



## 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 quotations 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 **18-29 July 2019**

**9** Participating partners

**31** Districts assessed

**178** Vendor KIs surveyed

## KEY FINDINGS

In July 2019, the trend of depreciation of the Yemeni Riyal (YER) against the US Dollar (USD) continued, with the YER losing 2.1% on the parallel market.

**250**  
**USD/YER**  
Official  
► **0.0%**

**573**  
**USD/YER**  
Parallel market\*  
▲ **2.3%**

**560**  
**USD/YER**  
Previous Parallel Market  
Rate June 2019

## KEY PRICE FIGURES

Prices for all goods, except fuel, decreased between June 2019 and July 2019. The price of water trucking saw the largest decrease, which also had an impact on the SMEB. Diesel was the only item to increase in price, while petrol stayed at 365 YER; the same price it has been since March 2019.

Petrol Price (1L)	<b>365 YER</b>	►	<b>0.0%</b>
Diesel Price (1L)	<b>410 YER</b>	▲	<b>+2.5%</b>
Bottled Water Price (0.75L)	<b>128 YER</b>	▼	<b>-1.5%</b>
Treated Water Price (10L)	<b>120 YER</b>	▼	<b>-7.7%</b>
Water Trucking Price (1m³)	<b>1,358 YER</b>	▼	<b>-9.5%</b>
Soap (100g)	<b>129 YER</b>	▼	<b>-4.4%</b>
Sanitary Napkins (10 Pack)	<b>500 YER</b>	▼	<b>-5.3%</b>
Laundry Powder (100 g)	<b>110 YER</b>	▼	<b>-8.3%</b>

## WASH SMEB

The median cost for the WASH SMEB was calculated to be 8,830 YER, marking a decrease of 9.5% from the cost observed in June 2019.

**July 8,830 YER / June 9,599 YER ▼ 769 YER -9.5%**

\*143 of the 181 respondents answered the exchange rate question within the parallel market.

## ASSESSED DISTRICTS



## WASH SMEB

Soap	1.05 kg
Laundry powder	2 kg
Sanitary napkins	20 units
Water trucking	3.15 m³

## OTHER ASSESSED ITEMS

Petrol	1 liter
Diesel	1 liter
Treated water	10 liter
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.

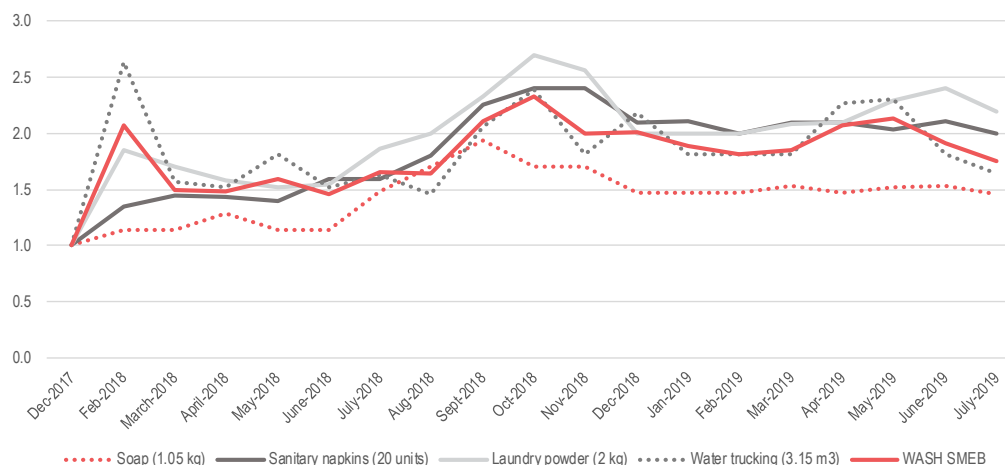
The cost of the WASH SMEB can be used as a proxy for the financial burdens, relative to WASH items, a household is facing in different locations. The WASH SMEB components were defined by the CMWG in consultation with relevant sector leads.

## MEDIAN COST OF WASH SMEB IN JULY

**8,830 YER**

## WASH SMEB PRICE INDEX

Since September 2017 (normalized, September 2017 = 1.00)



Change since  
January 2019 **681 YER**  
-7.2%

Change since  
June 2019 **769 YER**  
-9.5%

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

Governorate	Soap (10.5 kg)	Laundry powder (2 kg)	Sanitary napkins (20 units)	Water trucking (3.15 m³)	WASH SMEB July-19	Change since Jan-19	Change since June-19
Aden	1,260	1,500	1,000	10,238	13,998	-14.2%	5.8%
Al Bayda	1,050	3,000	1,100	4,095	9,245	N/A*	-9.3%
Al Hudaydah	1,260	2,400	900	9,608	14,168	51.3%	39.8%
Amanat Al Asimah	1,575	2,000	960	5,670	10,205	30.4%	12.4%
Hajjah	1,418	2,160	1,000	7,875	12,452	19.2%	-13.7 %
Ibb	1,575	2,000	920	4,462	8,957	-24.3%	4.3%
Lahj	1,575	2,500	1,000	3,150	8,225	64.9%	-8.7%
Sa'ada	1,313	3,000	1,100	3,938	9,350	16.2%	1.9%
Sana'a	1,208	2,600	1,100	4,095	9,003	-1.4%	-8.6%
Shabwah	1,470	2,110	1,000	3,938	8,518	-28.0%	-19.7%
Socotra	1,365	2,800	1,360	2,520	8,045	-1.7%	-4.8%
Taizz	1,286	2,200	1,050	7,088	11,624	-15.9%	11.8%

\* Enumerators were not able to collect prices for Al Bayda in January 2019.

