

# Israeli Separation Wall and the Water Resources

## Legend

### Palestinian Water Resources

- Water Aquifer
- Water Well Field
- Palestinian Well

### Built Up Areas

- Israeli Colony
- Palestinian Built Up Area

### Expansion and Separation Wall (April '06)\*

- Constructed Wall
- Wall Under Construction
- Projected Wall
- Road Protection
- Route Subject to Completion
- Special Security Arrangement

### Borders

- 4th June 1967 Border Line
- International Borders
- Jordan River

\* Wall Route Based on Israeli Government Map Published 30 April 2006

### Sources:

1. Palestinian Water Authority
2. Negotiations Support Unit

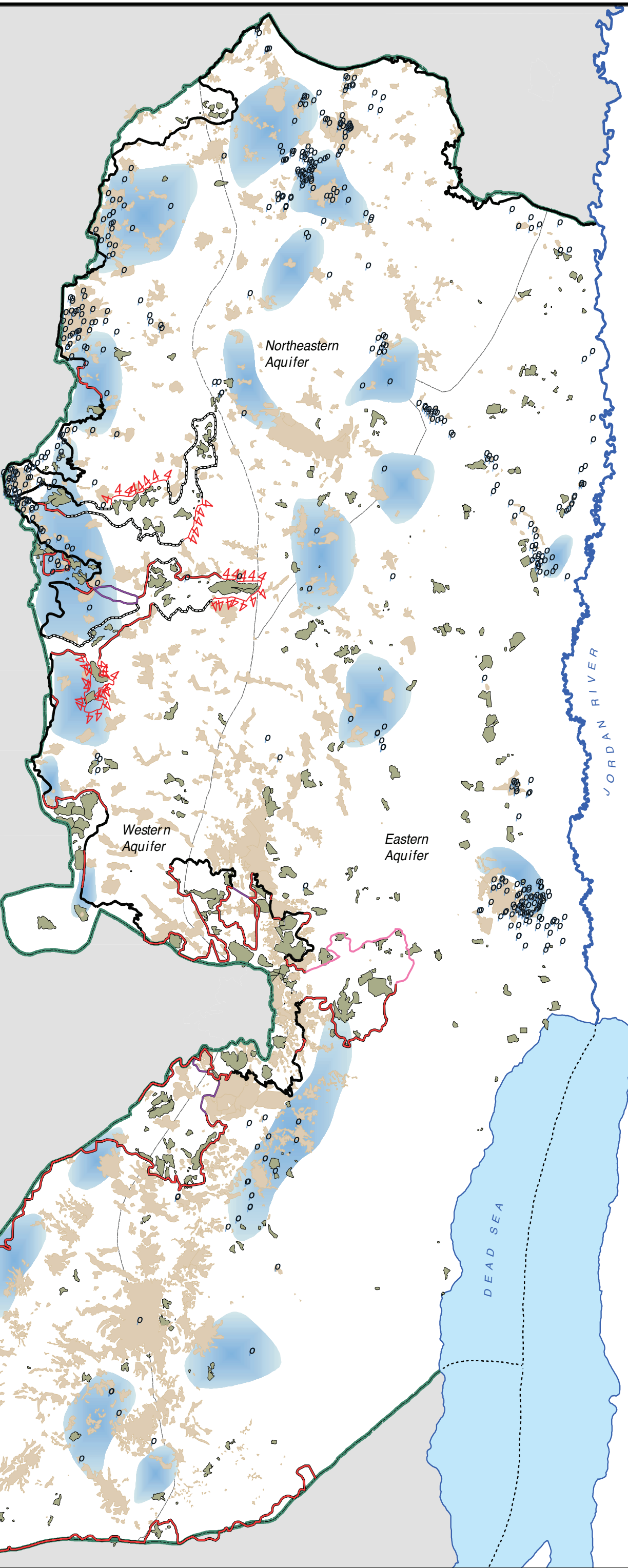


Kilometers

0 10 20



Palestinian National Authority  
Ministry of Planning  
Geographic Center and Technical Support  
May 2006





