

### 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 Dec - 31 Dec**  
7 Participating partners  
35 Districts assessed  
192 Vendor KIs surveyed

### KEY FINDINGS

In December 2019, the trend of appreciation of the Yemeni Riyal (YER) against the US Dollar (USD) stopped, with the YER depreciating 1.6% on the parallel market.

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

**579**  
**USD/YER**  
Parallel market\*\*  
▲ **+1.6%**

**570**  
**USD/YER**  
Previous Parallel Market Rate November 2019

### KEY PRICE FIGURES

Between November 2019 and December 2019, the price for water trucking saw a particularly high increase of 33%, which had an impact on the total SMEB. The prices of diesel and laundry powder also increased. However petrol, soap, and sanitary napkins all stayed at November 2019 prices.

<b>Petrol Price (1L)</b>	<b>365 YER</b>	▶	<b>0.0%</b>
<b>Diesel Price (1L)</b>	<b>420 YER</b>	▲	<b>+1.7%</b>
<b>Bottled Water Price (0.75L)</b>	<b>130 YER</b>	▼	<b>-5.8%</b>
<b>Treated Water Price (10L)</b>	<b>129 YER</b>	▼	<b>-0.8%</b>
<b>Water Trucking Price (1m<sup>3</sup>)</b>	<b>2,000 YER</b>	▲	<b>+33.3%</b>
<b>Soap (100g)</b>	<b>150 YER</b>	▶	<b>0.0%</b>
<b>Sanitary Napkins (10 Pack)</b>	<b>500 YER</b>	▶	<b>0.0%</b>
<b>Laundry Powder (100 g)</b>	<b>118 YER</b>	▲	<b>+4.4%</b>

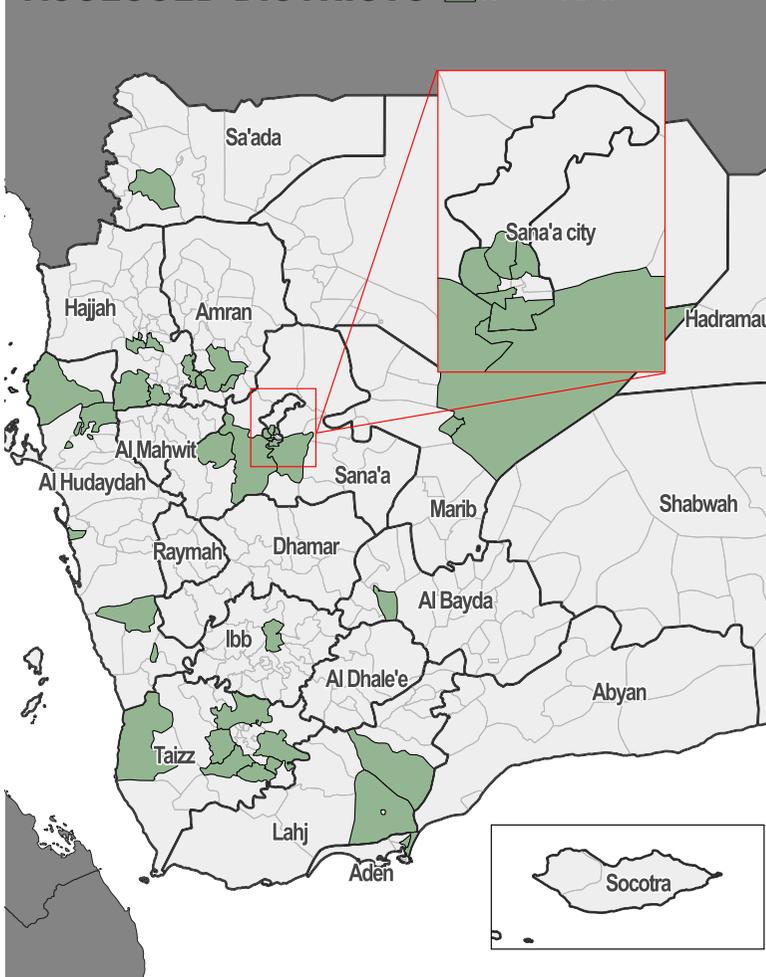
### WASH SMEB

The median cost for the WASH SMEB was calculated to be 11,225 YER, marking an increase of 17.6% from the cost observed in November 2019.

**Dec 11,225 YER / Nov 9,545 YER ▲ 1,680 YER +17.6%**

*\*159 of the 192 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 m <sup>3</sup>

### 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.

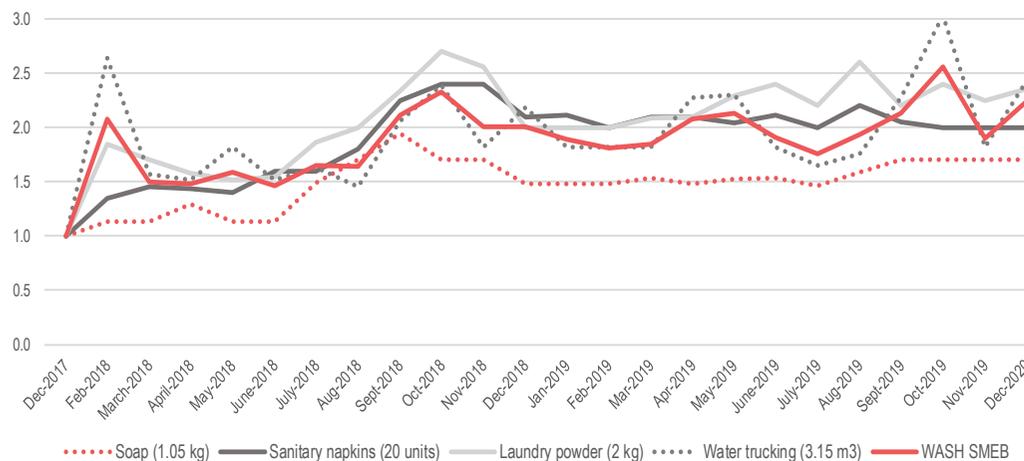
The cost of the WASH SMEB can be used as a proxy for the financial burdens, relative to WASH items, a household is facing in different locations. The WASH SMEB components were defined by the CMWG in consultation with relevant sector leads.

