

Iyana La Uro Lwa Meru

Kisimiri Secondary School

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Abstract:

One of the sensitive areas affected by the change in climatic conditions in Tanzania whereby Arusha is one of the most affected areas due to presence of physical features especially mountains. In Arusha, Arumeru district lies a village called Kisimiri where our school is located. Kisimiri village is located just near beneath the Mountain Meru in the leeward side. Being on the leeward side, we expected all areas in this side to have similar climatic conditions accompanied with physical appearance and same human activities conducted in the areas. Unfortunately enough, Kisimiri is amongst the places with anomalous dry conditions in the year.

Purpose Of The Study This project is to study the factors to why Kisimiri has got this kind of unreliable condition and come up with ways how to improve them to create a better living environment than it is now.



Method:

2.1.THE STUDY LOCATION: The study was carried in Kisimiri village which is administratively in Arumeru District. Arumeru District is located between longitudes 35°37' to 35°47' East and latitudes 3°17' to 3°27' South. In case of the village is found 36°51' E in the Eastern part of the district.

2.2.MATERIALS AND METHODS

To make this project answer our research problem a number of approaches and methodologies were used for data collection which included field observation, key informants interview and experiments.

2.2.1.KEY INFORMANT INTERVIEW

We visited the NELSON MANDELA INSTITUTE OF TECHNOLOGY and District council and interviewed specialists who have done research on the area. The aim was to address the following issues: The water sources people use, types of plants people cultivate, seasons alignment of the year ,the energy source people depend on and the effort they have employed to solve the problem of drought at Kisimiri.

2.2.2.FIELD OBSERVATION

We visited places in the village and observed the water sources people use, their farms, the animals they keep (if healthy or not) and the people's well being as well. Also to check how the climate had affect the production.

Results:

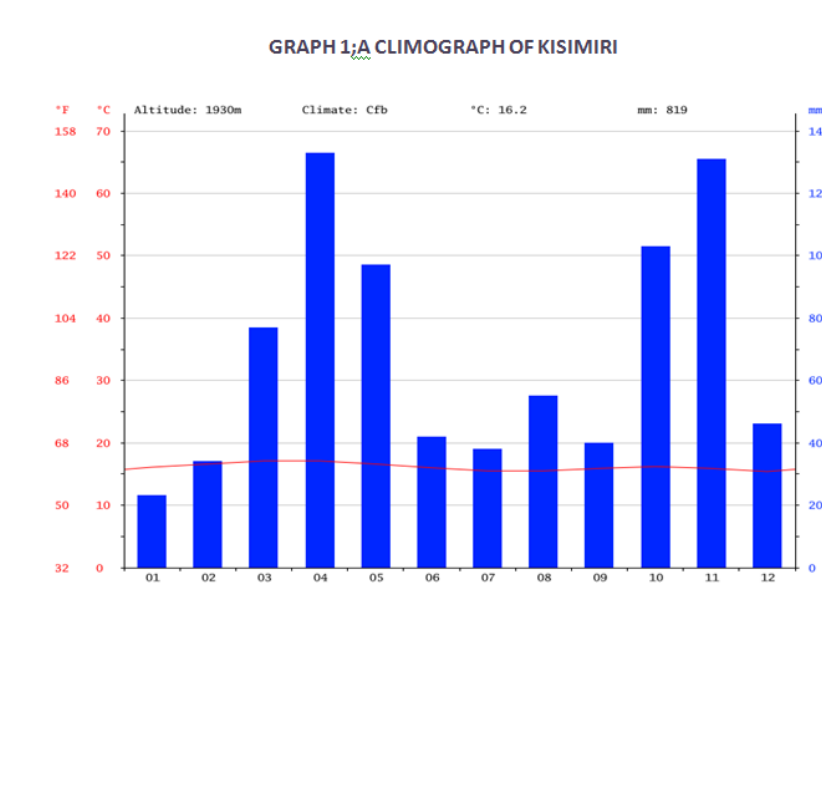
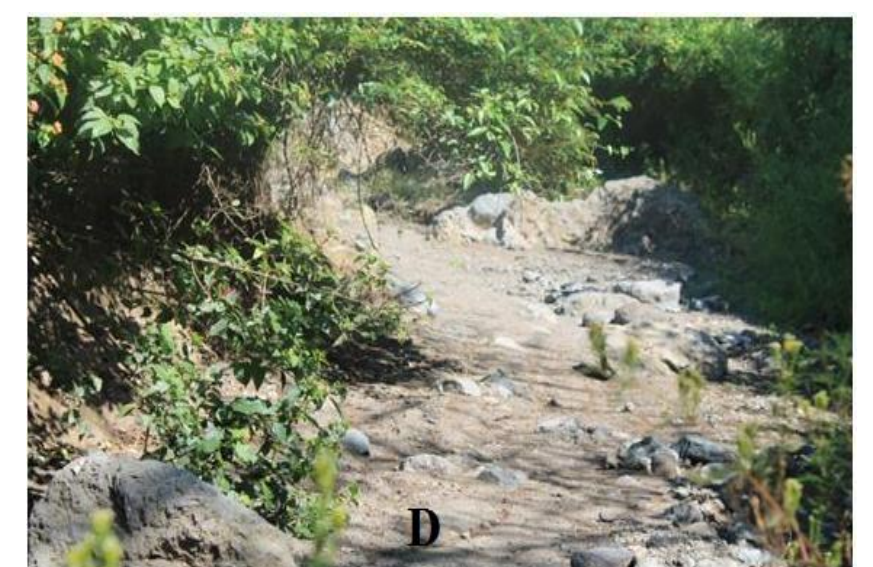
The objective was to collect Weather data so as to distinguish Kisimiri village and those areas which are neighbour and they are evergreen through the year.

