



## 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 **17 Aug - 8 Sept\***

**10** Participating partners

**34** Districts assessed

**171** Vendor KIs surveyed

*\*Insecurity led to an extended data collection period*

## KEY FINDINGS

In August 2019, the trend of depreciation of the Yemeni Riyal (YER) against the US Dollar (USD) continued, with the YER losing 2.3% on the parallel market.

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

**585**  
**USD/YER**  
Parallel market\*  
▲ **2.1%**

**573**  
**USD/YER**  
Previous Parallel Market  
Rate July 2019

## KEY PRICE FIGURES

Prices for all goods, except diesel and treated water, increased between July 2019 and August 2019. The price of water trucking saw the largest decrease, which also had an impact on the SMEB. Diesel was the only item to decrease in price, while petrol increased for the first time in 5 months.

<b>Petrol Price (1L)</b>	<b>370 YER</b>	▲	<b>+1.4%</b>
<b>Diesel Price (1L)</b>	<b>401 YER</b>	▼	<b>-2.2%</b>
<b>Bottled Water Price (0.75L)</b>	<b>138 YER</b>	▲	<b>+7.8%</b>
<b>Treated Water Price (10L)</b>	<b>120 YER</b>	►	<b>0.0%</b>
<b>Water Trucking Price (1m³)</b>	<b>1,450 YER</b>	▲	<b>+6.8%</b>
<b>Soap (100g)</b>	<b>140 YER</b>	▲	<b>+8.5%</b>
<b>Sanitary Napkins (10 Pack)</b>	<b>550 YER</b>	▲	<b>+10.0%</b>
<b>Laundry Powder (100 g)</b>	<b>130 YER</b>	▲	<b>+18.2%</b>

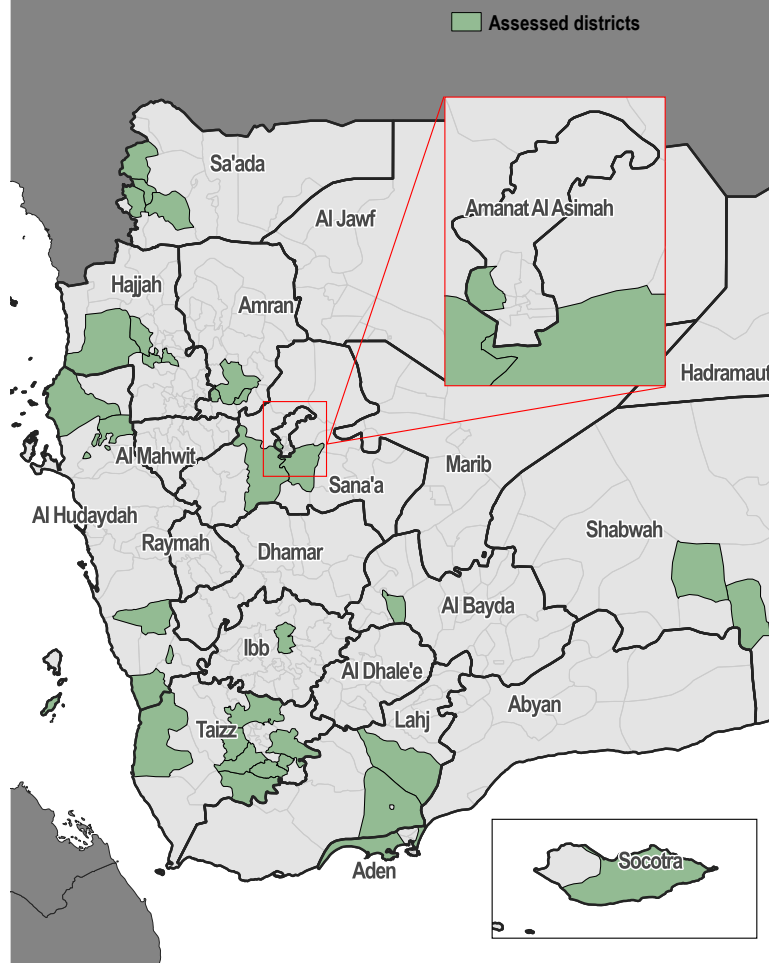
## WASH SMEB

The median cost for the WASH SMEB was calculated to be 8,830 YER, marking a decrease of 10.3% from the cost observed in July 2019.

**Aug 9,738 YER / July 8,830 YER ▲ 908 YER +10.3%**

*\*144 of the 171 market KIs 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

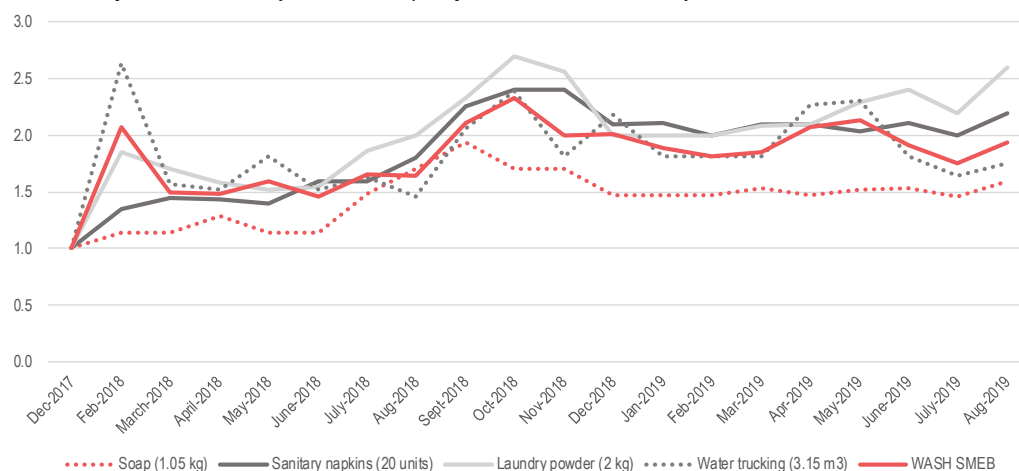
The **WASH SMEB** represents the minimum culturally adjusted group of WASH items required to support a Yemeni family of eight for a month.

