

SCHOOL: KODA

SECONDARY

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AGRICULTURE

GRAFTING

Grafting is the practice of uniting two separate woody stem. It has the upper part called Scion and the lower part known as rootstock.

methods of grafting

whip or Tongue grafting

- it is used for material in which the scion and the root stock are of the same diameter.

Side grafting

It is practised when the stock has a large diameter than the scion, the scion is inserted into the side of the stock.

Importance of Budding and Grafting

- They help to shorten of maturing age
- it helps to repair damaged trees
- Helps to propagate clones that cannot be propagated in any other way.
- facilitate the changing of the top of the tree from being undesirable to desirable

Reasons why a farmer may prefer using grafting

- when the stock has a large diameter than the scion
- when the farmer requires more plants using one rootstock.

GRAFTING

Through the knowledge of grafting of avocado fruits then the following problems can be solved;

grafting to satsuma
grafting to ginkgo
banana grafting to longan
grafting to mango
grafting to lime

grafting to shis
grafting to navel orange
banana grafting to navel orange
grafting to shis grafting

grafting to longan
grafting to navel orange
grafting to longan
grafting to longan

grafting to longan
grafting to navel orange
grafting to longan
grafting to longan

MALNUTRITION OF THE CHILDREN AND HYGIENE

when we visited different home from the surrounding society we discovered that children were suffering from malnutrition. This is because of condition whereby children lack a balance diet and they are even unhealthy. This is because their parents were unable to provide a balance diet to them. If the parents or people in the surrounding area has knowledge of grafting fruit trees, they would generate income through selling of grafting seedling and fruit trees from the farm. The money generated would be used to provide a balance diet more so to the children and their families who are lacking a balance diet in the body. On poor hygiene, we visited the nearby hospital and after conducting oral interviews on the doctors about healthy records of the people in the society, we discovered that most of the people suffer from stomach related illness. This has increased in the community because of poor health, eating uncleaned food, drinking dirty water from the river which have been destroyed by the chemicals from the industries and lacking a good basic needs for them. Even we visited some of the nearby school and discovered that there is lack of balance diet and clean water which is making the students to suffer from diarrhoea and vomiting each and every time. With the knowledge of grafting fruit trees are discovered from other farmer we have found that our problem can be solved by selling grafted fruit trees that will

make them get money and be able to provide

proper hygiene to their families.

Soil Conservation

As we were moving around the society we also discovered that the soil erosion is highly pronounced. This is because of deforestation and lack of land. Some of the common types of soil erosion in the society include; Sheet erosion, Gully erosion, Rill erosion and splash erosion. This has led to poor soil thus leading to low agricultural produce.

Through the knowledge of grafting fruit trees the people in the society will be able to plant many fruit trees whose roots will help to hold the soil particles together thus minimising soil erosion. The remains of the fruit trees like leaves decompose thus adding fertility to the soil and conserving the soil.

HIGH RATE OF SCHOOL DROPOUT

One of the things that are pulling back the growth of the surrounding society is the school dropouts. This is where by young boys and girls stop going to school before completing the primary, Secondary or even tertiary education. This is caused by poor living standards which limit the parents from paying school fees for their sons and daughters thus unable to sustain them in school. This has lead to generational poverty in the surrounding society to be high. Through the knowledge of grafting fruit seedlings the people in the society will be able to sell grafted seedlings and the produced fruits. The generated income can be used to pay school fees for their children thus sustaining them in school. Again the parents will be able to provide all the basic needs required by their children thus minimising the number of school dropouts in the ~~society~~ surrounding our school.

LOW AGRICULTURAL PRODUCE

When we visited the community around the school we also conducted some of the oral interviews. We discovered that the agricultural produce of the society generally is very low. This leads to food shortage in the society. Through our project on grafting we have found out that if people are educated about fruit trees they would sell the seedlings or the fruit produced by the fruit trees to generate income. The income generated could be used to improve their low agricultural produce and buy food to sustain their families.

CRIME SUCH AS THEFTS

After touring the society around our school, we also discovered that the surrounding society crime ratio is very high. This has been caused by Insecurity. In the society they have no knowledge about grafting fruit trees. Most of the planted they grow without grafted where by they take long to grow and through protection on grafting, we find that their problems can be solved easily if people around the society could be educated more about grafting fruit trees, they could stop fruit thefts and increase the fruits produce. After grafting the fruits they produce from the fruit trees they will be able to sell them and generate income. Income generated they can use to improve their living standards. In buying cloths, buying food, lowering thefts around their societies and educating their children.

