

Economic and Social Commission for Western Asia

The Arab Groundwater Knowledge Platform

Improved Groundwater Management in the Arab Region through Enhanced Data and Information
Access and Innovative technologies
Cairo, 30-31 October 2023

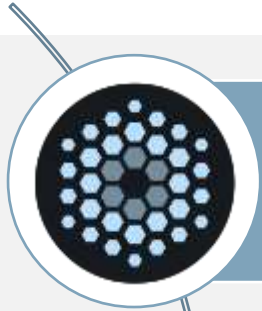


Shared Prosperity **Dignified Life**



Tracy Zaarour
Research Assistant
Climate Change and Natural
Resource Sustainability Cluster
tracy.zaarour@un.org

AGWKP Objectives



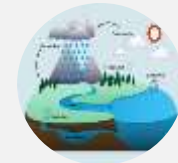
Centralized data focused on groundwater resources.



Improved water security.



Highly interactive and user-friendly platform system.

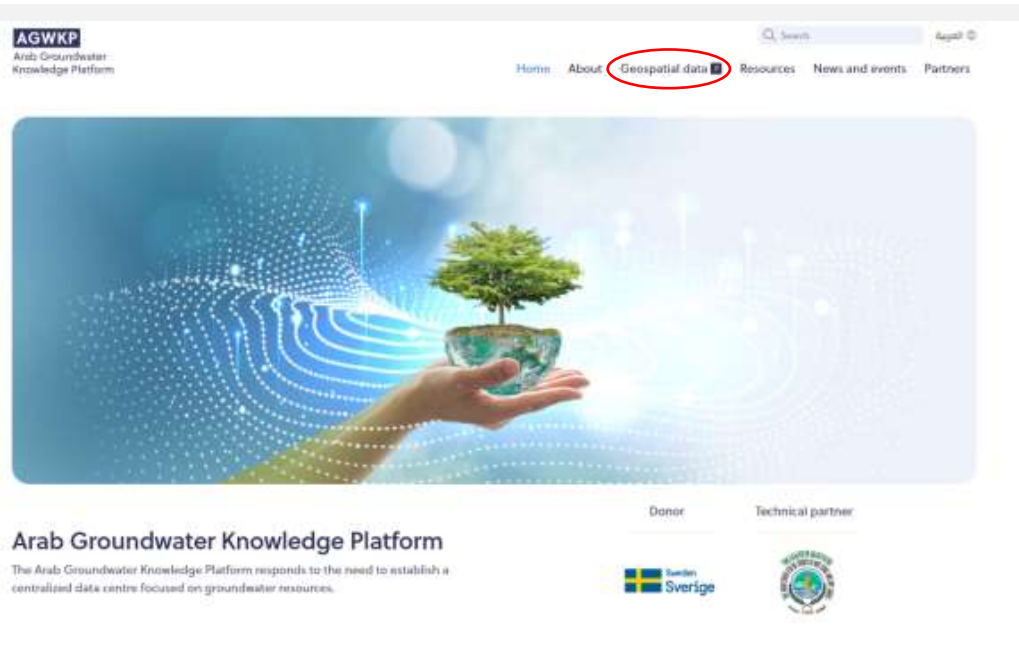


Multidimensional solutions

AGWKP Development & Management



Access to the AGWKP



Data available on the platform	Expected data in 2023-2024
Climate Data	
Precipitation	
RICCAR projections output	
Hydrogeology, Geology, Hydrology	
Inventory of Shared Water Resources	More national/regional hydrogeological maps
Transboundary Aquifers and surface water	
Hydrogeological maps national/regional	
WHYMAP- Groundwater Resources	
Managed aquifer recharge (MAR)	
Groundwater stress in major aquifers	
Saline and brackish Groundwater occurrence	
Fluoride probability of occurrence	
GRACE storage anomaly	
Biophysical data	
Areas equipped for irrigation with groundwater	NDVI
	Land cover/Land Use
Socio-economic data	
	Population & Urban Agglomeration

<https://agwkp.unescwa.org/>



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Potential Areas of Enhancement

High-resolution, Large-Scale Results

The screenshot displays the USGS Pennsylvania Groundwater Watch interface. At the top left is the USGS logo with the tagline "science for a changing world". A search bar is located at the top right. Below the header, the page title is "Pennsylvania Groundwater Watch - Wednesday, October 25, 2023", followed by navigation tabs for "Overview", "Adams", "Chester", "Montgomery", "Philadelphia", and "Pike".

