal Yazid	N/A	1000	8204	30900	39104	N/A	#N/A	2/2	Amran	2/2	Amran
Dhamar	Dhamar City	700	1000	21375	66850	88225	3/3	Dhamar	3/3	Dhamar	N/A	N/A
Hadramaut	Al Mukalla City	N/A	5000	9384	42896	52280	3/3	Hadramaut	3/3	Hadramaut	3/3	Hadramaut
Hadramaut	Sayun	N/A	4000	7548	N/A	7548	3/3	Hadramaut	3/3	Hadramaut	3/3	Hadramaut
Hadramaut	Tarim	285	3000	7995	30565	38560	3/3	Hadramaut	3/3	Hadramaut	3/3	Hadramaut
Hajjah	Abs	550	3000	15350	30525	45875	3/3	Al Hudaydah	3/3	Al Hudaydah	2/3	Al Hudaydah
Hajjah	Al Mahabishah	500	18000	23530	9625	33155	N/A	N/A	3/3	Hajjah	3/3	Sana'a city
Hajjah	Ash Shaghadirah	N/A	2000	13250	25775	39025	2/2	Al Hudaydah	2/2	Al Hudaydah	2/2	Al Hudaydah
Hajjah	Aslem	550	2500	11775	28138	39913	3/3	Al Hudaydah	3/3	Al Hudaydah	3/3	Al Hudaydah
Hajjah	Bani Qa'is	N/A	2500	18722	36780	55502	1/1	Al Hudaydah	2/2	Al Hudaydah	2/2	Al Hudaydah
Hajjah	Ku'aydinah	550	2500	11698	30688	42385	3/3	Al Hudaydah	3/3	Al Hudaydah	3/3	Al Hudaydah
Hajjah	Kuhlan Affar	625	2500	20525	35455	55980	4/4	Hajjah	2/4	Al Hudaydah	2/4	Al Hudaydah
Hajjah	Qafil Shamer	500	2000	9100	35475	44575	3/3	Hajjah	3/3	Hajjah	3/3	Hajjah
Ibb	Al Makhadir	295	3000	15065	30525	45590	1/4	Sana'a	3/3	Ibb	2/2	Ibb
Lahj	Al Hawtah	285	1750	23265	25600	48865	3/3	Aden	3/3	Aden	3/3	Aden
Lahj	Al Maqatirah	425	2250	17765	34296	52061	3/3	Aden	2/3	Taizz	2/3	Taizz
Lahj	Al Milah	N/A	2000	15041	32575	47616	1/3	Aden	4/4	Aden	4/4	Aden
Lahj	Tuban	285	1000	8125	29285	37410	1/1	Aden	1/2	Aden	1/1	Lahj
Marib	Marib City	175	900	12588	30954	43542	3/3	Marib	3/3	Marib	N/A	N/A
Sana'a	Al Haymah Ad Dakhiliyah	N/A	1200	23775	29800	53575	3/2	Al Hudaydah	2/2	Sana'a	2/2	Sana'a city
Sana'a City	Al Wahdah	N/A	650	10263	N/A	10263	N/A	N/A	2/2	Sana'a	2/2	Sana'a
Sana'a City	As Sabain	295	1200	61580	81686	143266	3/3	Sana'a city	3/3	Sana'a city	N/A	N/A
Sana'a City	Ath'haorah	295	6000	20843	30550	51393	3/3	Sana'a	3/3	Sana'a	3/3	Sana'a
Sana'a City	Az'zal	295	6000	20715	28500	49215	3/3	Sana'a	3/3	Sana'a	3/3	Sana'a
Sana'a City	Bani Al Harith	295	6000	20635	N/A	20635	3/3	Sana'a	3/3	Sana'a	3/3	Sana'a
Sana'a City	Ma'ain	N/A	600	12925	44400	57325	N/A	N/A	2/2	Sana'a	2/2	Sana'a
Shabwah	Ataq	350	1250	21694	23950	45644	3/3	Hadramaut	2/3	Aden	3/3	Aden
Taizz	Al Mukha	400	N/A	8340	N/A	8340	5/5	Aden	5/5	Aden	5/5	Aden
Taizz	Al Ma'afer	400	1417	16383	35010	51393	3/4	Aden	3/4	Taizz	4/4	Aden

DISTRICTS COVERED (CONT.)

