

African Honey Dee subsistence farming quide



by Elize Ferreira









Happy farming.





Introduction

Can you imagine what it must have been like for the Israelites when they were suffering hardship and poverty in the Desert for 40 years? No home, no water, difficult to produce food, clothes and so on. It sounds like poor people living in South Africa doesn't it? Life is hard especially in rural areas.

Like the Israelites that complained to God through their leader Moses, we as poor people complain to our government. Our government has after all promised us a better life. We often feel entitled and feel that we voted for them so they should now give us things to make our lives better. When the government doesn't give us the things that make our lives better we complain and Toyi-Toyi. The Israelites were the same, they complained to God.

When the Israelites complained to God, He said back to them "the Lord your God has blessed you in all the work of your hands. He knows you are going through this great wilderness. These forty years the Lord your God has been with you. You have lacked nothing." (Deuteronomy 2:7)

We must understand that Jesus died on the cross for our sins so that we can be free. We must also know that God gave us skills - He has blessed our hands - He has made it possible for us to not only survive but to make our lives better for ourselves with our own hands. We don't need to rely on anyone or anything except for God our creator and redeemer.

This booklet gives a few ideas of how you can change your own life with the things that you have around you, with your own hands and abilities that God blessed you with.

God bless

Guy Stubbs African Honey Bee





The first thing you need to understand is how to run a business.

An example of a simple business that you can turn R40 into R80 is to make sandwiches and sell them the same day.

It is very important to record all your expences and income for each transaction. At the end of the transaction you will have available cash. It is important to keep a Cash Flow sheet going all the time.

Cash Flow

Date	Transaction	Out	In	Available	Cash







Sandwich

BUSINESS PLAN



PRODUCTION PLAN















16 slices of bread + 8 slices of ham + 8 slices of tomato + a small Rama + 8 sandwich bags



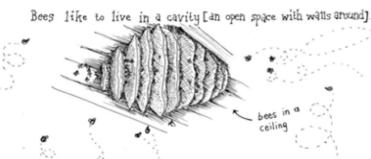
CASH FLOW					
Date	Transaction	Out	In	Available cash	
02-Feb	Buy 1 fresh loaf of sliced white bread @ R12	R12		-R12	
02-Feb	Buy 8 slices of fresh sandwich ham @ R1 each	R8		-R20	
02-Feb	Buy 2 tomatoes @ R3 each	R6		-R26	
02-Feb	Buy a small pack of Rama @ R8 each	R8		-R34	
02-Feb	Buy 8 sandwich plastic or wax paper bags 50c each	R4		-R38	
02-Feb	Make 8 sandwiches			-R38	
02-Feb	Sell the sandwiches just before lunch @ R10 each		R80	R42	





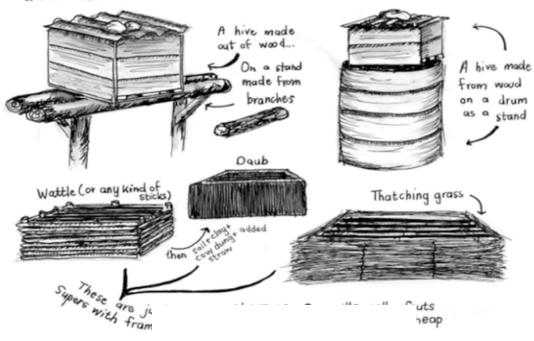


make an Africaive



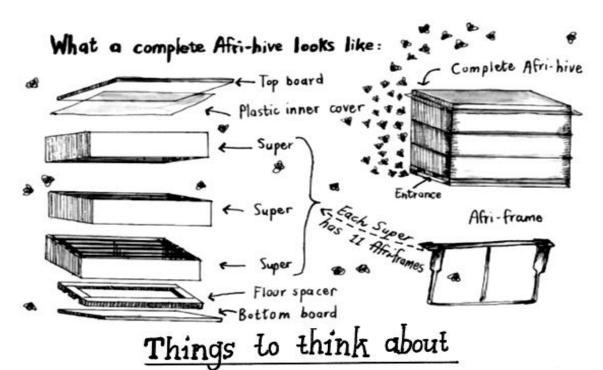
So we make a cavily in the shape of a box to keep the bees in.

You can make a hive with stuff that can be found around your home/village. A lot of people make hives from wood. You can also use thatching grass, clay, cement, daub and wattle and so on.