### MEDIAN COST OF WASH SMEB IN DECEMBER

11,225 YER

## WASH SMEB PRICE INDEX

Since September 2017 (normalized. September 2017 = 1.00)



Change since  
June 2019

▲ 1,627 YER  
+16.9%

Change since  
November 2019

▲ 1,680 YER  
+17.6%

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

Vendor Source	Oct 2019	Nov 2019	Dec 2019
Fuel	3.8%	6.7%	7.2%
WASH	20.6%	22.8%	21.9%
Water Trucking	16.8%	9.4%	4.3%

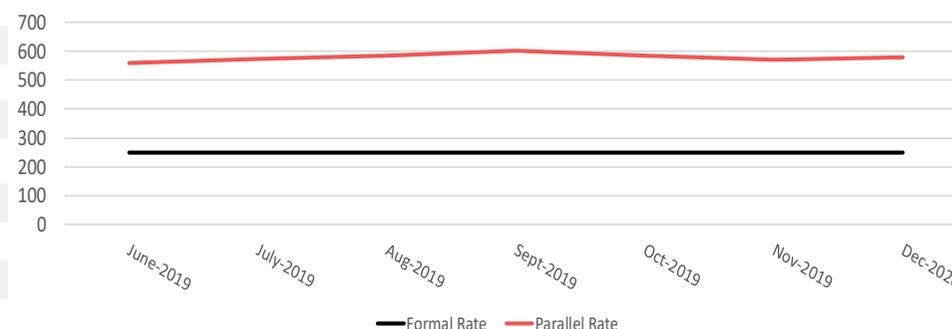
## MEDIAN EXCHANGE RATE, BY GOVERNORATE

Governorate	Oct 2019	Nov 2019	Dec 2019
Aden	593	573	603
Al Bayda	590	N/A	578
Al Hudaydah	583	570	573
Amran	586	571	579
Hajjah	584	570	582
Ibb	575	569	580
Lahj	593	570	599
Marib	N/A	578	N/A
Sa'ada	590	590	578
Sana'a	580	570	576
Sana'a City	583	575	575
Taizz	570	572	584

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

Governorate	Soap (10.5 kg)	Laundry powder (2 kg)	Sanitary napkins (20 units)	Water trucking (3.15 m³)	WASH SMEB Dec-19	Change since June-19	Change since Nov-19
Aden	1575	1500	1000	9450	13525	2.2%	0.0%
Al Bayda	N/A	N/A	N/A	2268	N/A	N/A*	N/A*
Al Hudaydah	1418	2400	1000	26775	31593	211.7%	116.0%
Amran	1575	2000	975	2993	7543	-5.5%	-2.5%
Hajjah	1575	2400	1000	6300	11275	-21.8%	-21.8%
Ibb	2100	3000	1100	6300	12500	45.6%	55.9%
Lahj	1575	1910	1000	7481	11966	32.7%	28.5%
Marib	1575	3000	1200	N/A	N/A	N/A*	N/A*
Sa'ada	N/A	N/A	N/A	2457	N/A	N/A*	N/A*
Sana'a	1575	3640	1400	2268	8883	-9.9%	-6.4%
Sana'a City	1575	2400	1000	3150	8125	-10.5%	3.0%
Taizz	1838	2400	1000	6300	11275	8.5%	-22.2%

