

Yemen Joint Market Monitoring Initiative

August 2022 Situation Overview



CMWG

Intersector Cash
and Markets
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 is a monthly survey of market systems. The basket of goods assessed includes 10 non-food items (NFIs), such as 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 addition to price monitoring, the JMMI includes indicators of market functionality, such as questions to infer the supply chain, vendors' constraints and ability to meet demands.

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. A minimum of three price quotations, per district, must be obtained. Following data collection, REACH compiles, cleans and analyzes all data, through detailed follow-ups with partners. REACH uses medians to aggregate findings to district, governorate, de-facto authorities (DFA), internationally recognized government (IRG), and national level. It also calculates SMEB prices. Findings are indicative for the assessed locations and time frame in which the data was collected. Districts assessed differ from month to month. Please refer to page 11 for additional methodological details and limitations.

JMMI monthly figures

Data collection **7th -11th of August**

15 Participating partners

12 Governorates assessed

54 Districts assessed

229 Prices collected per monitored item (average)

Median prices of assessed items

Assessed items	IRG	Monthly change	DFA	Monthly change
Soap (100g)	350	+12%	200	-11%
Laundry powder (100 g)	280	+12%	150	0%
Sanitary napkins (pack of 10)	1000	0%	600	0%
Water trucking (1 m³)	5000	0%	2000	-33%
Bottled water (0.75 L)	200	-16%	140	-7%
Treated water (10 L)	200	0%	125	-6%
Bleach (1 L)	1600	+7%	842	-1%
Petrol (1L)	1340	+1%	600	-14%
Diesel (1L)	1475	+1%	690	-21%
Cooking gas (1 cylinder)	9638	+4%	6750	-15%
WASH SMEB*	30208	+3%	15030	-14%
Wheat flour (1 kg)	900	+7%	450	-13%
Rice (1 kg)	1600	+7%	850	-3%
Canned kidney beans (15 oz)	900	+13%	450	0%
Dry kidney beans (1 kg)	2675	+5%	900	-29%
Lentils (1 kg)	2200	+10%	1100	-8%
Vegetable oil (1L)	2900	+4%	1475	-2%
Sugar (1 kg)	1000	0%	500	0%
Salt (1 kg)	184	-4%	150	0%
Potatoes (1 kg)	1000	0%	500	+25%
Onions (1 kg)	1150	+43%	700	+40%
Food SMEB^ (canned beans)	124058	+3%	61012	+5%
Food SMEB^ (dry beans)	119440	+3%	54600	-29%
Total SMEB**	195009	+2%	125275	-4%

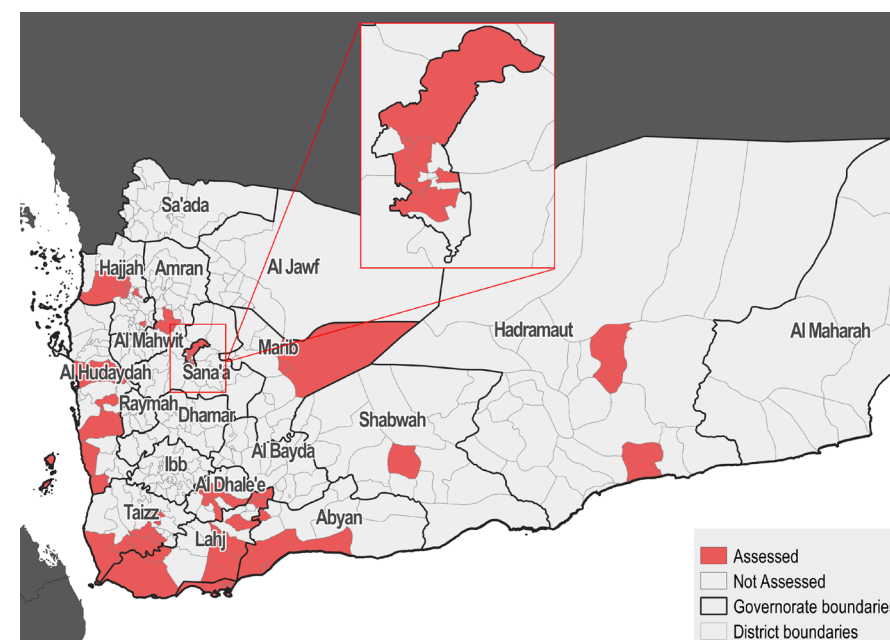
* Contains soap (1.05 kg), laundry powder (2 kg), sanitary napkins (50 units), and water (3.15 m³).

^ Contains wheat flour (75 kg), dry beans (10 kg) or canned beans (36 cans), vegetable oil (8 L), sugar (2.5 kg), salt (1kg)

** Includes WASH SMEB, food SMEB and lumpsum of NFI/Shelter and services based on the CMWG Guidance Note of 2020. Per district, the cheapest bean type (dry or canned) is used to calculate the food component of the total SMEB.

Key findings

- The median cost of the food SMEB, with canned beans, did not critically change compared to the previous month. In August, it was measured at 124,058 YER IRG areas and 61,012 YER in DFA areas.
- Most of the monitored items in DFA areas decreased in price, most notably water trucking (-33%), diesel (-21%), cooking gas (-15%) and petrol (-14%), as well as dried kidney beans (-29%).
- Fuel prices in the IRG remain high, median prices were found at 1340 YER for petrol (1L) and 1465 YER for diesel (1L), the difference with the median price in the DFA was 750 YER and 785 YER respectively.
- The median cost of the WASH SMEB stood at 30,208 YER in the IRG and 15,030 YER in the DFA. Districts with a WASH SMEB price above 40,000 YER were found in Marib, Taiz, Ad Dale'e and Aden.
- Restocking times are within one week, except from Al Hudaydah, according to the interviewed food, WASH and fuel vendors.