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 AUGUST**  
**9,738 YER**

## WASH SMEB PRICE INDEX

Since September 2017 (normalized, September 2017 = 1.00)



Change since  
February 2019

**648 YER**  
**+7.1%**

Change since  
July 2019

**908 YER**  
**+10.2%**

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

Vendor Source	June 2019	July 2019	Aug 2019
Fuel	7.4%	9.0%	5.3%
WASH	13.2%	15.7%	7.9%
Water Trucking	7.9%	14.0%	5.9%

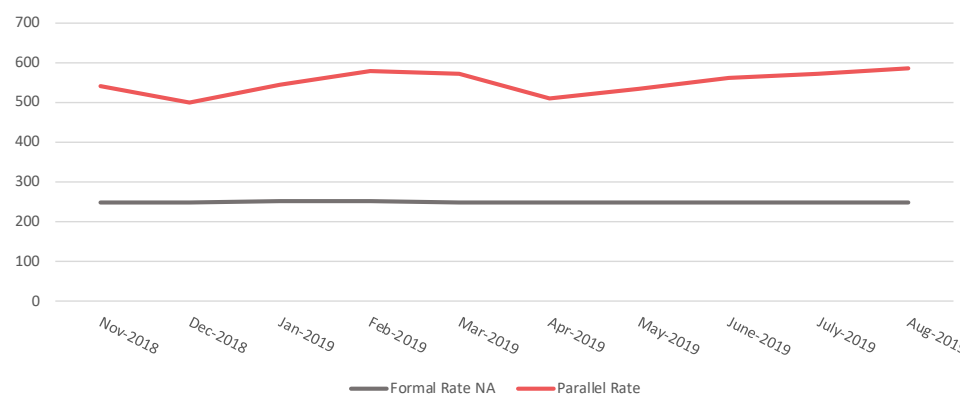
## MEDIAN EXCHANGE RATE, BY GOVERNORATE

Governorate	June 2019	July 2019	Aug 2019
Aden	564	583	585
Al Bayda	590	550	598
Al Hudaydah	555	578	580
Amanat Al Asimah	561	575	590
Amran	560	N/A	579
Hajjah	550	568	585
Ibb	555	571	606
Lahj	563	580	580
Sa'ada	560	550	580
Sana'a	550	550	590
Shabwah	558	582	591
Socotra	565	580	588
Taizz	558	572	590

## 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 Aug-19	Change since Feb-19	Change since July-19
Aden	1575	1500	1000	15750	19825	41.6%	53.6%
Al Bayda	1050	3000	1100	4568	9718	5.1%	-13.0%
Al Hudaydah	1549	2400	900	7875	12724	-10.2%	37.5%
Amanat Al Asimah	1575	2000	1200	N/A*	N/A	N/A	N/A
Amran	1575	1955	1100	3150	7780	N/A*	9.1%
Hajjah	1365	2200	1300	11025	15890	27.6%	93.8%
Ibb	1260	2400	1200	3544	8404	-6.2%	-41.5%
Lahj	1575	2500	1000	3938	9013	9.6%	27.4%
Sa'ada	1418	3100	1350	2757	8624	-7.8%	-50.5%
Sana'a	1050	3000	1100	4410	9560	6.2%	3.1%
Shabwah	2100	2980	1100	6458	12638	48.4%	6.1%
Socotra	1575	2600	1340	2520	8035	-0.1%	15.5%
Taizz	1418	2700	1050	10238	15405	32.5%	16.3%

## EXCHANGE RATE INDEX

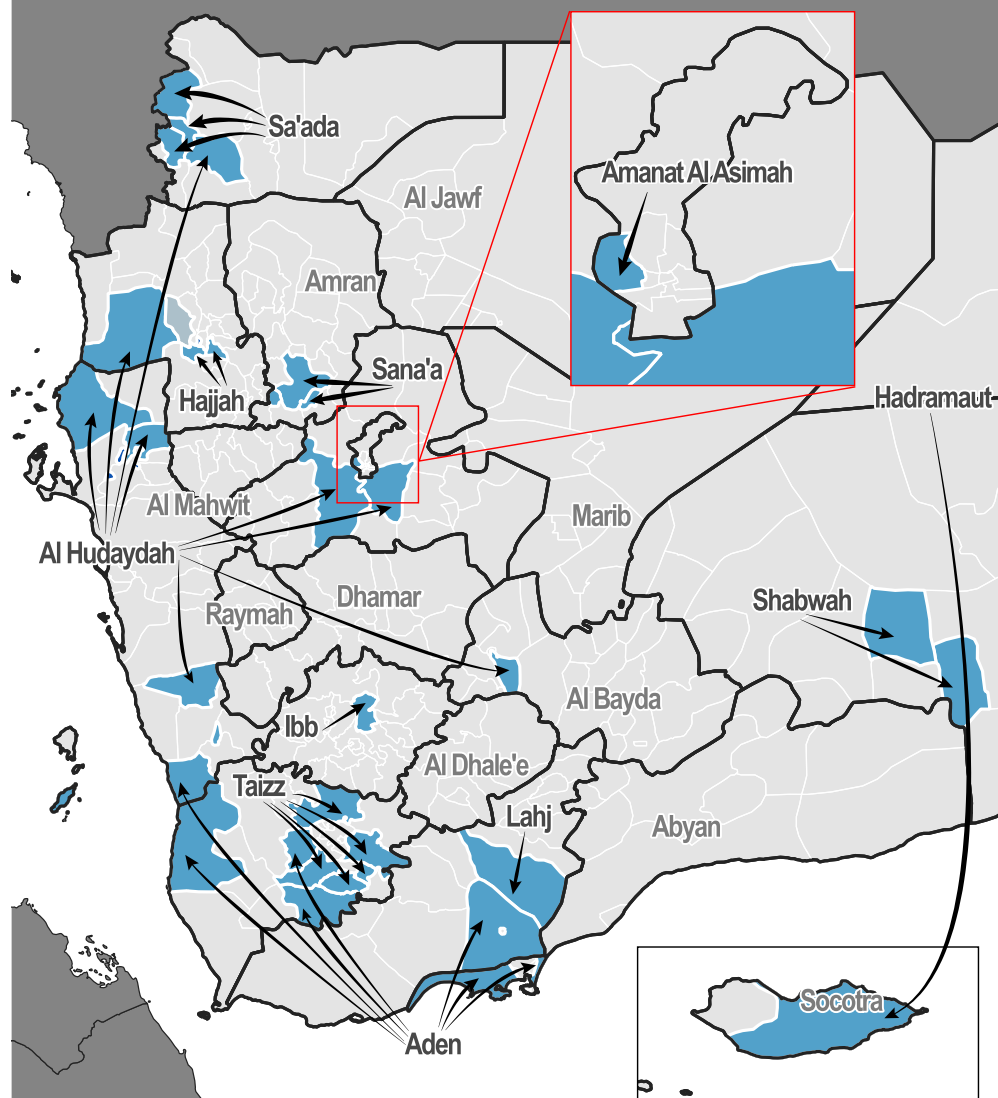


\* No water trucking was being conducted at markets visited in Al Hudaydah / No data from Amran in Feb.