## EXCHANGE RATE INDEX

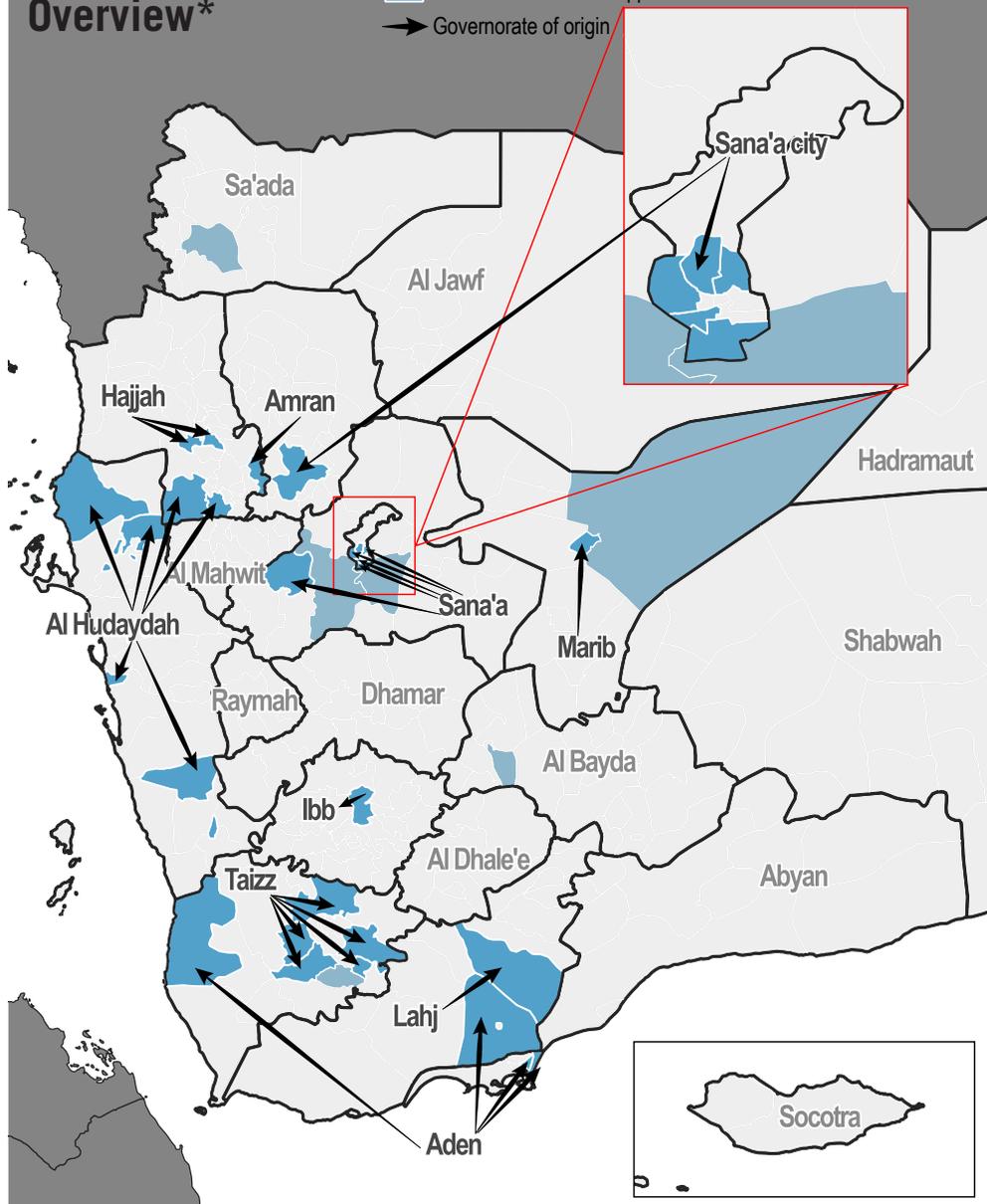


\* Not enough data to create the SMEB in December

# 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	Ash Shaikh Outhman	Aden	4 / 10	Marib	Marib	N/A -	2 / 7
Aden	Khur Maksar	Aden	4 / 10	Marib	Marib City	Marib	1 / 4
Al Bayda	Rada'	Do Not Know <sup>~</sup>	3 / 3	Sa'ada	Saqayn	Do Not Know <sup>~</sup>	4 / 4
Al Hudaydah	Al Hawak	al Hudaydah	4 / 4	Sana'a	Al Haymah Ad Dakhiliyah	Sana'a	1 / 3
Al Hudaydah	Al Qanawis	al Hudaydah	3 / 3	Sana'a	Bani Matar	Do Not Know <sup>~</sup>	3 / 3
Al Hudaydah	Alluheyah	al Hudaydah	3 / 3	Sana'a	Sanhan	Do Not Know <sup>~</sup>	3 / 3
Al Hudaydah	Zabid	al Hudaydah	11 / 11	Sana'a City	Al Wahdah	Sana'a	3 / 3
Amran	Amran	N/A -	2 / 5	Sana'a City	As Sabain	Sana'a	2 / 5
Amran	Jabal Iyal Yazid	Sana'a City	2 / 5	Sana'a City	Ath'thaorah	Sana'a City	3 / 3
Hajjah	Al Mahabishah	Hajjah	3 / 3	Sana'a City	Ma'ain	Sana'a	4 / 7
Hajjah	Ash Shaghadirah	al Hudaydah	2 / 6	Sana'a City	Shu'aub	Sana'a	3 / 3
Hajjah	Bani Qa'is	al Hudaydah	3 / 8	Taizz	Al Mukha	Aden	3 / 3
Hajjah	Kuhlan Affar	Amran	2 / 5	Taizz	Al Ma'afer	Taizz	2 / 7
Hajjah	Qafil Shamer	Hajjah	3 / 3	Taizz	Al Mawasit	N/A -	2 / 7
Ibb	Al Makhadir	Ibb	6 / 6	Taizz	As Silw	Taizz	3 / 3
Lahj	Al Milah	Lahj	1 / 3	Taizz	At Ta'iziyah	Taizz	9 / 9
Lahj	Tuban	Aden	4 / 10	Taizz	Dimnat Khadir	Taizz	6 / 6
				Taizz	Jabal Habashy	Taizz	14 / 14

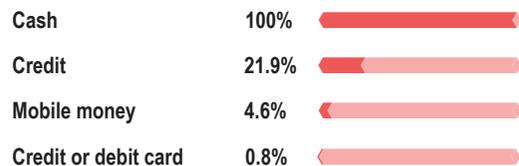
<sup>A</sup>If the number is 4/10 (e.g.), this indicates that 10 vendor KIs were interviewed, of those, 4 answered the supply question. The supplier governorate indicates the most prevalent answer. In the case of a tie, both governorates are shown.

\*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

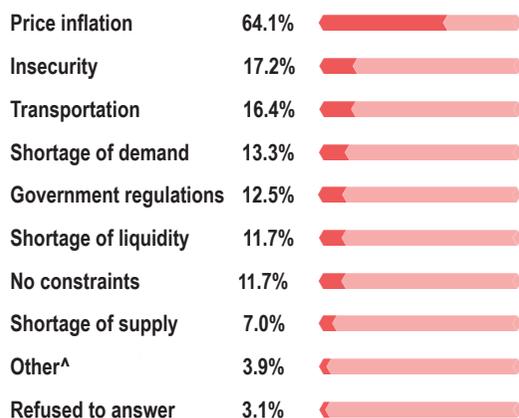
<sup>~</sup>Do Not Know was a potential option that could be selected by respondents