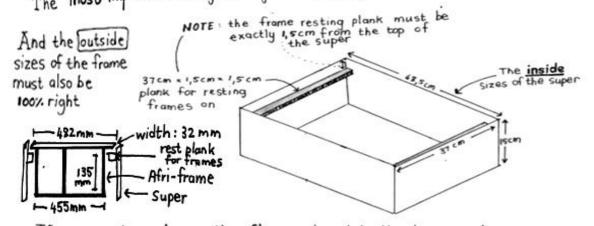




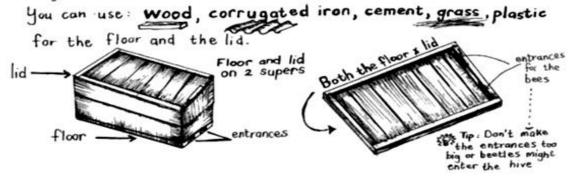




The most important thing is to get the linside sizes of the super 100% right!

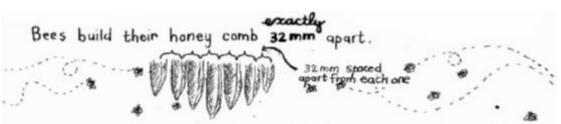


If you make a box with a floor and a lid-the bees can live in it.









So if we put bits of wood inside the box where each bit of wood has a small strip with beeswax on and we space these bits of wood exactly 32 mm apart—the bees will build their comb onto the bits of wood. We call these bits of wood: FRAMES

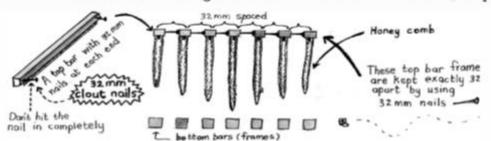
Frames can also be bought - like the Afri-frame



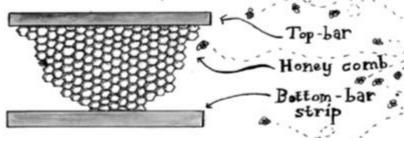
HOW TO MAKE A TOP-BAR FRAME



Spaces at each end. Cut a piece of Masonite stroke plywood to fit into the groove. Glue the Masonite in the groove.



Tip: If you use lose strips of wood below the top-bars —
the bees can build their honey comb down and attach
it to the strips, separating the comb so that it can
be taken out in one piece.



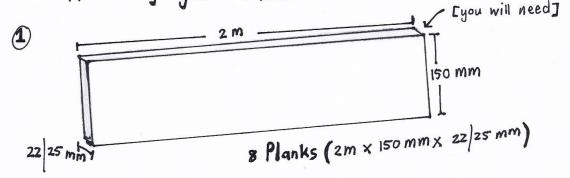




A cost effective hive for smallscale beekeepers

Step 1

For making one hive [including: 1 floor, 1 lid, 4 supers, 1 inner cover and 44 frames] you will need:



[you will need] T3mm wide

88 Strips (440 mm x 12,5 mm x 3 mm).

you can cut the strips to size yourself, if you can get sheets of board/plastic

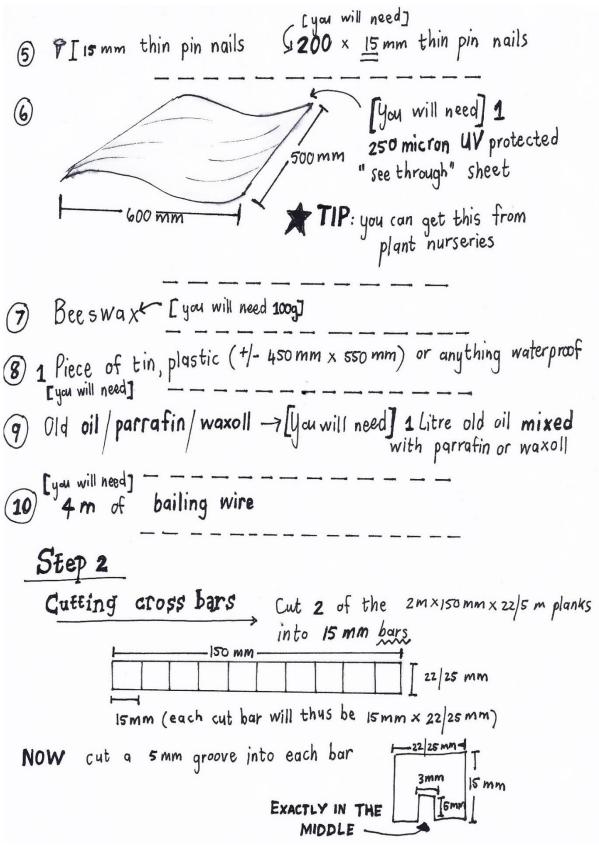
TIP
The strips can be masonite or plywood or plastic or anything rigid & solid

