

# CARIBBEAN WATER INITIATIVE CARIWIN



The  
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Meteorology and Hydrology

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McGill

**A Joint McGill – CIMH Institutional Strengthening  
and Capacity Building Project**

# **WORLD WATER CHALLENGES**

## **Lack of accessibility**

- 1.2 Billion lack access to clean drinking water**
- 2-3 Billion lack adequate sanitation**
- 4.0 Billion without sewerage service**
- 5-10 Million deaths per year**



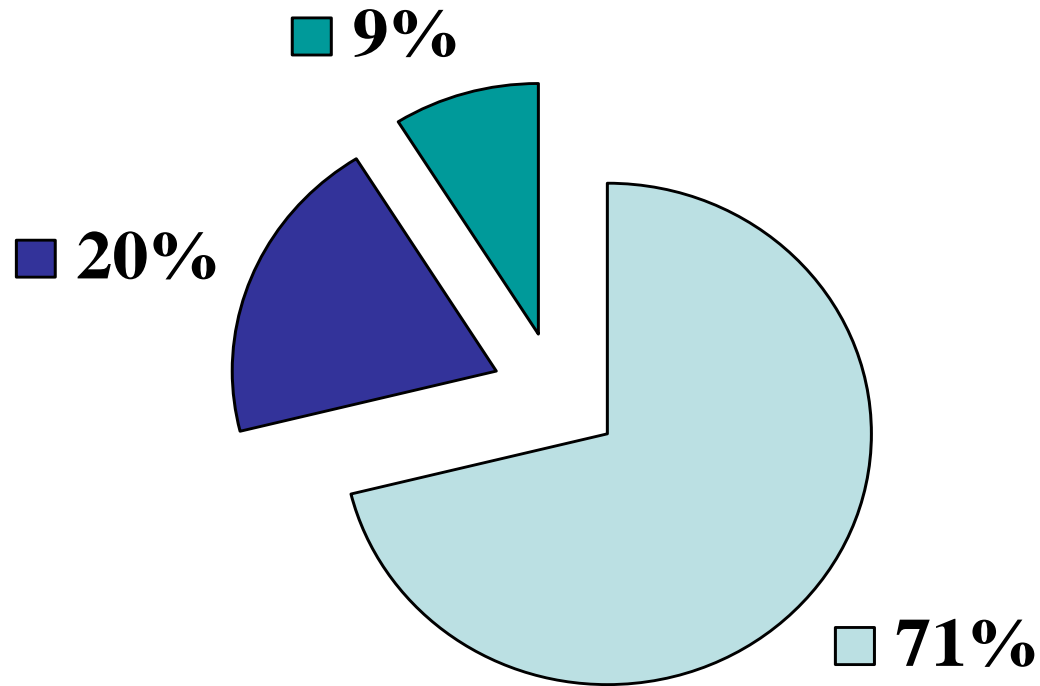
# Problems of scarcity and excess



# Water quality and environmental degradation



# Water Use by Sector, 2000



■ Agriculture ■ Industry ■ Domestic



**GROWING  
TOURISM SECTOR**

# UN Millennium Development Goals (MDG)



By the year 2015, all 191 United Nations Member States have pledged to meet these goals



## The Goals

- 1 Eradicate extreme poverty and hunger.
- 2 Achieve universal primary education.
- 3 Promote gender equality and empower women.
- 4 Reduce child mortality.
- 5 Improve maternal health.
- 6 Combat HIV/AIDS, malaria and other diseases.
- 7 Ensure environmental sustainability.
- 8 Develop a global partnership for development.



# CARIWIN

Focus on decision making for  
integrated water resources  
management





# CARIWIN

- 6 year collaborative project
- Funded by the UPCD of CIDA
- \$1 million
- Regional project
- National initiatives
- Community pilots



# IWRM

*A process that promotes the coordinated management of water, land and related resources, in order to maximize equitable economic and social development without compromising the sustainability of vital ecosystems.*

# WHY IWRM?

- Water scarcity and drought
- Floods and loss of life and property
- Water quality degradation
- Competition for water supplies
- Ecosystem degradation
- Wastage and inequity
- Human health impacts
- Loss of productivity
- Decline in economic prosperity
- Weakened community response

# Daily Express

The National Newspaper of Trinidad & Tobago  
•12,198 96 PAGES FRIDAY, NOVEMBER 9, 2001 \$1

**Reytrin**  
MONEY MARKET FUND  
NOW PROTECTING  
THE HIGHEST EFFECTIVE  
ANNUALISED YIELD

Real yield protected on  
TTS Money Market Mutual Fund  
where the minimum liability  
is only \$100.00  
and interest is compounded  
daily and paid monthly