Exchange Rate

530 ▶ 0%
USD/YER
Official

558 ▶ 0%
USD/YER
Parallel market (DFA)
August 2022

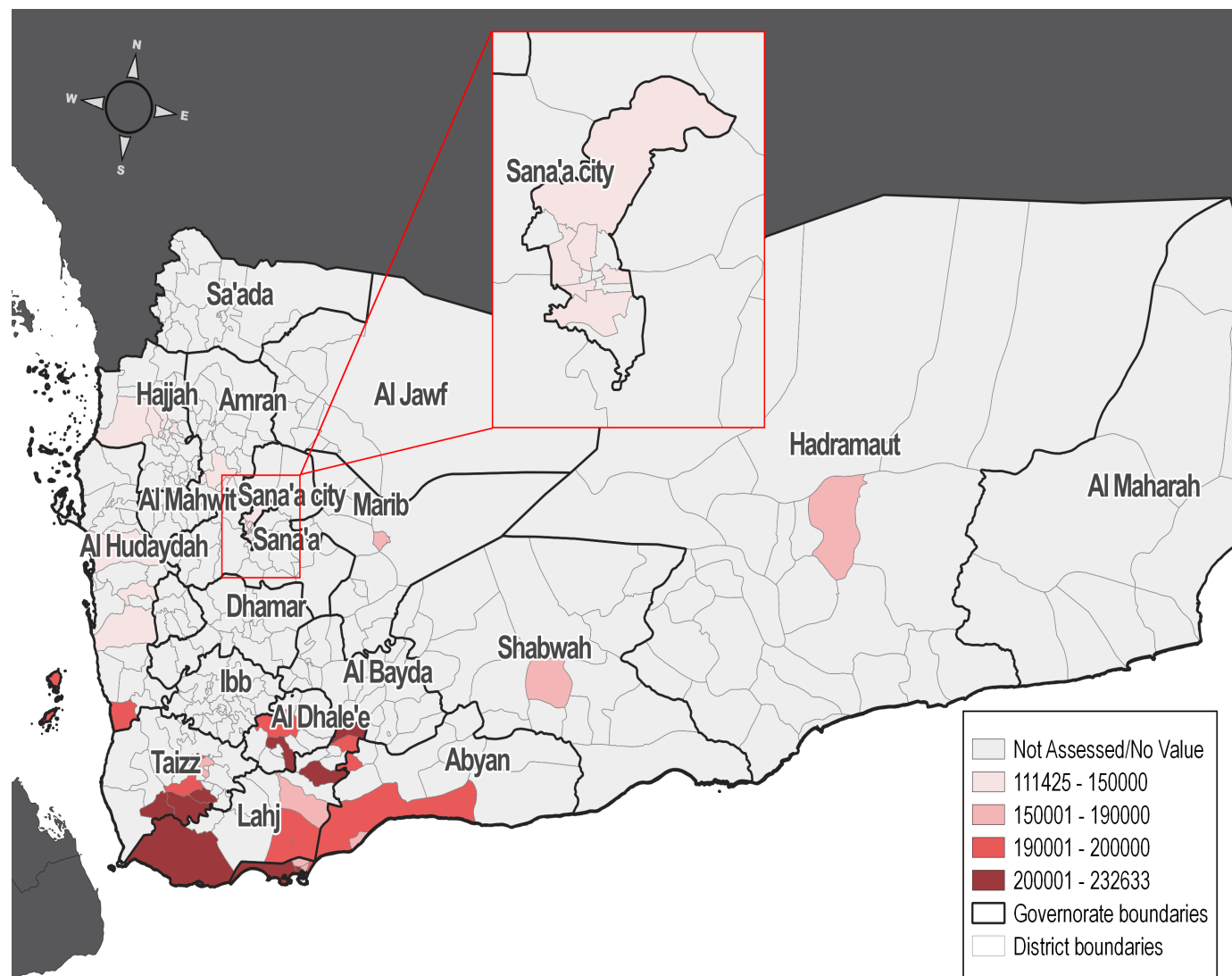
557
USD/YER
Parallel Market (DFA)
July 2022

1170 ▲ 5%
USD/YER
Parallel market (IRG)
August 2022

1118
USD/YER
Parallel Market (IRG)
July 2022

Access the findings of specific districts or governorates, download data and visualizations, and conduct your own analysis via the [Interactive Dashboard](#)

Total SMEB prices (7 - 11 August 2022)*

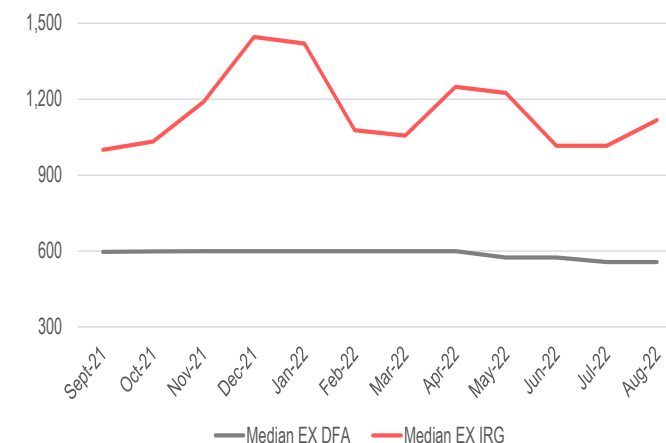


*Per district, the cheapest type of bean (dry or canned) is used to calculate the total SMEB.

Exchange rate (YER/USD)*

Governorate	June 2022	July 2022	August 2022
Abyan	1030	1121	1178
Aden	1040	1125	1160
Al Dhale'e	1023	1110	1152
Al Hudaydah	557 (1020)	557 (1020)	557 (1177)
Amran	556	557	557
Hadramaut	1010	1116	1180
Hajjah	557	557	557
Lahj	1085	1138	1170
Marib	1028	1086	1058
Sana'a	NA	NA	NA
Sana'a City	560	557	559
Shabwah	1033	1120	1100
Taizz	1050	1115	1176

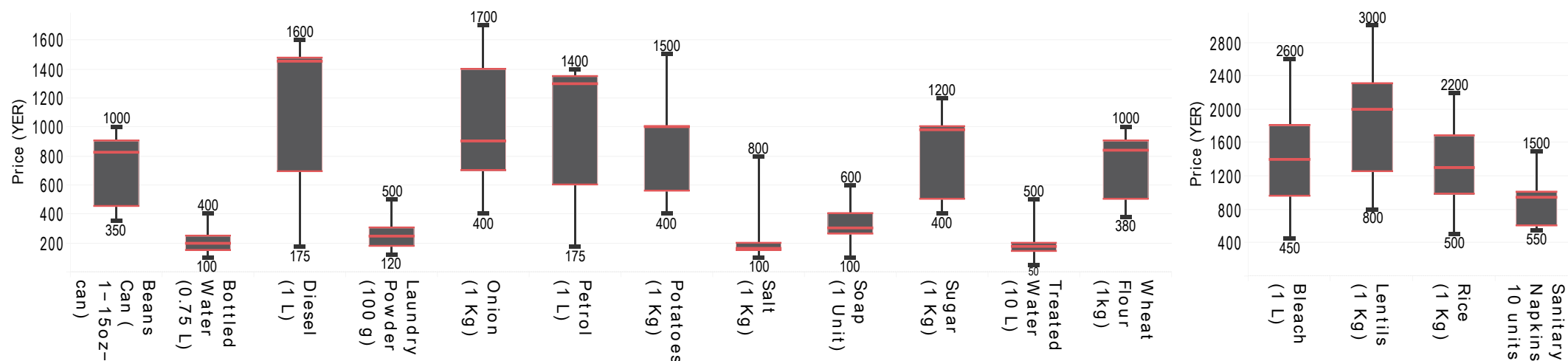
*New banknote exchange rates / Exchange rate for the new currency in parenthesis.
NA (not applicable) data was not available.



