
Panimacac Water Project

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Tasks

- Administer two page survey
 - GPS mark every chorro & other important points
 - Photograph each home, chorro, bathroom & kitchen
 - Create map of existing water lines
 - Create sectors
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Current Distribution Tank

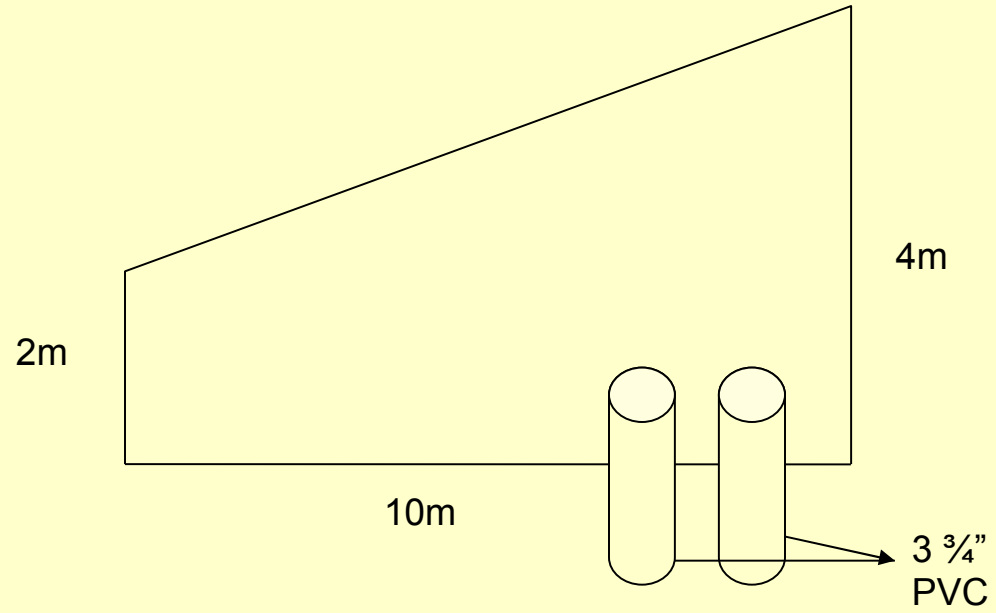
- **Distribution Tank Info:**
- Dimensions: 98" x 98" x 62 ½ " deep
- Water Tank Capacity: 347.4ft³
- 1" of water at the bottom
- 1' between floor and distribution line
- 3 ¾" pipe from spring box to distribution tank
- 40 years old
- Water Quality: Dirty and Cloudy
- Average time to fill 5 gallon bucket inside distribution tank: 54.54 seconds



Future Water Source

- Bought spring in 1995
 - Built spring box in 2007
 - Funding for most materials provided by Une Congreso
 - Labor (120 men) provided by Panimacac = Q4,800
 - Wood materials provided by Panimacac = Q10,000
 - Back wall lined with rock up to 4m thick, tapers to 2.5m thick over 10m in length & 1m tall
 - Two PVC pipes are 3 $\frac{3}{4}$ " in diameter
 - Average time to fill 5 gallon bucket from spring box from both pipes: 3.85 sec
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Spring Box



