



**Discover WRAP...Make a Difference!**

**Website:** [www.wrapdc.org](http://www.wrapdc.org)  
**Facebook:** [www.facebook.com/wrapdc](http://www.facebook.com/wrapdc)  
**Twitter:** @WRAP\_DC

Water Resources Action Project, Inc.  
1001 Pennsylvania Ave NW, Suite 7105  
Washington, DC 20004

- ### Why WRAP?
- ❖ Funding goes directly towards projects and the communities being served
  - ❖ Projects undergo extensive in-person screening
  - ❖ Grassroots partners live and work within the project communities
  - ❖ Projects include strong parallel educational programs
  - ❖ Projects include ongoing reporting and maintenance



## The Need

The amount of water available per person in the Middle East is the lowest in the world. Water shortages intensify as populations continue to grow and infrastructure remains inadequate.

Schools and children within this region are particularly impacted. A reliable supply of water is critical for flushing toilets, washing hands, and keeping restrooms clean. A lack of water leads to hygiene and sanitation issues for these children, and in some cases, restroom and school closures.

Rainwater harvesting and conservation offer a partial solution for water scarcity in this region and could make a real difference in the quality of life and learning for these students.

## Who We Are

Formed in 2009, the Water Resources Action Project (WRAP) is a volunteer, 501(c)(3) non-profit seeking to improve public health to underserved communities in the Middle East through greater water stewardship.

Emphasizing a “results only” approach, WRAP actively sponsors, designs, and implements the installation of rainwater harvesting systems in schools suffering from dire water shortages. A parallel educational program and routine system maintenance are both critical components of all projects.

To date, WRAP has projects successfully underway in two East Jerusalem schools, one school in the West Bank, and two schools in Northern Israel.

## How It Works

The harvesting system collects and stores precious rainwater during the six-month rainy season (November-April). The collected water is used primarily for toilet flushing, which can account for 85% of a school’s total water usage. Based on the type of system (rain barrel or cistern), the stored water can provide up to 70% of a school’s total water needs.

A strong parallel educational program is coordinated by a trained Project Educator, working within the school each week while students are in session.

Students, faculty, and maintenance personnel develop a grounded understanding of how the system functions, its purpose, and impact.

CURRENT EFFORTS					
	Sur Baher Girls School	Al Afaq School for Special Education	Battir Girls High School	Paired Schools Program	
				Tuba Zangaria Middle School	Eynot Yarden Day School
<i>Where</i>	East Jerusalem	East Jerusalem	Village of Battir, West Bank	Tuba Zangaria (Bedouin village), Northern Israel	Eynot Yarden (Kibbutz), Northern Israel
<i>When</i>	2011	2012	2013	2014	2014
<i>Who</i>	800 Arab girls (grades 1-12)	300 Arab boys with special needs (grades 6-12)	120 Arab high school girls	387 Arab Israeli/Palestinian boys and girls (middle school, 3 grades)	430 Jewish boys and girls (middle school, 6 grades)
<i>What</i>	Rain barrel system Educational program Data reporting Maintenance	Rain barrel system Educational program Data reporting Maintenance	Cistern system Educational program Data reporting Maintenance	Rain barrel system	Expanded rain barrel system
				Paired educational program providing weekly interaction amongst Jewish and Arab Israeli/Palestinian students	
<i>Why</i>	Water for toilet flushing and gardening 233,800 Liters conserved	Water for toilet flushing and gardening 100,000 Liters conserved	Water for toilet flushing Cost savings of over 40% on municipal water bills	Water for toilet flushing Liters conserved pending upcoming rainy season	Water for toilet flushing, gardening, and agricultural research Liters conserved pending upcoming rainy season
<i>How</i>	Local Partners: Only Green Environmental Center and Friends of the Earth Middle East	Local Partner: Only Green Environmental Center	Local Partner: Friends of the Earth Middle East	Local Partner: Arava Institute's Youth Environmental Education Peace Initiative	Local Partner: Arava Institute's Youth Environmental Education Peace Initiative



## UPCOMING EFFORTS

*WRAP is currently raising funds for the following projects.  
Visit [wrapdc.org](http://wrapdc.org) to see how your donation can make a difference.*

Jordan	Israel	West Bank
Lenticular Secondary School for Girls	Rotary Hands Across Waters Program	Al-Sedeeq Primary School
Village of Al Adaseya	Network of 20-30 schools across Israel	Village of Husan
274 girls	Joint educational activities using principles of water conservation as a platform for promoting social interaction between various ethnic and religious communities	389 Arab boys, 13 grades
Rain barrel system, maintenance, and educational program		Cistern system, maintenance, and educational program
Local Partner: Friends of the Earth Middle East	Local Partners: Rotary Club of Haifa, Israel & Hi-Teach Youth, Water & Knowledge Program	Local Partner: Friends of the Earth Middle East
<i>Total Cost: \$11,657</i>	<i>Rotary Global Grant: \$162,000</i>	<i>Total Cost: \$18,600</i>