HIGH DEATH RATES

We also noted that the death rate in the surrounding Society is very high. This is caused by lack of finances to take their sick people to better hospitals to buy drugs and sustain their supplement. This has led to reduced human labour and increase a number of orphans. Through the knowledge of grafting the members of the Society will be able to generate income through selling of the grafted Seedlings and the produced fruits. The generated income is therefore used to take care of the health of their beloved ones.

Sexual Immorality

Through the oral interview conducted it was also made known to us that the issue of Sexual immorality is common in the society. This has been caused by high rate of school dropout and low living standard. This has led to high death rate when people suffer from sexual transmitted disease such as gonorrhea, syphilis, HIV and AIDS. Through the knowledge of grafting fruit trees the people in the society will learn to generate income through legal means. This is by selling grafted seedlings and produced fruits. The generated income will allow the people in the society to get their basic needs without engaging in sexual immorality.

HIGH BIRTH RATE

High birth rate is also evident in the surrounding society. This is caused by high rate of school dropout which lead to early marriage that encourages poverty like lack of food, shelter, clothing and money to fit fee. So you find through the knowledge of grafting fruit trees parents can generate income through selling of grafted seedlings and the produced fruits. The generated income is used to pay the school fee and also to produce those basic need to the childrens. This minimising the number of school dropout and to control the birth rate.

SCARCITY OF WATER

We also noted that people in the surrounding society are forced to work for long distance to search for water. This has led to a lot of pain and suffering to the people. Through the knowledge of grafting fruit trees, the people in the society will be able to sell grafted seedlings and the produced fruits. If all the community come together, they will generate money and dig out boreholes which can supply water in the whole community. Then all the problems of water scarcity will be solved.

EARLY MARRIAGES

Early marriage is another problem that is affecting the society around our school. This has lead to generations of poverty that is highly affecting the society. Through the knowledge of grafting, parents can generate income through selling the grafted seedlings or the fruits from the fruit trees. The generated income can be used to pay school fees for school and minimising early marriages. Early marriage are also encouraged by lack of basic needs for the girls. This makes them to see marriage as a solution to their problems. This makes them to be married at a very young age and this also increase the birth rate in the community at large.

IDLENESS

THEMOPOLY

A lot of people are idle in the community surrounding our school. This is affecting mostly the youths. For example, when we visited the market place during the day we found many groups of young boys and girls doing nothing. Idleness can also lead to community crimes such as stealing where they can sit down and plan on how they can break into banks, markets or even supermarkets to take some items so that if they are caught stealing they can be stoned by mob justice to death hence leading to poor population of youths in the society. Idleness has also led to drug abuse which has resulted to drug addiction. For example at the market place there were many young boys who looked like mad people but in their real sense know the effects of the drugs they take. If we have decided that by educating the youths about grafting of fruit trees they will have something to do and so occupied during the day thus the number of idlers in the market places and at home will reduce numbers of crimes in the society will reduce hence reducing drug and drug abuse.

UNEMPLOYMENT

Unemployment is the most harmful thing that has increased in the society. whereby most of the people in the surrounding area are unemployed. This is because of illiteracy and high rate of School dropout that has lead to increase in crime and low living standards. That has led to the suffering in the people. If the knowledge of grafting fruit trees is introduced to them they will be occupied by a constructive activity that will make people to get money by selling grafted fruit trees to the people after selling the grafted seedlings and seedlings. They will get income to sustain their families in their daily living life. This will make people to get money and help each other in their community when one person is in need of money. This can be done by advising people in the surrounding society to plant more grafted fruit trees in their farm and maintain the fruit trees in the farm by digging the unwanted weeds from the farm, applying fertiliser for planting the trees where the climate is available. By doing this you will get or harvest good grafted seedlings from your farm. This will reduce the number of people who are loitering around in rural and urban areas searching a job to maintain their families.