Price per key item, per governorate (YER)*

Governorate	Petrol (1L)	Diesel (1L)	Cooking gas (1 cylinder)	Bottled water (0.75L)	Treated water (10L)	Soap (100g)	Laundry powder (100g)	Sanitary napkins (10 units)	Bleach (1L)	Water trucking (1m³)	WASH SMEB	Wheat flour (1kg)	Rice (1kg)	Beans dry (1kg)	Beans cans (15oz)	Lentils (1kg)	Vegetable oil (1L)	Sugar (1kg)	Salt (1kg)	Potatoes (1kg)	Onions (1 kg)	Food SMEB (Dry Beans)	Food SMEB (Canned beans)
Abyan	1350	1525	15000	200	150	300	300	1000	2300	3333	24649	900	1200	2125	800	2250	2800	1000	250	1000	1500	118588	123050
Aden	1320	1450	10638	200	350	325	240	1000	1600	5250	28763	900	1800	2350	875	2000	3050	1000	150	1000	1025	118240	126150
Al Dhale'e	1340	1500	9275	200	200	300	231	930	1150	8732	40987	760	1300	2900	800	2100	2250	980	100	1000	1000	114588	111588
Al Hudaydah	600	850	9000	200	70	200	200	575	1000	2750	17175	600	1100	900	450	1300	1200	500	200	400	500	53675	61150
Amran	600	690	5200	100	300	200	150	600	889	2100	14715	500	1000	825	450	1100	1667	500	150	500	700	60486	68436
Hadramaut	1225	1425	7505	150	2100	461	257	1000	2000	6000	33880	800	1350	2750	775	2500	3125	990	400	1200	900	122125	122525
Hajjah	600	700	7000	150	200	250	150	600	1000	3750	19613	400	800	950	450	925	1400	500	150	500	600	51900	58100
Lahj	1300	1463	15975	225	150	300	280	1050	1938	5000	28600	883	1688	2800	900	2200	3000	1000	179	975	1100	120667	125803
Marib	175	838	4800	225	200	450	275	1000	1650	1250	18088	785	1075	2050	900	2225	2600	1013	650	1250	1150	103131	115031
Sana'a City	600	690	6975	125	125	209	165	600	661	1834	14408	520	800	1275	450	1100	1550	445	120	530	750	59420	62870
Shabwah	1150	1300	7000	200	400	400	500	1300	1000	3100	30465	900	900	NA	900	NA	1350	800	350	1500	1000	NA	105550
Taizz	1350	1475	8000	250	200	350	300	1000	1400	4625	28619	870	1500	2650	900	2150	2800	1025	167	1000	1400	125404	131304

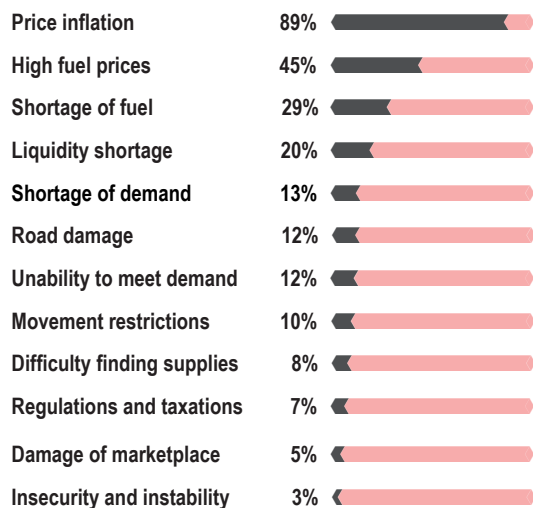
Price distribution of key items across Yemen (YER)



WASH SMEB

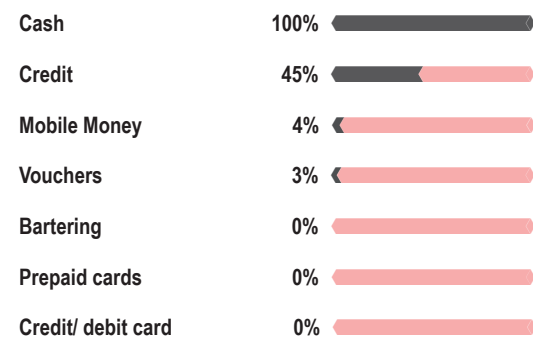
Most commonly reported constraints by WASH vendors (131 KIs)

58% of WASH vendor KIs reportedly face constraints. The constraints listed by the vendors are presented here*.