## 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.

^Includes lack of fuel, fluctuations in the exchange rate

## MEDIAN WASH SMEB COST BY DISTRICT (YER)

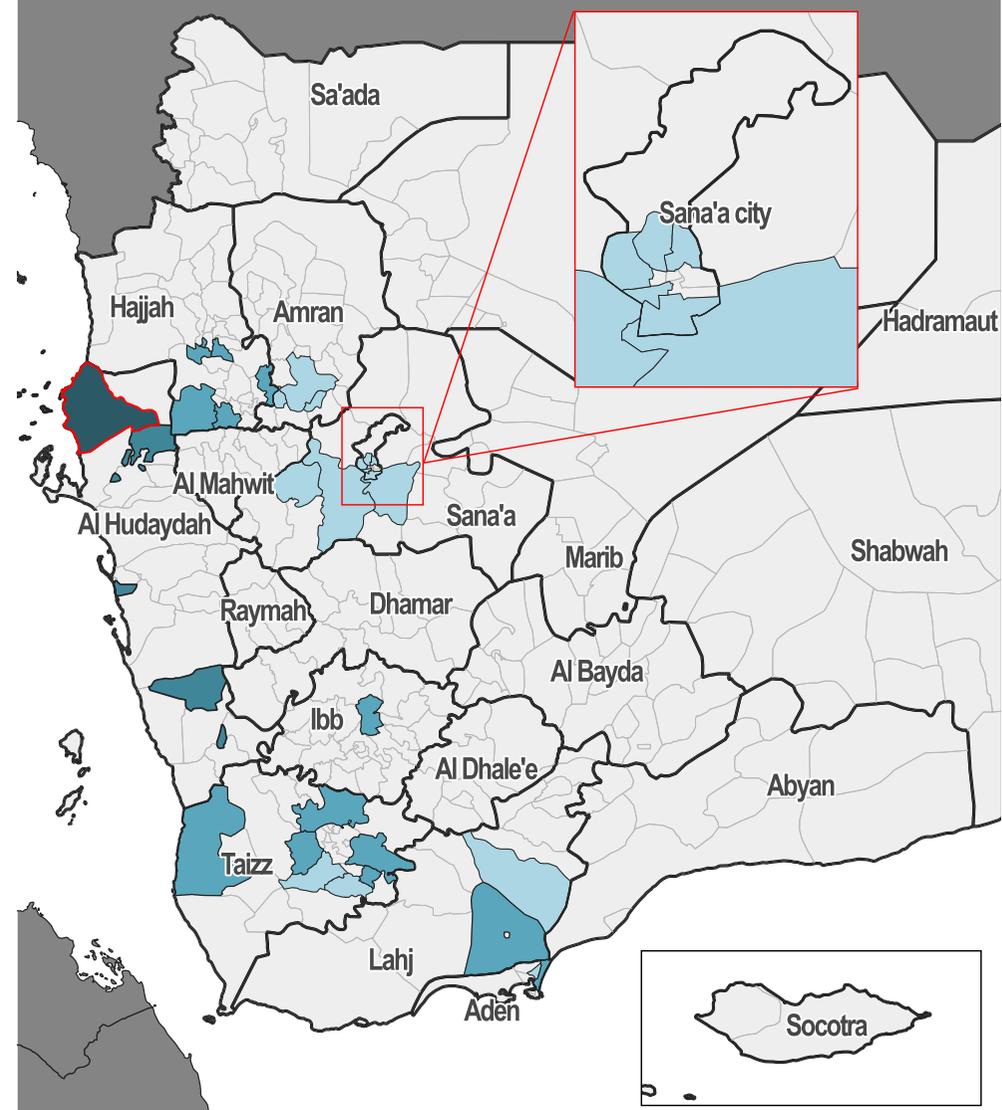
Governorate	District	SMEB Cost
Aden	Ash Shaikh	7225
	Outhman	19825
Al Bayda	Rada'	N/A
Al Hudaydah	Al Hawak	31740
Al Hudaydah	Al Qanawis	20315

Governorate	District	SMEB Cost
Al Hudaydah	Alluheyah	<b>42796</b>
Al Hudaydah	Zabid	31885
Amran	Amran	7675
Amran	Jabal Iyal Yazid	7410
Hajjah	Al Mahabishah	12976
Hajjah	Ash Shaghadirah	11375
Hajjah	Bani Qa'is	11275
Hajjah	Kuhlan Affar	11475
Hajjah	Qafil Shamer	13529
Ibb	Al Makhadir	12500
Lahj	Al Milah	9120
Lahj	Tuban	14813
Marib	Marib	N/A
Marib	Marib City	N/A
Sa'ada	Saqayn	N/A
Sana'a	Al Haymah Ad	9765
	Dakhiliyah	9765
Sana'a	Bani Matar	8864
Sana'a	Sanhan	8883
Sana'a City	Al Wahdah	8225
Sana'a City	As Sabain	7675
Sana'a City	Ath'thaorah	10593
Sana'a City	Ma'ain	7295
Sana'a City	Shu'aub	8185
Taizz	Al Mukha	11275
Taizz	Al Ma'afer	7510
Taizz	Al Mawasit	7925
Taizz	As Silw	11595
Taizz	At Ta'iziyah	12100
Taizz	Dimnat Khadir	12600
Taizz	Jabal Habashy	19313

^Bold Red indicates an outlier

\*NA indicates that, in the specific location, SMEB was reported unavailable.

## Median Cost of WASH SMEB



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

Yemen Joint Market Monitoring Initiative (JMMI), December 2019

# PRICE MONITORING OVERVIEW FOR YEMEN

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

Item	September 2017 (baseline) <sup>^</sup>	November 2017 <sup>^</sup>	June 2019	July 2019	Aug 2019	Sept 2019	Oct 2019	Nov 2019	Dec 2019	% Change (Nov-Dec)
Petrol (1L)	275	349	365	365	370	368	365	365	365	0.0%
Diesel (1L)	235	394	400	410	401	400	405	413	420	+1.7%
Bottled Water (.75L)	70	100	130	128	138	125	140	138	130	-5.8%
Treated Water (10L)	NA ↯	175 ↯	130	120	120	120	120	130	129	-0.8%
Soap (1 Unit)	88	NA	135	129	140	150	150	150	150	0.0%
Laundry Powder (100g)	50	NA	120	110	130	109	120	113	118	+4.4%
Sanitary Napkins (10)	250	NA	528	500	550	500	500	500	500	0.0%
Water Trucking (1m <sup>3</sup> )	825	1,700	1,500	1,358	1,450	1,875	2,500	1,500	2000	+33.3%

\* 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.

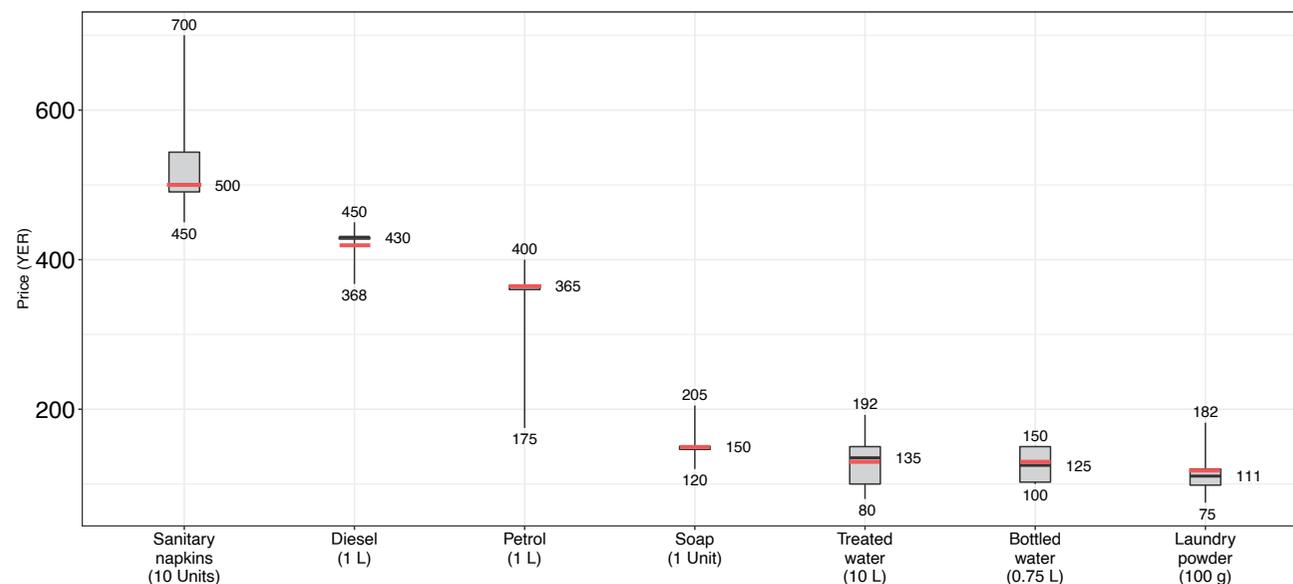
↯ Treated water prices for September 2017 and November 2017 were for 20L, while the JMMI collects prices for 10L.

