

Services and Infrastructure in Return Areas (SIRA) Shirqat Town and East Bank

Returns Working Group

26 March 2019

Research Objectives

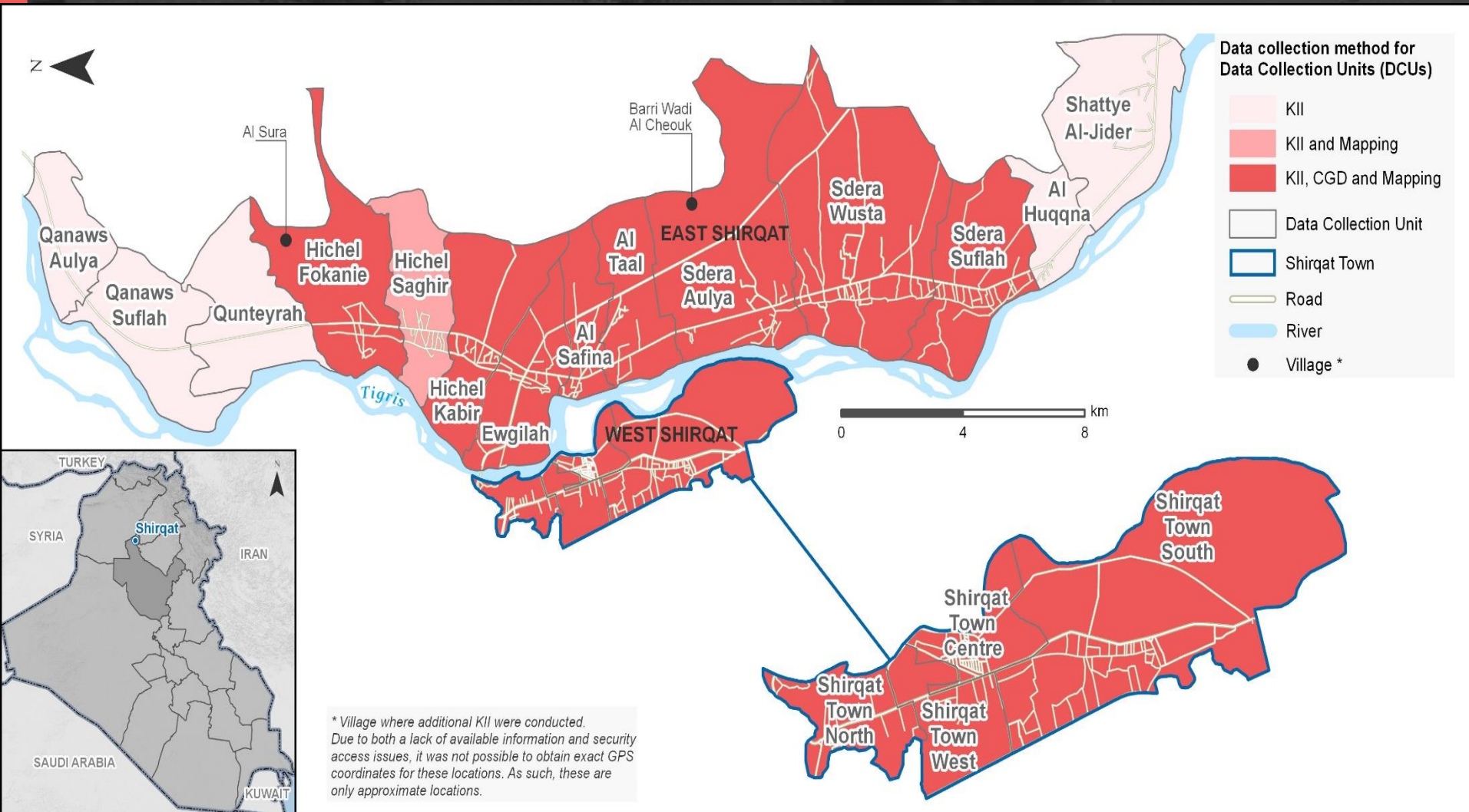
General Objective

Inform evidence-based humanitarian programming and service delivery through providing detailed information regarding service provision in selected areas of origin for IDPs who are likely to be returning.