The main content area is split into two panels. The left panel shows a map of the region around Scranton, PA, with a popup window for well PI 654. The popup contains the following information:

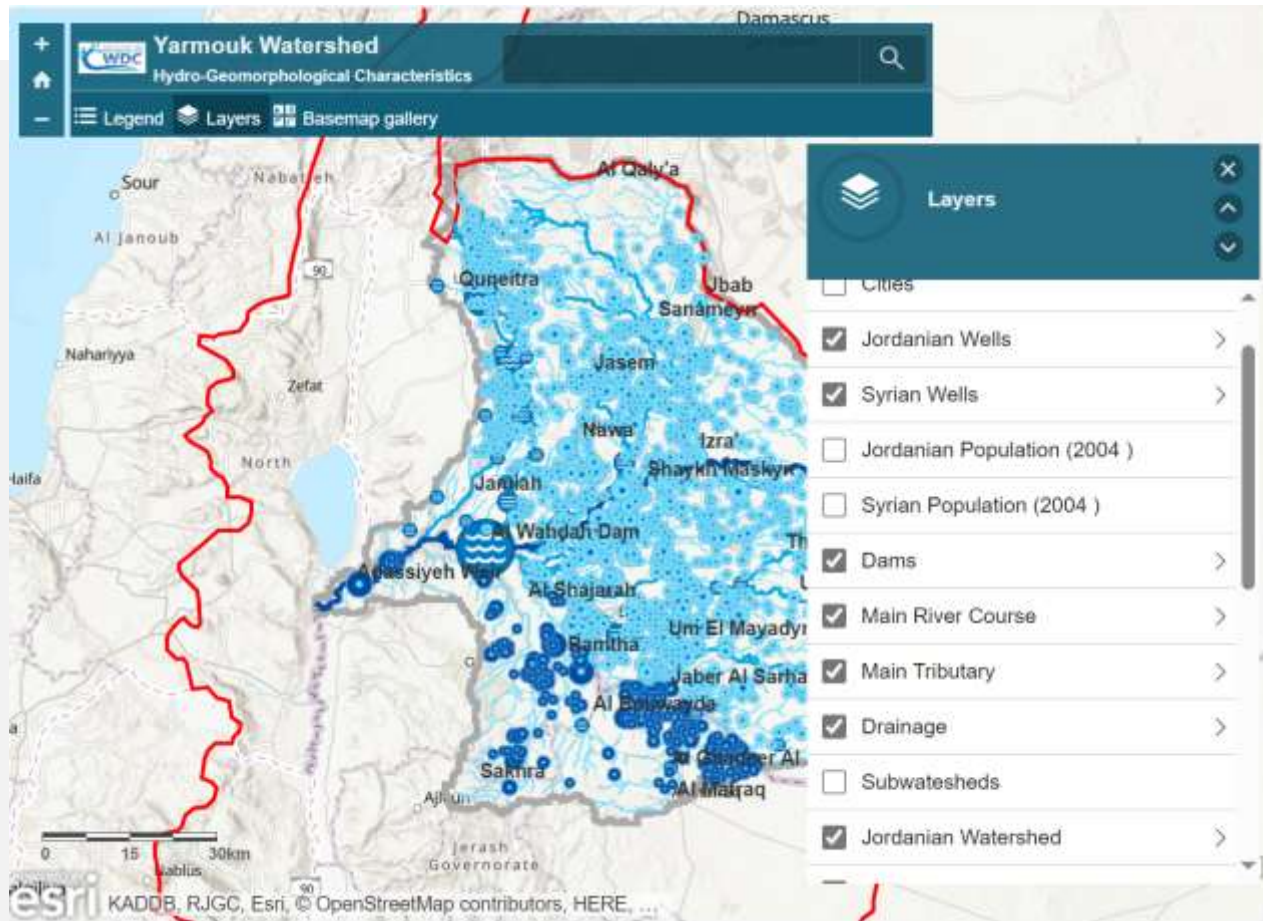
- Well name: PI 654
- Most recent water level: 10.2 ft below land surface
- Date of water level: 2023-10-17
- Years of record at this site: 5 years
- NWIS Webpage: [site data](#)

The right panel displays a table of periodic groundwater data for well PI 654. The table shows water levels in feet below land surface datum for the months of October, November, and December across seven different years. Below the table, a note states: "[All values are in feet below land surface datum. %ile; percentile]".