## DECEMBER 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	340	355	150	78	150	75	500	3000
Al Bayda	370	420	100	150	N/A	N/A	N/A	720
Al Hudaydah	370	440	150	110	135	120	500	8500
Amran	365	430	110	150	150	100	488	950
Hajjah	365	430	150	148	150	120	500	2000
Ibb	365	430	140	100	200	150	550	2000
Lahj	340	380	150	100	150	96	500	2375
Marib	N/A	N/A	106	250	150	150	600	N/A
Sa'ada	365	420	100	150	N/A	N/A	N/A	780
Sana'a	365	420	100	150	150	182	700	720
Sana'a City	365	430	120	105	150	120	500	1000
Taizz	365	400	150	100	150	120	500	2000

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

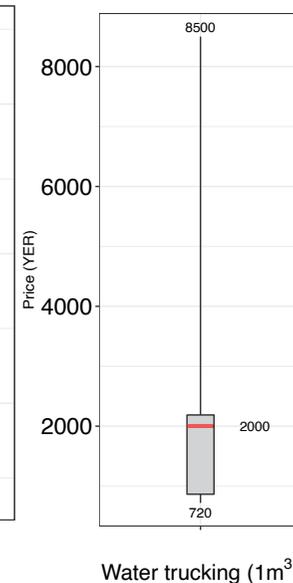
## PRICE DISTRIBUTION OF KEY ITEMS ACROSS YEMEN



## ORIGIN OF GOODS BY GOVERNORATE

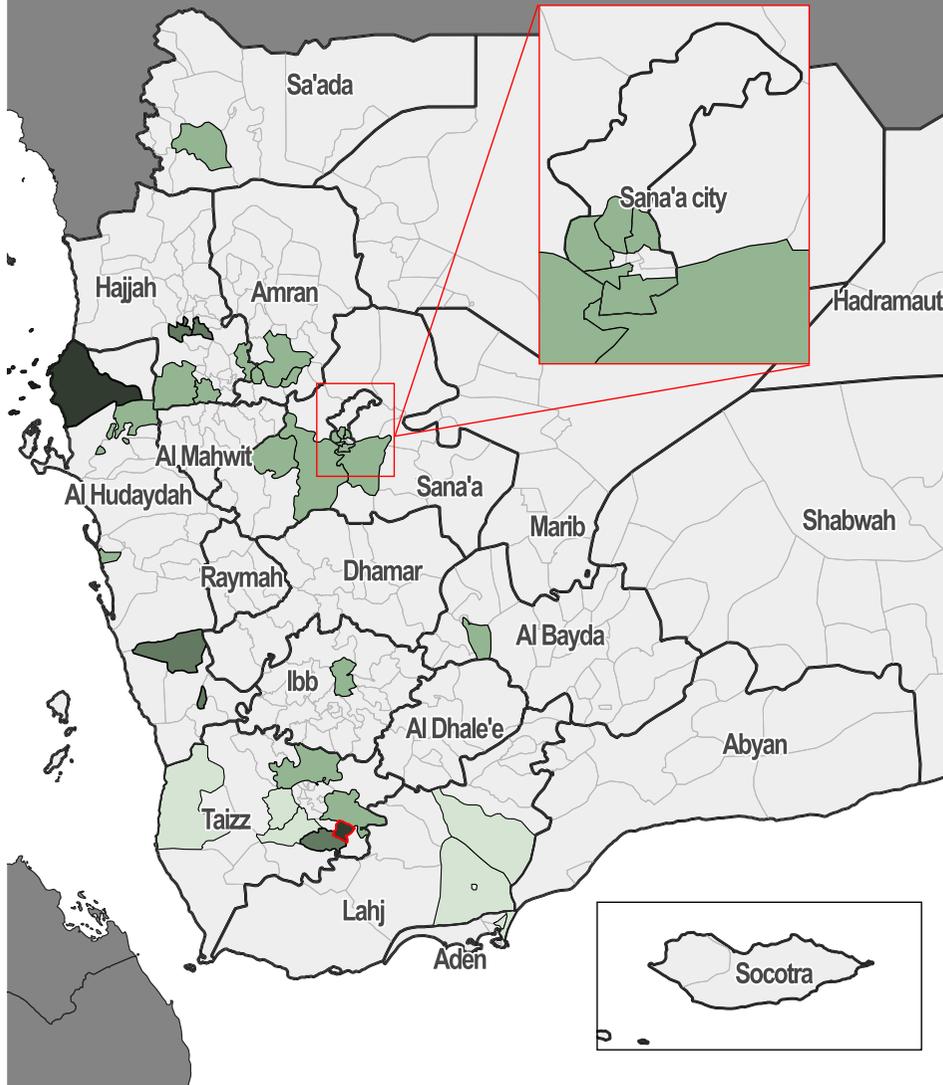
Governorate	Governorate Origin: Fuel	Governorate Origin: WASH
Aden	Aden	Aden
Al Bayda	Do Not Know	Do Not Know
Al Hudaydah	al Hudaydah	Sana'a City
Amran	al Hudaydah	Sana'a
Hajjah	al Hudaydah	Hajjah
Ibb	al Hudaydah	Ibb
Lahj	Aden	Aden
Marib	N/A	Marib
Sa'ada	Do Not Know	Do Not Know
Sana'a	Do Not Know	Do Not Know
Sana'a City	al Hudaydah	Sana'a
Taizz	Sana'a	Taizz

\* N/As were not answered by respondents



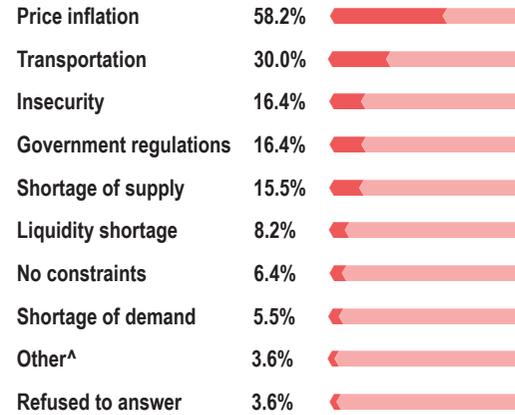
# Petrol Prices

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.