2.2.3.1. SAMPLING FOR WEATHER CONDITIONS.

The 4 areas were recommended. Two areas were from kisimiri village and other two areas nearby Kisimiri. The total days for sampling were 60 days in month of April and march. These months were selected because all areas experience same season.

Table1.A table showing recorded temperature in 4 areas in degree of Fahrenheit

DAY	MARCH				APRIL			
	KISIMIRI CHINI	KISIMIRI JUJU	MOMELLA	USARIVER	KISIMIRI CHINI	KISIMIRI JUJU	MOMELLA	USA RIVER
1	75.5	75.5	76.5	78.5	74	74	73	74
2	76	76	75	79	73	74	74	74
3	76	75	77	78.5	74	74	73.5	74
4	76	76	76	78	74.5	74	74.5	74.5
5	76.5	76	75	78.5	73	73	73	73
6	75.5	75.5	75	76	74	74	74.5	73.5
7	77	76.5	74	76	73.5	73	73	78
8	78	78	74	73.5	74.5	75	74	74
9	76.5	76.5	76	76	74	73	74	73.5
10	75.5	75.5	75	75.5	74	74	73.5	74.5
11	75	75	75	76.5	74.5	74	74	74
12	74.4	74.5	76	78	74.5	74.5	74.5	74
13	76	76	76.5	76.5	69.5	70	74.5	74.5
14	76	76	76.5	76.5	72	71.5	71	72.5
15	74.5	74.5	74.5	75	69.5	69	69.5	69.5
16	75.6	75.6	74	74.5	71.5	71.5	71.5	71.5
17	76	76	73	73	74	73.5	74	74
18	74	74.5	75	76	74	75	74.5	74
19	70	70	74.5	74.5	74	74	74	74
20	73.5	73.5	75	75.5	72.5	72.5	72.5	72.5
21	72.5	72	76	76	72.5	72.5	72	72
22	72	72	73.5	74	70.5	70.5	70	70.5
23	74.5	75	71	70	71.5	71.5	71	71.5
24	74.5	74.5	74	73.5	71.5	71.5	71	71.5
25	74	74	72.5	72.5	72.5	72.5	72	72.5
26	74.5	74.5	74	72	71	71	71	71
27	73	65	74	74.5	71.5	72	71.5	71.5
28	73	73	73	74.5	71.5	63	66	71.5
29	71	71	73	71	71	64	65	64
30	71.5	71.5	73.5	74	71.5	70	71.5	71.5



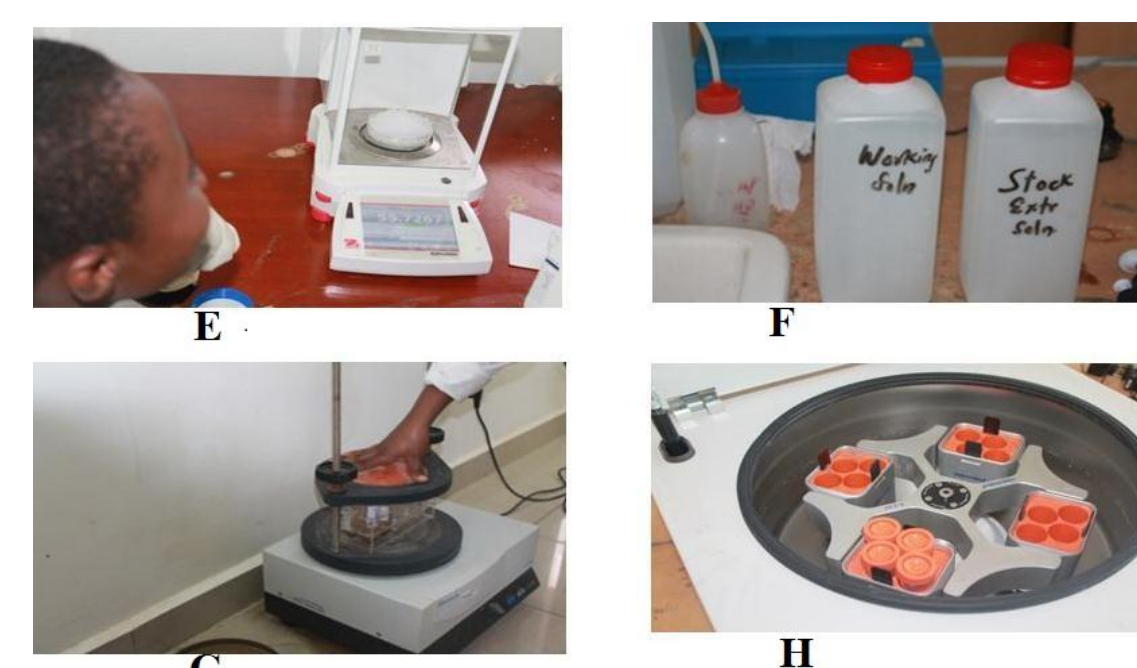
1.1 Causes of drought at Kisimiri village.

Conclusion:

Based on the findings of the study, it is concluded that;

There is low concentration of Phosphorus mineral at Kisimiri village due to poor farming methods Among the possible causes of drought that were established include water shortage, geographical location ,poverty and high illiteracy rate.

Laboratory results of soil samples analysis revealed that all soil samples had low phosphorus value and high potassium value.



References:

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 Krupa, S. 2001. Fluorine. In Maloy, O. C. and Murray, T.D. 2001. Encyclopedia of plant pathology. p465.
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