# WASH SMEB Supply Chain Overview\*

## Supply destination

- Districts without a main supplier
- Districts with a main supplier
- Governorate of origin



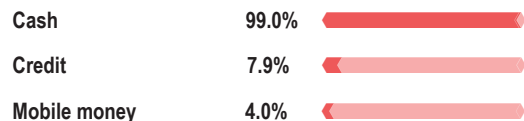
## GOVERNORATE SUPPLY CHAIN ACCORDING TO WASH VENDOR KIS

Governorate	District	Supplier Governorate	Number Respondents of Total Interviewed <sup>A</sup>	Governorate	District	Supplier Governorate	Number Respondents of Total Interviewed <sup>A</sup>
Aden	Al Buraiqeh	Aden	4/10	Sa'ada	Ghamr	Sa'ada	3/3
Aden	Khur Maksar	Aden	4/10	Sa'ada	Monabbih	Sa'ada	3/3
Al Bayda	Rada'	Al Hudaydah	3/3	Sa'ada	Razih	Sa'ada	3/3
Al Hudaydah	Al Khawkhah	Aden	3/3	Sa'ada	Saqayn	Al Hudaydah	3/3
Al Hudaydah	Al Qanawis	Al Hudaydah	3/3	Sana'a	Bani Matar	Al Hudaydah	5/5
Al Hudaydah	Alluheyah	Al Hudaydah	3/3	Sana'a	Sanhan	Al Hudaydah	5/5
Al Hudaydah	Zabid	Al Hudaydah	10/10	Shabwah	Ataq	Shabwah	3/3
Amanat Al Asimah	Ma'ain	Amanat Al Asimah	3/3	Shabwah	Habban	Shabwah	3/3
Amran	Amran	Sana'a	2/5	Socotra	Hidaybu	Hadramaut	3/3
Amran	Jabal Iyal Yazid	Sana'a	2/5	Taizz	Al Mukha	Aden	3/3
Hajjah	Abs	Al Hudaydah	4/6	Taizz	Al Ma'afer	Taizz	1/4
Hajjah	Al Mahabishah	Hajjah	3/3	Taizz	Al Mawasit	Taizz	3/7
Hajjah	Aslem	Al Hudaydah / Hajjah	2/3	Taizz	As Silw	Taizz	5/5
Hajjah	Qafil Shamer	Hajjah	3/3	Taizz	Ash Shamayatayn	Aden	3/5
Ibb	Al Makhadir	Ibb	3/12	Taizz	At Ta'iziyah	Taizz	9/9
Lahj	Al Milah	Lahj	1/3	Taizz	Dimnat Khadir	Taizz	6/6
Lahj	Tuban	Aden	4/10	Taizz	Jabal Habashy	Aden	5/6

<sup>A</sup>If the number is 4/10, indicates 10 people 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.

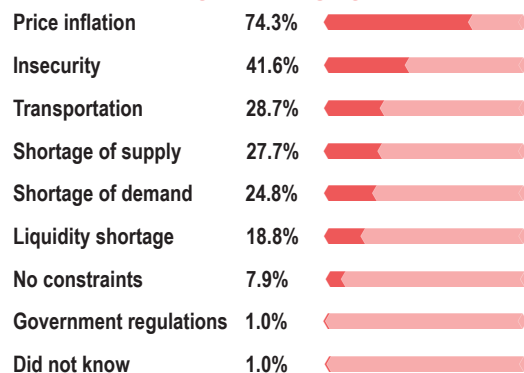
\*The map shows WASH SMEB supply chain inside the same governorate and towards other governorates. Districts without a main supplier are those districts where vendor KIs could not identify the origin of the WASH items they sold.

