

## Damage to agricultural wells due to the conflict in the Gaza Strip as of 20 May 2024



Proportional damage to agricultural wells in the Gaza Strip

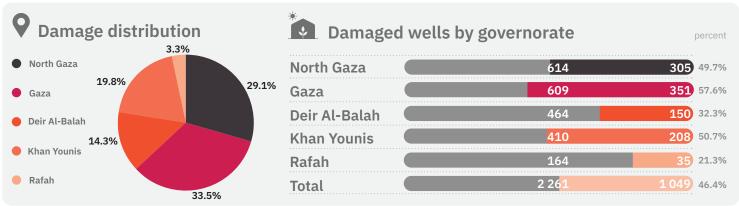


## Damage to agricultural wells

Utilising a baseline agricultural well layer and very high-resolution satellite imagery, FAO conducted an assessment of the number of agricultural wells damaged in the Gaza Strip as a result of the recent conflict escalation.

The damage was estimated using Sentinel-1 SAR imagery from 4, 5, 16, 17, 28, 29 January, 9, 10, 21, 22 February, 4, 5, 16, 28, 29 March, 9, 10, 21, 22 April and 3, 4, 15,16 May. The number of damaged agricultural wells was calculated based on their location within a 15-meter radius area around a damaged site.

A thorough evaluation of damage to agricultural wells was performed, overlaying the agricultural well layer with the damage layer (damage proxy map) from 20 May 2024. The grid depicts the severity of damage in localised areas; in each tile the number of damaged agricultural wells was divided by the total number of agricultural wells.





## Key messages

- 1. The total number of damaged agricultural wells in the Gaza Strip was 1 049 (46.4%).
- 2. The governorate of Gaza had the largest number of damaged wells (351 damaged).
- 3. The governorate of North Gaza had the second largest number of damaged wells (305 damaged).

This assessment has been conducted based on available satellite imagery, ancillary data and remote sensing analysis for the period 7 October - 15 February 2024 without field validation.

Agricultural well data from 2021 was used as baseline data due to limited availability for data collection in the area of interest and time constraints related to the nature of the report.

This assessment was conducted by the Geospatial Unit at the Land and Water Division (NSL) of FAO and will be further complemented with additional field assessment and use of very high-resolution integers.

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