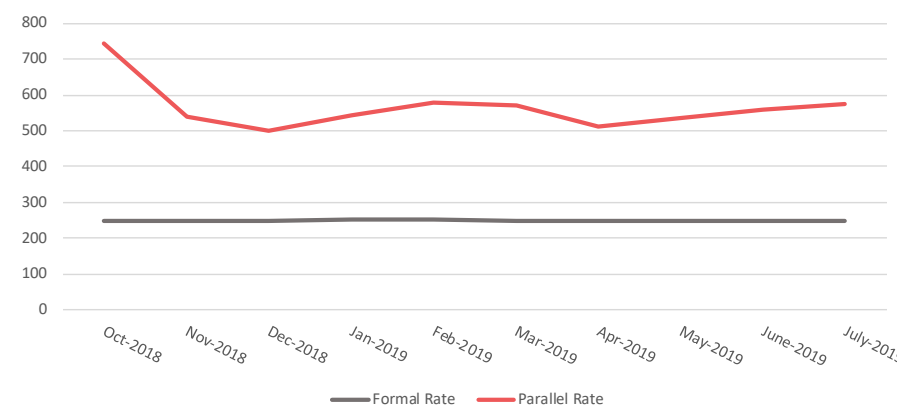
## RATE OF VENDORS ACCEPTING CREDIT AS PAYMENT, BY TYPE

Vendor Source	April 2019	May 2019	June 2019	July 2019
Fuel	1.3%	4.2%	7.4%	9.0%
WASH	5.1%	7.8%	13.2%	15.7%
Water Trucking	2.3%	5.8%	7.9%	14.0%

## MEDIAN EXCHANGE RATE, BY GOVERNORATE

Governorate	April 2019	May 2019	June 2019	July 2019
Aden	510	540	564	583
Al Bayda	510	510	590	550
Al Hudaydah	510	538	555	578
Amanat Al Asimah	525	543	561	575
Hajjah	505	530	550	568
Ibb	NA	535	555	571
Lahj	511	543	563	580
Sa'ada	515	535	560	550
Sana'a	523	540	550	550
Shabwah	510	530	558	582
Socotra	500	530	565	580
Taizz	513	537	558	572

## EXCHANGE RATE INDEX



# WASH SMEB Supply Chain Overview

**Supply destination**

- Districts without a main supplier
- Districts with a main supplier
- One district supplied
- Two or more districts supplied

The map illustrates the supply chain for WASH SMEB in Yemen. Districts with a main supplier are highlighted in blue, including Sa'ada, Hajjah, Amran, Sana'a, Marib, Dhamar, Raymah, Al Hudaydah, Taizz, Lahj, Aden, and Socotra. Districts without a main supplier are shown in light gray. Arrows indicate the supply destination, with arrow thickness representing the number of districts supplied. For example, a thick arrow points from Sana'a to Taizz, indicating that two or more districts are supplied. A red box highlights the area around Sana'a, and a red line connects it to an inset map of Amanat Al Asimah. Another inset map shows Socotra, with an arrow pointing to it from the main map.

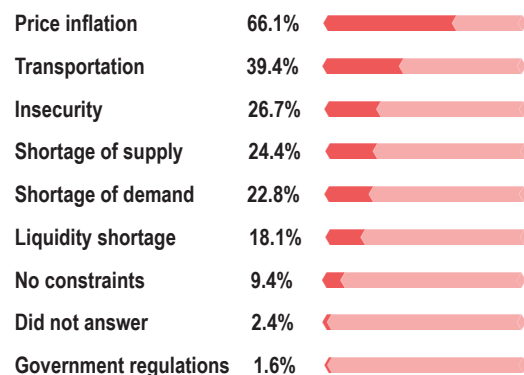
*\*The map shows WASH SMEB supply chain inside the same governorate and towards other governorates. District without a main supplier are those district where vendor KIs could not identify the origin of the WASH items they sold.*

## GOVERNORATE SUPPLY CHAIN ACCORDING TO WASH VENDOR KIS

Governorate	District	Supplier Governorate	Number Respondents of Total Interviewed*
Aden	Al Buraiqeh	Aden	4/10
Aden	Khur Maksar	Aden	3/10
Al Bayda	Rada'	Al Hudaydah	5/5
Al Hudaydah	Al Khawkhah	Aden	3/3
Al Hudaydah	Al Marawi'ah	Sana'a	3/3
Al Hudaydah	Al Qanawis	Al Hudaydah	3/3
Al Hudaydah	Alluheyah	Al Hudaydah	3/3
Al Hudaydah	Zabid	Do Not Know	10/10
Amanat Al Asimah	Ath'thaorah	Amanat Al Asimah	3/3
Hajjah	Al Mahabishah	Hajjah	3/3
Hajjah	Bani Qa'is	Al Hudaydah	2/5
Hajjah	Najrah	Al Hudaydah	2/5
Hajjah	Qafil Shamer	Hajjah	3/3
Ibb	Al Makhadir	Ibb	6/15
Lahj	Al Milah	Aden	1/3
Lahj	Tuban	Aden	4/10
Sa'ada	Saqayn	Al Hudaydah	4/4
Sana'a	Bani Matar	Al Hudaydah	3/3
Sana'a	Khwlān	Sana'a	3/3
Sana'a	Sanhan	Al Hudaydah	4/4
Shabwah	Ataq	Shabwah	3/3
Shabwah	Habban	Shabwah	3/3
Socotra	Hidaybu	Hadramaut	3/3
Taizz	Al Ma'afer	Aden / Taizz	2/7
Taizz	Al Mawasit	Aden	3/7
Taizz	Al Mukha	Aden	3/3
Taizz	As Silw	Taizz	3/3
Taizz	Ash Shamayatayn	Aden	3/3
Taizz	At Ta'iziyah	Taizz	15/15
Taizz	Dimnat Khadir	Taizz	10/10
Taizz	Jabal Habashy	Taizz	9/13

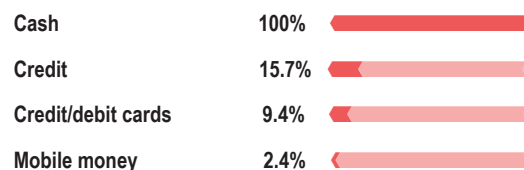
*\*If the number is 4/10, indicates 10 people were interviewed, of those, 4 answered the supply question*