## PAYMENT MODALITIES ACCEPTED: WASH VENDORS\*



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

## MOST REPORTED CONSTRAINTS FOR: WASH VENDORS\*



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

## 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.

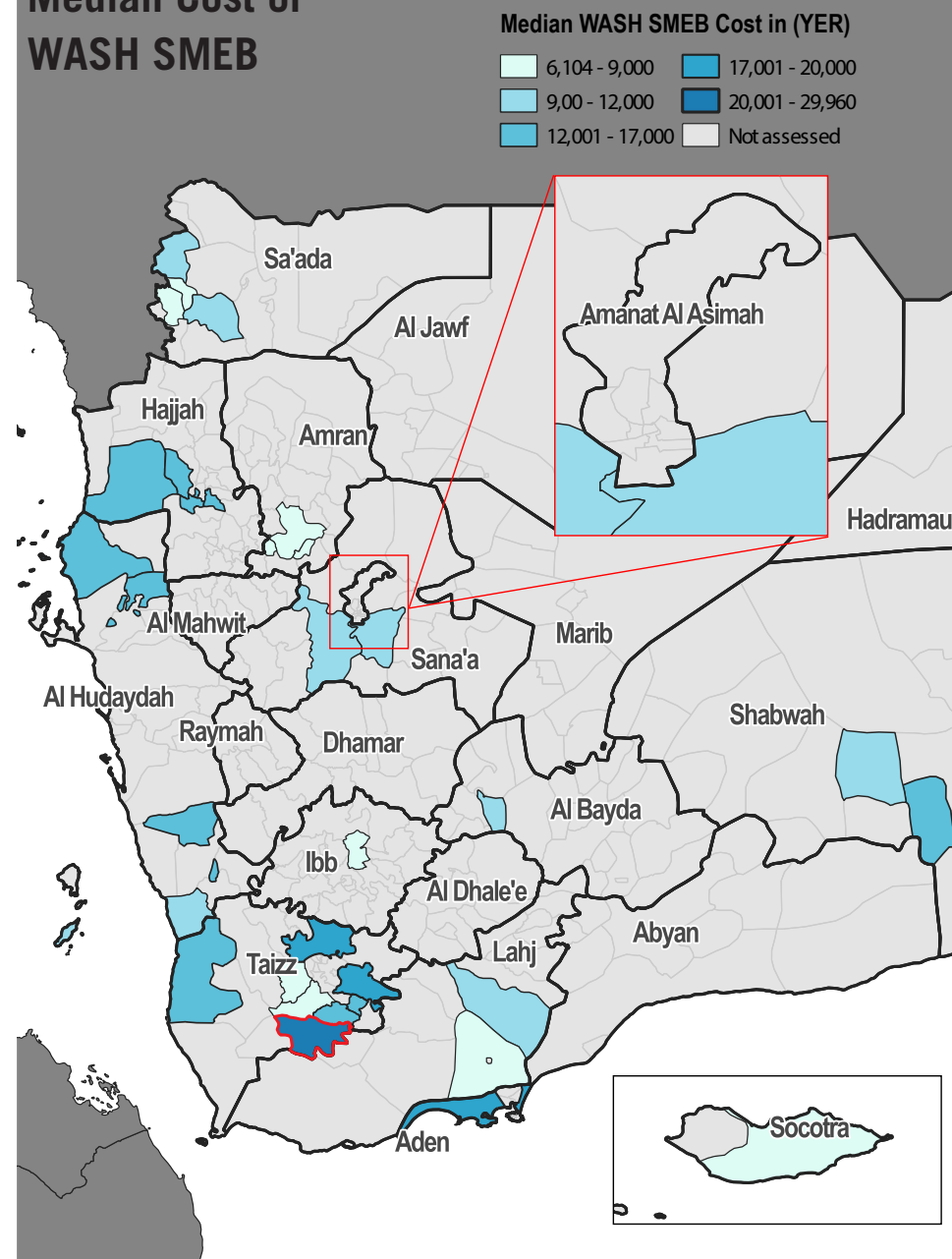
## MEDIAN WASH SMEB COST BY DISTRICT (YER)

Governorate	District	SMEB Cost
Aden	Al Buraiqeh	19,825
Aden	Khur Maksar	19,825
Al Bayda	Rada'	9,718

Governorate	District	SMEB Cost
Al Hudaydah	Al Khawkhah	11,675
Al Hudaydah	Al Qanawis	14,545
Al Hudaydah	Alluheyah	12,450
Al Hudaydah	Zabid	12,978
Amanat Al Asimah	Ma'ain	NA
Amran	Amran	7,270
Amran	Jabal Iyal Yazid	8,290
Hajjah	Abs	12,910
Hajjah	Al Mahabishah	15,700
Hajjah	Aslem	15,985
Hajjah	Qafil Shamer	15,790
Ibb	Al Makhadir	8404
Lahj	Al Milah	10,300
Lahj	Tuban	7,725
Sa'ada	Ghamr	8,433
Sa'ada	Monabbih	9,058
Sa'ada	Razih	8,295
Sa'ada	Saqayn	9,620
Sana'a	Bani Matar	9,560
Sana'a	Sanhan	9,560
Shabwah	Ataq	10,100
Shabwah	Habban	15,175
Socotra	Hidaybu	8,035
Taizz	Al Mukha	15,613
Taizz	Al Ma'afer	6,502
Taizz	Al Mawasit	12,960
Taizz	As Silw	16,093
Taizz	Ash Shamayatayn	29,960
Taizz	At Ta'iziyah	17,850
Taizz	Dimnat Khadir	17,850
Taizz	Jabal Habashy	6,105

\*Outliers indicated in red in table and on map

## 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>	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	Aug 2019	% Change (July-Aug)
Diesel	235	394	375	430	430	409	400	410	401	-2.2%
Petrol	275	349	325	365	365	365	365	365	370	1.4%
Treated water	NA ↯	175 ↯	100	114	105	115	130	120	120	0.0%
Bottled water	70	100	110	120	120	115	130	128	138	7.8%
Soap	88	NA	130	135	130	134	135	129	140	8.5%
Sanitary napkins	250	NA	500	525	525	510	528	500	550	10.0%
Laundry powder	50	NA	100	105	105	115	120	110	130	18.2%
Water trucking	825	1,700	1,500	1,500	1,875	1,900	1,500	1,358	1,450	6.8%

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

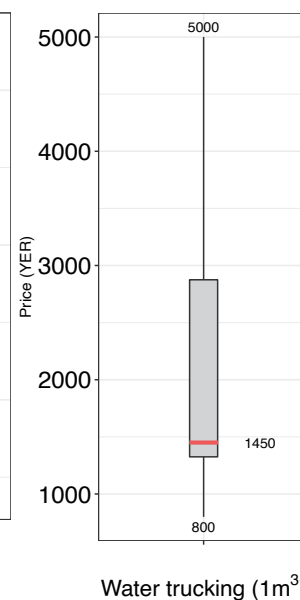
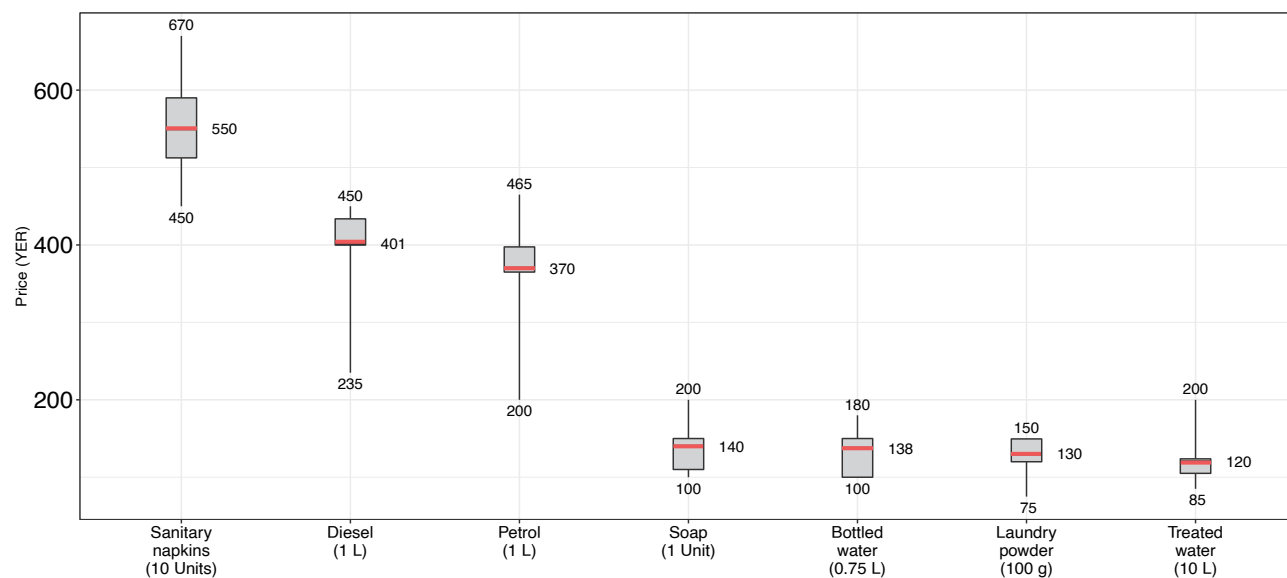
<sup>^</sup> Price levels for September 2017 are the price quotations recorded during the Multi-Agency Joint Cash Study, while prices for November 2017 were recorded during the Weekly Price Monitoring Initiative conducted by the WASH Cluster.

