Food and Agriculture Organization of the United Nations

Damage to agricultural wells due to the conflict in the Gaza Strip as of 31 December 2023

Legend
- ⬡ 0
- 01 - 5%
- 5 - 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%
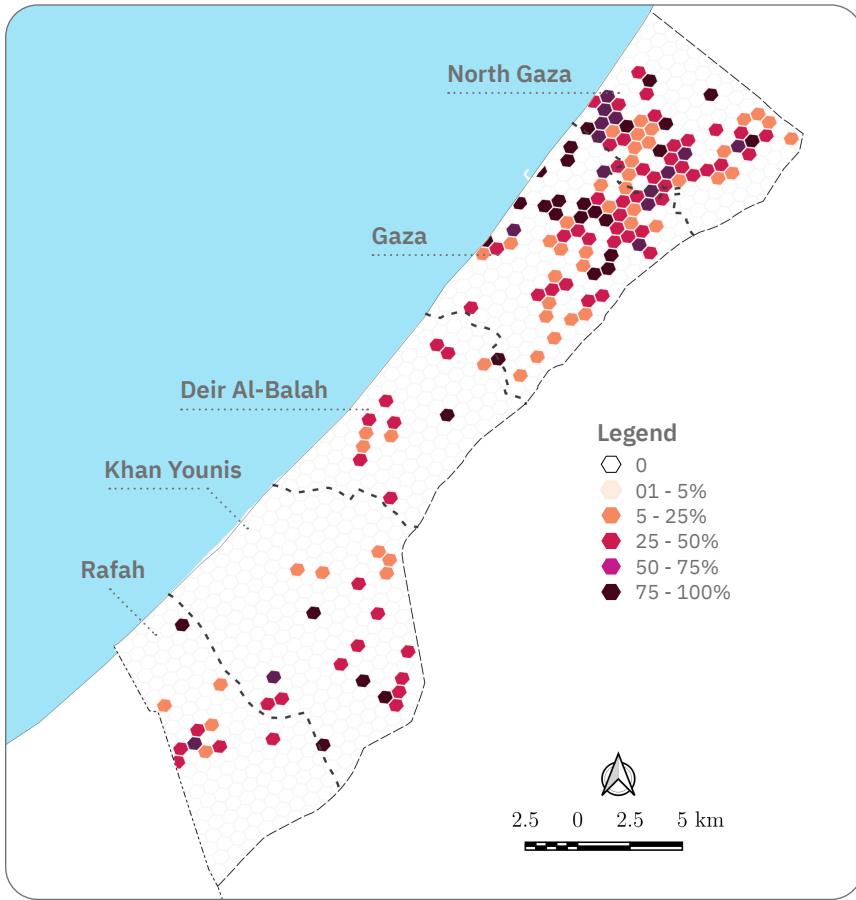
Damage to agricultural wells

The damage to agricultural wells was estimated using the available Sentinel 1 SAR images on October 12, 13, 24, 25, December 11, 12, 22 and 23.

This is a proxy measure of damage estimated by implementing the so-called coherence change detection (CCD) algorithm. Three image pairs were used — two pre-event sets and one post-event set.

The coherence layers were calculated for each pair to assess the changes. This damage proxy map (DPM) detects the changes in the built-up area.

The number of damaged agricultural wells was calculated based on their location within a 15-meter radius area around a damaged site. The grid depicts the severity of damage in localised areas; in each tile number of damaged wells was divided by the total number of wells.
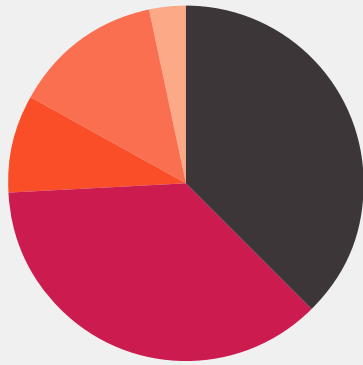
Damaged wells by Governorate

Governorate			percent
North Gaza	614	184	30%
Gaza	609	178	29.2%
Deir Al-Balah	464	44	9.5%
Khan Younis	410	66	16%
Rafah	164	16	9.8%
Total	2 261	488	21.6%

⚠ Key messages

1. **The total number of damaged agricultural wells in the Gaza Strip was 488.**

2. **The governorate of North Gaza had the largest number of damaged wells (184 damaged).**

3. **The governorate of Gaza had the second largest damage to wells (178 damaged).**

This infographic relates specifically to agricultural wells and does not include well rooms, a different feature of agricultural infrastructure.