## MOST REPORTED CONSTRAINTS FOR: WASH VENDORS\*



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

## PAYMENT MODALITIES ACCEPTED: WASH VENDORS\*



\* Payment modalities can add up to more than 100%

## CONSTRAINTS AND CHALLENGES

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

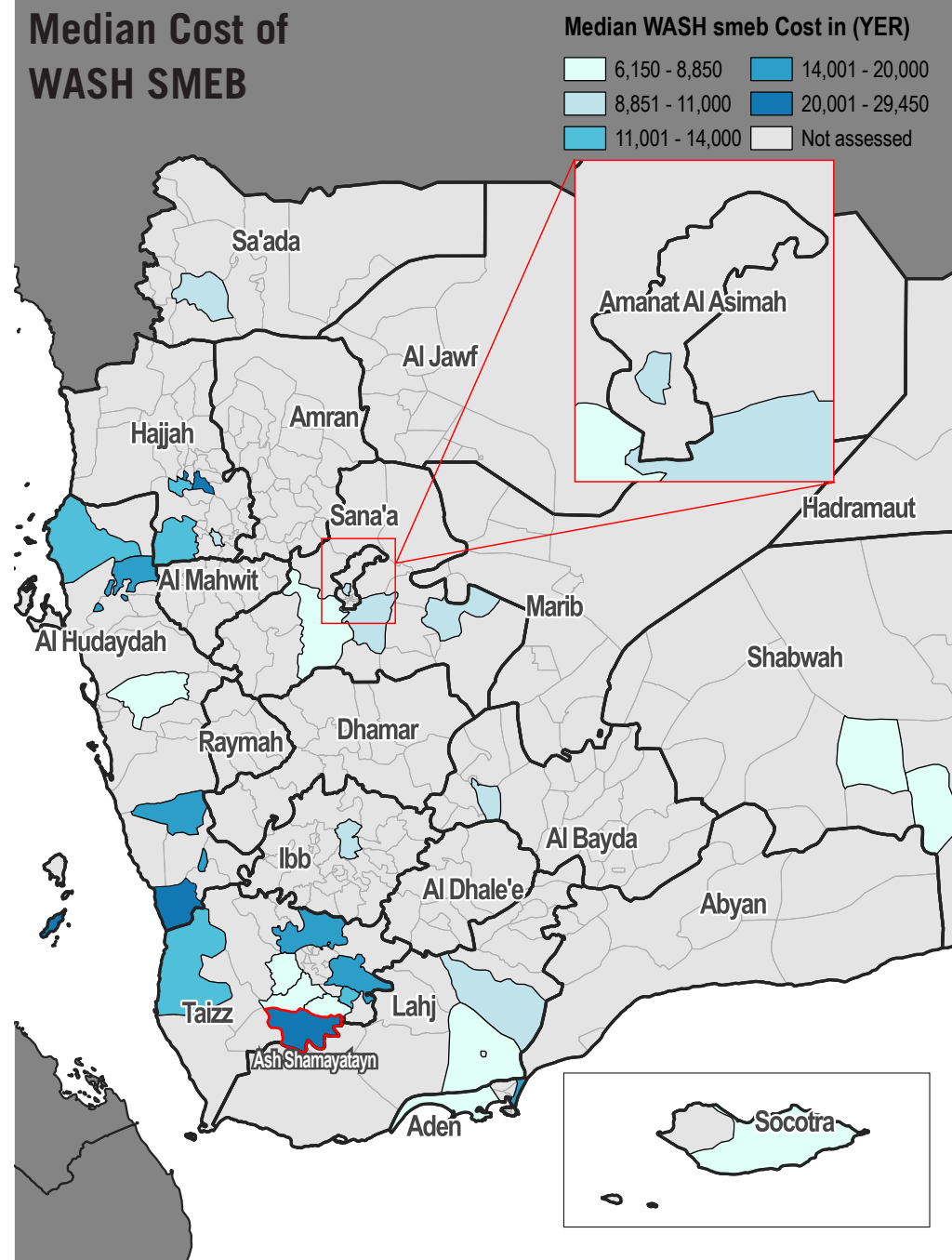
WASH vendor KIs additionally stated that fuel prices and the lack of fuel stations have an impact on their ability to provide WASH materials.

## MEDIAN WASH SMEB COST BY DISTRICT (YER)

Governorate	District	SMEB Cost
Aden	Al Buraiqeh	8485
Aden	Khur Maksar	19510
Al Bayda	Rada'	9245
Al Hudaydah	Al Khawkhah	20210
Al Hudaydah	Al Marawi'ah	8310
Al Hudaydah	Al Qanawis	14025
Al Hudaydah	Alluheyah	13820
Al Hudaydah	Zabid	14475
Amanat Al Asimah	Ath'thaorah	10205
Hajjah	Al Mahabishah	24508
Hajjah	Bani Qa'is	11465
Hajjah	Najrah	9795
Hajjah	Qaf Shamer	13845
Ibb	Al Makhadir	8957
Lahj	Al Milah	10300
Lahj	Tuban	6150
Sa'ada	Saqayn	9350
Sana'a	Bani Matar	8845
Sana'a	Khwlal	10960
Sana'a	Sanhan	9403
Shabwah	Ataq	8805
Shabwah	Habban	8230
Socotra	Hidaybu	8045
Taizz	Al Ma'afer	8768
Taizz	Al Mawasit	7218
Taizz	Al Mukha	11548
Taizz	As Silw	12363
Taizz	Ash Shamayatayn*	29450
Taizz	At Ta'iziyah	15052
Taizz	Dimnat Khadir	15306
Taizz	Jabal Habashy	6521