Specific Objectives

- Provide support to CCCM Cluster programming in facilitating sustainable returns during camp consolidation/phase out processes.
- Support evidence-based advocacy efforts related to camp consolidation and returns.
- Provide an overview of conditions in the area to humanitarian actors who are implementing emergency interventions. In particular to:
 - Define and profile the area selected.
 - Identify and map the availability and accessibility of services within the defined area, highlighting key gaps and barriers to service provision.
 - Gauge the perceptions and expectations of residents regarding service delivery.

Area of Analysis



Assessment Methodology

The SIRA consists of various data collection tools based on a qualitative methodology:

Community Leaders KIs

- 28 community leader KIs conducted; at least one per DCU
- Multi-sectoral questionnaire

Community Group Discussions

- 24 Community Group Discussions (CGDs) 2 per neighbourhood / village (male/female)
- Multi-sectoral questionnaire

Service Providers KIs

- 24 Subject Matter Expert (SME) KIs conducted.
- Electricity, Water, Waste Management, Health, Education, Livelihoods and Legal experts

Participatory Mapping

- Participatory mapping sessions conducted in 13 DCUs (where security permitted)
- 10 neighbourhood maps
- Additional GIS analysis conducted

*Data was collected from 21 October to 22 November 2018



Key Findings

Background and context

Background

- Most of Shirqat District population was displaced during the crisis, with ISIL taking control in June 2014.
- Shirqat town and the west bank of the Tigris retaken on September 2016, east bank retaken a year later.
- The east bank experienced a more intense level of conflict damage.

Population dynamics

- Primarily Sunni Arab population.
- Approximately 123,000 residents had returned at time of data collection.
- Intentions findings August 2018: only 5% of IDP households from the district planned to return in the next 12 months.

Key Findings

Basic Services

- Significant structural damage to services on east side during conflict.
- Both water and electricity services restored to a semi-functional level in most areas. Although water treatment consistently reported as a concern.
- Legal services have resumed to pre-crisis level, with the exception of the land registry not opening.

Healthcare

- Level of healthcare services reportedly far worse than before ISIL.
- Prescription medication no longer provided by the government, leading to increased reliance on more expensive private pharmacies.
- Destruction and theft of medical equipment, staff shortages, and increased cost of treatment has led to increased barriers in accessing treatment.

Key Findings

Education

- Reported staff shortages, overcrowded classes and a lack of teaching materials.
- Enrolment rates reportedly higher than pre-crisis levels due to lack of livelihood opportunities.

Livelihoods

- Lack of livelihood opportunities a major issue.
- Government and security forces previously primary employers, now few opportunities.
- Agriculture previously a major employer, but challenges for people to return due to a lack of capital, destruction and theft of equipment, and fear of land contamination.
- Increase in residents searching for work outside Shirqat.

Key Findings

Food and Markets

- PDS distributions were reportedly less frequent and of lower and less quality and quantity than pre-crisis levels.
- Cost of food and non-food items reported to have increased due to increased tariffs and checkpoints.

