

Water supply vulnerability - 2018

Hashemite Kingdom of Jordan



MINISTRY OF
WATER AND IRRIGATION

Supported by :



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Vulnerability index based on the below indicators :

1. Water network age 2018 [10%]
2. Water network coverage 2018 [20%]
3. Water network losses as leakage 2018 [20%] *
4. Operation and maintenance Needs 2018 [15%] **
5. Average consumption Vs Standard consumption 2018 [15%]
6. Poverty [10%] ***
7. The proportion of Syrian refugees [10%]

*Water network losses as leakage is an estimation based on mathematic approach.

** This indicator is newly added to the vulnerability map, it's a calculation of the # of maintenance teams in comparison with the received complaints.

*** Poverty based on 2010 census in addition to the Syrian percentage considered with high poverty for water expenses.

Notes:

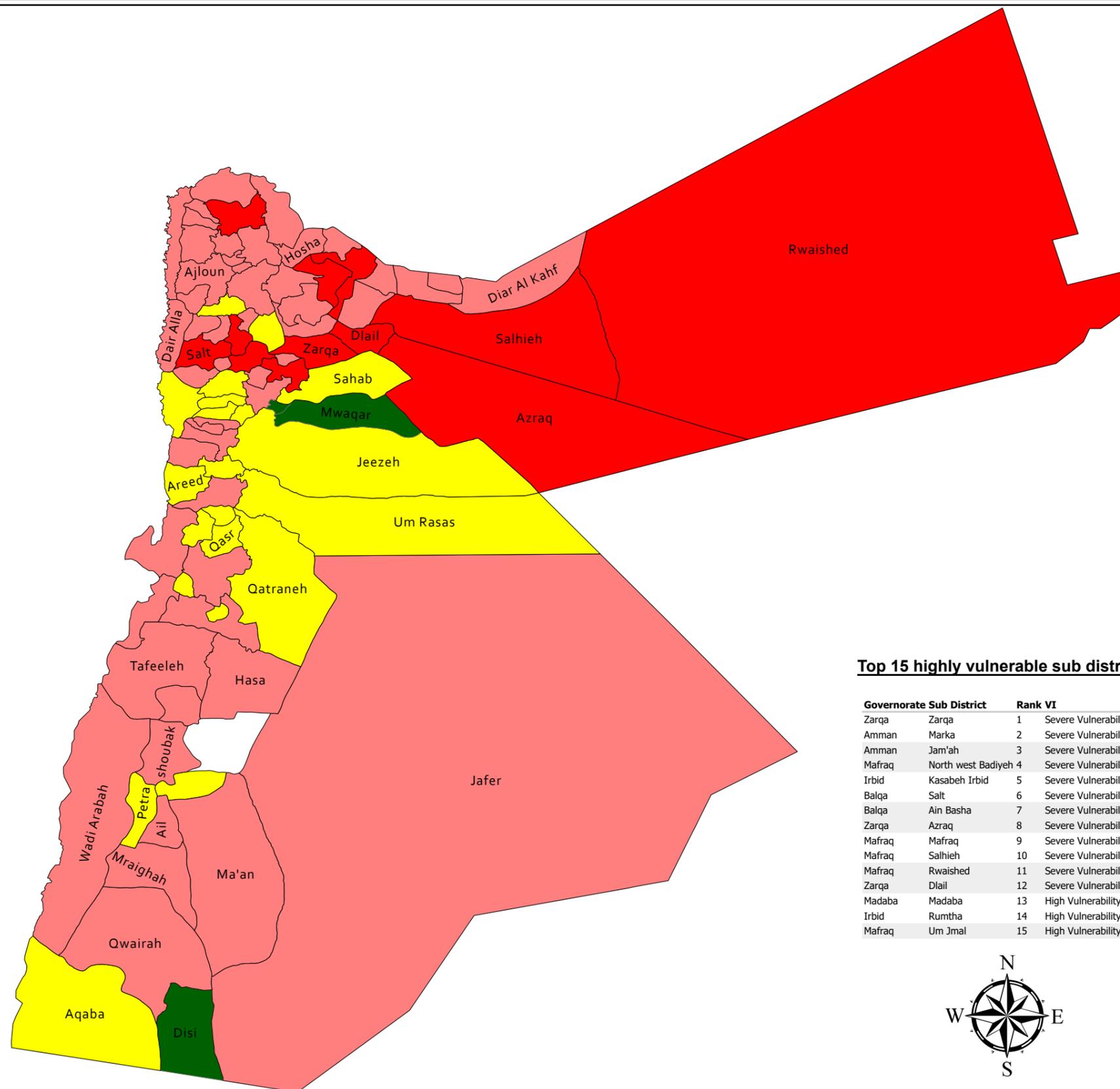
1. This map reflecting quantitative indicators, The vulnerability is measured by the water supply from the official water resources managed by MWI. the quality of the water confirmed by the ministry that it's aligned with the standards.

2. Network coverage, standard consumption and water network losses are indicates the operation and maintenance vulnerability for the network.

Legend

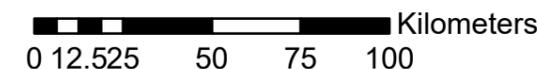
Water_2018_Index_correction

- Below or equal 0% : Low Vulnerability
- (0% to 25%] : Moderate Vulnerability
- (25% to 50%] : High Vulnerability
- Above 50% : Severe Vulnerability



Top 15 highly vulnerable sub districts:

Governorate	Sub District	Rank	VI
Zarqa	Zarqa	1	Severe Vulnerability
Amman	Marka	2	Severe Vulnerability
Amman	Jam'ah	3	Severe Vulnerability
Mafraq	North west Badiyeh	4	Severe Vulnerability
Irbid	Kasabeh Irbid	5	Severe Vulnerability
Balqa	Salt	6	Severe Vulnerability
Balqa	Ain Basha	7	Severe Vulnerability
Zarqa	Azraq	8	Severe Vulnerability
Mafraq	Mafraq	9	Severe Vulnerability
Mafraq	Salhieh	10	Severe Vulnerability
Mafraq	Rwaished	11	Severe Vulnerability
Zarqa	Dlail	12	Severe Vulnerability
Madaba	Madaba	13	High Vulnerability
Irbid	Rumtha	14	High Vulnerability
Mafraq	Um Jmal	15	High Vulnerability



Data source:

1. Water network parameters such as age, coverage, maintenance teams, complaints received and billed amounts 2018: collected by Ministry of water and Irrigation (PMU). Source from: WAJ, Yarmouk, Miyahuna, Aqaba and Jordan Valley Authority.

2. Population : Census 2015 - The Department of Statistics (DoS)

3. Poverty: Census 2010 - The Department of Statistics (DoS)