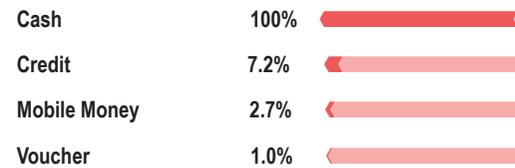
## MOST REPORTED CONSTRAINTS FOR: FUEL VENDORS\*



<sup>^</sup>Includes exchange rate and currency fluctuations

\*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%

## MEDIAN PETROL PRICE BY DISTRICT (YER)

Governorate	District	Petrol Price
Aden	Ash Shaikh Outhman	340
Aden	Khur Maksar	340
Al Bayda	Rada'	370
Al Hudaydah	Al Hawak	365
Al Hudaydah	Al Qanawis	365
Al Hudaydah	Alluheyah	450

Governorate	District	Petrol Price
Al Hudaydah	Zabid	375
Amran	Amran	365
Amran	Jabal Iyal Yazid	365
Hajjah	Al Mahabishah	375
Hajjah	Ash Shaghadirah	365
Hajjah	Bani Qa'is	365
Hajjah	Kuhlan Affar	365
Hajjah	Qafil Shamer	375
Ibb	Al Makhadir	365
Lahj	Al Milah	340
Lahj	Tuban	340
Marib	Marib	N/A
Marib	Marib City	N/A
Sa'ada	Saqayn	365
Sana'a	Al Haymah Ad Dakhiliyah	365
Sana'a	Bani Matar	370
Sana'a	Sanhan	365
Sana'a City	Al Wahdah	365
Sana'a City	As Sabain	365
Sana'a City	Ath'thaorah	365
Sana'a City	Ma'ain	365
Sana'a City	Shu'aub	365
Taizz	Al Mukha	360
Taizz	Al Ma'afer	360
Taizz	Al Mawasit	375
Taizz	As Silw	<b>500</b>
Taizz	At Ta'iziyah	365
Taizz	Dimnat Khadir	365
Taizz	Jabal Habashy	360

<sup>^</sup>Bold Red indicates an outlier

\*NA indicates that, in the specific location, fuel was reported unavailable.

## OVERVIEW OF WATER TRUCKING

**64%** of water trucking vendor KIs stated that they charged delivery costs based on the distance between the water source and the delivery point. The average price for an additional 5km is **7,000 YER** and **10,000 YER** for an additional 10 km.

**55%** of water trucking vendor KIs stated that they sell non-chlorinated water.

**20%** of water trucking vendor KIs stated that they sell chlorinated water. Additionally, 25% of water trucking vendor KIs reported being unaware whether or not the water they sold was chlorinated.

**91%** of water trucking vendor KIs reported sourcing water from a pumping station or a borehole.

**4%** of water trucking vendor KIs reported sourcing water from a treatment station.

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

## PAYMENT MODALITIES ACCEPTED: WATER TRUCKING\*

Cash	100%	
Credit	4.3%	

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

## MEDIAN WATER TRUCKING PRICE BY DISTRICT (YER)

Governorate	District	Water Trucking Price
Aden	Ash Shaikh Outhman	1000
Aden	Khur Maksar	5000
Al Bayda	Rada'	720
Al Hudaydah	Al Hawak	N/A
Al Hudaydah	Al Qanawis	5000
Al Hudaydah	Alluheyah	<b>12000</b>