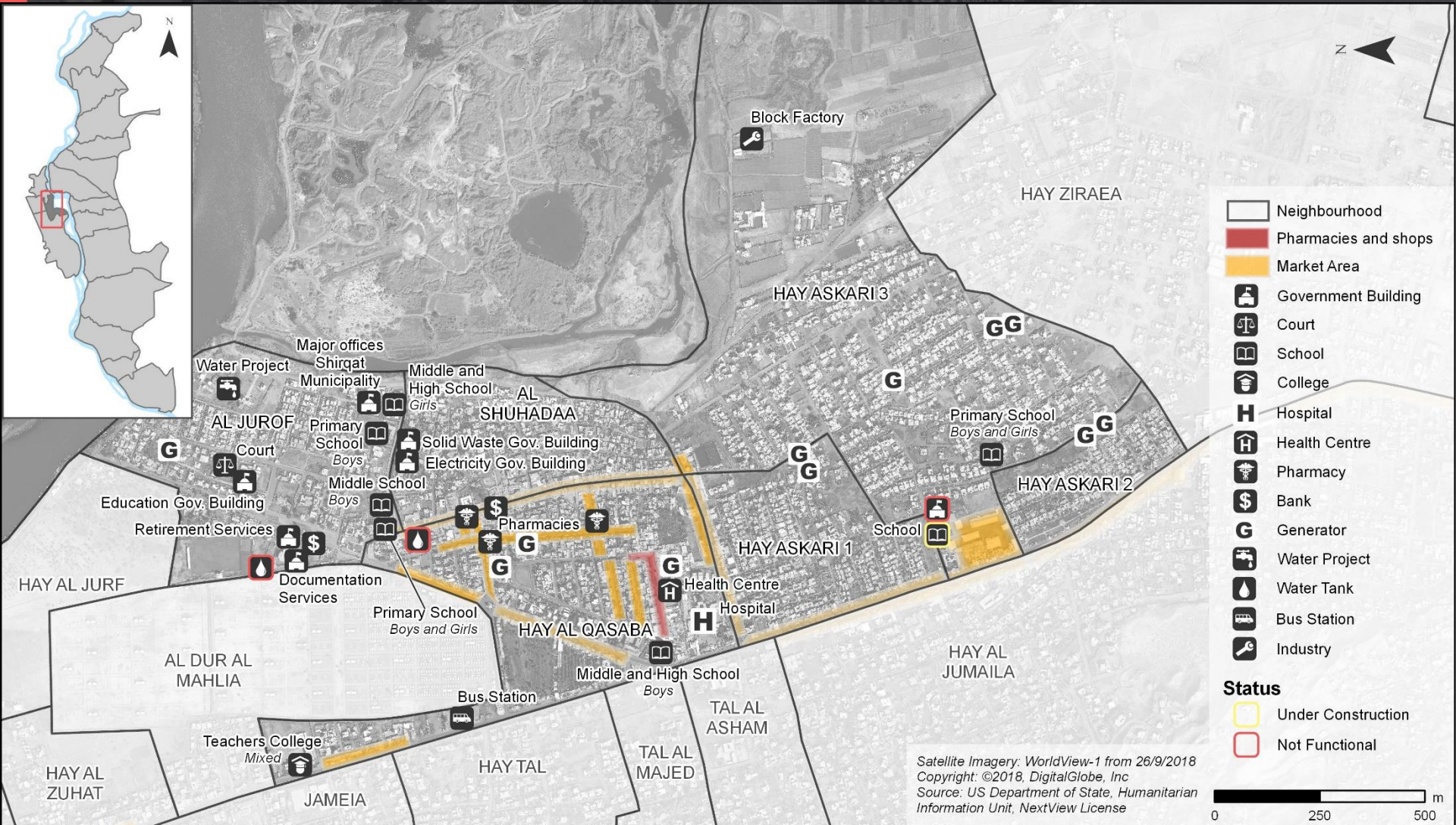
Shelter and Security

- Considerable shelter damage on the east bank, with much yet to be repaired.
- Armed groups still pose a considerable threat, with reports of movement and presence in nearby area.
- Reported areas of land contaminated with explosives, targeted attacks, and indiscriminate IEDs are all security concerns.
- East bank and rural areas have movement restrictions at night due to concerns over armed group movements.



