

# Alternative Green House For Peasants In Mtwara

## Mtwara Girls Secondary School

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### Abstract:

In Mtwara region majority of peasant do not grow vegetable during rain season especially period from December to march. This is become during this time most of basin and low lands are covered with rain water ,Large number of pest and eruption of many plant diseases caused by bacteria and fungi, rain water courses leaching process where by most of nutrients are washed away deep in the soil, rain water destroy many garden vegetables includes tomatoes and Chinese's cabbage, The production of may vegetable stop in Mtwara during this period this lead to shortage of vegetable.

The business people import these vegetables from other region like Morogoro and Ruvuma and sell these with very high price. Example during this this period 1kg of tomatoes are sold 5000 Tsh. sweet paper(hoho) are sold up to 4000 Tsh per 1kg. also chiness cabbage are sold up to 2000 Tsh per Kg. Sometime we as students do not get vegetable at our school because are very expensive. Other period around july to august tomato price fall up to 1000 per kg. As young scientists we so an opportunity to peasants which are most of them are women and we thought of this simple alternative method to grow vegetable offseason which is simple and very cheap.



### Method:

This project was designed to help peasant to grow vegetable offseason to counteract with this shortage of vegetables this will make them earn money and society will be supplied with vegetable instead of importing prom other regions

#### D.EXPERMENTAL METHOD OF PROJECT

In order to accomplish this peasant has build green house like room using simple local available material from environment which are cheap like tree poles ,nylon cover, rope and mosquito net these nylon cover are analogous some how with green house cover .inside this room peasant will grow their vegetable

#### MATERIAL TO USE

(i) Plastic nylon bag (ii)mosquito net (iii)rope (iv) Tree poles (v) nails (vi) Window wave marsh

Note The building is made in north south direction. This is because to ensure maximum illumination during the morning and evening to the plants inside for maximum growth.

### Results:

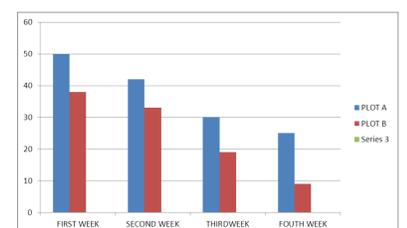
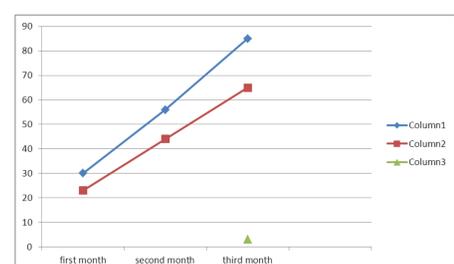
There are two plots , Plot A the variable area of green house like room consist of 100 tomato plants and Plot B the control which has also 100 tomato plants these are planted in usual ways The plants from both plot were supplied with manure and are watering every day morning and evening and then plant developments are recorded in both plots and then are compared.

The factors that are considered are the following

(i) Plant height (ii) Color and Number of leaves (iii) Any observable sign or character

From the graph above the curve presented by blue line represent plot A which consist of green house room this curve is above the red curve that represent the control plot it show that the plants inside the room grow faster and has large height because of favorable conditions inside the room these include Temperature and moisture contents also the sun is not reaching direct overhead that why grow tall than those of control herthe auxin hormones concentrate to the above at the tip of shoot

The curve presented by red line represent plot B the control garden and its curve below the red curve this show that the growth rate of plant slow because at every month the heights of plants were short compare to those of blue curve



### Conclusion:

As young scientists we discovered this method can be applied to the society and it is good not only during the rain season but even during other seasons. It has a tendency of increasing productivity as we have seen at comparison table

### Acknowledgments:

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