AUDITED DAILY CIRCULATION: 67,281

**Integrity  
Commission moves  
on Lindquist  
corruption report**  
-Page 5

**The  
Sara  
POLL**   
-Pages 14 & 15

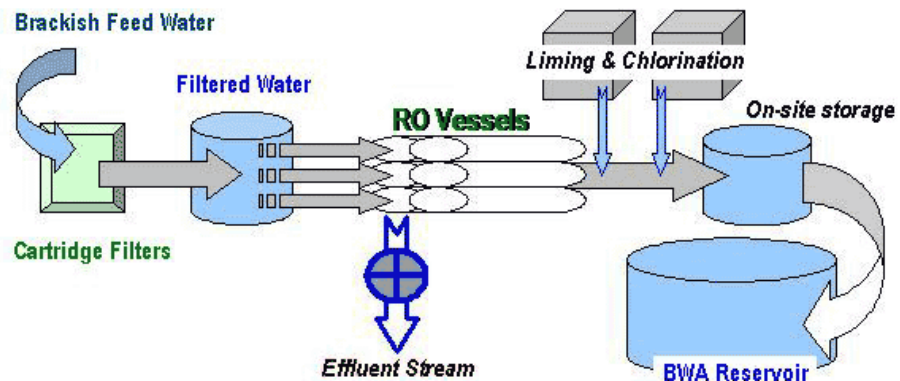
**Paranoid man  
shoots soldier**  
-Page 3

**Hanging in police station  
was suicide, says autopsy**  
-Page 3

# WATER CRISIS

## WASA: Back to barrels

Page 3





**REGIONAL, NATIONAL  
AND COMMUNITY  
FOCUS**

# N Caribbean Sea



Gulf of Mexico

Atlantic Ocean

CUBA

CAYMAN ISLANDS

JAMAICA

NAVASSA ISLAND

HAITI

DOMINICAN REPUBLIC

PUERTO RICO

U.S. VIRGIN ISLANDS

BRITISH VIRGIN ISLANDS

ANGUILLA

ANTIGUA AND BARBUDA

MONTSERRAT

ST. KITTS AND NEVIS

GUADELOUPE

DOMINICA

MARTINIQUE

NETHERLANDS ANTILLES

ARUBA

ST. LUCIA

BARBADOS

GRENADA

ST. VINCENT AND THE GRENADINES

TRINIDAD & TOBAGO

Caribbean Sea

# GUYANA



# CARICOM Country Partners

- Guyana – Ministries of Agriculture and Water; National Hydrometeorological Service; GWI.
- Grenada - Land and Water Division, Ministry of Agriculture; NAWASA.
- Jamaica – Water Resources Authority; Rural Water Programme, Ministry of Water.



# CARIWIN

## Institutional Partners:

- UWI
- OECS
- CEHI
- FAO
- GWP
- GWA
- Community Water Organizations – Jamaica
- Regional Democratic Councils - Guyana



# CARIWIN

## ***Project Goals:***

- Strengthen CIMH to provide training and capacity development in aspects of IWRM at the regional scale;
- Pilot IWRM capacity building initiatives at the national, local government, and community levels.

# CARIWIN

## Activities:

- Workshops for policy makers and senior managers
- Short courses for middle and lower level staff
- Upgrading of CIMH staff and facilities
- Preparation and dissemination of training and communications materials
- Analytical reviews of community water institutions and governance models

# CARIWIN

## Activities:

- Design of land and water information systems (in conjunction with FAO)
- Implementation of national and regional land and water information databases (in conjunction with FAO)
- Population of databases
- Use of databases for IWRM decision making

