



# KENYA

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## THE PROJECT

**Project Location:** Machao Orphanage

**GPS Coordinates:** Lat:01 47.124 S Long:037 36.638 E

**People Served:** 30

**Report Presented To:** Machao Orphanage Foundation

## THE COUNTRY

According to the 2008 UNDP report, Kenya is ranked 147<sup>th</sup> out of 182 countries in the United Nations Human Development Index. Unemployment, crime, corruption, and poverty all remain serious challenges for this country. Many Kenyans live on one dollar per day or less. Poor children cannot afford to attend school; 9 out of 10 children from poor households fail to complete their basic education. School dropout rates are increasing, especially in drought-affected areas.

Drought is one of the major obstacles preventing Kenya from achieving its goals for development. Situated on the equator, Kenya is a drought-prone country with one of the lowest per capita water availabilities in Africa. Kenya currently faces its worst drought in more than a decade, with well over half a million people in drought-affected districts needing emergency water supplies. In the last 15 years, five major food crises were declared in Kenya, all triggered by drought.

The water crisis in Kenya is due not only to the wave of droughts, but also to poor management of the water supply, under-investment, unfair allocation of water, rampant deforestation, pollution of water supplies by untreated sewage, and rapid population growth. Over the past 30 years, Kenya's population has tripled, leading to an increased pressure on natural resources (such as clean water), a widening income gap, and rising levels of poverty.

## OUR WORK IN KENYA

Living Water International's first national operation, Living Water Kenya, is at work across the entire country with a central office in Nairobi. Since the program's inception in 1993, more than 564 water projects have been completed. Four deep rock drill rigs are at work in the central highlands, with shallow well operations taking place along the coast and in the west. Living Water also works with the national government and a number of other aid organizations in finding the areas of greatest need, often drilling new wells near schools and hospitals in order to have the greatest impact. The operation is currently working to drill 12 new wells in the coming year.

## THE DATA

**Population:** 39.8 million

- 43% without access to an improved water source
- 58% without adequate sanitation services
- 50% living below the poverty line

**Life expectancy:** 57 years

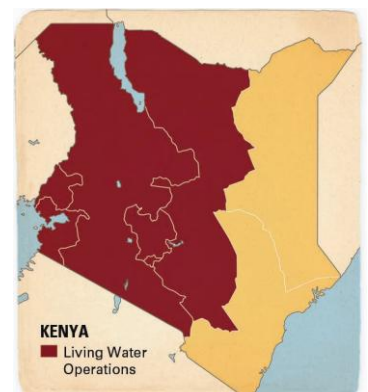
**Infant mortality rate:**

55 per 1000 live births

**GNI per capita:** \$770 USD

Sources: World Bank, UNICEF, USAID, CIA World Factbook

Official statistics often understate the extent of water and sanitation problems, sometimes by a large margin. Insufficient resources for monitoring population and/or coverage as well as varying definitions of coverage and access contribute to statistical variability.



## GENERAL INFORMATION

This was a very deserving project and the children were well cared for. The children were very happy and the team was touched by their behavior. The community helped out with the water project by providing security. Their previous water source was from a river that would cause dysentery, typhoid and malaria in the community. When the well was complete, the community established a water committee and a point person to be the caretaker of the well.

## TESTIMONY

Mary Nthenya, 13 year old student who spoke with the team about the water needs for the orphanage and the community. "The river sometimes dries up. Then we have to dig down in the river bed until we reach the water. This caused us to be sick. Thanks to the donors and God for giving us this well and clean safe water."

## CHARACTERISTICS OF THE WELL

### Project Details

Community name, Type of location	Machao Orphanage
Region/Province/District	Eastern Province
GPS Coordinates	Lat:01 47.124 S Long:037 36.638 E
Altitude	1131 m
Total depth	150 m
Static level	4 m
Diameter of casing	150 mm
Casing material	Steel
Pump type	India Mark II
Depth of cylinder	30 m
Well yield	20
No. of people served	30

## HYGIENE TEACHING

Lucy taught hygiene to the children and the staff at the orphanage. They were very receptive and asked for the hygiene team to come back. Lessons included: disease transmission, germs, hand washing- proper techniques and water saving methods, healthy unhealthy communities, proper care of the pump, keeping the water clean, tippy tap- simple hand washing devise, good-bad hygiene behaviors, disease transmission stories and dental hygiene.

## CHRISTIAN WITNESS

Sammy shared the gospel with the children and staff. He showed some of the children Christian videos. The children really enjoyed the program and some prayed to received Christ.



Previous water source



Project in Process





Mary Nthenya, 13 year old student





Demonstration of the tippy tap





Hygiene teaching