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

## AUGUST 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 (1m <sup>3</sup> )
Aden	350	NA*	150	85	150	75	500	5,000
Al Bayda	370	400	100	120	100	150	550	1,450
Al Hudaydah	398	435	150	100	148	120	450	2,500
Amanat Al Asimah	365	425	150	120	150	100	600	NA*
Amran	365	430	115	350	150	98	550	1,000
Hajjah	370	438	123	150	130	110	650	3,500
Ibb	365	430	150	200	120	120	600	1,125
Lahj	423	370	138	125	150	125	500	1,250
Sa'ada	400	440	130	120	135	155	675	875
Sana'a	365	400	100	120	100	150	550	1,400
Shabwah	398	403	100	NA*	200	149	550	2,050
Socotra	200	235	150	120	150	130	670	800
Taizz	465	450	180	100	135	135	525	3,250

## PRICE DISTRIBUTION OF KEY ITEMS ACROSS YEMEN



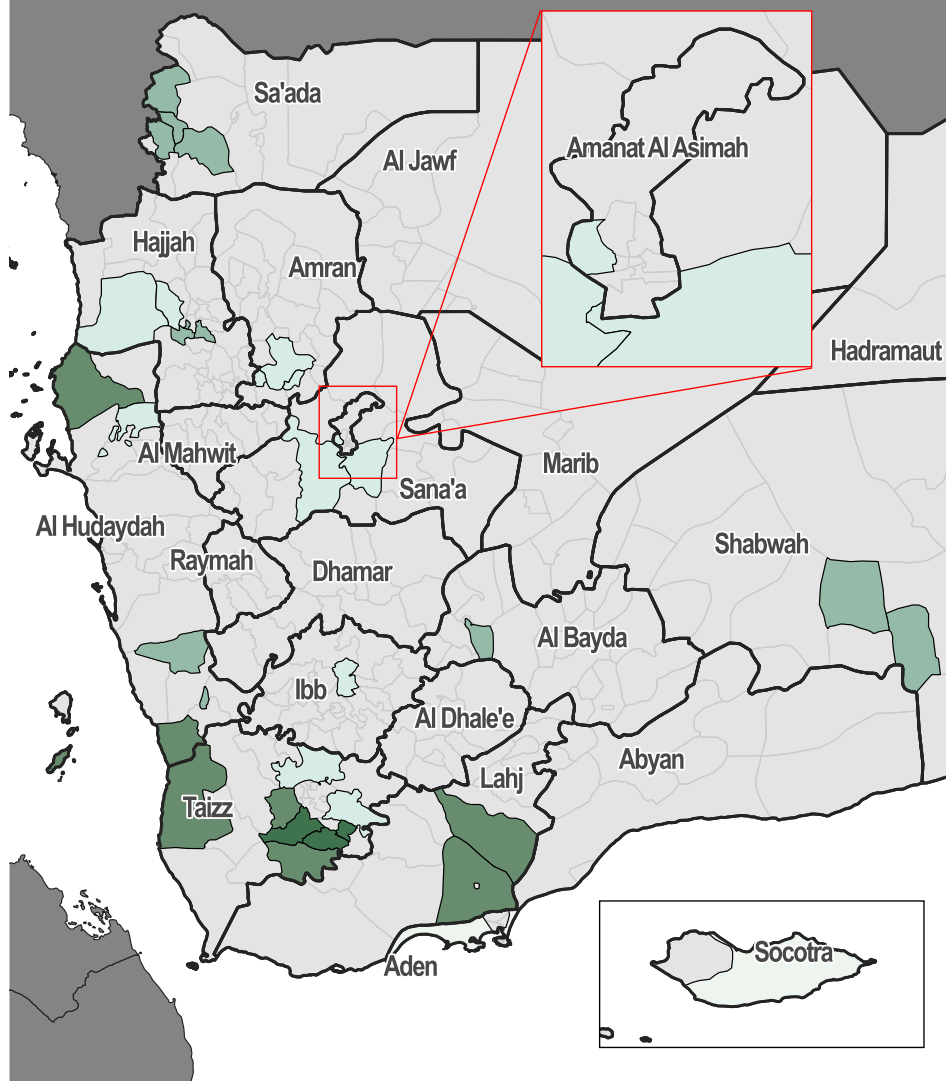
## ORIGIN OF GOODS BY GOVERNORATE

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	Marib	Amanat Al Asimah
Amran	al Hudaydah	Sana'a
Hajjah	al Hudaydah	Hajjah
Ibb	al Hudaydah	Ibb
Lahj	Aden	Aden
Sa'ada	Sa'ada	Sa'ada
Sana'a	al Hudaydah	al Hudaydah
Shabwah	Hadramaut	Shabwah
Socotra	Aden	Hadramaut
Taizz	Aden	Taizz



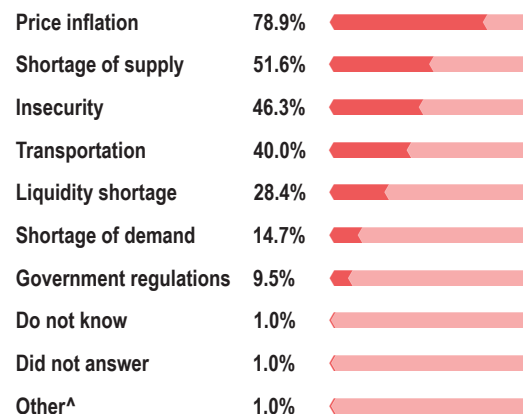
## Petrol Prices

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



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.