Below the table is a scatter plot titled "Periodic Groundwater Data" for well 411534074594401 - PI 654. The plot shows the depth to water level (feet below land surface) from 2019 to 2024. The y-axis ranges from 9 to 12 feet. The x-axis shows years from 2019 to 2024. Data points are categorized as "Approved" (blue dots) and "Provisional" (red dots). The plot shows a general trend of increasing depth to water level over the period, with a notable increase in 2023. The plot was created on 2023-10-26.

https://rconnect.usgs.gov/PAWSC_groundwater_watch/

Basin Level Data



Yarmouk Hydro-political Baseline Study

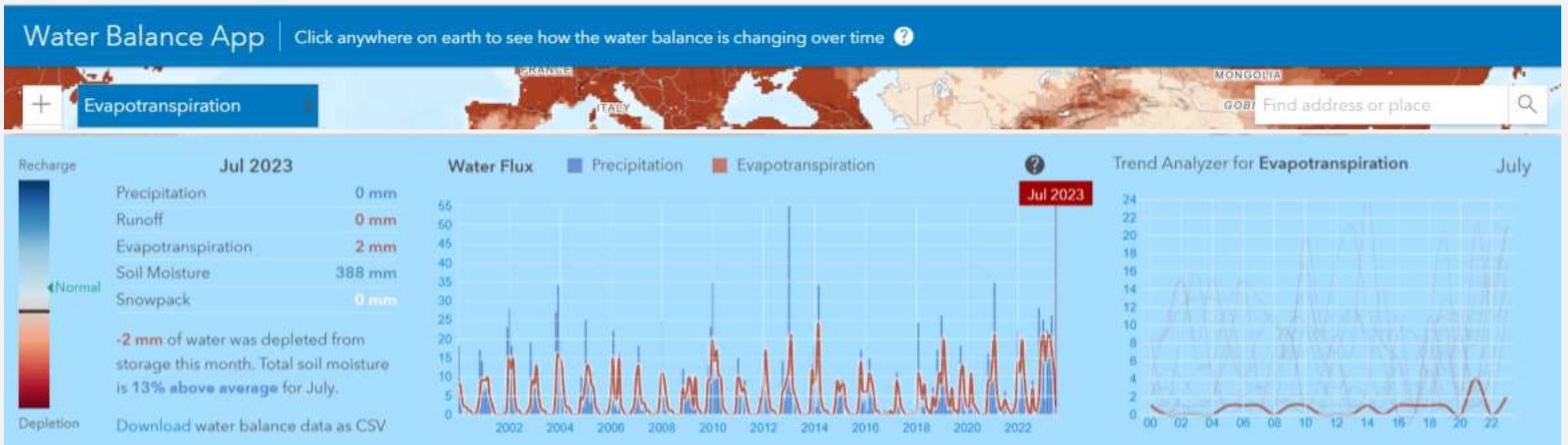
2. The history of the Yarmouk basin

from the 7th century until the present

The Yarmouk tributary basin as a region has been the site of historical developments in the Levant, both in terms of being a territorial object of colonial conquest over natural resources, but also as a geography of nation-state building and infrastructural development. We also situate the Yarmouk Tributary Basin as a site of communities impacted by the above impositions but also as

[Yarmouk Watershed \(arcgis.com\)](https://arcgis.com)

More layers, Greater Details



<https://livingatlas.arcgis.com/waterbalance/>



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Arab Groundwater Knowledge Platform

The Arab Groundwater Knowledge Platform responds to the need to establish a centralized data centre focused on groundwater resources.

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Thank You

Tracy Zaarour, Research Assistant,
Climate Change and Natural Resource Sustainability Cluster

tracy.zaarour@un.org