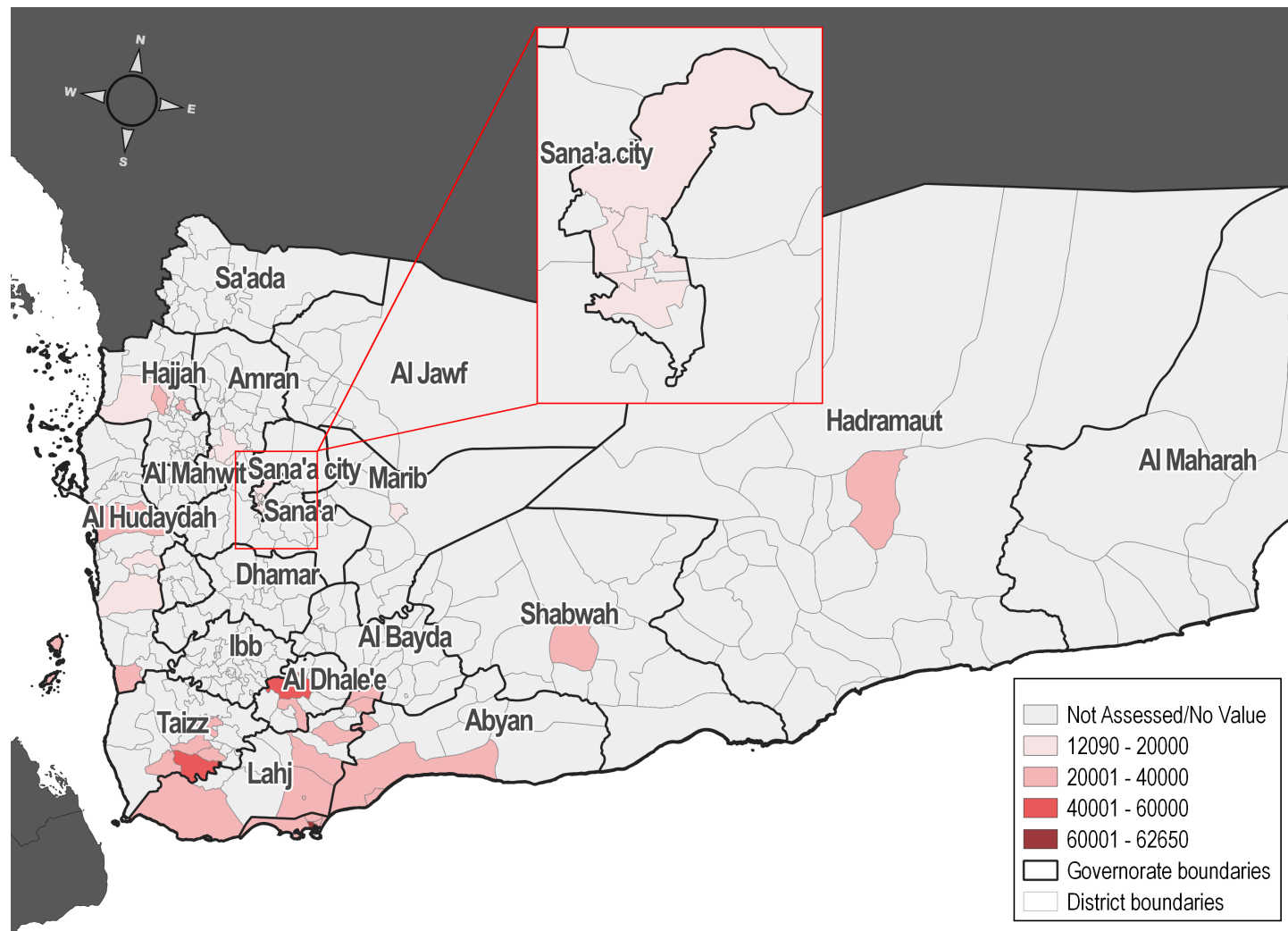


*Values do not add up to 100% as vendor KIs were allowed to select multiple options. Only the top-3 constraints are counted, per vendor. Percentages are always rounded up to zero decimal numbers.

Payment modalities reportedly accepted by WASH vendors* (226 KIs)



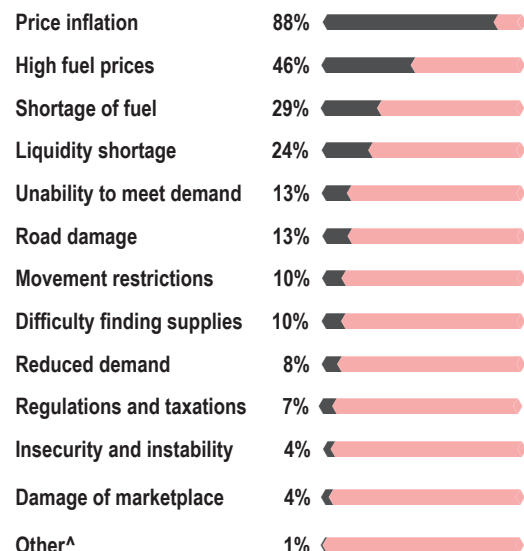
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.



Food SMEB*

Most commonly reported constraints by food vendors (136 KIs)

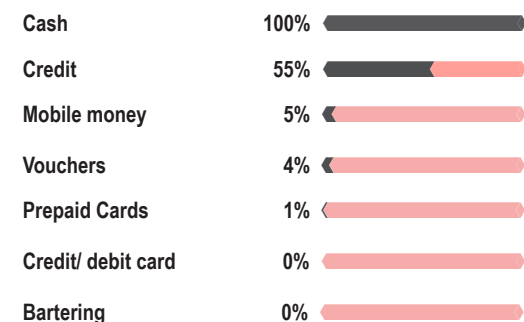
59% of food vendor KIs reportedly face constraints. The constraints listed by the vendors are presented here**.



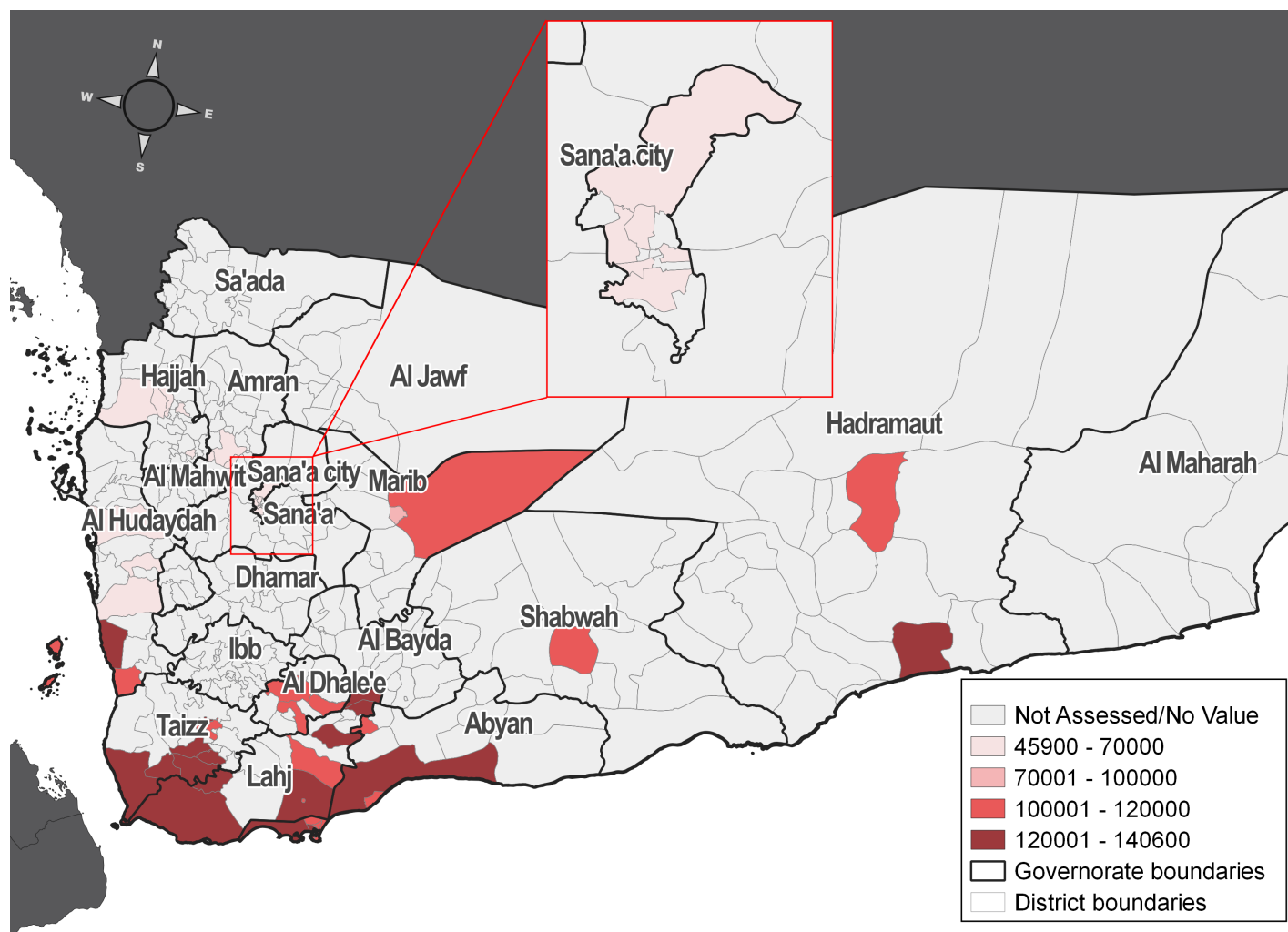
**Values do not add up to 100% as vendor KIs were allowed to select multiple options. Only the top-3 constraints are counted, per vendor.