^Other includes check points and black market concerns

## PAYMENT MODALITIES ACCEPTED: FUEL VENDORS\*



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

## CONSTRAINTS AND CHALLENGES

The black market and additional check points continue to be a challenge for fuel vendors, as additional costs and supply chain issues are becoming more prevalent. Fuel vendor KIs also reported a lack of supply, as well as larger traders controlling more of the fuel supply.

## MEDIAN PETROL PRICE BY DISTRICT (YER)

Governorate	District	Petrol Price
Aden	Al Buraiqeh	350
Aden	Khur Maksar	350

Governorate	District	Petrol Price
Al Bayda	Rada'	370
Al Hudaydah	Al Khawkhah	420
Al Hudaydah	Al Qanawis	365
Al Hudaydah	Alluheyah	450
Al Hudaydah	Zabid	375
Amanat Al Asimah	Ma'ain	365
Amran	Amran	365
Amran	Jabal Iyal Yazid	365
Hajjah	Abs	365
Hajjah	Al Mahabishah	375
Hajjah	Aslem	365
Hajjah	Qafil Shamer	375
Ibb	Al Makhadir	365
Lahj	Al Milah	420
Lahj	Tuban	425
Sa'ada	Ghamr	400
Sa'ada	Monabbih	400
Sa'ada	Razih	400
Sa'ada	Saqayn	370
Sana'a	Bani Matar	365
Sana'a	Sanhan	365
Shabwah	Ataq	400
Shabwah	Habban	395
Socotra	Hidaybu	200
Taizz	Al Mukha	410
Taizz	Al Ma'afer	500
Taizz	Al Mawasit	500
Taizz	As Silw	550
Taizz	Ash Shamayatayn	480
Taizz	At Ta'iziyah	365
Taizz	Dimnat Khadir	365
Taizz	Jabal Habashy	450

## OVERVIEW OF WATER TRUCKING

**65%** 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 **5,750 YER** and **8,000 YER** for an additional 10 km.

**84%** of water trucking vendor KIs stated that they sell non-chlorinated water.

**15%** of water trucking vendor KIs stated that they sell chlorinated water. Additionally, 1.5% of water trucking vendor KIs reported being unaware if the water they sold was chlorinated or not.

**83%** of water trucking vendor KIs reported sourcing water from a pumping station or a borehole.

**15%** 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	5.9%	<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.

## MEDIAN WATER TRUCKING PRICE BY DISTRICT (YER)

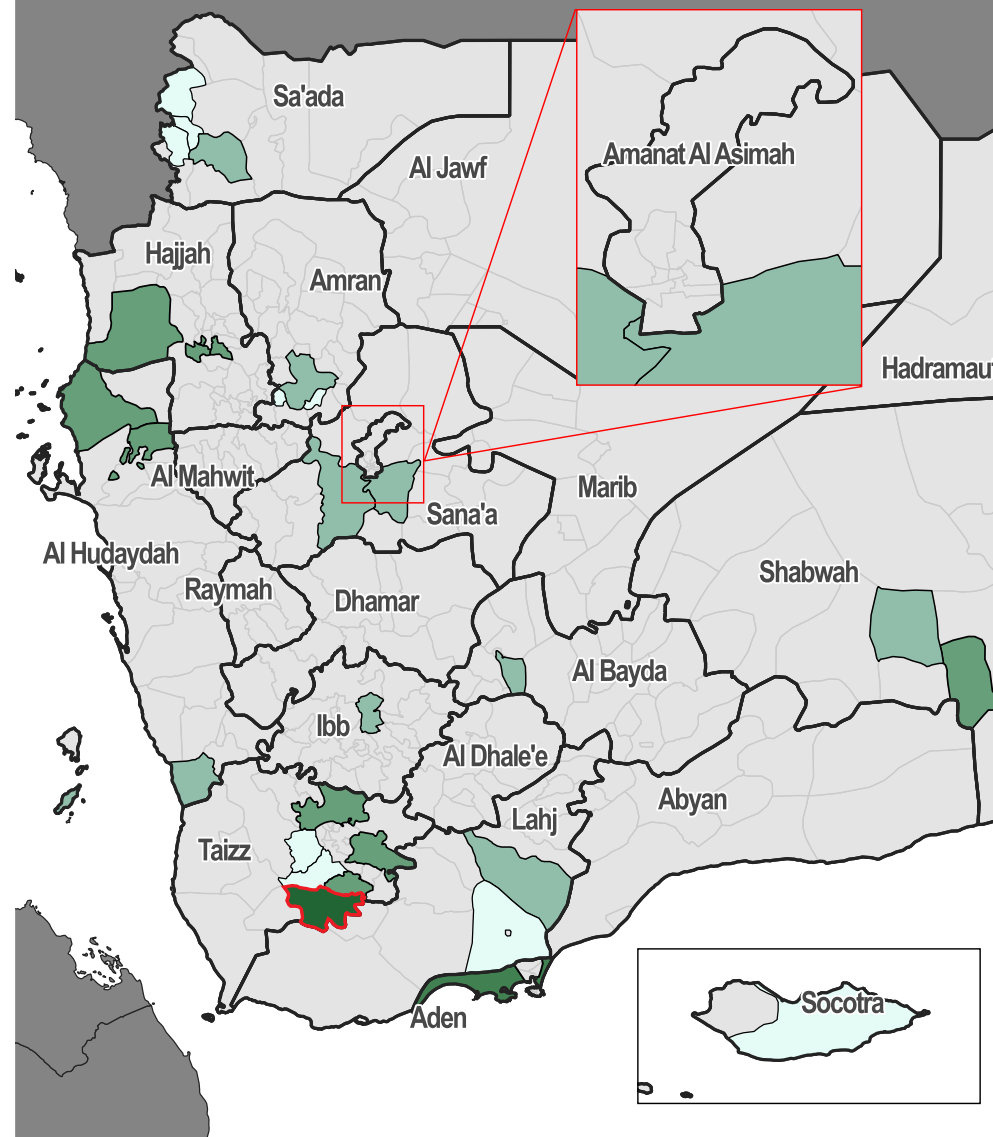
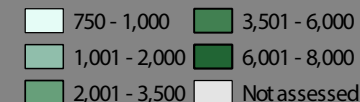
Governorate	District	Water Trucking Price
Aden	Al Buraigeh	5000
Aden	Khur Maksar	5000