\*Outliers indicated in red

## Median Cost of WASH SMEB



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)\*

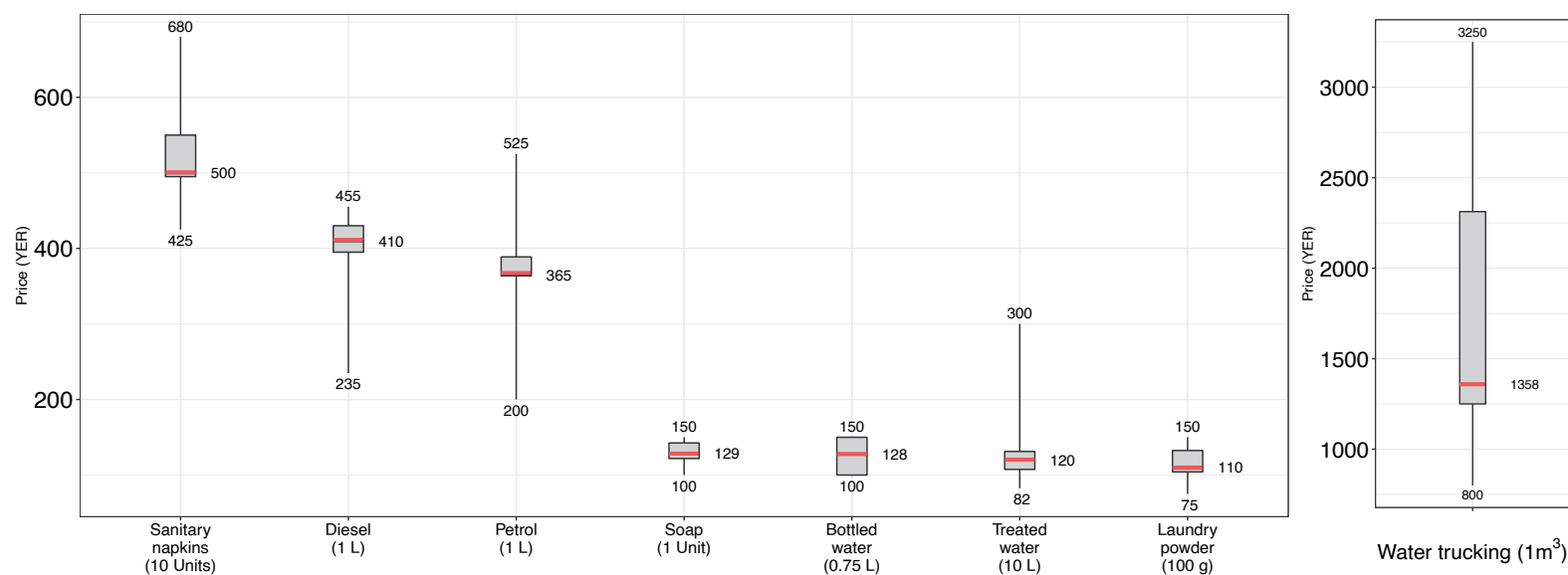
Item	September 2017 (baseline) <sup>^</sup>	November 2017 <sup>^</sup>	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	% Change (June-July)
Diesel	235	394	410	375	430	430	409	400	410	2.5%
Petrol	275	349	410	325	365	365	365	365	365	0.0%
Treated water	NA ↗	175 ↗	120	100	114	105	115	130	120	-7.7%
Bottled water	70	100	120	110	120	120	115	130	128	-1.5%
Soap	88	NA	130	130	135	130	134	135	129	-4.4%
Sanitary napkins	250	NA	528	500	525	525	510	528	500	-5.3%
Laundry powder	50	NA	100	100	105	105	115	120	110	-8.3%
Water trucking	825	1,700	1,650	1,500	1,500	1,875	1,900	1,500	1,358	-9.5%

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

<sup>^</sup> 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 2017 and November 2017 were for 20L, while the JMMI collects prices for 10L.

## PRICE DISTRIBUTION OF KEY ITEMS ACROSS YEMEN



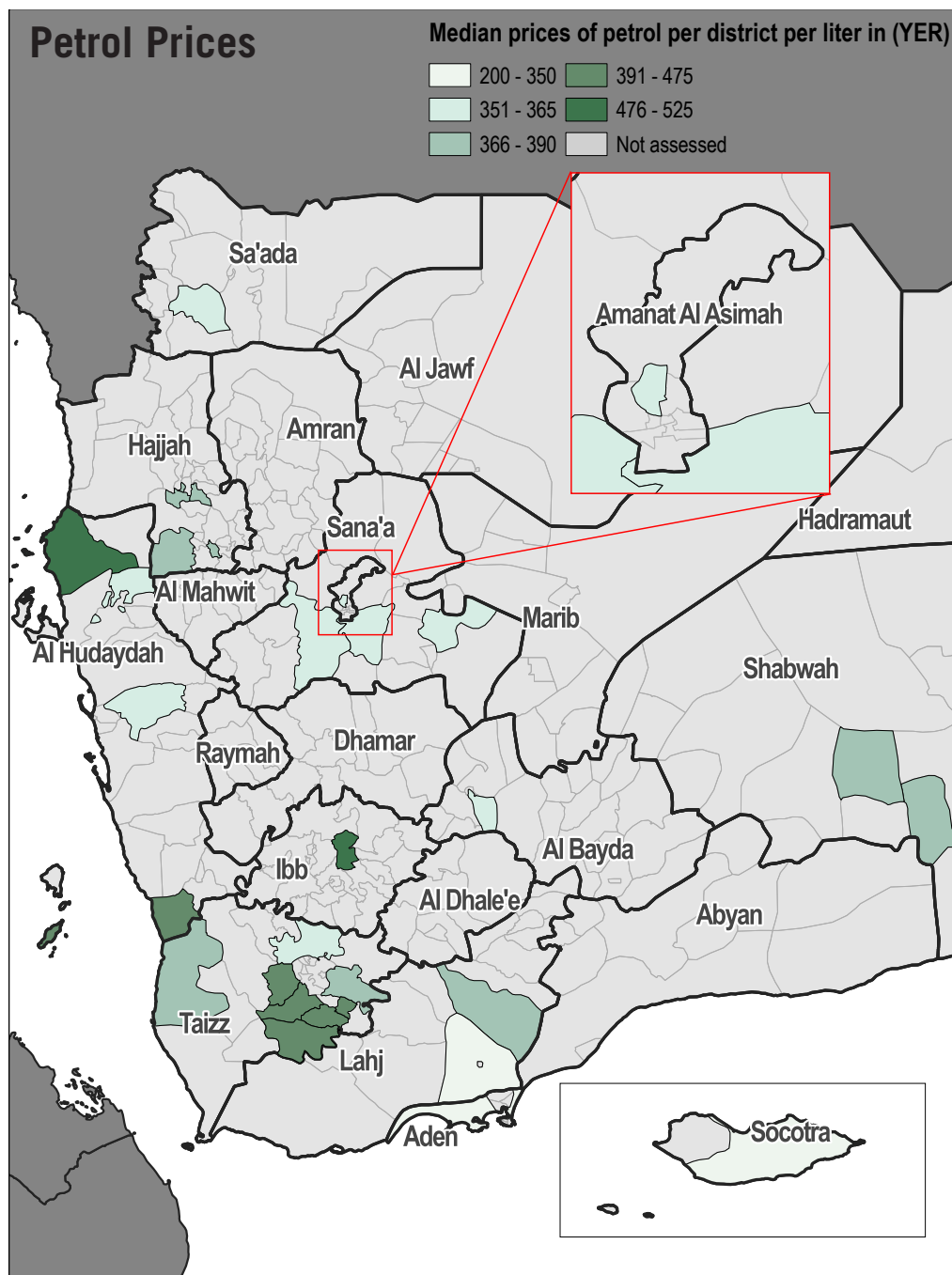
## JULY 2019 MEDIAN PRICE PER GOVERNORATE (YER)