- **Pipe Length:**

- ½" Pipe: 8,046 ft

- 2" Pipe: 2,112 ft

- **Elevation:**

- Distribution Tank: 5,998 ft

- High House: 5,828 ft

- Spring Box: 5,926 ft

- **Average Water Availability:**

- 5.75 days per week

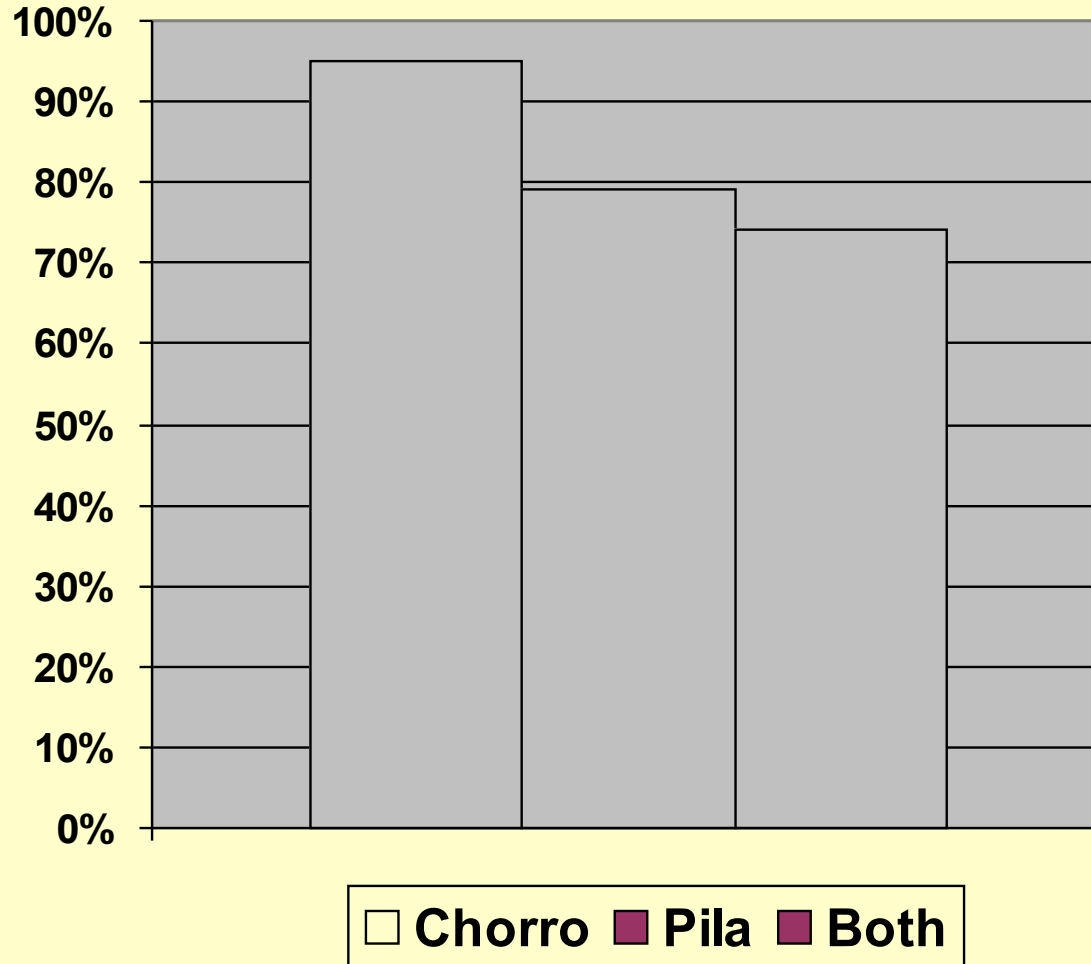
- 2.5 hours per day



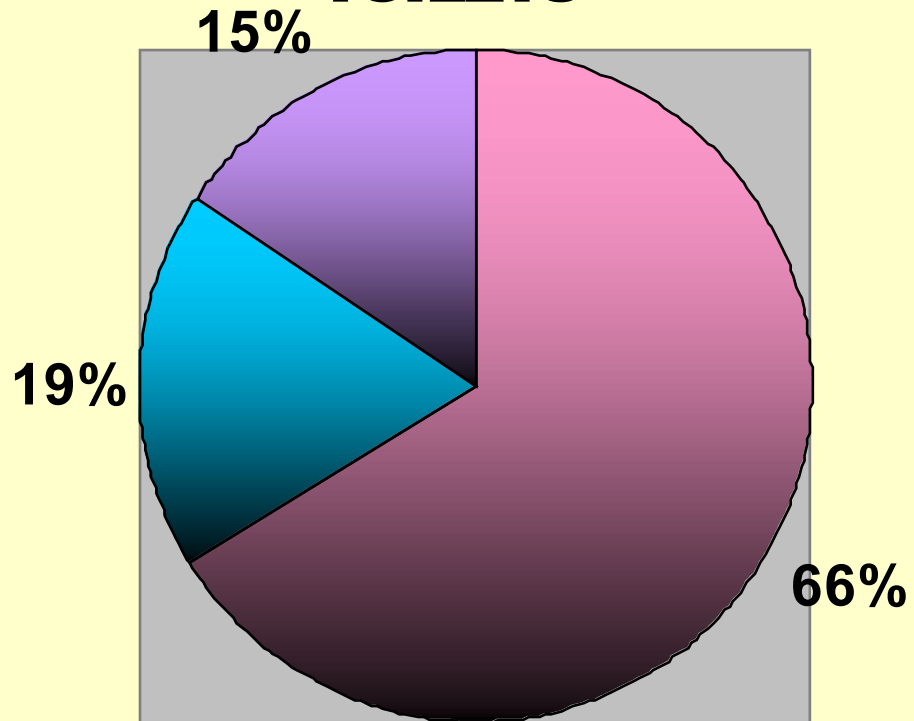
Results of Survey



% OF FAMILIES WITH PILAS & CHORROS

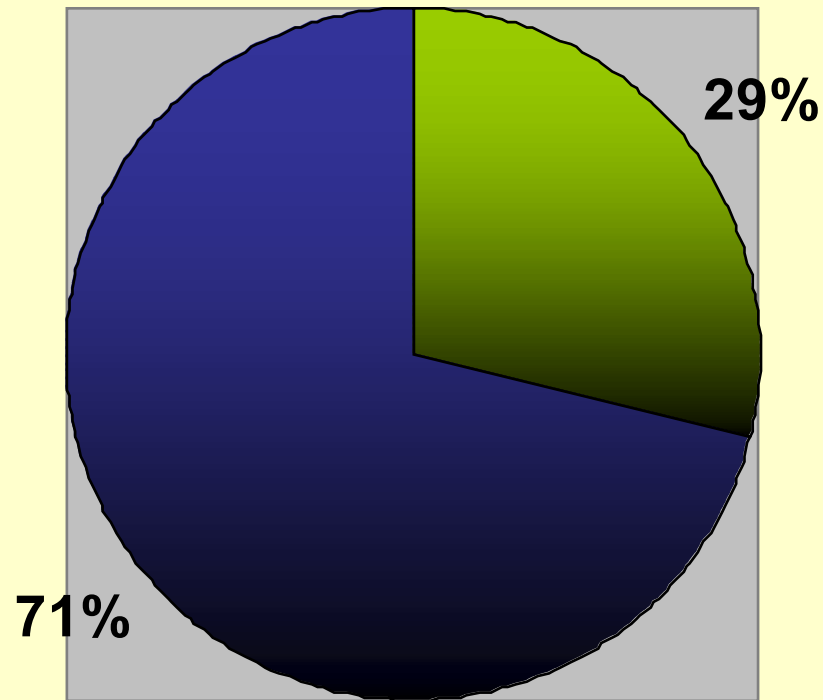


% OF FAMILIES WITH LATRINES AND TOILETS



Latrine Toilet Neither

% OF FAMILIES WITH STOVE & OPEN FIRE



 Stove  Open Fire

Other Facts

- The average family size is 5 people
 - Each family has an average of 16 animals
 - 7.7% of families do not have electricity
 - 49% of families use trash bottles
 - 23% of families have family members that have been to the USA
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Services & Necessities

- Water Source
 - Agriculture
 - Water Purification
 - Sanitation
 - Education
 - Construction
 - Environment
 - Ecosystem
 - Health & Safety
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What to Expect...

- Language: Spanish & Kakchiquel
- 100% Indigeneous Population
- Agricultural Community
- Welcoming & Accomodating
- Cooperative & Involved
- Safe & Peaceful
- Temperate Climate