Governorate	District	Water Trucking Price
Al Bayda	Rada'	1450
Al Hudaydah	Al Khawkhah	2000
Al Hudaydah	Al Qanawis	3200
Al Hudaydah	Alluheyah	2500
Al Hudaydah	Zabid	No Price
Amanat Al Asimah	Ma'ain	No Price
Amran	Amran	900
Amran	Jabal Iyal Yazid	1100
Hajjah	Abs	2300
Hajjah	Al Mahabishah	3500
Hajjah	Aslem	No Price
Hajjah	Qaf Shamer	3500
Ibb	Al Makhadir	1125
Lahj	Al Milah	1500
Lahj	Tuban	1000
Sa'ada	Ghamr	750
Sa'ada	Monabbih	950
Sa'ada	Razih	800
Sa'ada	Saqayn	1400
Sana'a	Bani Matar	1400
Sana'a	Sanhan	1400
Shabwah	Ataq	1500
Shabwah	Habban	2600
Socotra	Hidaybu	800
Taizz	Al Mukha	No Price
Taizz	Al Ma'afer	1000
Taizz	Al Mawasit	3000
Taizz	As Silw	No Price
Taizz	Ash Shamayatayn	<b>8000</b>
Taizz	At Ta'iziyah	3500
Taizz	Dimnat Khadir	3500
Taizz	Jabal Habashy	800

\*Outliers indicated in red in table and on map

## 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 <sup>A</sup>	Governorate	District	Supplier Governorate	Number Respondents of Total Interviewed <sup>A</sup>
Aden	Al Buraiqeh	Aden	2/10	Sa'ada	Ghamr	Sa'ada	3/3
Aden	Khur Maksar	Aden	2/10	Sa'ada	Monabbih	Sa'ada	3/3
Al Bayda	Rada'	Al Hudaydah	3/3	Sa'ada	Razih	Sa'ada	3/3
Al Hudaydah	Al Khawkhah	Aden	3/3	Sa'ada	Saqayn	Al Hudaydah	3/3
Al Hudaydah	Al Qanawis	Al Hudaydah	3/3	Sana'a	Bani Matar	Al Hudaydah	5/5
Al Hudaydah	Alluheyah	Al Hudaydah	3/3	Sana'a	Sanhan	Al Hudaydah	5/5
Al Hudaydah	Zabid	Al Hudaydah	10/10	Shabwah	Ataq	Hadramaut	3/3
Amanat Al Asimah	Ma'ain	Marib	3/3	Shabwah	Habban	Hadramaut	3/3
Amran	Amran	Al Hudaydah	2/5	Socotra	Hidaybu	Aden	3/3
Amran	Jabal Iyal Yazid	Al Hudaydah	2/5	Taizz	Al Mukha	Aden	3/3
Hajjah	Abs	Al Hudaydah	6/6	Taizz	Al Ma'afer	Aden	1/4
Hajjah	Al Mahabishah	Al Hudaydah	3/3	Taizz	Al Mawasit	Aden	3/7
Hajjah	Aslem	Al Hudaydah	3/3	Taizz	As Silw	Taizz	5/5
Hajjah	Qafil Shamer	Al Hudaydah	3/3	Taizz	Ash Shamayatayn	Lahj	5/5
Ibb	Al Makhadir	Al Hudaydah	3/12	Taizz	At Ta'iziyah	Sana'a	9/9
Lahj	Al Milah	Hadramaut	1/3	Taizz	Dimnat Khadir	Sana'a	6/6
Lahj	Tuban	Aden	4/10	Taizz	Jabal Habashy	Lahj	1/6