^Exchancge rate instability.

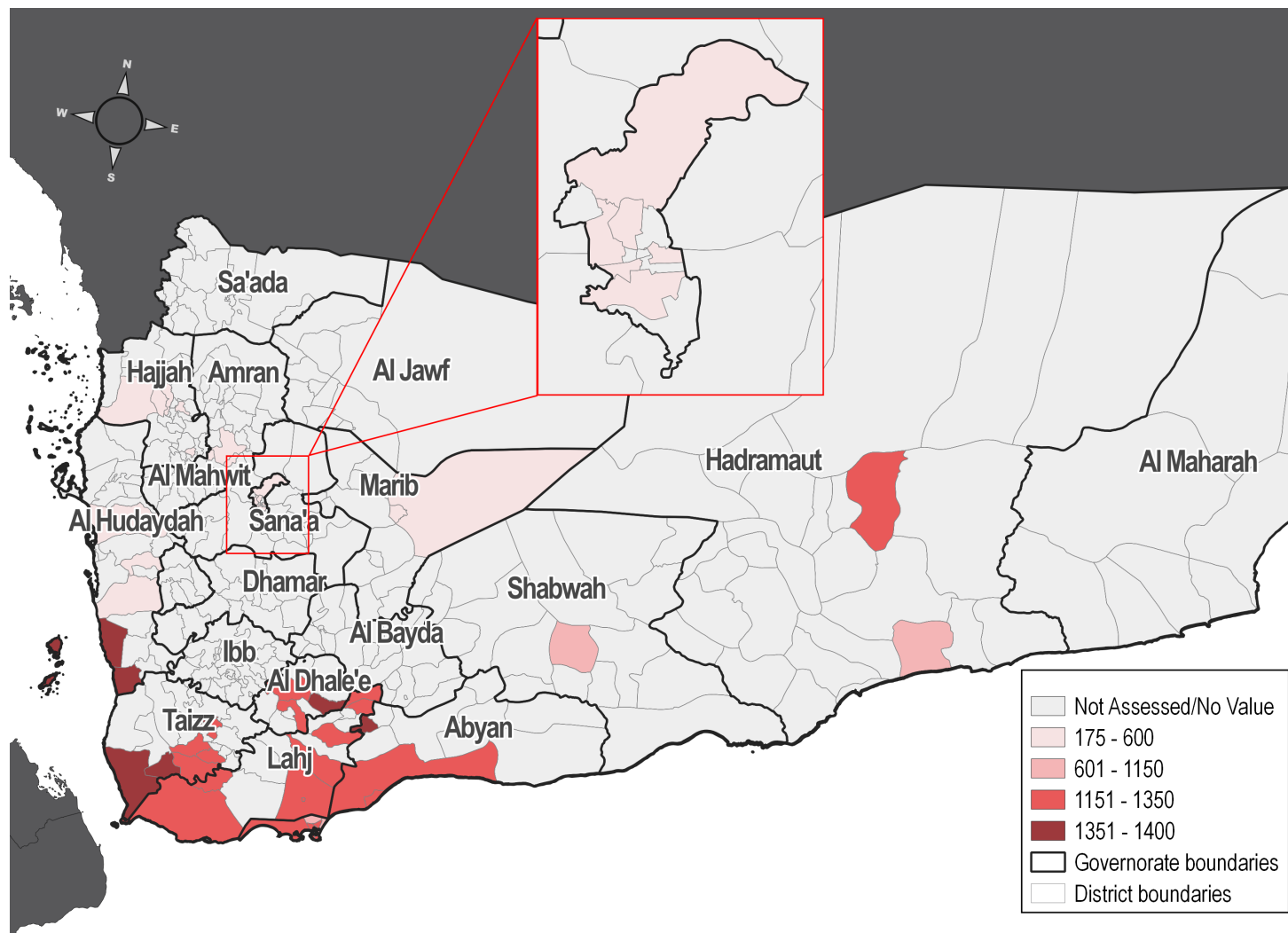
Payment modalities reportedly accepted by food vendors*(229 KIs)



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

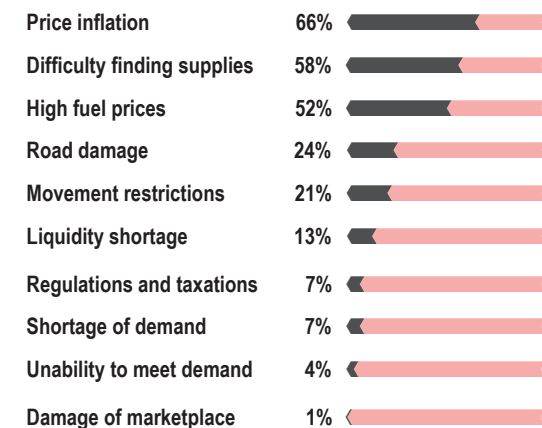


*Per district, the cheapest type of bean (dry or canned) is used to calculate the food SMEB. Refer to the table on page 9-10 for the Food SMEB prices per district, both for canned beans and dry beans.



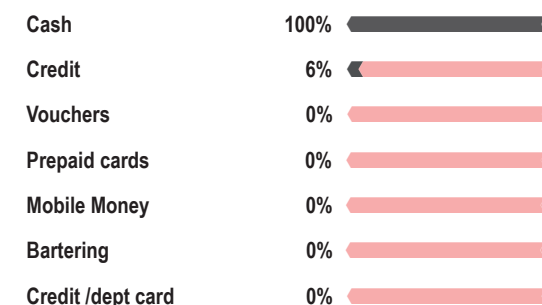
Most commonly reported constraints by fuel vendors (136 KIs)

62% of fuel vendor KIs reportedly face constraints. The constraints listed by the vendors are presented here*.