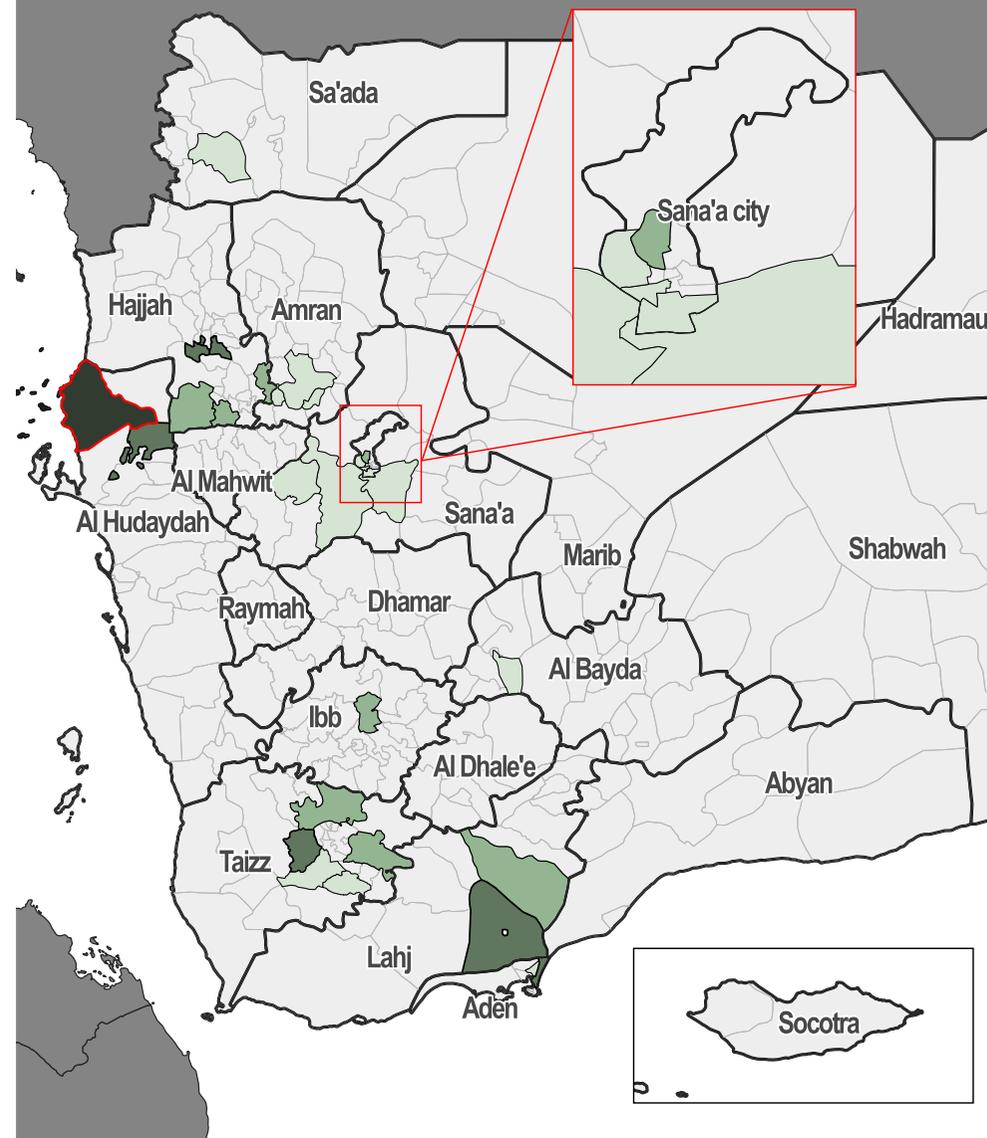
Governorate	District	Water Trucking Price
Al Hudaydah	Zabid	N/A
Amran	Amran	1000
Amran	Jabal Iyal Yazid	900
Hajjah	Al Mahabishah	2667
Hajjah	Ash Shaghadirah	2000
Hajjah	Bani Qa'is	2000
Hajjah	Kuhlan Affar	2000
Hajjah	Qafil Shamer	3000
Ibb	Al Makhadir	2000
Lahj	Al Milah	1500
Lahj	Tuban	3250
Marib	Marib	N/A
Marib	Marib City	N/A
Sa'ada	Saqayn	780
Sana'a	Al Haymah Ad Dakhiliyah	1000
Sana'a	Bani Matar	714
Sana'a	Sanhan	720
Sana'a City	Al Wahdah	1000
Sana'a City	As Sabain	1000
Sana'a City	Ath'thaorah	1750
Sana'a City	Ma'ain	800
Sana'a City	Shu'aub	N/A
Taizz	Al Mukha	N/A
Taizz	Al Ma'afer	900
Taizz	Al Mawasit	1000
Taizz	As Silw	N/A
Taizz	At Ta'iziyah	2000
Taizz	Dimnat Khadir	2000
Taizz	Jabal Habashy	5000

*^Bold Red indicates an outlier*

*\*NA indicates that, in the specific location water trucking was reportedly unavailable.*

## 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	Ash Shaikh Outhman	Aden	2 / 10	Marib	Marib	N/A ~	0 / 7
Aden	Khur Maksar	Aden	2 / 10	Marib	Marib City	N/A ~	0 / 4
Al Bayda	Rada'	Do Not Know <sup>~</sup>	3 / 3	Sa'ada	Saqayn	Do Not Know <sup>~</sup>	4 / 4
Al Hudaydah	Al Hawak	al Hudaydah	4 / 4	Sana'a	Al Haymah Ad Dakhiliyah	Sana'a	1 / 3
Al Hudaydah	Al Qanawis	al Hudaydah	3 / 3	Sana'a	Bani Matar	Do Not Know <sup>~</sup>	3 / 3
Al Hudaydah	Alluheyah	al Hudaydah	3 / 3	Sana'a	Sanhan	Do Not Know <sup>~</sup>	3 / 3
Al Hudaydah	Zabid	al Hudaydah	11 / 11	Sana'a City	Al Wahdah	al Hudaydah	3 / 3
Amran	Amran	al Hudaydah	2 / 5	Sana'a City	As Sabain	al Hudaydah	2 / 5
Amran	Jabal Iyal Yazid	al Hudaydah	2 / 5	Sana'a City	Ath'thaorah	al Hudaydah	3 / 3
Hajjah	Al Mahabishah	al Hudaydah	2 / 3	Sana'a City	Ma'a'in	al Hudaydah	4 / 7
Hajjah	Ash Shaghadirah	al Hudaydah	3 / 6	Sana'a City	Shu'aub	Marib	3 / 3
Hajjah	Bani Qa'is	al Hudaydah	3 / 8	Taizz	Al Mukha	Aden	3 / 3
Hajjah	Kuhlan Affar	al Hudaydah	2 / 5	Taizz	Al Ma'afer	Lahj	1 / 7
Hajjah	Qafil Shamer	Hajjah	3 / 3	Taizz	Al Mawasit	Lahj	1 / 7
Ibb	Al Makhadir	Sana'a	5 / 6	Taizz	As Silw	Taizz	3 / 3
Lahj	Al Milah	Aden	1 / 3	Taizz	At Ta'iziyah	Sana'a	8 / 9
Lahj	Tuban	Aden	4 / 10	Taizz	Dimnat Khadir	N/A ~	6 / 6
				Taizz	Jabal Habashy	Lahj	7 / 14