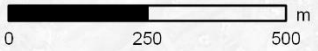
Mapping Outputs

Neighbourhood Map – Shirqat Town East

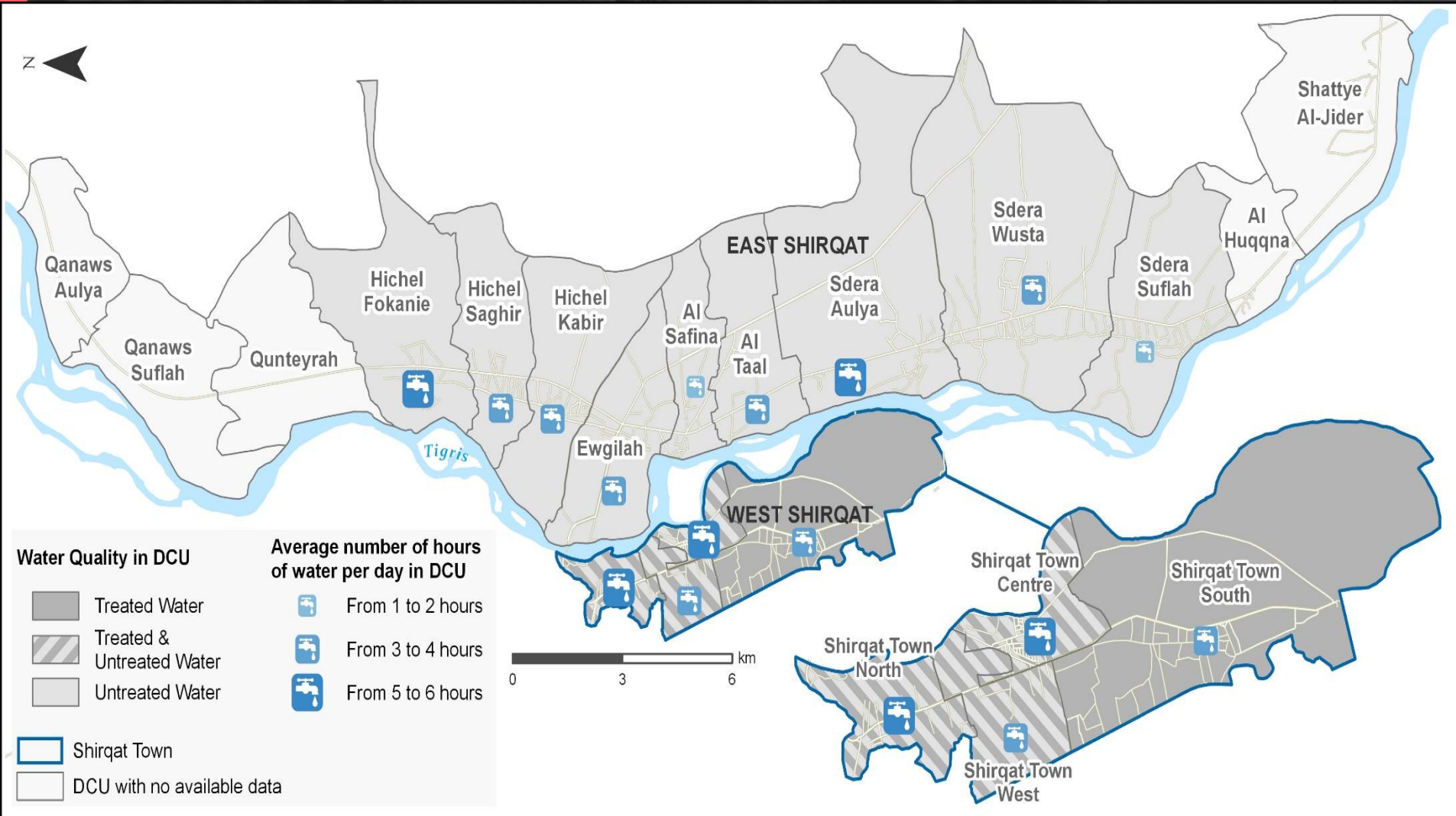


- Neighbourhood
 - Pharmacies and shops
 - Market Area
 - Government Building
 - Court
 - School
 - College
 - Hospital
 - Health Centre
 - Pharmacy
 - Bank
 - Generator
 - Water Project
 - Water Tank
 - Bus Station
 - Industry
- Status**
- Under Construction
 - Not Functional

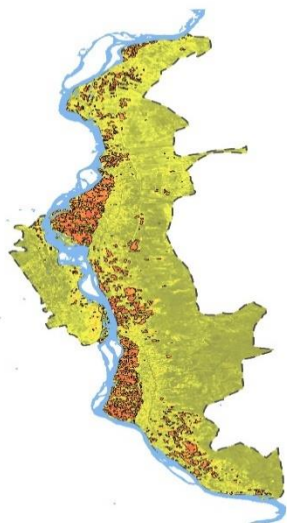
Satellite Imagery: WorldView-1 from 26/9/2018
 Copyright: ©2018, DigitalGlobe, Inc
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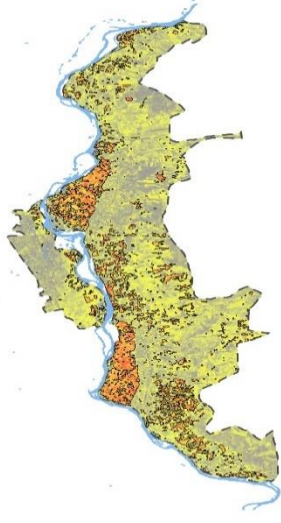
Reported Access to Water