## PLEXIGLASS PIECES/ USES

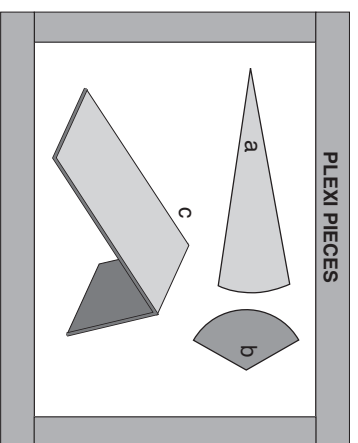


Figure 1. The three basic Plexi Pieces.

Map 7: Topography and Israeli Security: Utilizing the 4,200-Foot Mountain Barrier to Protect Israel's Vulnerable Coastal Plain

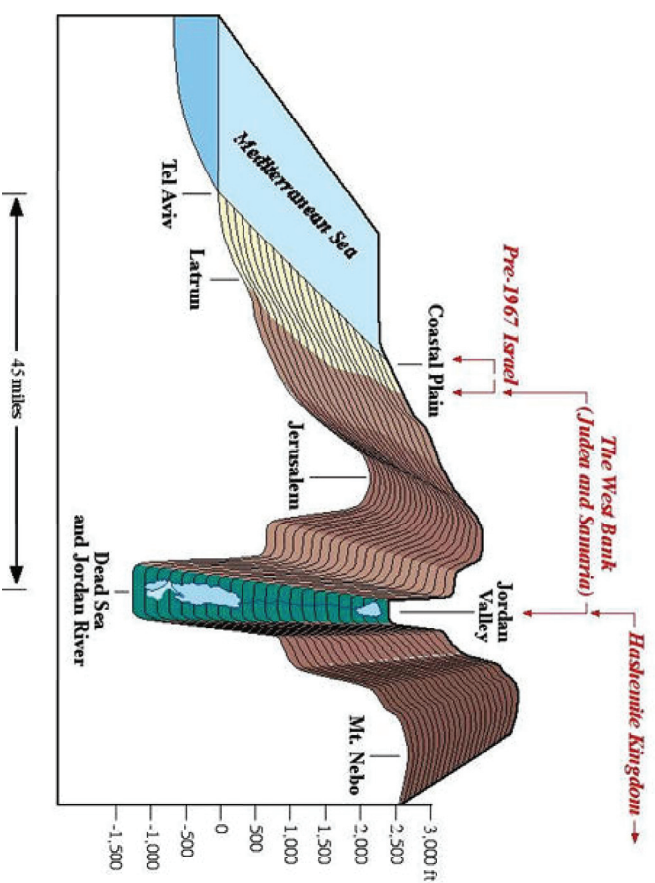


Figure 3 and 4: The topographical slope and commanding position of the Golan Heights is key to understanding their supreme strategic value as Israel's "Watershed" and as the strategic "Perch" overlooking the upper Galilee and the entire North of Israel (see also Figure 5). The Plexi Pieces make it possible to explain these issues in a clear manner.

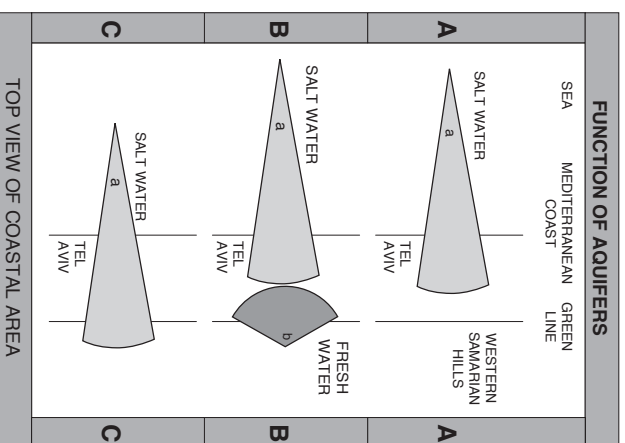


Figure 2. Saline/Fresh Water Balance/ Imbalance. Applicable to Judea & Samaria (Westbank) and Israeli coastal aquifers

