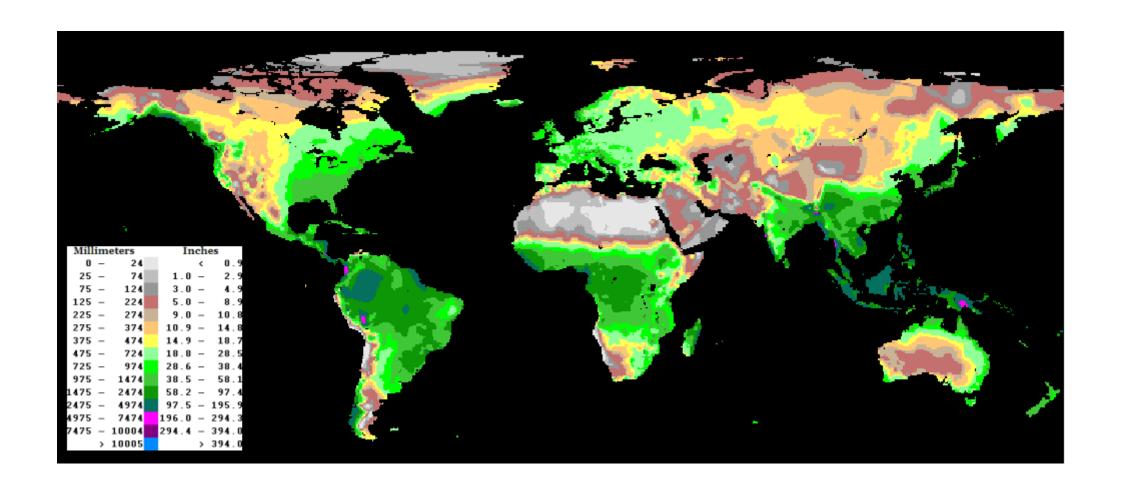
Southwest Asia Environmental Issues #9

Everything written in RED, Highlight!

Pollution

- Many countries in Southwest Asia are experiencing the increasing problem of water pollution.
- Per-capita (per person) availability of safe drinking water here is the worst of any region in the world.
- Contaminated water sources have greatly reduced the amount of clean water available for drinking.