Governorate	District	Petrol price	Water Trucking	SMEB WASH	SMEB Food	SMEB Total	Fuel: Supplier Governorate	Fuel: Number respondents of total interviewed ^A	WASH: Supplier Governorate	WASH: Number respondents of total interviewed ^A	Food: Supplier Governorate	Food: Number respondents of total interviewed ^A
Taizz	Al Mawasit	400	7000	16303	34150	50453	1/3	Aden	N/A	N/A	1/1	Taizz
Taizz	Al Wazi'iyah	425	N/A	14425	29250	43675	3/3	Aden	3/3	Aden	3/3	Aden
Taizz	Ash Shamayatayn	400	4000	13398	28225	41623	3/6	Aden	3/6	Aden	6/6	Aden
Taizz	At Ta'iziyah	295	3000	20725	27000	47725	1/2	Sana'a	2/2	Taizz	2/2	Taizz
Taizz	Dimnat Khadir	295	3000	8125	N/A	8125	1/3	Sana'a	2/2	Taizz	2/2	Taizz
Taizz	Jabal Habashy	400	6000	8458	34700	43158	7/8	Lahj	7/8	Taizz	6/6	Taizz
Taizz	Mawza	425	N/A	11738	32080	43818	3/3	Aden	3/3	Aden	3/3	Aden

^AIf the number is 4/10 (e.g.), this indicates that 10 vendor KIs were interviewed, of those, 4 answered the supply question.

The supplier governorate indicates the most prevalent answer. In the case of a tie, both governorates are shown.

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

↪ WASH prices and vendors were not available in specific district.

↪ Do Not Know was a potential option that could be selected by respondents.

NA indicates that, in the specific location, the data was reported to be unavailable.

Bold red indicates outlier (3 standard deviations away).

Food SMEB contains (75 kg) of wheat flour, (10 kg) of Beans (kidney), (8 l) of Vegetable oil, (2.5 kg) of sugar, and Iodized Salt.

Wash SMEB contains (100g) of Soap, (100g) of Laundry Powder, (10 pack) of Sanitary Napkins, (1 L) of Bleach, (10 L) of Treated Water, and (0.75 L) of Bottled Water.

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.

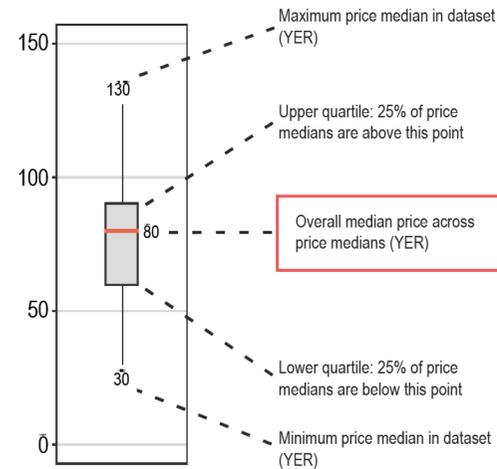
Limitations

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 quotation 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



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](https://twitter.com/REACH_info).

Number of districts assessed per governorate

Governorate	July Round 1	July Round 2
Abyan	1	1
Aden	4	4
Al Dhale'e	1	1
Al Hudaydah	5	5
Al Jawf	1	1
Amran	2	2
Dhamar	1	1
Hadramaut	2	3
Hajjah	8	8
Ibb	1	1
Lahj	4	4
Marib	1	1
Sana'a	0	1
Sana'a City	6	6
Shabwah	1	1
Taizz	12	9

Participating partners include