- Salt water pushes in.
- Fresh water pushes out. Consequently, there currently exists a balance of saline/fresh water in the Israeli coastal aquifer. (In a demonstration the plexi pieces can be moved back and forth to convey sense of balancing and equilibrium.)
- If the Palestinians use the fresh water that falls in the West Bank that now flows freely into the Israeli coastal aquifers, the balance will be destroyed and salt water will push in and destroy the Israeli coastal aquifer.

Figure 3. The Golan Heights as Israel's Strategic "Watershed" and "Perch."

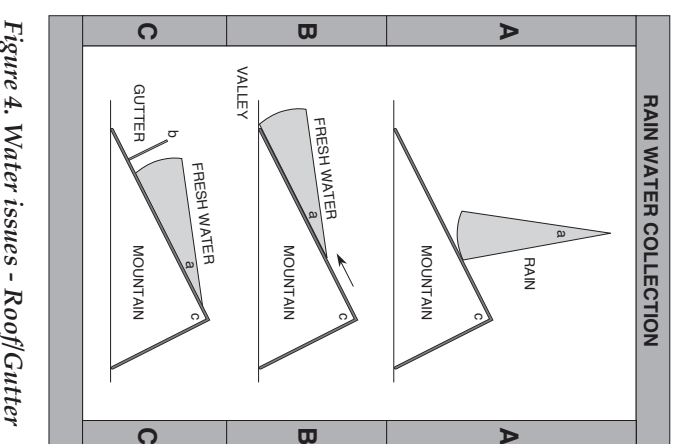
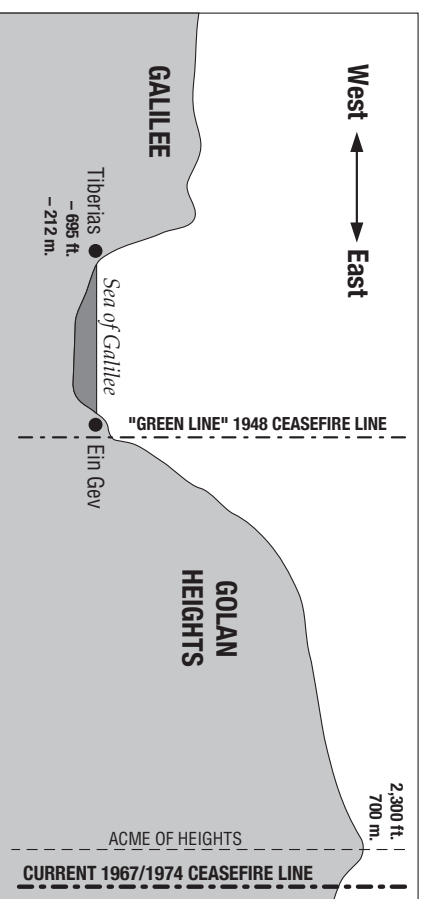
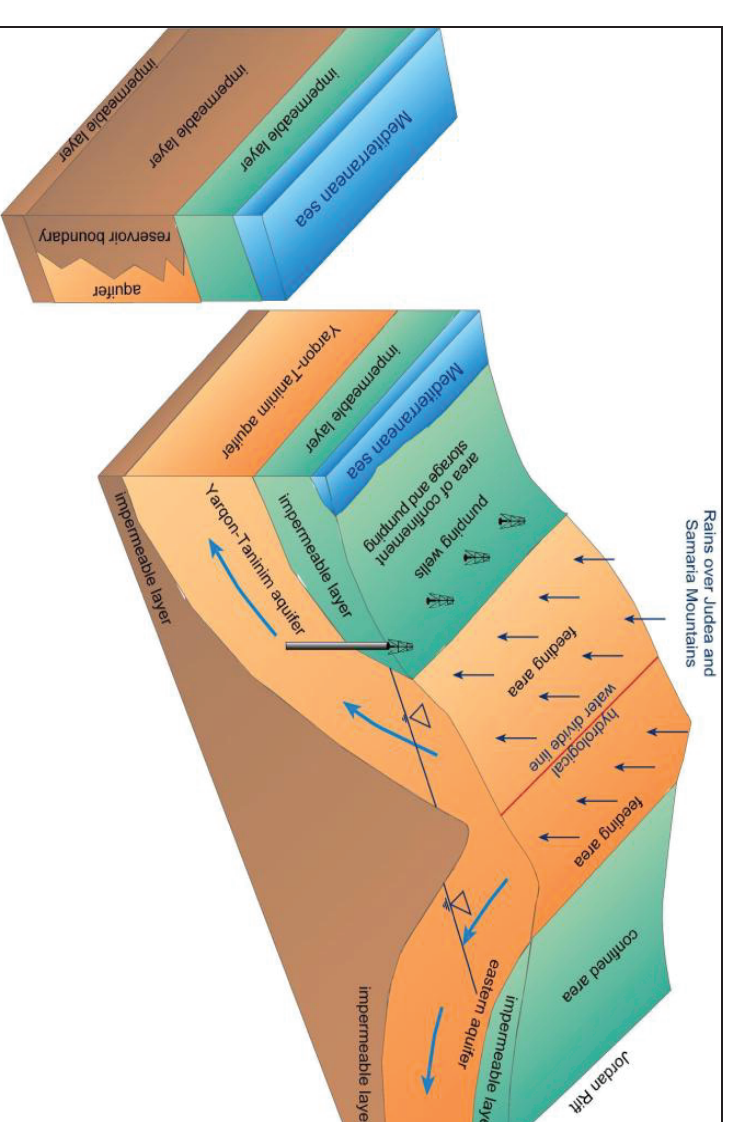