3 T] 32 mm thin clout nails G600 x 32 mm clout nails

4 T [60 mm thin clout nails [you will need] thin clout nails

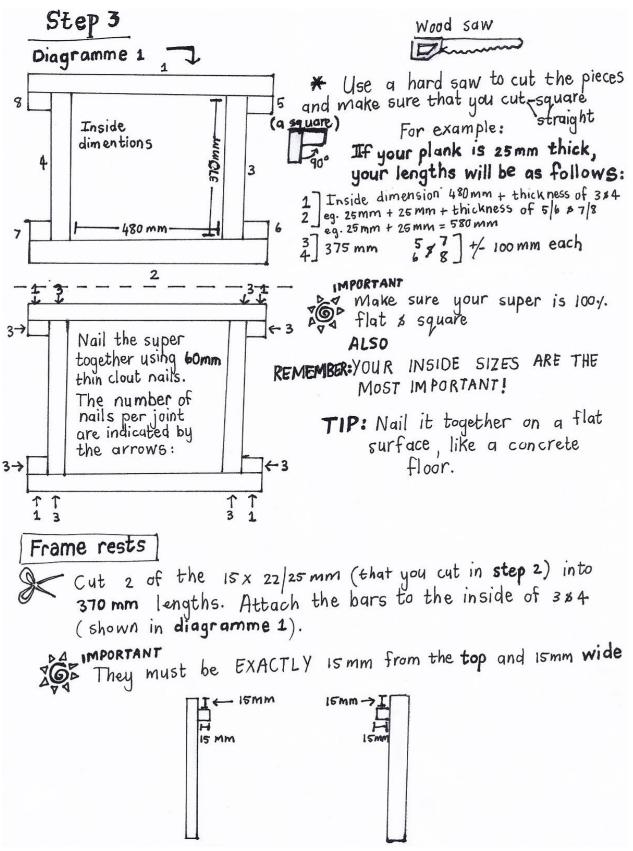








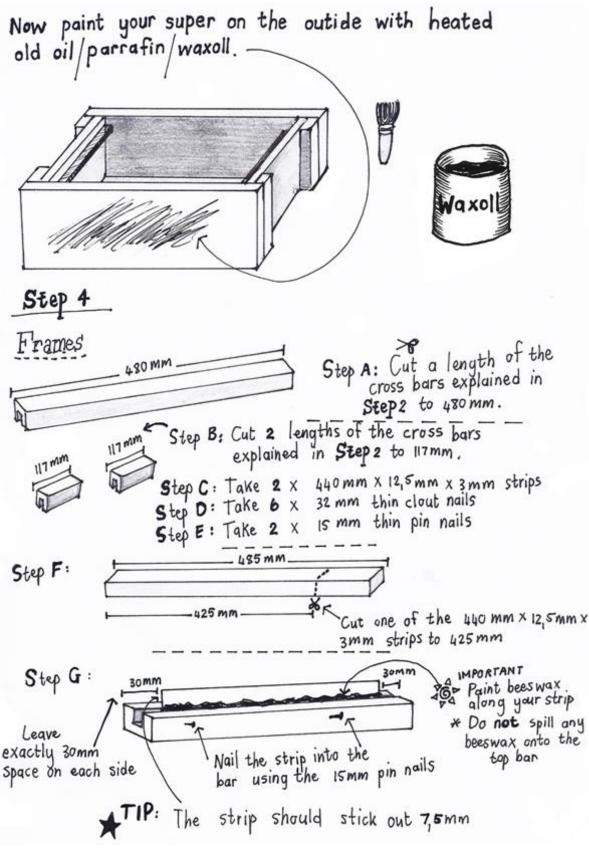






Elize Ferreira ©2017

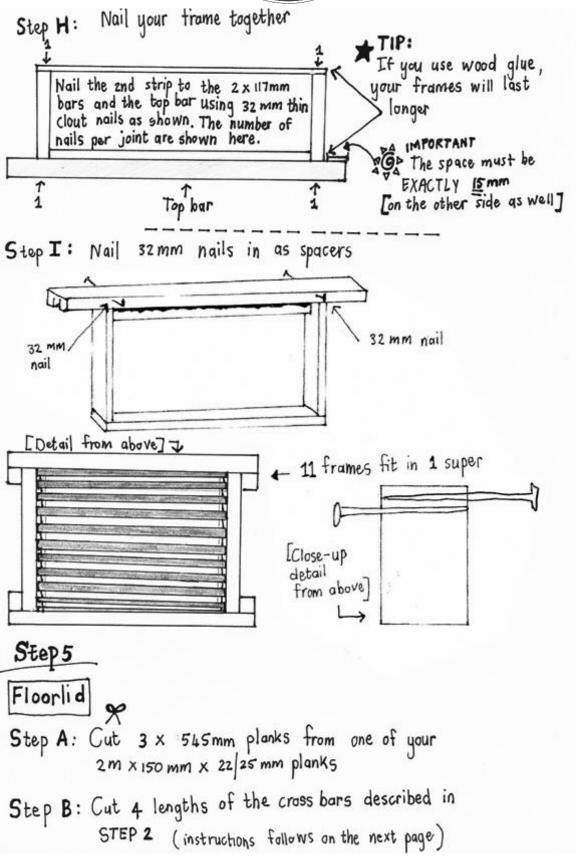






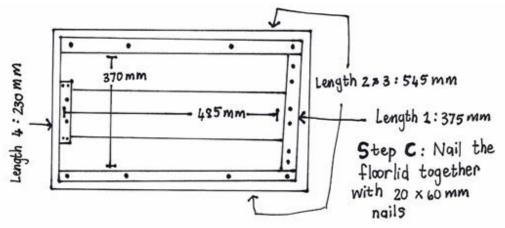
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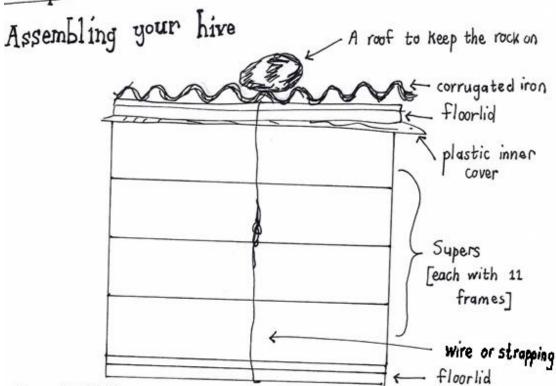








Step 6



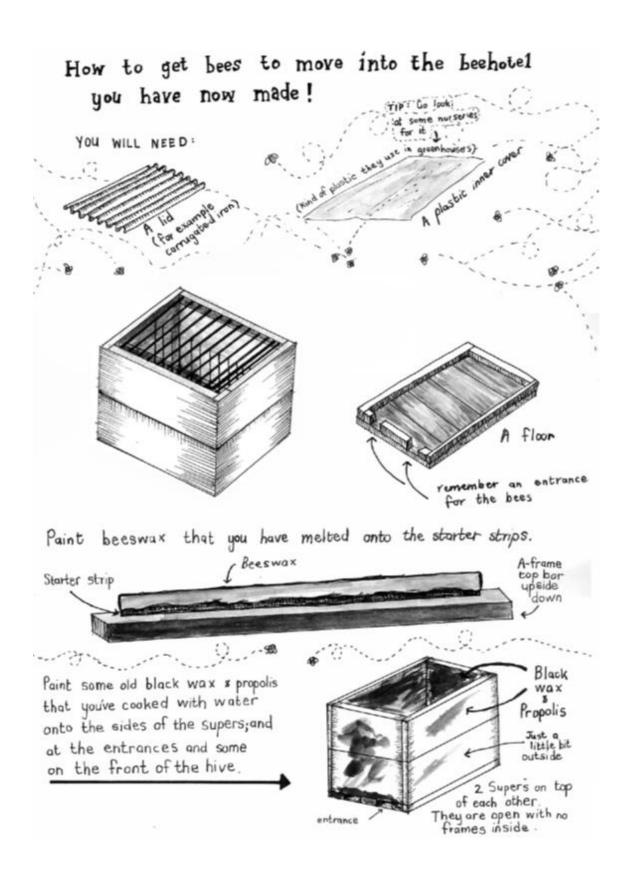
Your hive will only look like this when your swarm is very strong

You will move the plastic inner cover up and down depending on the strength of your swarm.

Start by using 2 supers to catch your bees and then add the other supers one by one as the colony gets stronger.



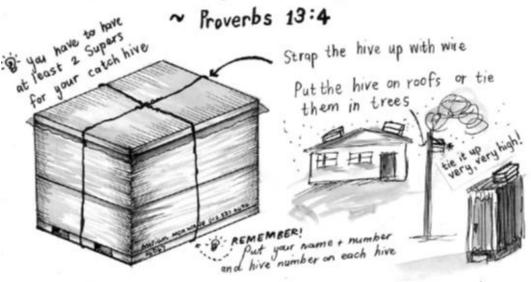




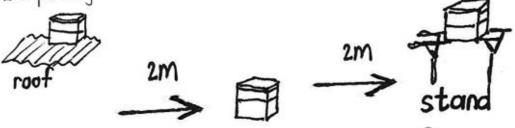




"The soul of the sluggard craves and gets nothing, while the soul of the hardworking is richly supplied."