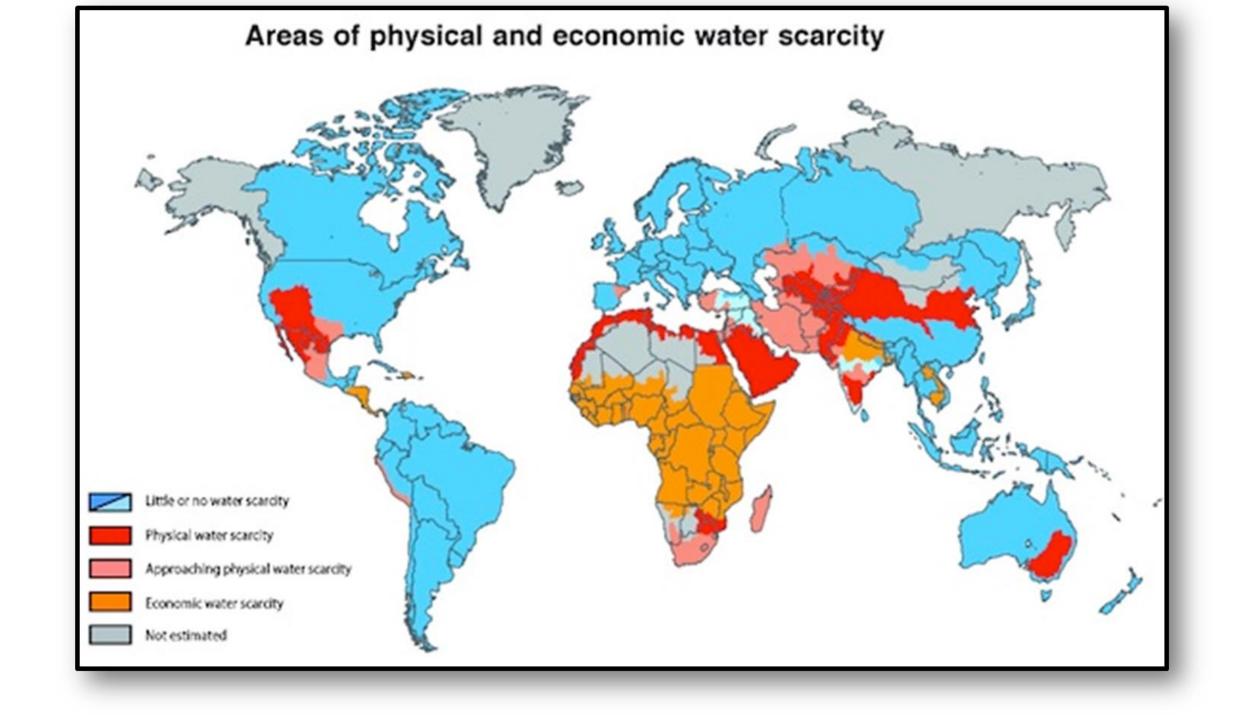
Pollution Causes

- Southwest Asia's biggest pollution problems come from human sewage, agricultural runoff, and industrial waste.
- Rapid growth of industry in cities and towns has caused garbage and sewage to build up in rivers and streams.
- Towns without proper sewer systems dump untreated human waste directly into rivers.
- Pesticides used in farming are washed into rivers or seep into groundwater.



Water Access

- Water availability is also a major concern in Southwest Asia.
- Less than 1% of the world's fresh water is available to the area's inhabitants (5% of the world's population).
- Main Rivers: Tigris & Euphrates



Scarcity

- Water is a precious resource and there is simply not enough available to meet the population's needs.
- Middle Eastern countries are constantly in conflict over these water problems.
- Let's take a look at how water is distributed in several of these countries.



Turkey

- Turkey has a "water advantage" over other Middle Eastern countries because the Tigris and Euphrates rivers form here.
- Turkey has developed the Southeastern Anatolia Project, which consists of 22 dams and 19 hydroelectric plants along the Euphrates River.
- This project has greatly improved the standard of living for Turkey's citizens.



Turkey

- Unfortunately, the country has had to deal with the increasing problem of water pollution.
- Chemical fertilizers from agriculture and industrial wastes from industries pollute the rivers.
- Pollution also comes from oil spills in the Black Sea.

Water Pollution in Istanbul



Syria

- The dams that Turkey built along the Euphrates have greatly reduced the amount of water reaching Syria (40% less).
- Syria already suffers from food shortages, and irrigating (to supply water to) new land is extremely difficult with the diminished water supply from the Euphrates.
- In order to keep some water in the country, Syria has also built dams along the river.
- This has reduced the river's flow into Iraq, thus causing more conflict





Lake Assad – Syria's largest reservoir was created in 1974

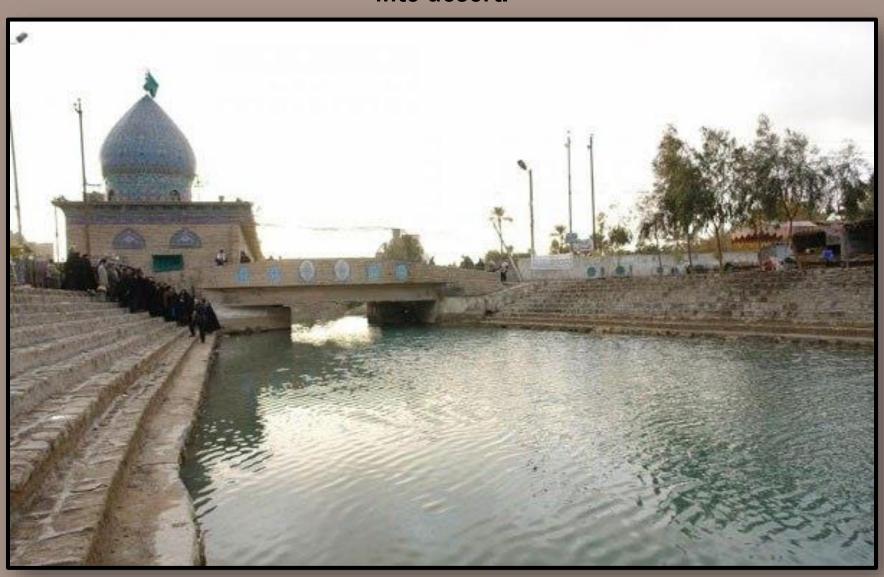


Iraq

- The dams that Turkey & Syria built along the Euphrates have also greatly reduced the amount of water reaching Iraq (80% less).
- This has negatively impacted the country's food supply.
- Wheat and rice production has decreased dramatically, and many farmers are now without jobs.
- Iraq also faces water pollution problems as a result of industry and petroleum drilling equipment.
- Also, three decades of warfare have caused damage to Iraq's water treatment plants.