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	350	NA*	150	83	120	75	500	3250
Al Bayda	365	410	100	120	100	150	550	1300
Al Hudaydah	383	430	150	130	120	120	450	3050
Amanat Al Asimah	365	430	120	300	150	100	480	1800
Hajjah	375	435	120	113	135	108	500	2500
Ibb	525	455	140	220	150	100	460	1417
Lahj	360	370	150	125	150	125	500	1000
Sa'ada	365	410	100	120	125	150	550	1250
Sana'a	365	410	100	110	115	130	550	1300
Shabwah	385	380	100	100	140	106	500	1250
Socotra	200	235	150	120	130	140	680	800
Taizz	400	419	150	100	123	110	525	2250

## ORIGIN OF GOODS BY GOVERNORATE

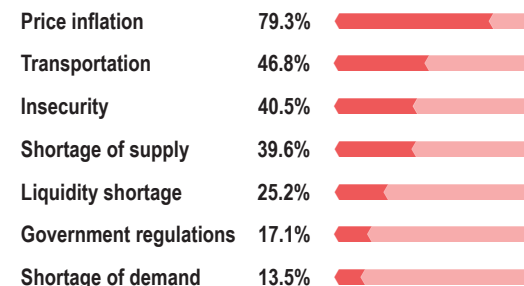
Governorate	Governorate Origin: Fuel	Governorate Origin: WASH
Aden	Aden	Aden
Al Bayda	al Hudaydah	al Hudaydah
Al Hudaydah	al Hudaydah	al Hudaydah
Amanat Al Asimah	al Hudaydah	Amanat al Asimah
Hajjah	al Hudaydah	al Hudaydah
Ibb	Ibb	Ibb
Lahj	Aden	Aden
Sa'ada	al Hudaydah	al Hudaydah
Sana'a	al Hudaydah	al Hudaydah
Shabwah	Hadramaut	Shabwah
Socotra	Aden	Hadramaut
Taizz	Lahj	Taizz





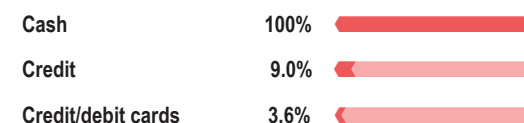
Note: The differences in the number of districts shown between the two maps for fuel and water prices are due to the methodology-stipulated requirement for a minimum of three price quotations per market per district.

## MOST REPORTED CONSTRAINTS FOR: FUEL VENDORS\*



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

## PAYMENT MODALITIES ACCEPTED: FUEL VENDORS\*



\* Payment modalities can add up to more than 100%

## 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.

In some areas there is a lack of fuel, as there are either no fuel stations or the markets are not selling fuel at this time. The black market has continued to fill market shortages, at a price mark-up, when petrol and diesel are not available.

## MEDIAN PETROL PRICE BY DISTRICT (YER)

Governorate	District	Petrol Price
Aden	Al Buraieqeh	350
Aden	Khur Maksar	350
Al Bayda	Rada'	365
Al Hudaydah	Al Khawkhah	400
Al Hudaydah	Al Marawi'ah	365
Al Hudaydah	Al Qanawis	365
Al Hudaydah	Alluheyah	480
Al Hudaydah	Zabid	No Price
Amanat Al Asimah	Ath'thaorah	365
Hajjah	Al Mahabishah	375
Hajjah	Bani Qa'is	375
Hajjah	Najrah	375
Hajjah	Qafil Shamer	390
Ibb	Al Makhadir	525
Lahj	Al Milah	370
Lahj	Tuban	350
Sa'ada	Saqayn	365
Sana'a	Bani Matar	365
Sana'a	Khwlal	365
Sana'a	Sanhan	365
Shabwah	Ataq	390
Shabwah	Habban	380
Socotra	Hidaybu	200
Taizz	Al Ma'afer	400
Taizz	Al Mawasit	400
Taizz	Al Mukha	385
Taizz	As Silw	475
Taizz	Ash Shamayatayn	400
Taizz	At Ta'iziyah	365
Taizz	Dimnat Khadir	390
Taizz	Jabal Habashy	450

## OVERVIEW OF WATER TRUCKING

**52%** 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 **4,500 YER** and **7,500 YER** for an additional 10 km.

**80%** of water trucking vendor KIs stated that they sell non-chlorinated water.

**15%** of water trucking vendor KIs stated that they sell chlorinated water. While 80% of water trucking vendor KIs did not sell chlorinated water; additionally 5% reported being unaware if the water they sold was chlorinated or not.