POOR ROADS

He also observed that feeder roads in our surrounding society are very poor and it has lead to poor transport more so during rainy seasons. During rainy seasons perishable fruits like mangoes, vegetables and oranges are likely to rot due to delation caused by the roads prone to occur accidents because they are slippery and this may cause death of the drivers or damage of the fruits during dry seasons, roads are dusty. The dust tends to make drivers suffer from fever or chest pain and can also lead to breathing problems of which the time he takes to heal he could have used it to transport more fruits to the market if it creates high market demands of the fruits in the market. To solve this problem, people are educated on grafting of fruit trees because they need to use roads when transporting those grafted fruits and selling. Then after selling the fruits and seedlings they will be able to generate income. The income generated after selling the fruits and seedlings from grafted fruit trees, they will be forced to make roads more possible for all weather conditions, thus the problem of poor roads is solved.

POOR HEALTH

As above touted around the surrounding society around our school we discovered that many people suffer from poor health where this is a major problem because of the poor living standards such that they do not have jobs which can enable them to generate income. Since they are jobless they are unable to buy balanced diet for their families, they will be also unable to take care of their sick people where this has led to reduced or low human labour. Also as we visited the market near the school we noticed that a lot of sewage were unclear and stagnant water which made a lot of people to suffer from cholera also there were many children suffering from malaria and other related diseases because of the poor living conditions such that most of them lacked money to go to hospital or money to buy medicine and other also can't afford a balanced diet. Through the knowledge of grafting fruit trees the society will be able to generate income through selling of the grafted seedlings and grafted fruits from fruit trees where the income generated will be used to take care of health of their beloved ones and used to clean all the markets and sewages to prevent spread of mosquitoes.

DEFORESTATION

As we know that deforestation is cutting down of trees in an area without planting others in a large piece of land covered by trees. This is very much pronounced in the surrounding society of our school due to cutting down of trees for domestic use such as burning of firewood, burning of charcoal whereby the burning of charcoal has effect on the land that makes the land unproductive as the micro-organisms which decompose to form nutrients for the crops are burned that resulting to low yield of crops in the farm. Also burning of charcoal produces smoke which can also interfere with the ozone layer hence leading to low rainfall and pollution of the environment and the atmosphere. If the people in the society are educated about grafting of fruit trees which will provide land cover and increase soil fertility thus replacing the trees that has been cut down. In the previous years after planting the fruit trees they will be able to plant fruit trees which will provide land cover and generate income through selling of grafted seedlings and fruit trees thus minimising deforestation in the area surrounding our school. Then the income generated can be used in other activities such as paying school fees for the youths in the community hence making them committed to academic works. This will make people not to cut down the trees in their surrounding area because they have found a solution that will make them get money and not to cut down the trees again.

LOW LIVING STANDARDS

low living standards can be brought up by lack of food, clothing, basic diets and houses. After touring the society around our schools we discovered that many people have low living standards which it has resulted to depression and isolation. Depression is the state where one is stressed beyond control and isolation is the state where one likes living alone without interacting with others people they have stress because they don't have money to buy food or basic diets for their children to pay school fee so you find that there children are been sent away to bring money and the parents don't have the money. The parent may have the stress. Though our project we found out our problem can be solved. If the people had been educated about grafting, they are able to sell seedling fruits and the produced fruits can generate income or after planting the seed trees they can sell the fruit and generate income as well. The generated income can be used to improve their living standards. for example buying food, clotheings, constructing good housing and balanced diet and also they can decrease stress in people parent can also get money to pay school fees for their children. That's how the problem of low living standards are solved.

- Group discussion and presentation was done in group of four

GROUP NUMBER FOUR

MEMBERS

INDEX NUMBER

Munyoki Agnes	Kambua	1830730707
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low living standards
malnutrition of the children and hygiene

low agricultural produce

Unemployment

High death rates

Poor health

Poor roads

High birth rate

Deforestation

Scarcity of water

Idleness

Early marriages

School drop outs

Crime such as thefts

Soil conservation

After discussing on our project of grafting avocados, some of the problems we encountered are listed above which I have discussed in the previous pages

PROJECT IMPLEMENTATION

Grafting is the practice of uniting two separate woody stems. usually one of the two parts provide the base and has a rooting system whereas the other part is obtained from another plant. The rooting system is known as ~~root stock~~ while grafted root stock is known as ~~Scion~~

The scion has buds which develop into the future plant. The ability of scion and root stock to form a successful union is termed as compatibility.

A young man in the society came out school to show us directive ways of grafting avocados after he showed us we then did it individually using Tongue Grafting method.

Problem and project identification - 30 mks

Group discussion and presentation - 30 mks

Group project poster - 5 mks

problem implementation - 40 mks

Reporting on progress - 19 mks

Project report - 19 mks