



d Syrians 8 Unexiploded Ordnatnce Threatens FeooSedurity in Sydr

Figure 2: Syrian Land Cover and Land Use Compared to UXO Model²

Before the warSyria was one of the Middle East's key agricultural producersstathed 2020, agriculture contributed to roughly 33% of Syria's gross domestic productompared to 23% in 2012. The Euphrates and Jazira regions in the theast have the human and natural resource capacities to meetabout 60% of Syria's foodsupply needs. Yet he Jazira region has witnessed a serious decline in agricultural oduction because of conflict, with some region seporting losses as high as 90 fc critical crops including wheat and barley As Figure 2 shows, agricultural areas—highlighted in yellow—are saturated with UX (marked in black, particularly in the agricultural rich northeast region fao 1 (0 (U) 7 o) - 2 (n) 6 wnll 4 (al c) c - 0. Tm [(a(l) 4 (Tj (l) 4 (Tj

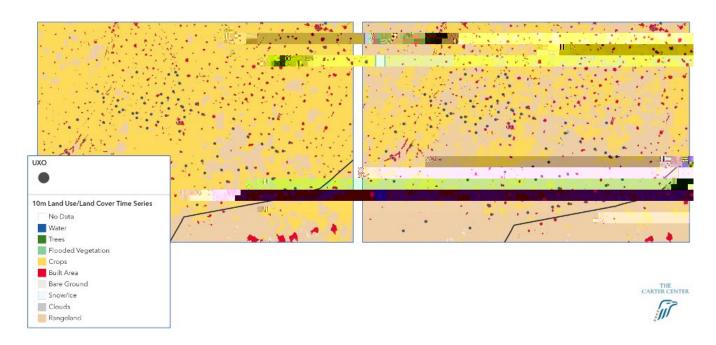


Figure 3: Land Use and Land Cover changes from 01/01/2020 - 08/07/2020 to 08/07/2020 - 03/14/20213

Recent evidence of the fear that UXO instill agricultural areas isighlighted in the Conflict Events Database On 6 January 2023, an unexploded shell from previous clashes exploded in farmlands in the vicinity of Zardana Mashehad town in Idleb countryside, killing an IDP [internally displaced person] child." ⁴

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³ Figure 3 depicts changes in LULC from 01/01/2020/07/2022 to 08/07/2022 -03/14/2021 comparedo the UXO modelAgain,land use/land cover is derived from ESA Sent2niethagery at 10meter resolution. Reduction in crop cover in culmination with UXO presence is suggestive of reduced crop production. Movement in crop cover becausef UXO presencehists crop production from high-ielding areas to areas that are likely not as productive. Furthermore, UXO presence can significantly hinder a region system performance by reducing crop land to work with.

⁴ The Carter Center's Data and Analysism relies on reported conflict events, independent media analysis, information from partners (ACLED), and interlocuters in Syria to form a databaseflict events in SyriaConflict events can be leveraged to determine areas of control, actors, or specific types of events. In this case, the database is filtered for evidence of unexploded ordnance detonation irically ure areas. These are tweexamples of many.



Water Resources and Food Systems

The impact of unexploded ordnance on water resources also harms Syria's food **by**stem damaging the agricultural irrigi**an** system Whenchemicals from dormant UXO seep into soil and water, itcontaminates surrounding resources