**85%** of water trucking vendor KIs reported sourcing water from a pumping station or a borehole.

**12%** of water trucking vendor KIs reported sourcing water from a treatment station.

**2%** of water trucking vendor KIs reported sourcing water from a spring.

## PAYMENT MODALITIES ACCEPTED: WATER TRUCKING\*

Cash	100%	<div></div>
Credit	14.0%	<div></div>
Credit/debit cards	2.3%	<div></div>

\* Payment modalities can add up to more than 100%

## CONSTRAINTS AND CHALLENGES

When asked about the top constraints they faced in conducting their business, water truck KIs reported price inflation, shortage of demand, transportation, and insecurity as their top issues.

The vendor KIs additionally stated that fuel prices had an effect on the their ability to provide water as well as their pricing.

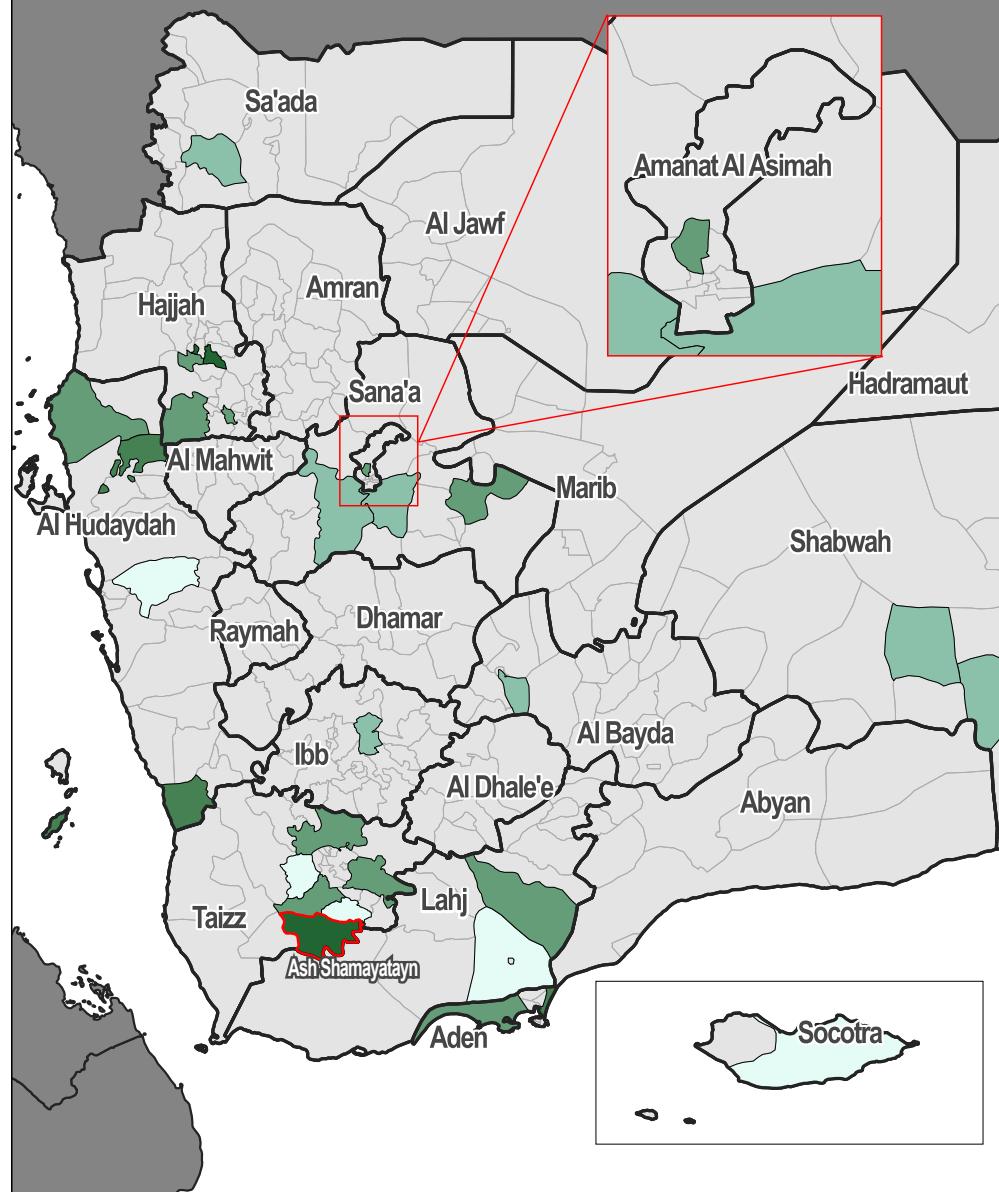
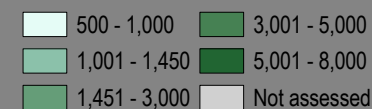
## MEDIAN WATER TRUCKING PRICE BY DISTRICT (YER)

Governorate	District	Water Trucking Price
Aden	Al Buraiqeh	1500
Aden	Khur Maksar	5000
Al Bayda	Rada'	1300
Al Hudaydah	Al Khawkhah	5000
Al Hudaydah	Al Marawi'ah	1000
Al Hudaydah	Al Qanawis	3100
Al Hudaydah	Alluheyah	3000
Al Hudaydah	Zabid	No Price
Amanat Al Asimah	Ath'thaorah	1800
Hajjah	Al Mahabishah	6500
Hajjah	Bani Qa'is	2000
Hajjah	Najrah	1500
Hajjah	Qafi Shamer	3000
Ibb	Al Makhadir	1417
Lahj	Al Milah	1500
Lahj	Tuban	500
Sa'ada	Saqayn	1250
Sana'a	Bani Matar	1300
Sana'a	Khwlan	1900
Sana'a	Sanhan	1300
Shabwah	Ataq	1400
Shabwah	Habban	1100
Socotra	Hidaybu	800
Taizz	Al Ma'afer	1500
Taizz	Al Mawasit	1000
Taizz	Al Mukha	No Price
Taizz	As Silw	No Price
Taizz	Ash Shamayatayn*	8000
Taizz	At Ta'iziyah	3000
Taizz	Dimnat Khadir	3000
Taizz	Jabal Habashy	1000

