



The Irrigation Project

History of the Project

- Conceived about three years ago
- Designed to help remedy the water shortage in Saltadere, Haiti
- Approximately \$20,000 raised and \$19,000 spent so far



About the Project

- Utilizes the Saltadere river to irrigate the approximately one acre of gardens at the school
- A jet pump was installed to bring the water from the river up about 100 feet to two 600 gallon cisterns at the school
- Irrigation allows the gardens to be used for growing 4-5 crop cycles versus 1-1.5 without



Approximate Expenses to Date

- \$16,500 on Materials and Supplies
 - Solar frame, array, and electronics
 - Special built 24V 3600rpm motor
 - Gould jet pump designed for 120' horizontal lift
 - 1 1/2 and 1 1/4" Polypipe (600' + each)
 - Brass fittings
 - Electronics
 - Two 600 gallon poly cisterns
 - Miscellaneous plumbing and electrical supplies



Approximate Expenditures to Date

- \$1,500 on Labor
 - Labor has been all Haitian
 - Has included trenching, tree removal, lifting solar array to school roof, construction and placement of river site water siphon, etc
 - Mostly labor with some skilled wages at \$10/week average.
- \$1,000 on Transportation



Construction of the System

- Solar was selected over the on-site diesel generator due to its relatively low operating cost
 - Diesel fuel costs \$15+ per gallon in Haiti
- Solar panel system purchased in Port au Prince
- Pump and motor designed and purchased in the U.S.
- Plumbing supplies purchased in the Dominican Republic



Current Status of the Project

- Circuit breaker for the pump was faulty and no replacement was available in Haiti
- The irrigation system will be operational for the start of arid season this October



Volunteers

- No money was expended on volunteers, support to volunteers, or for volunteer's labor
- A number of items for this project, especially tools required, were donated by St. Thomas committee members or the volunteers on this project