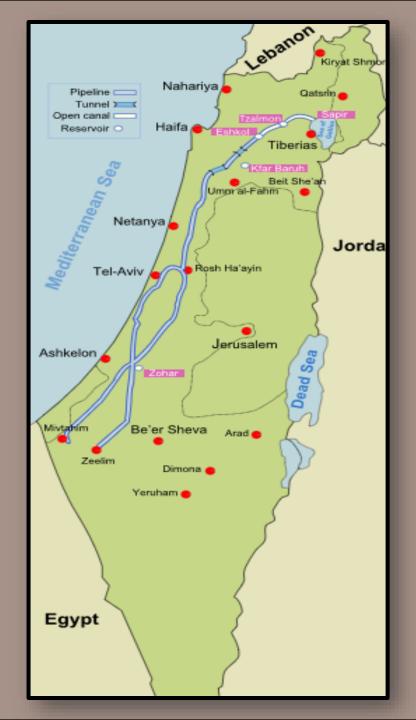
The Glory Canal (built by Suddam Hussein in 1993) was a disastrous project that diverted natural water flow from the country's marshes and converted wetlands into desert.



Israel

- Since its creation in 1948, Israel has developed new technology and advanced farming techniques that have turned the once-barren desert land into farmland.
- Because rainfall is down, Israel has to rely on drawing water from its aquifers (access to underground water).
- Unfortunately, the aquifers are in jeopardy because more water is taken out than is replenished by rain.
- Israel has been involved in many conflicts over water rights to the Jordan River with Syria, Jordan, and Palestine.





National Water Carrier of Israel

A pipeline that transfers water from the Sea of Galilee to the highly populated center and arid south.

Jordan

- Jordan is one of the ten most water scarce countries in the world.
- Jordan cannot meet the basic needs of its people and has to ration the water supply.
- Citizens can only get water two days a week.
 - The country's major surface water sources are shared with Israel and Syria, who leave only a small amount for Jordan.
- Israel has built pipelines that redirect the river's water away from Jordan and into its own lands.
- Jordan & Israel have been involved in military battles over water rights.

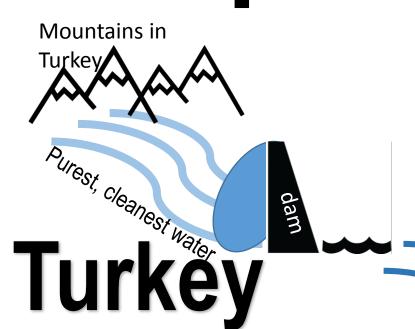
Mujib Dam, Jordan – Desalinates brackish water from the Dead Sea



Saudi Arabia

- Saudi Arabia has a desert climate and has struggled to meet the water needs of its growing population.
- Water is scarce in the country, and what little water that is available is of poor quality because of salt water intrusion.
- The country has built a number of desalination plants that provide most of the country's drinking water.
- Desalination is the process of taking salt out of seawater and using it for drinking water.

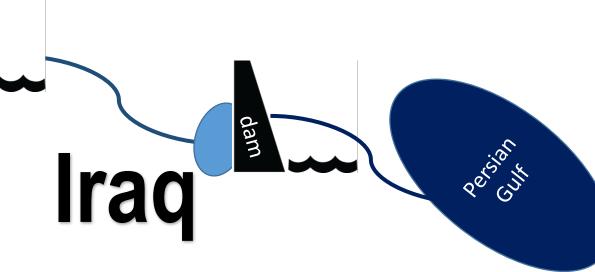
Euphrates River Flow



The river's water gets less & less as the river flows, because of the dams that countries have built to keep water for themselves.

Syria

This causes conflict



Crash Course-pollution

https://www.youtube.com/watch?v=kdDSRRCKMil