\*Outliers indicated in red

## Water Trucking Prices

Water trucking prices per district per cubic meter in (YER)

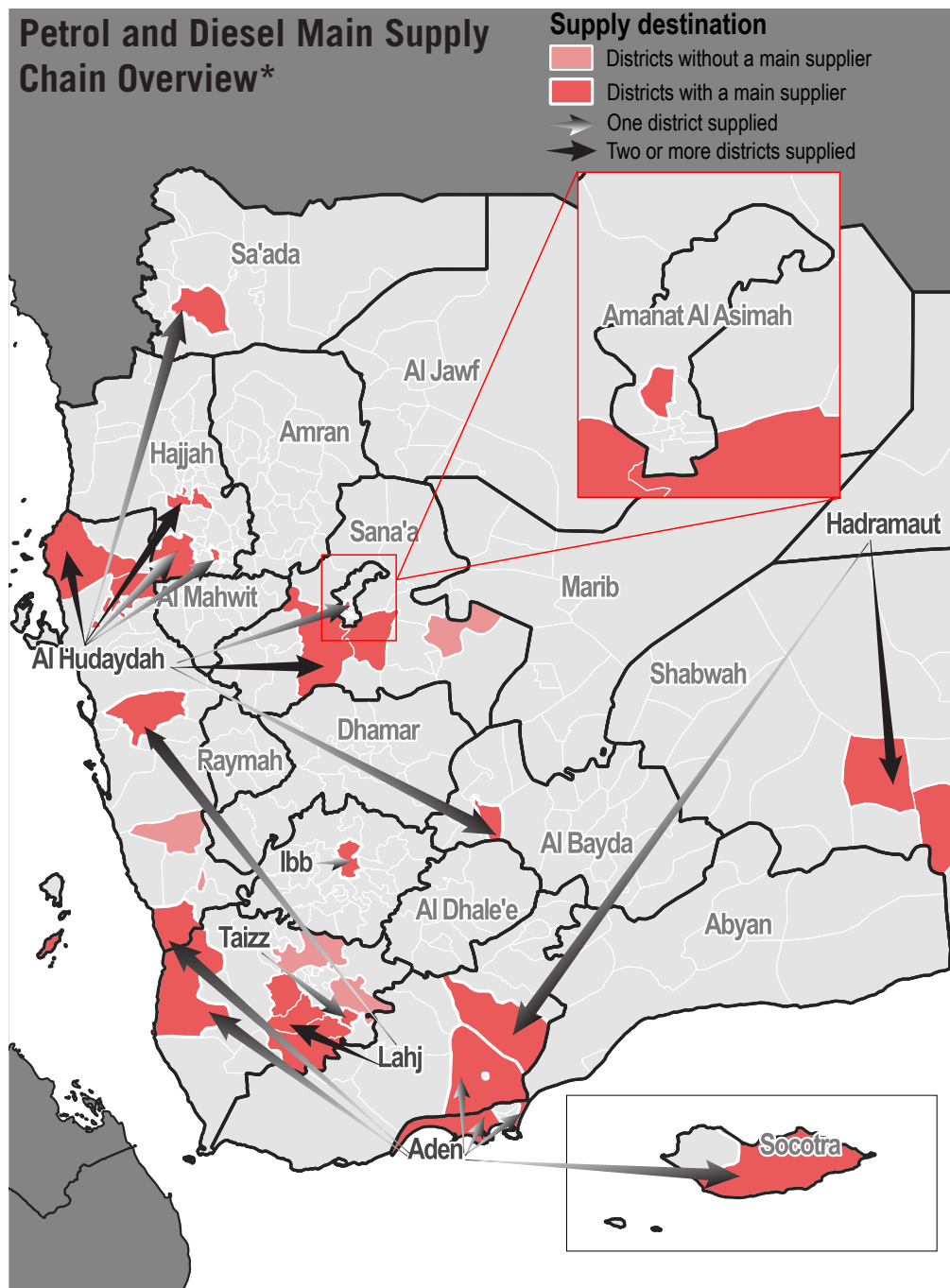


## GOVERNORATE SUPPLY CHAIN ACCORDING TO FUEL VENDOR

Governorate	District	Supplier Governorate	Number Respondents of Total Interviewed*
Aden	Al Buraiqeh	Aden	1/10
Aden	Khur Maksar	Aden	2/10
Al Bayda	Rada'	Al Hudaydah	5/5
Al Hudaydah	Al Khawkhah	Al Hudaydah	3/3
Al Hudaydah	Al Marawi'ah	Aden	3/3
Al Hudaydah	Al Qanawis	Marib	3/3
Al Hudaydah	Alluheyah	Al Hudaydah	3/3
Al Hudaydah	Zabid	Do Not Know	10/10
Amanat Al Asimah	Ath'thaorah	Al Hudaydah	3/3
Hajjah	Al Mahabishah	Al Hudaydah	3/3
Hajjah	Bani Qa'is	Al Hudaydah	2/5
Hajjah	Najrah	Al Hudaydah	2/5
Hajjah	Qafi Shamer	Al Hudaydah	3/3
Ibb	Al Makhadir	Ibb	3/15
Lahj	Al Milah	Hadramaut	1/3
Lahj	Tuban	Aden	4/10
Sa'ada	Saqayn	Al Hudaydah	3/4
Sana'a	Bani Matar	Al Hudaydah	3/3
Sana'a	Khwlal	Al Hudaydah / Amanat Al Asimah	3/3
Sana'a	Sanhan	Al Hudaydah	3/4
Shabwah	Ataq	Hadramaut	3/3
Shabwah	Habban	Hadramaut	3/3
Socotra	Hidaybu	Aden	3/3
Taizz	Al Ma'afer	Lahj	1/7
Taizz	Al Mawasit	Lahj	2/7
Taizz	Al Mukha	Aden	3/3
Taizz	As Silw	Taizz	3/3
Taizz	Ash Shamayatayn	Lahj	3/3
Taizz	At Ta'iziyah	Sana'a / Do Not Know	15/15
Taizz	Dimnat Khadir	Sana'a / Do Not Know	10/10
Taizz	Jabal Habashy	Lahj	5/13

\*If the number is 4/10, indicates 10 people were interviewed, of those, 4 answered the supply question

## Petrol and Diesel Main Supply Chain Overview\*



\*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.