# Conceptual Water Budget

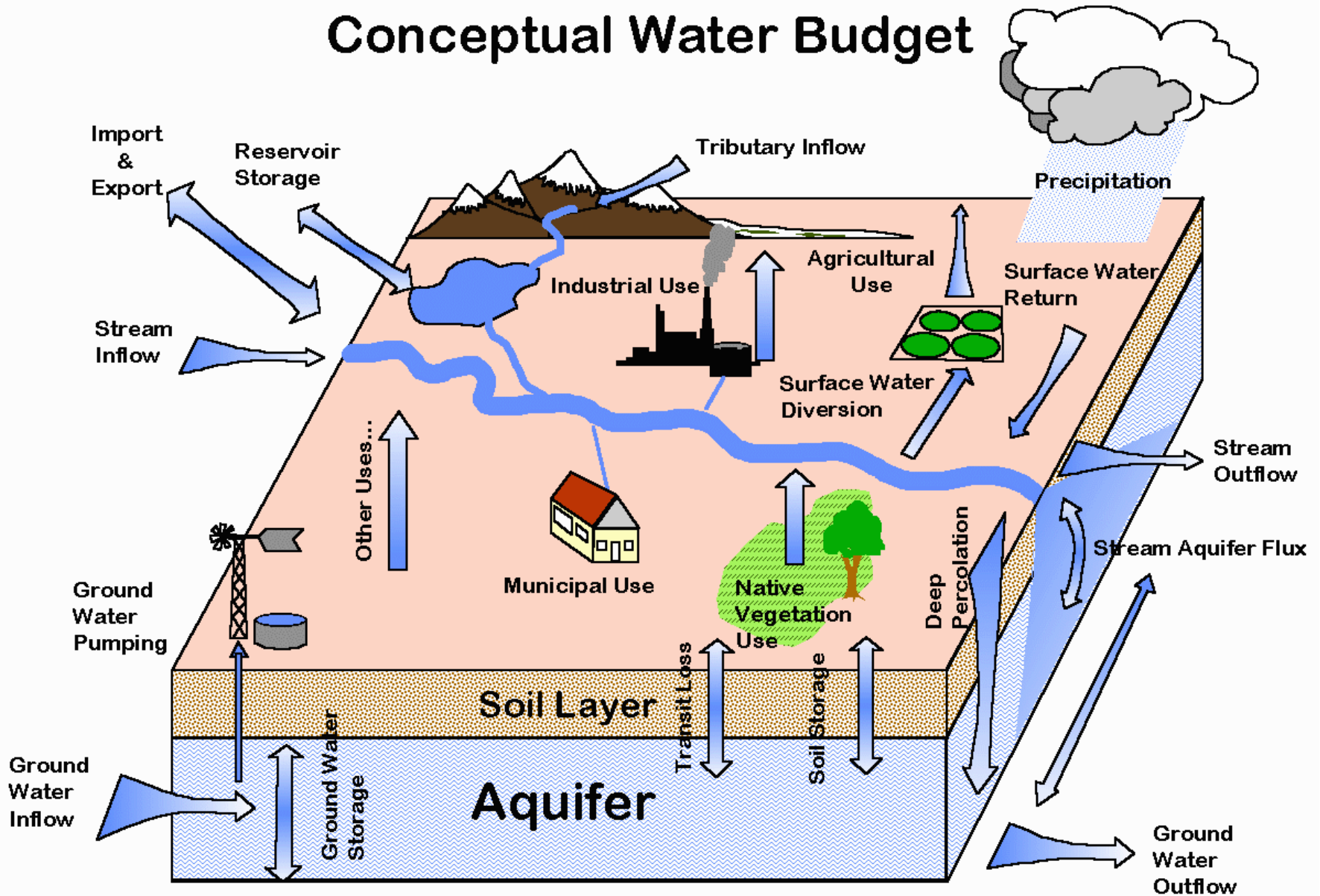


Figure 3.1



# CARIWIN

## Activities:

- Analysis of gender involvement in community water schemes
- Design and implementation of community water institution projects
- Integration of gender analysis into local community systems
- Formation of regional and national water networks for information and BPs sharing

# CARIWIN

## Activities:

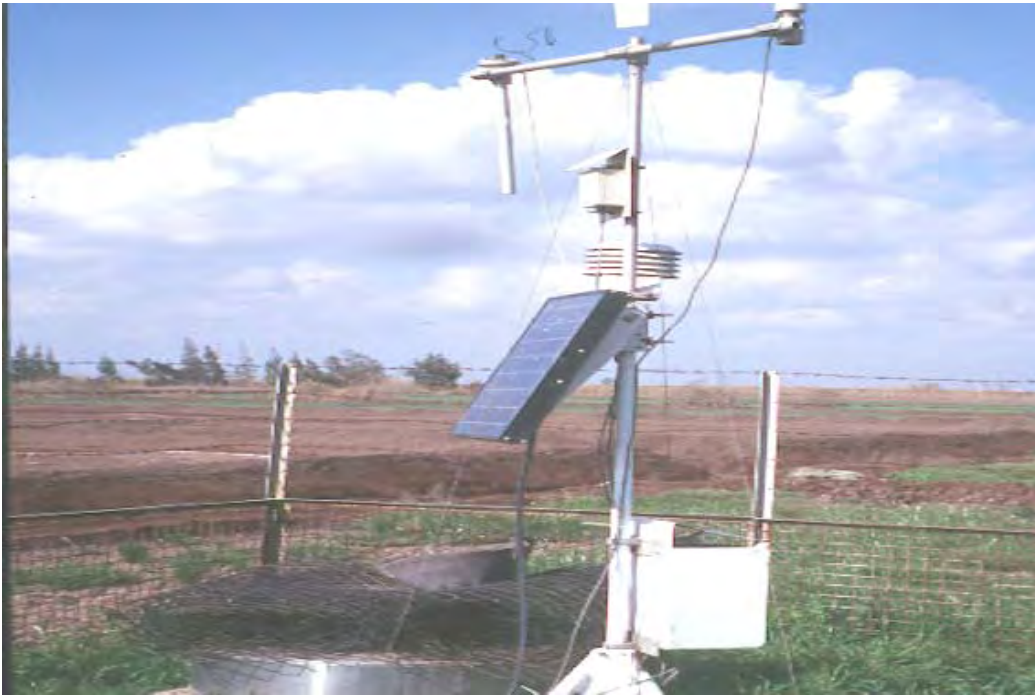
- Delivery of McGill/Brace IWRM certificate program in the region
- Develop community water strategies
- Engagement of Canadian students and Canadian public participation



# Training and building skills



# USING DATA TO PRODUCE VALUE ADDED PRODUCTS



# NETWORKING, INFORMATION SHARING, DECISION MAKING PRODUCTS





**THANK  
YOU**