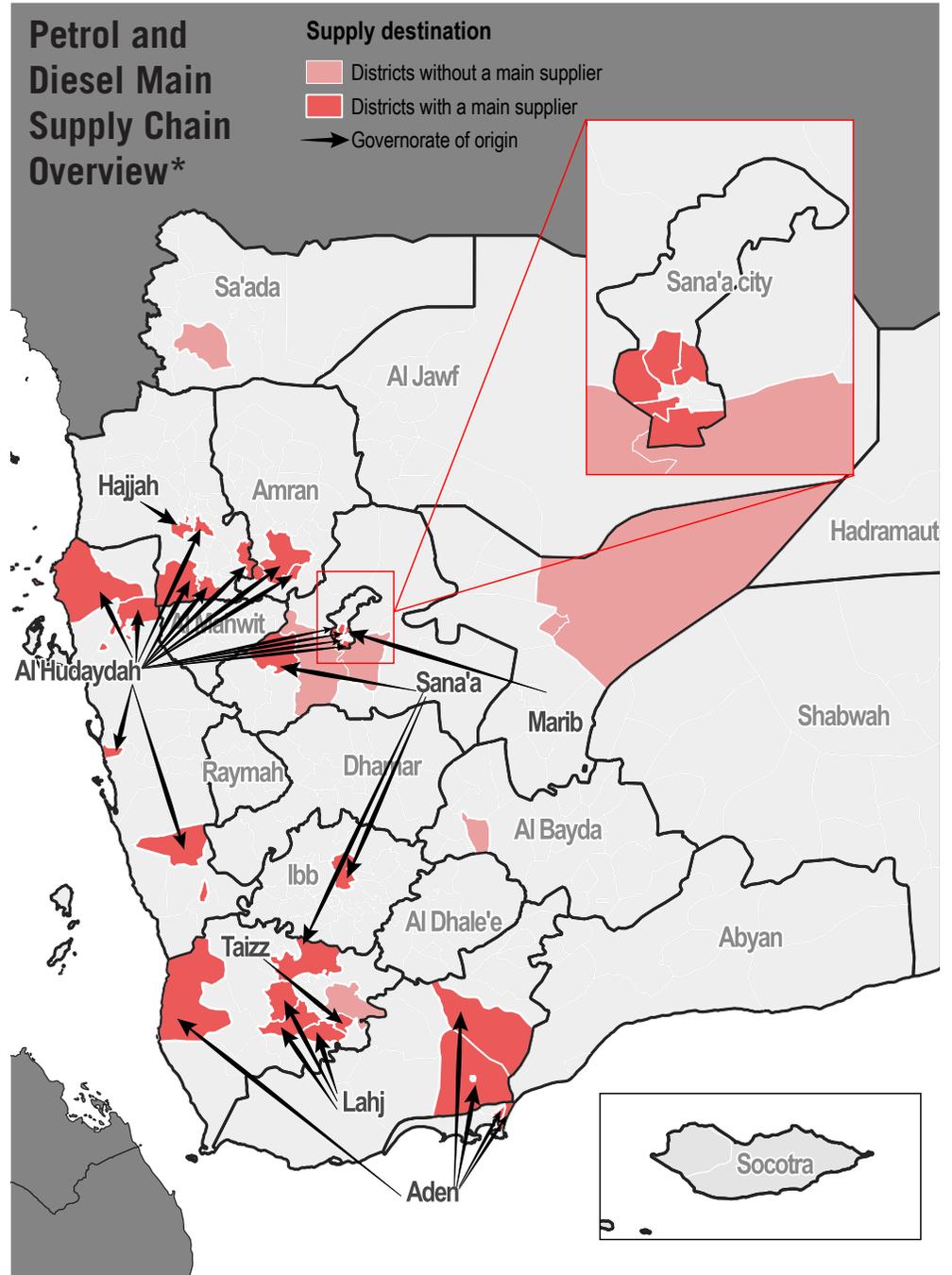
<sup>A</sup>If the number is 4/10 (e.g.), this indicates that 10 vendor KIs were interviewed, of those, 4 answered the supply question.

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

<sup>\*</sup>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.

~ Fuel prices and vendors were not available in district

<sup>~</sup>Do Not Know was a potential option that could be selected by respondents

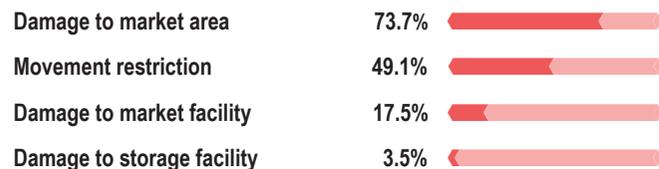


# SUPPLY CHAIN OVERVIEW FOR YEMEN

## 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, 59% of the assessed KIs responded that they did not face any concerns compared to 41% 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\*

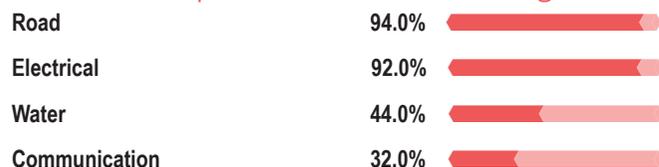


\*Values do not add up to 100% as vendor KIs were allowed to select multiple options.

## 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	340	370	150	75	500
al Hudaydah	365	430	160	110	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 petrol, diesel, soap, and laundry powder originating from Aden being cheaper than in al Hudaydah, while nothing was cheaper in al Hudaydah.

## AVERAGE RESTOCKING TIME (DAYS)

-CHANGE IN DAYS FROM NOVEMBER 2019 IN BRACKETS -

Governorate	Fuel Items	WASH Items
Aden	3 (1)	2 (0)
Al Bayda	NA	NA
Al Hudaydah	8 (-5)	5 (-8)
Amran	5 (0)	2 (0)
Hajjah	8 (-1)	5 (-9)
Ibb	8 (-1)	1 (-8)
Lahj	3 (0)	5 (0)
Marib	NA	2 (-4)
Sa'ada	NA	NA
Sana'a	1 (0)	1 (0)
Sana'a City	3 (-1)	2 (0)
Taizz	5 (0)	2 (-1)

\* NA indicates that the specific question was not answered by the KIs

## 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, vendor KIs were asked if they would be able to increase their stock by 50% and 100% respectively. KIs are better able to 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 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.

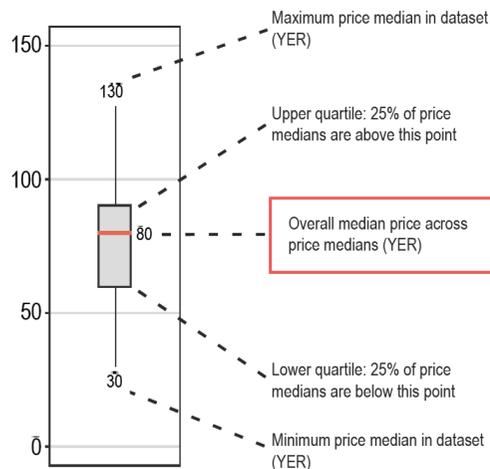
## LIMITATIONS

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](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
Amran	2
Hajjah	5
Ibb	1
Lahj	2
Marib	2
Sa'ada	1
Sana'a	3
Sana'a City	5
Taizz	7

## PARTICIPATING PARTNERS INCLUDE