Figure 4. Water issues - Roof/Gutter analogy. Applicable to the Golan Heights and Judea & Samaria

- Rain falls on mountains (roof).
- Rainwater flows down mountain range into fertile valley (as off roof without a gutter).
- Rainwater can be held back by Arab dams functioning as a gutter, preventing the water from irrigating the Israeli agricultural areas.

Figure 12: A schematic cross-section of the Mountain Aquifer showing the recharge and storage areas of the eastern and western basins<sup>33</sup>



The Israeli Palestinian Water Conflict: An Israeli Perspective by Haim Gvirtzman, January 2012

Still, unused potential water resources are few, except for those of Western Samaria that feed the aquifers of the Israeli coastal plain and are vital for the Israeli economy. Any massive interference with the natural flow of these resources toward the coastal plain could not only deprive that densely inhabited and cultivated region of a substantial part of its water resources, but could also cause serious damage to the existing equilibrium vis-a-vis saline sea water in parts of the aquifer in the vicinity of the Israeli coastline.

In recent years Israel's water consumption has totaled an average of 1.8 million cubic meters per annum; of this, agriculture consumed approximately 1.3 million cubic meters. The aquifers of the coastal plain are fed to a great extent by rain water falling on the western slopes of the Samaritan Highlands. These waters percolate through pervious rock formations westward into the groundwater resources of the coastal plain, and provide 300-350 million cubic meters, or 17-19 percent of the total annual water supply. Were a Palestinian Arab political entity to develop an effective modern system of wells on the western fringes of the West Bank (a few kilometers east of the present western boundary of the West Bank), Israel would have to find alternative sources for a large quantity of water that flows freely into its territory and upon which the population and agriculture of the Israeli coastal plain depend to a large extent.

The West Bank and Gaza: Geographic and Demographic Background pg. 200-201 – The Jaffe Center for Strategic Studies, Tel Aviv University, 1989.