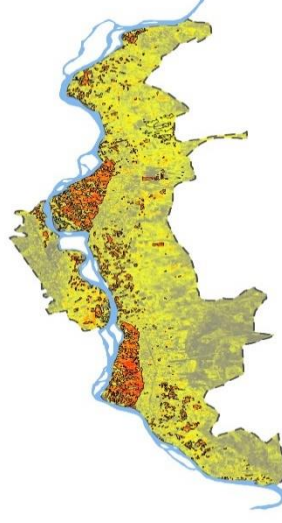
Changes in Agricultural Land-use 2014-2018



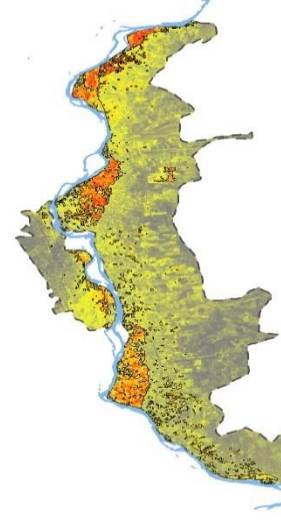
March 2014
Approximate Active
Farmland Area: 24 Km²
Classification Accuracy: 81%*



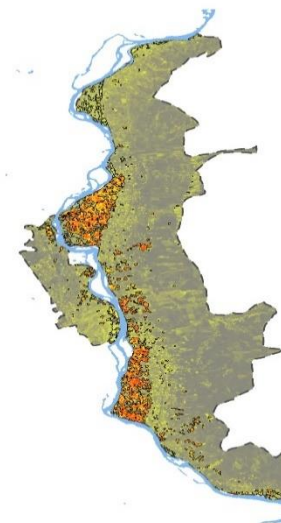
March 2015
Approximate Active
Farmland Area: 35 Km²
Classification Accuracy: 80%*



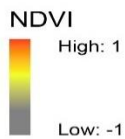
March 2016
Approximate Active
Farmland Area: 23 Km²
Classification Accuracy: 90%*



March 2017
Approximate Active
Farmland Area: 28 Km²
Classification Accuracy: 81%*



March 2018
Approximate Active
Farmland Area: 22 Km²
Classification Accuracy: 89%*



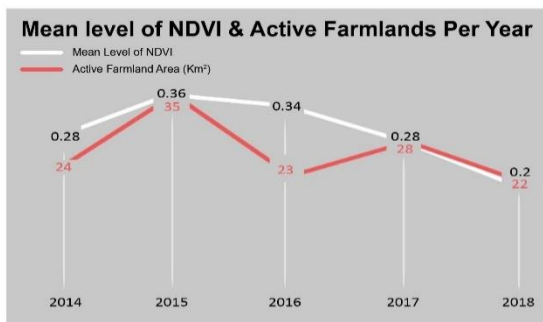
- Data Collection Area
- Active Agricultural Land
- River

* Classification accuracy: a series of stratified sample points were randomly spread on the data collection area, the classified image was compared at each point to a true colour composite image and the ratio of difference between the classified image and true colour composite was computed.

The normalized difference vegetation index (NDVI) is calculated using the Red and Near Infrared bands of a satellite image. NDVI is calculated from the visible and near infrared light reflected by vegetation, and is an indicator used to measure vegetation health and density. Healthy vegetation absorbs most of the visible light that hits it, and reflects a large portion of the near-infrared light. Unhealthy or sparse vegetation reflects more visible light and less near-infrared light. The resulting value range is between -1 and +1. A value closer to +1 represents denser vegetation, and a value closer to -1 represents barren areas of rocks or sand.

As reported in all KIs and CGDs, March is the peak month for agricultural cultivation in Shirqat, with crops at their highest yield pre-harvesting. Due to this, images from March over different years were selected from United States Geological Survey (USGS) Landsat 8 reflectance library to calculate and compare NDVI, and thus changes in vegetation health and density.

This was combined with a supervised classification to evaluate land use and identify active agricultural lands and water bodies, allowing comparison of approximate areas of active farmlands over time.





Source: USGS, data




THANK YOU FOR YOUR ATTENTION


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 IMPACT Initiatives

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