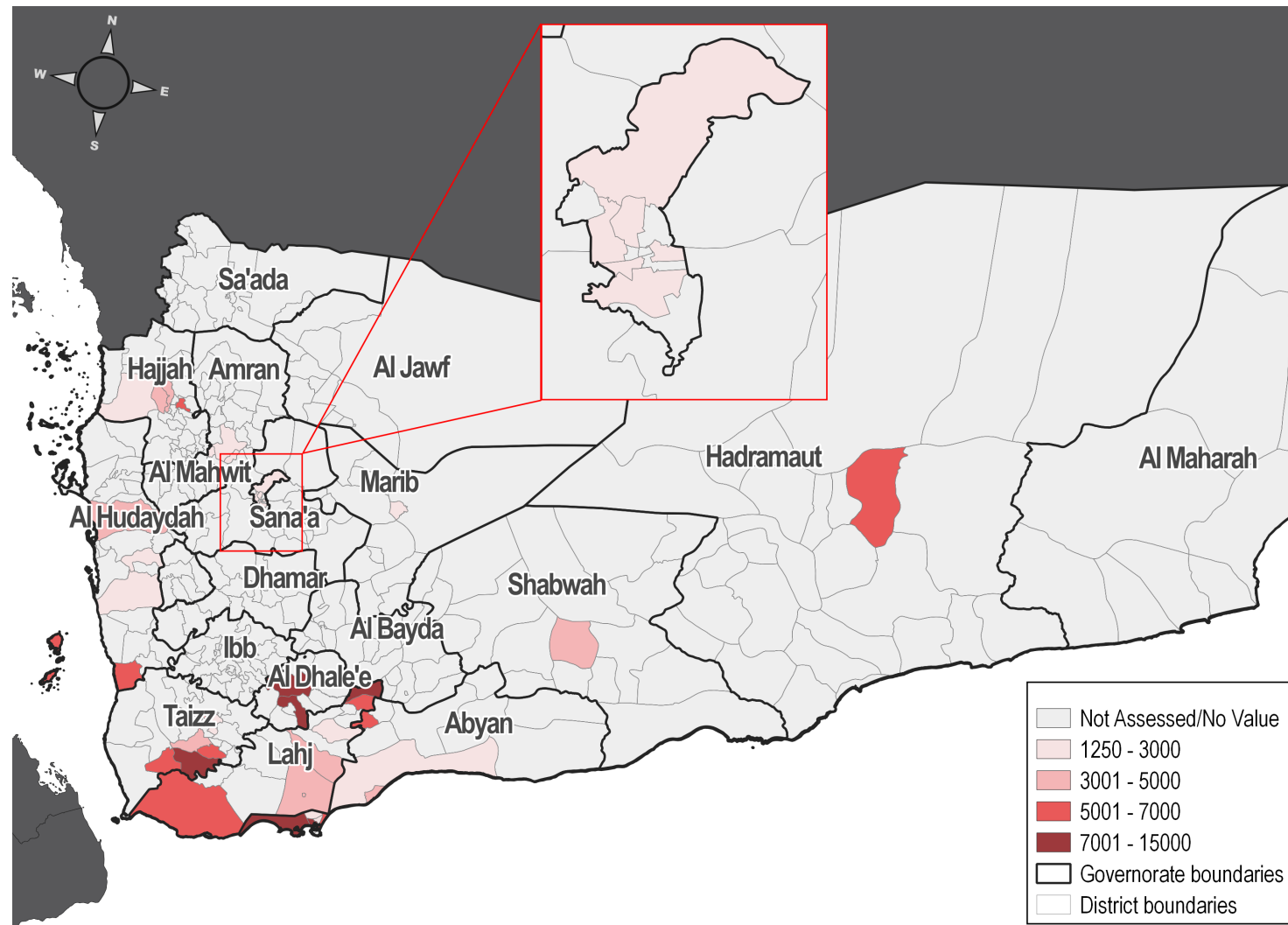
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

Payment modalities reportedly accepted by fuel vendors* (KIs 220)



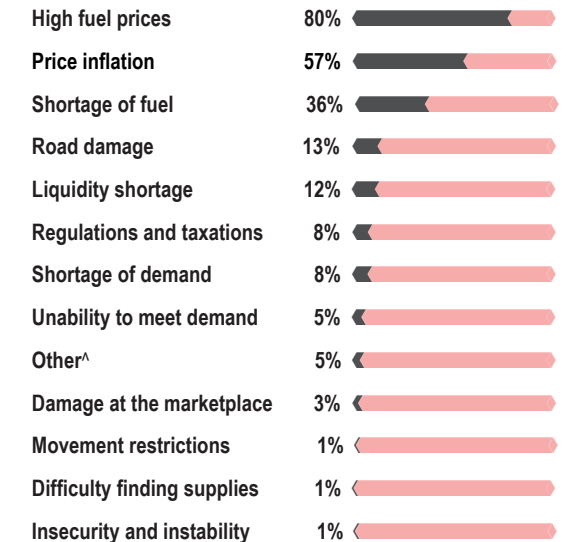
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

Water trucking



Most commonly reported constraints by water truckers (106 KIs)

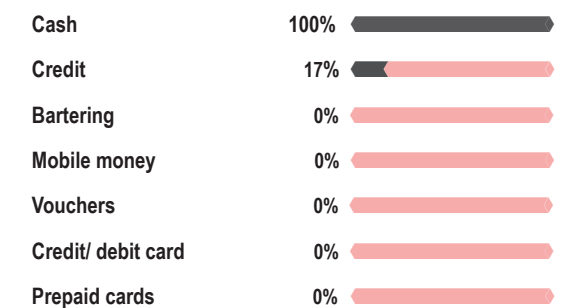
59% of water trucking vendor KIs reportedly face constraints. The constraints listed by the vendors are presented here*.



* Values do not add up to 100% as vendor KIs were allowed to select multiple options. Only the top-3 constraints are counted, per vendor

[^]High price of truck's spare parts, unpaved road and increase in demand.