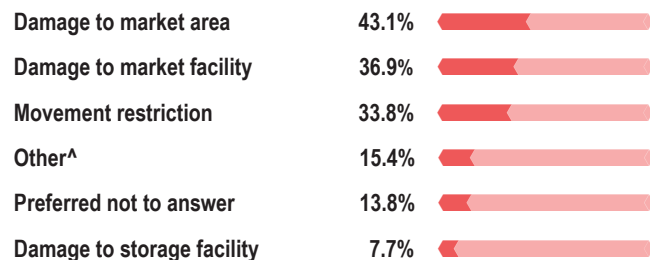


# SUPPLY CHAIN OVERVIEW FOR YEMEN

## 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 concerns\*



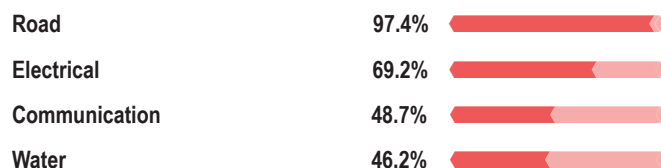
^Lack of fuel stations and supply.

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

## 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 PRICE OF GOODS ORIGINATING FROM ADEN AND AL HUDAYDAH (YER)

Governorate Source	Petrol (1L)	Diesel (1L)	Soap (1 Unit)	Laundry powder (100g)	Sanitary napkins (10)
Aden	365	380	120	91	550
al Hudaydah	365	430	120	145	500

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 diesel and laundry powder originating from Aden being cheaper than in al Hudaydah, while sanitary napkins are cheaper in al Hudaydah. Soap and petrol were the same price in both ports.

## AVERAGE RESTOCKING TIME (DAYS)

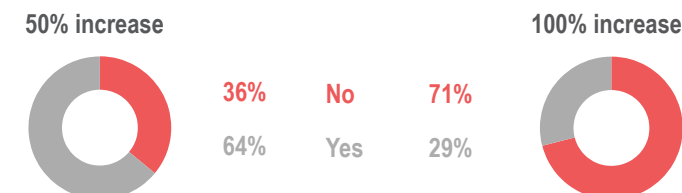
-CHANGE IN DAYS FROM JUNE 2019 IN BRACKETS -

Governorate	Fuel Items	WASH Items
Aden	2 (-1)	1 (0)
al Bayda	3 (-2)	3 (-2)
al Hudaydah	5 (0)	3 (0)
Amanat al Asimah	11 (6)	1 (-2)
Hajjah	6 (2)	4 (1)
Ibb	3 (3)	1 (1)
Lahj	5 (0)	4 (0)
Sa'ada	3 (-3)	3 (-3)
Sana'a	5 (0)	3 (-2)
Shabwah	2 (-2)	1 (0)
Socotra	3 (-1)	3 (-1)
Taizz	5 (1)	2 (0)

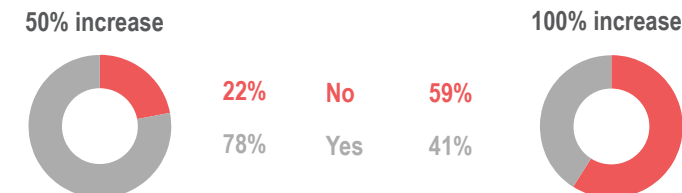
## VENDOR CAPACITY TO RESPOND TO A SUDDEN INCREASE IN DEMAND

To understand vendor capacity to cope with sudden increases in the demand for water trucking, fuel, and WASH items, they were asked 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.

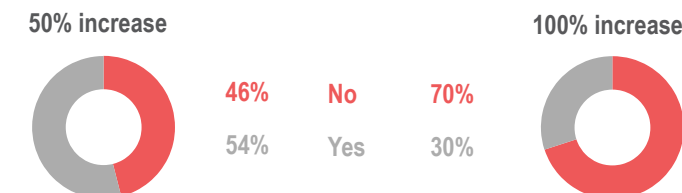
### Vendor capacity to respond to a 50% and 100% increase in demand for fuel items



### 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



## 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 CMWVG 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 CMWVG, 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.

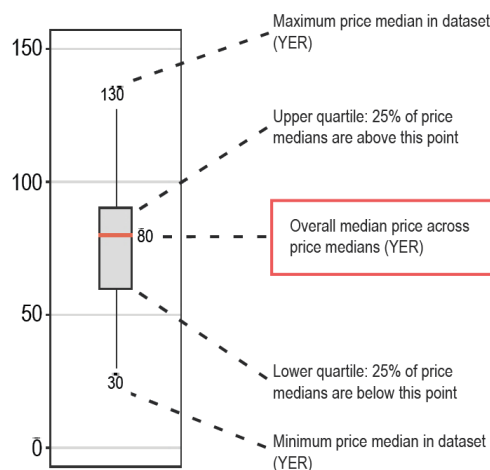
### LIMITATIONS

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](http://www.reach-initiative.org), contact us directly at [yemen@reach-initiative.org](mailto:yemen@reach-initiative.org) or follow us on Twitter at [@REACH\\_info](https://twitter.com/REACH_info).

### Number of Districts Assessed Per Governorate

Governorate	Districts Covered
Aden	2
al Bayda	1
al Hudaydah	5
Amanat al Asimah	1
Hajjah	4
Ibb	1
Lahj	2
Sa'ada	1
Sana'a	3
Shabwah	2
Socotra	1
Taizz	8

### PARTICIPATING PARTNERS INCLUDE



Save the Children

