

Series 8, Episode 6

Sarah and Joseph's Farm, Uasin Gishu, KENYA

This leaflet contains information on: solar TV system, potato pests and diseases, breeding cows, feeding calves

If undelivered, please return to The Mediae Company, PO Box 215-00502, Karen.

Azuri PayGo Solar TV System

Kerosene cannot be used to power home devices like radios and TVs. A generator can be used but it is very expensive. Solar systems use energy from the sun to make electricity. The sun is free. The Azuri PayGo Solar TV System comes with:



sunlight and turns it into electricity. you to use at night.



A 50 Watt solar panel. This attaches A battery. This connects to the solar 4 lights with switches. You can to the roof of your house. It catches panel and stores the electricity for have light in 4 different rooms of



vour house!



by the battery.

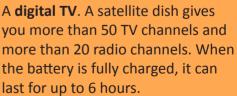
A solar-powered radio. It is charged A small torch. It is charged by the battery.

The solar system also comes with charging cables for your mobile phone.



You can pay a deposit of 4,999/-, with a 1 month advance payment of 520/-. Then pay 130/- per week.

The Azuri technical team will install your Solar PayGo TV System for free. Send a free SMS to 22213. Their customer care agents will call you back.



The average farmer spends 60/per day on kerosene. The Azuri system works out at 99/- per day, but includes all of the above features.

Potato Pests and Diseases Whiteflies Cutworms



You may see these white flying insects on the leaves and stems of your potato plant. If you shake the plant, you will see the whiteflies flying around the plant.



These grow into moths. The worms The worms of these moths make cut the stems of your potato plants holes in your potatoes while they at soil level.

Potato Tuber Moths

For more information, SMS "PESTS" to 30606



are still in the soil. You will not get a good price from potatoes with holes in them.

Kill flying pests with Nimbecidine and Final Flight

Kill flying insects like Whiteflies, Aphids & Thrips by using *Final Flight* and *Nimbecidine* together. *Final Flight* is synthetic and insects can develop resistance to it if used repeatedly. However, Nimbecidine is a biological insecticide. The pests cannot build up resistance to it.



Mix 50ml of Nimbecidine and 8g of Final Flight in 20L of water.

Spray your crop early in the morning or late in the afternoon. Make sure that the leaves are covered on both sides.

Spray once a week. If you have lots of pests, spray twice a week.



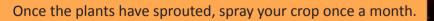
The first sign of a Potato Cyst Nematode attack is withered plants. When you see this, check the roots. If you see galls (round lumps on the roots) then you know it is Potato Cyst Nematode.

The galls stop the roots taking up nutrients. The plant cannot grow without nutrients so it withers and dies.

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NIMBECIDI

To prevent Potato Cyst Nematode, mix 50ml Nimbecidine and 20ml *Bio Nematon* with 20L of water. Soak the seeds before planting.



Potato Late Blight



Potato Late Blight is a fungus disease. It starts as small light to dark green spots at the tip or edge of lower leaves. Spots grow into large dark brown or black areas. It causes the leaves of your potato plant to turn yellow and then dry up.

Treat Potato Late Blight with *Matco* 72. Mix 50g of *Matco* 72 in 20L of water. Spray your potato crop once a month.

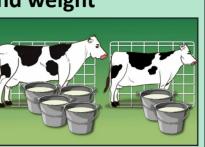


First, decide what you want from your cow. For milk? For heifers to sell? Is your cow good for breeding?

Look at stature and weight

Big cows produce more milk.

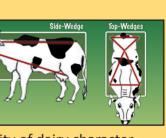
If you can spot 3 ribs, the cow is a good weight and the stomach will be a good size.



If the stomach is big, the cow can eat more which helps it to make more milk.

Look at the shape

A good cow is shaped like a wedge. One of the side lines runs along the back bone and the other along the chest and belly, if the lines widens towards the



rear side of body it shows quality of dairy character.

Choose your bull from Coopers CRV catalogue



You can correct bad characteristics with AI. For example, look at your cow's udder. Is it too high? Too low? The best is number 3 in the picture. If the udder is too low, choose a bull that will give a calf with a high udder.

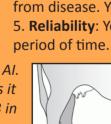
Doing the Al

Choose your bull BEFORE your cow comes on heat. Heat only lasts 14-18 hours.

A cow on heat will have a swollen vulva and clear discharge. When you see blood, you are too late.

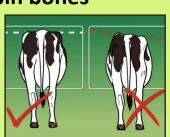
Make sure the vet is qualified and experienced. A failed AI is expensive because there is delay in giving birth & getting a calf. It also delays profits from selling milk.





Getting a good milk yield begins with breeding. Use artificial insemination (AI) to improve your cows over time. Always breed with a pure bred cow. The calf will be worth more if you decide to sell it.

Look at the pin bones The pin bones on the cow's back should be balanced and wide. This helps the cow to calve more easily. Less complications



when giving birth means less veterinary expenses.

Look at udder attachment

The udder should be attached well. If the udder is too long and too close to the ground, it is more likely to get an infection like mastiti



The catalogue lists characteristics such as large udder, strong back legs, and longevity. When choosing your bull, think about:

- 1. Milk production: More milk is more profit.
- 2. Longevity: You want your cow to live a long time.
- 3. How it looks: You can get a better price for cows that look good. 4. Health and fertility: Your cow should have a good udder free from disease. You want it to be healthy and to give many calves. 5. Reliability: Your cow should give calves and milk over a long



Keeping Records The Coopers Dairy Farmer Record **Book** helps you to record all the details

of your dairy herd, such as illnesses, treatment and calf production.

It helps farmers to judge the value of their cows and get good prices for them at market



Feeding Calves

With good nutrition, your calf should reach breeding age in 12-15 months. Give Sprayfo milk replacer to your calf so that you can sell the milk from your cow.

Spravfo Milk Replacer



Sprayfo is a milk replacer that is high in protein and energy for fast growth. The milk replacer is cheaper than cows milk. It is given to a calf instead of taking its mother's milk. By selling milk, you will make enough money to pay for the **Sprayfo** and make a profit.

Mix 300g of *Sprayfo* with 2L of clean warm water. The water should be between 40 and 45°C. This is the body temperature of the cow.

For the first 3 days, give vour calf colostrum.

From 7 days to 1 month, feed your calf 6L of *Sprayfo* a day. Divide it into 3 feedings. Feed 2L 3 times a day.

From 1 month until weaning, feed your calf 7L of Sprayfo a day, divided into 2 feedings. Feed 3 1/2L in the morning and 3 ½L in the evening.

Feed your calf with a raised bottle or bucket feeder





position.

This is to keep the calf's head in the correct The milk will bypass the rumen and go straight to the stomach.

Calf Weaner Pellets

Calf Weaner Pellets are high in protein and energy. They also contain lots of vitamins and minerals. They help your calf to have strong bone structure and to gain weight fast.

Feed Calf Weaner pellets to your calf from 5 days old. Start with ½kg per day. Slowly increase to 1.5kg per day by 2 months.

At 2 months, when the calf is eating hay only, the rumen will be able to break it down as it has been prepared by the pellets.

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