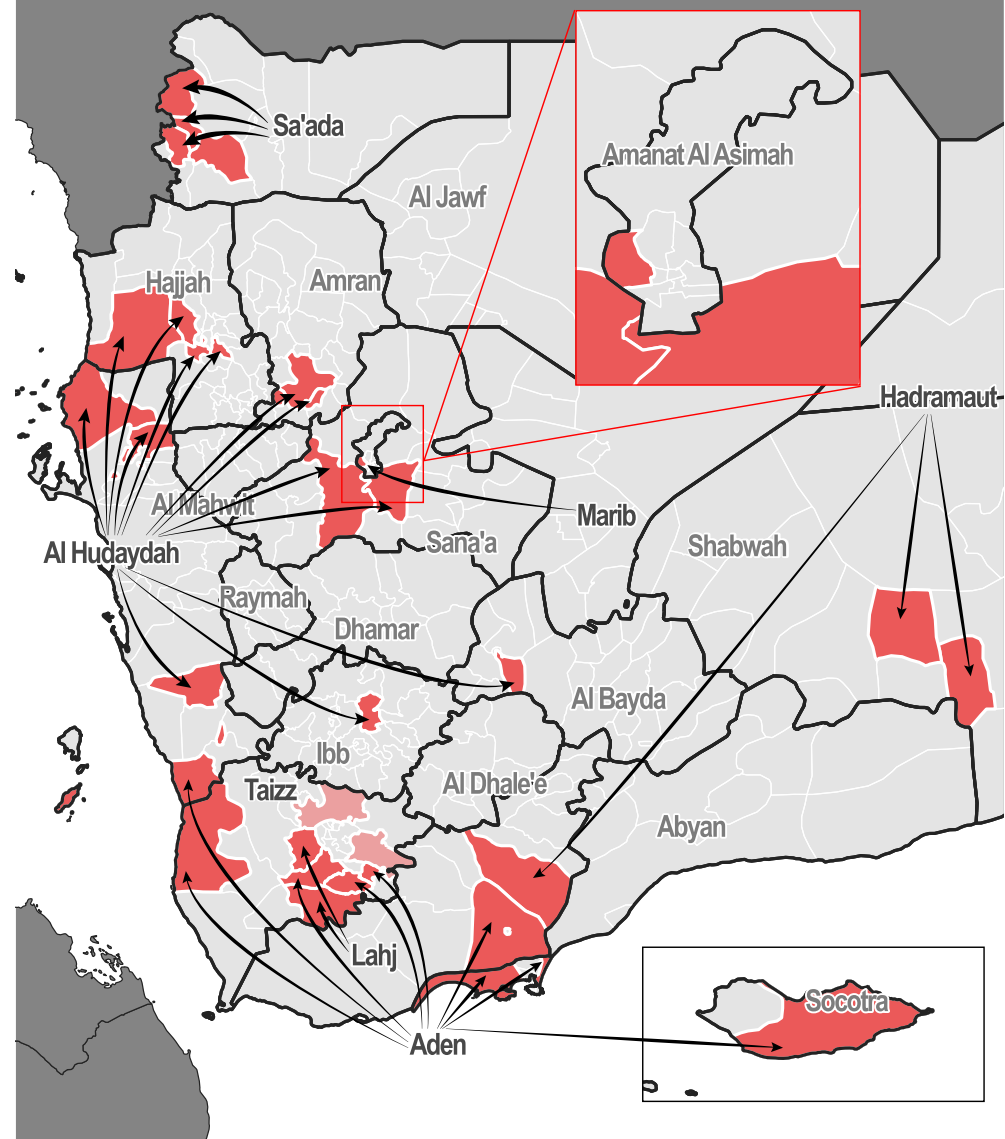
<sup>A</sup>If the number is 4/10, indicates 10 people were interviewed, of those, 4 answered the supply question. The supplier governorate indicates the most prevalent answer. In the case of a tie, both governorates are shown.

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

## Petrol and Diesel Main Supply Chain Overview\*

### Supply destination

- Districts without a main supplier
- Districts with a main supplier
- Governorate of origin



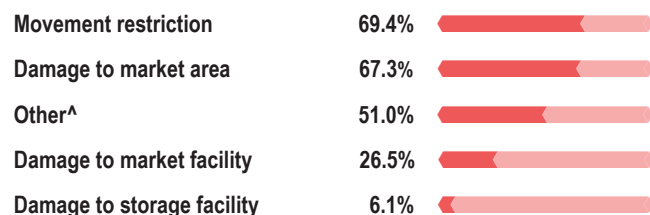


# SUPPLY CHAIN OVERVIEW FOR YEMEN

## 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\*



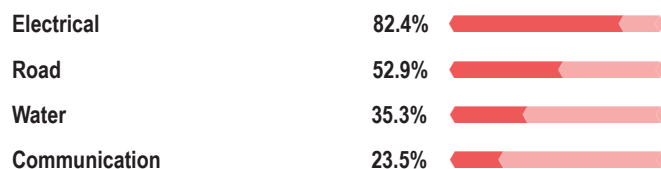
<sup>^</sup>Lack of fuel and increased conflicts in the area

\*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	420	410	150	75	500
al Hudaydah	370	430	100	150	550

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)

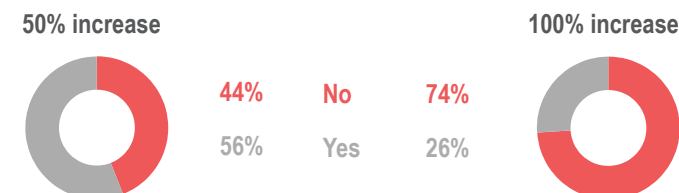
-CHANGE IN DAYS FROM JULY 2019 IN BRACKETS -

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

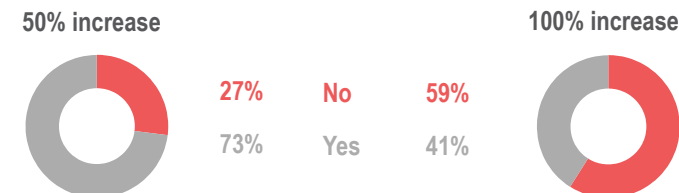
## VENDOR CAPACITY TO RESPOND TO A SUDDEN INCREASE IN DEMAND

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.

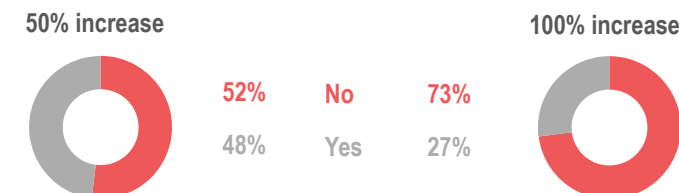
### Vendor capacity to respond to a 50% and 100% increase in demand for fuel items



### 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.

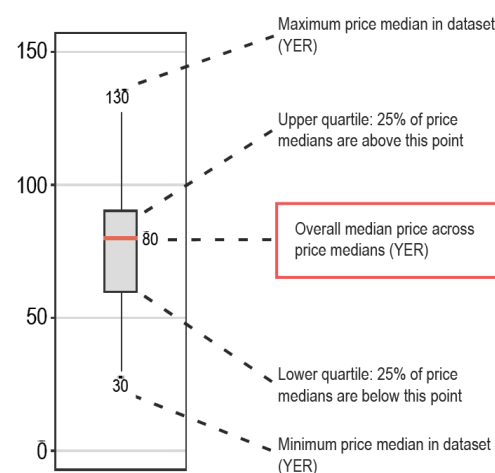
### LIMITATIONS

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	4
Amanat al Asimah	1
Amran	2
Hajjah	4
Ibb	1
Lahj	2
Sa'ada	4
Sana'a	2
Shabwah	2
Socotra	1
Taizz	8

### PARTICIPATING PARTNERS INCLUDE



Save the Children



Oxfam



مؤسسة المدينة القديمة للتنمية  
Old City Foundation for Development



NORWEGIAN  
REFUGEE COUNCIL



Tamdeen  
Youth Foundation  
مؤسسة تمدين شباب

