OCCUPIED PALESTINIAN TERR **GAZA STRIP**

Beit Hanoun

Beit Lahia North Gaza

Gaza

Gaza

Al-Zahraa Al-Mughraqa

Nuseirat

Deir Al-Balah

Deir Al-Balah

Al-Breij

Al-Maghazi

Khan Younis

Khan Younis

abalia

IMAGERY ANALYSIS: 28 July 2024 / PUBLISHED: 31 July 2024 / V1







Governorate	Non-affected cropland (sq km)		Damaged cropland (sq km)		Total area of cropland (sq km)
North Gaza	7.4	24%	23.9	76%	31.3
Gaza	8.6	27%	22.9	73%	31.5
Deir Al-Balah	10.6	41%	15.2	59%	25.9
Khan Younis	17.7	41%	25.1	59%	42.8
Rafah	8.6	45%	10.4	55%	19.0
Total	52.9		97.6		150.5

CROPLAND DAMAGE

Non-affected cropland (sq km) Damaged cropland (sq km)





UNOSAT Damage to **Cropland Overview Map**

This map illustrates satellite-detected changes in cropland areas of the Gaza Strip resulting from the decline in the health and density of crops due to the ongoing conflict. UNOSAT conducted an analysis utilising satellite imagery collected by the Sentinel-2 satellite between July 2017 and 2024, performing a Normalized Difference Vegetation Index (NDVI) analysis as well as a multitemporal classification to identify notable changes taking place in agricultural areas during that timeframe. The methodology evaluated the damage as a decline in the health and density of crops in July 2024, in comparison to the preceding seven seasons spanning from 2017 to 2024. The decline in the health and density of the crops can be observed due to the impact of activities such as razing, heavy vehicle activity, bombing, shelling, and other conflict-related dynamics. The analysis includes damage assessment for orchards and other trees field crops and vegetables. UNOSAT analysis shows that the agricultural extent in the Gaza Strip is estimated to be 150 sq. km, accounting for approximately 41% of the total area of the Gaza Strip, following an extensive land-cover analysis.

Compared to the average of the previous seven years, approximately 65% of the permanent crop fields in the Gaza Strip exhibited a significant decline in health and density in July 2024. In a comprehensive evaluation, it was found that there has been a 4% increase in the proportion of cropland that has been damaged since the previous analysis conducted in June 2024. Additionally, the analysis indicates a notable rise in the destruction of the orchards and other trees, field crops and vegetables in the Gaza Governorate, with a 4-percentage point increase compared to the previous June 2024 analysis. Moreover, there has been a notable escalation in the destruction of cropland within the Rafah Governorate, with the percentage rising from 52% in June 2024 to 55% in July 2024. This is a preliminary analysis and has not yet been validated in the field.

CROPLAND (SQ KM) 22.9 23.9 15.2 10.4 17.7 10.6 8.6 8.6 7.4 NORTH GAZA DEIR AL-KHAN RAFAH YOUNIS GAZA BALAH

Legend Damaged cropland Non-affected cropland Populated place 0 Primary road Inset 2 Secondary road Armistice Demarcation Line Rafah Governorate boundary Rafah International boundary The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations. Satellite Imagery (2): WorldView-02 Boundaries: OCHA oPt Roads: OSM Food and Agriculture Map scale for A3: 1:125,000 Analysis: UNOSAT/FAO Organization of the 0.75 1.5 3 KM Product: UNOSAT

Bani Sohaila Big Absan

Spatial Reference Name: WGS 1984 UTM Zone 36N PCS: WGS 1984 UTM Zone 36N GCS: GCS WGS 1984 Datum: WGS 1984

Satellite Imagery (1): Sentinel-2 Imagery Date: July 2017-2024 Resolution: 10 m Copyright: Contains modified Copernicus Sentinel data [2024] Source: European Space Agency

Imagery Date: 23 June 2024 Resolution: 50 cm Copyright: © MAXAR 2024 Source: Department of State, Humanitariar Information Unit

United Nations

United Nations Satellite Centre (UNOSAT) - 7 bis Avenue de la Paix, CH-1202 Geneva 2, Switzerland - T: +41 22 917 4720 (UNOSAT Office) - Hotline 24/7 : +41 75 411 4998 - unosat@unitar.org - www.unosat.org/products