Payment modalities reportedly accepted by water truckers *(179 KIs)



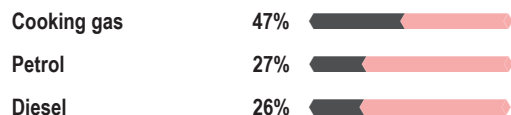
*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

SUPPLY CHAIN OVERVIEW FOR YEMEN

Reported shortages

Fuel vendor KIs

26% of fuel vendor KIs (57/220) reported facing shortages in the 2 weeks prior to data collection, compared to 38% in the previous month. Of the KIs indicating shortages, the following commodities were reported*:



Food vendor KIs

13% of food vendor KIs of food vendor KIs (29/229) reported facing shortages in the 2 weeks prior to data collection, compared to 10% in the previous month. Of the KIs indicating shortages, the most commonly reported commodities were*:



WASH vendor KIs

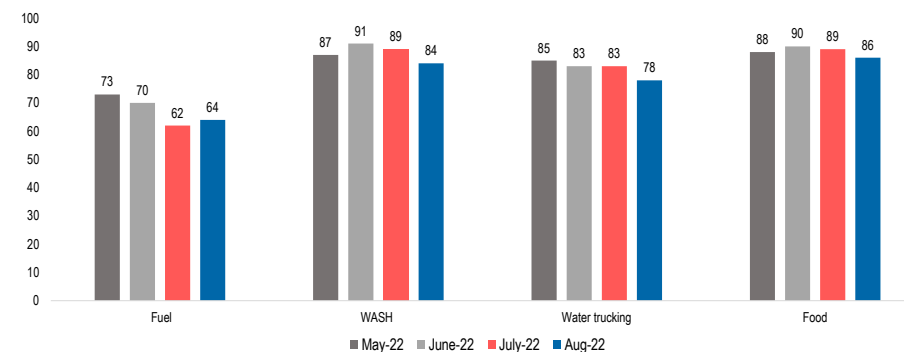
6% of WASH vendor KIs (13/226) reported facing shortages in the 2 weeks prior to data collection, compared to 4% in the previous month. Of the KIs indicating shortages, the most commonly reported commodities were*:



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

Number of vendors reportedly able to absorb a 50% increase in demand

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%. The proportion of fuel, food and WASH vendors able to respond to an increase in demand increased compared to March. The reported ability of water truckers to respond to demand has been on decline since the last 4 months.



Average reported restocking time (days)

Vendors were asked about the time required to replenish their stock, at the time of data collection. The average restocking time per governorate, per commodity type, is presented in the table. The previous average restocking time (July 2022) is given in brackets. Darker colour strokes indicate high restocking times. In August, reported restocking time for all monitored items in Al Hudaydah was one week or more.

Governorate	Fuel Items	WASH Items	Food Items
Abyan	5 (5)	2 (5)	2 (3)
Aden	7 (4)	4 (3)	4 (3)
Al Dhale'e	7 (8)	6 (8)	6 (8)
Al Hudaydah	8 (10)	10 (9)	8 (8)
Amran	7 (8)	1 (1)	1 (2)
Hadramaut	5 (7)	5 (3)	5 (6)
Hajjah	7 (7)	4 (4)	4 (4)
Lahj	6 (7)	5 (5)	5 (5)
Marib	2 (3)	4 (5)	4 (3)
Sana'a City	2 (1)	1 (1)	1 (1)
Shabwah	2 (6)	2 (2)	1 (2)
Taizz	5 (8)	5 (7)	4 (6)

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	Al Hudaydah (price in YER)	Aden (price in YER)
Petrol (1L)	600	1350
Diesel (1L)	690	1475
Cooking Gas (1 cylinder)	7000	14500
Bottled water (0.75L)	150	250
Treated water (10L)	70	200
Bleach (1L)	550	1400
Soap (100g)	150	350
Laundry Powder (100g)	170	300
Sanitary Napkins (10 units)	550	1000
Water trucking (1m ³)	2000	3750
Wheat Flour (1kg)	450	925
Rice (1kg)	1100	1600
Beans Dry (1kg)	900	2800
Beans Can (15oz can)	450	900
Lentils (1kg)	1300	2200
Vegetable Oil (1L)	1200	2900
Sugar (1kg)	450	1000
Salt (1kg)	200	150
Potatoes (1kg)	400	1000
Onions (1kg)	500	1400

DISTRICTS COVERED*

Governorate	District	WASH SMEB	SMEB Food (dry beans)	SMEB Food (canned beans)	SMEB Total (canned/ dry)*	Petrol 1 L	Diesel 1 L	Cooking gas 1 cylinder	Water Trucking 1 m3	Exchange Rate (YER/1 USD)	Number of observations
Hajjah	Abs	14925	45900	57600	111425	600	690		2000	558	3
Al Dhale'e	Ad Dhale'e	38172	119900	118700	202072	1340	1500	9275	7750	1152	18
Lahj	Al Hawtah	28600	117821	122221	190421	1300	1475	16000	5000	1170	6
Aden	Al Buraiqeh	37775	125700	129500	207475	1300	NA	6500	7500	1150	5
Lahj	Al Had	39499	124667	130867	208166	1300	1450	16000	8333	1170	3
Al Hudaydah	Al Hawkhah	36250	NA	112350	192600	1400	1450	8500	7000	1168	3
Taizz	Al Ma'afer	29950	124760	132160	198710	1350	1500	8000	5000	1167	9
Lahj	Al Madaribah Wa Al Arah	37650	NA	140600	222250	1350	1500	17000	6000	1118	3
Aden	Al Mansura	62650	125983	131983	232633	1300	1450	16000	15000	1170	3
Lahj	Al Maqatirah	NA	NA	122050	NA	1350	1500	8000	NA	1170	3
Taizz	Al Mawasit	31840	127533	132933	203373	1350	1475	10000	5600	1119	3
Lahj	Al Milah	27750	116225	117925	187975	1300	1450	15000	4000	1178	4
Aden	Al Mualla	25825	119330	122630	189155	1340	NA	9275	4500	1153	3
Taizz	Al Mudhaffar	27223	118400	122200	189623	1400	1450	7500	3666	1175	7
Taizz	Al Qahirah	27200	130150	134350	201350	1350	1450	7500	3500	1176	5
Sana'a City	Al Wahdah	15514	67750	68130	133864	600	690	7950	2000	557	3
Taizz	Al Wazi'iyah	37250	NA	126317	207567	1400	1400	21000	7000	1168	3
Amran	Amran	14400	60736	68436	125736	600	690	5200	2000	557	3
Sana'a City	As Sabain	15640	68790	68670	135030	600	690	7950	2000	558	3
Al Hudaydah	As Sukhnah	14225	53675	60875	118500	600	690	9000	2000	558	3
Aden	Ash Shaikh Outhman	22600	108350	125750	174950	1300	1450	6000	3000	1180	7
Taizz	Ash Shamayatayn	42525	125404	131304	211929	1350	1475	8000	9000	1178	6
Hadramaut	Ash Shihri	NA	140000	138800	NA	1150	1450	6000	NA	NA	3
Al Dhale'e	Ash Shu'ayb	NA	NA	111588	NA	1375	1500	7000	NA	1116	3
Hajjah	Aslem	21225	59150	66350	130975	600	750	7000	4000	557	5
Al Hudaydah	At Tuhayat	NA	NA	137425	NA	1400	1500	24000	NA	1185	4
Shabwah	Ataq	30465	NA	105550	180015	1150	1300	7000	3100	1100	3
Sana'a City	Ath'thaorah	13301	54600	60800	118501	600	690	6000	1667	560	3
Aden	Attawahi	NA	117150	126550	NA	1340	NA	14000	NA	1160	3
Sana'a City	Az'zal	12090	55500	61700	118190	600	690	6000	1600	560	3
Al Hudaydah	Bajil	20125	54550	61150	125275	600	850	6500	3500	557	3
Sana'a City	Bani Al Harith	12826	50775	58975	114201	600	690	6000	1667	560	3
Al Hudaydah	Bayt Al Faqiah	13425	53675	60875	117700	600	690	9000	2000	557	3
Aden	Craitir	NA	113450	119250	NA	1340	NA	9275	NA	1160	3
Aden	Dar Sad	23425	115075	121675	182500	1140	1475	12000	3000	1168	6
Taizz	Dhubab	NA	NA	120625	NA	1400	1450	18000	NA	1189	4
Lahj	Habil Jabr	24000	NA	134600	202600	1350	1500	15000	2000	1120	3
Hajjah	Hajjah City	NA	NA	57200	NA	600	690	NA	NA	558	3
Amran	Jabal Iyal Yazid	15030	60236	68436	125866	600	690	5200	2200	557	3
Abyan	Khanfir	22970	127425	132825	194395	1350	1525	11042	2800	1160	8
Hajjah	Khayran Al Muharraq	18000	51900	58100	120500	600	700	8000	3500	556	3
Aden	Khur Maksar	31700	119550	128950	195250	19800	NA	14000	6000	1153	3
Hajjah	Kuhlan Ash Sharaf	29025	51900	58100	131525	600	700	6000	7000	556	3

CONT.

Governorate	District	WASH SMEB	SMEB Food (dry beans)	SMEB Food (canned beans)	SMEB Total (canned/ dry)*	Petrol 1 L	Diesel 1 L	Cooking gas 1 cylinder	Water Trucking 1 m3	Exchange Rate (YER/1 USD)	Number of observations
Sana'a City	Maain	15614	63340	64040	129554	600	690	7950	2000	558	3
Marib	Marib	NA	113950	118350	NA	175	1500	4600	NA	1125	3
Marib	Marib City	18088	92312	111712	154400	175	175	5000	1250	1190	12
Al Dhale'e	Qaatabah	43801	109275	107519	197076	1325	1450	24000	9715	1180	3
Abyan	Rasad	36401	NA	114367	194768	1400	1600	15000	6667	1180	3
Taizz	Sabir Al Mawadim	20895	111400	115200	176295	1350	1475	8000	2300	1182	3
Taizz	Salh	27288	127100	131400	198388	1400	1500	7500	4250	1178	6
Hadramaut	Tarim	33880	104250	106250	182130	1300	1400	9010	6000	1180	3
Lahj	Tuban	24305	122138	126538	190443	1300	1425	15950	3700	1171	6
Lahj	Yafaa	34251	120667	125067	198918	1300	1450	16000	6667	1170	3
Abyan	Zingibar	24649	109750	123050	178399	1325	1500	19213	3333	1178	3

*The cheapest type of bean (dry or canned) is used to calculate the total SMEB. Includes lumpsum

APPENDIX

What is the cash and markets working group (CMWG)?

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. Participating organisations are trained on the JMMI methodology and data collection tools using standard training materials developed by REACH. Each month, enumerators conduct KI interviews with market vendors. Due to the different nature of the monitored items, not every vendor provided price quotations for all monitored items. 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. For triangulation purposes, REACH requires a minimum of three price quotations for each item, per district. District medians are aggregated using data from the key informants within that district. Governorate, IRG, DFA and national level data (including SMEBs) are aggregated from the district medians of the respective districts assessed in a given month. REACH started reporting on IRG and DFA levels from March 2022, to better uncover economic trends in the areas under nominal control of different parties to the conflict.

Previously, all aggregations drew on the key informant level data. This change in calculation methodology will result in different findings than previous Situation Overviews. It is recommended to refer to the [Interactive Dashboard](#) for longitudinal trends and historic data, as past data is harmonized here with the

methodological improvements. Percentage changes of prices are calculated by comparing the two medians of the relevant timeserie and aggregation level while the districts assessed may differ between the timeseries, see also 'limitations'.

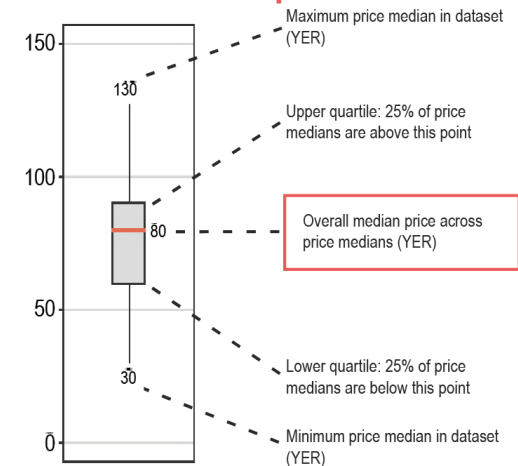
REACH also calculates the WASH SMEB (Survival Minimum Expenditure Basket), which is composed of four items: soap (1.05 kg), laundry powder (2 kg), sanitary napkins (50 units) and water trucking (3.15 m3). Food SMEB contains 75 kg of wheat flour, 10 kg of beans (kidney), 8L of vegetable oil, 2.5 kg of sugar, and 1 kg iodized salt. As per October 2021, the cheapest type of bean (dry or canned) is used per district to calculate total/food SMEB. SMEB values calculated exclusively with dried beans, or canned beans, can be found on the [Interactive Dashboard](#) and on page 9 -10 of this Situation Overview.

The cleaned data sets are available on the [REACH Resource Centre](#)

Limitations

Due to issues of access, security and partner capacity, the districts included in the JMMI vary on a monthly basis. As such, findings are indicative for the locations assessed and not geographically representable for the whole of Yemen. Consequentially, there are sometimes a limited number of districts for which trends can be assessed over time. Moreover, part of the reported monthly price percentage variation may be attributed to changes in monthly coverage. 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.

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 nissa.berntsen@reach-initiative.org or follow us on Twitter at [@REACH_info](https://twitter.com/REACH_info).

Participating partners include:



Number of districts assessed per governorate

Governorate	Assessed districts
Abyan	3
Aden	8
Al Dhale'e	3
Al Hudaydah	5
Amran	2
Hadramaut	2
Hajjah	5
Lahj	8
Marib	2
Sana'a City	6
Shabwah	1
Taizz	9