Move your hive at least 5km from where you caught your bees so that the bees can't find their way back to where they were caught or 2m per day so that the bees can't find their queen.

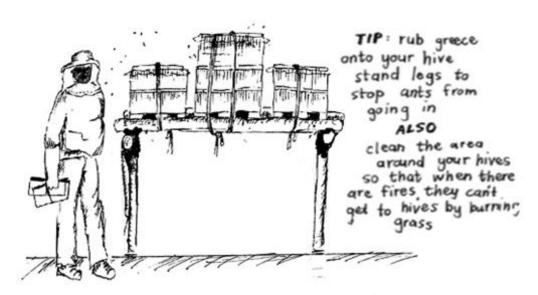


Put your hive onto the hive stand (Which we will show you how to make on the next page). Tie the hive on with some wire or strapping.

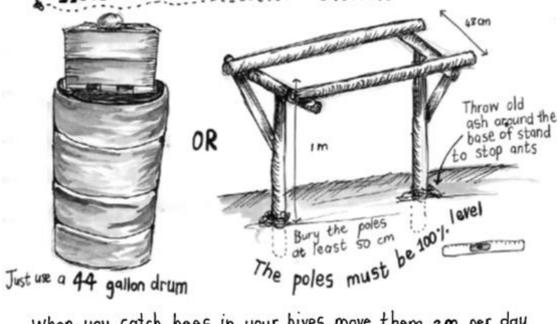
Protect your bees from fires, ants, honey badgers and other tsotsis.







How to make a hive stand:



When you catch bees in your hives, move them 2m per day to your hive stand.

Now you have bees that God has given you in your hive.



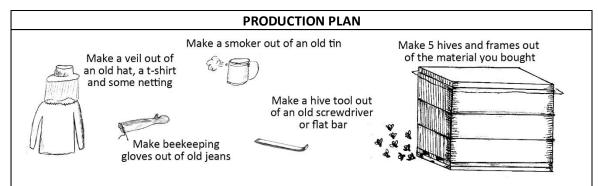




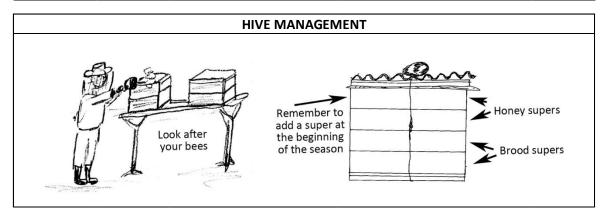
Honey

BUSINESS PLAN





5 Flat-packs (the materials you need to make your hives) will cost R2 500. Of course if you use old pallets or thatch grass, you will not have this expence. All your other safety clothes and tools, you can make from scrap, which will cost you nothing.



CASH FLOW 1 - BOUGHT STUFF					
Date	Transaction	Out	In	Available cash	
02 February 2017	Buy 5 Flat-packs @ R500 each	R2 500		-R2 500	
02 February 2017	Buy a veil, gloves, smoker and a hive tool	R1 500		-R4 000	
02 July 2017	Sell 50 kg honey @ R50 per kg		R2 500	-R1 500	

CASH FLOW 2 - MADE STUFF					
Date	Transaction	Out	In	Available cash	
02 February 2017	Make 5 hives from pallets/wire and straw	R1 000		-R1 000	
02 February 2017	Make a veil, gloves, smoker and a hive tool	RO		-R1 000	
02 July 2017	Sell 50 kg honey @ R50 per kg		R2 500	R1 500	





How to make a. weil, beekeeping gloves. working with your bees

TO MAKE A YELL AND BEEKEEPING GLOVES YOU WILL NEED:

1 hat (like a cricket hat)

2: same wire : 3: a long sleeve

4 : some gause or mosquito 5: Cotton thread 6: netting or fly screen

some old jeans

and took you will need: Elothing scissors, needle and pliers cricket hat. wire sewed onto

Mosquito netting / gause) fly screen

> Long sleeve t-shirt

the rim of the hat to Keep it open

all you have to do: Sow the mosquito netting anto the hat and the t-shirt

TIP: If the mosquito netting is white - then dye it so that it is dark/black so that you see better through the netting.

Adidas

trust in Him & He will act. ??

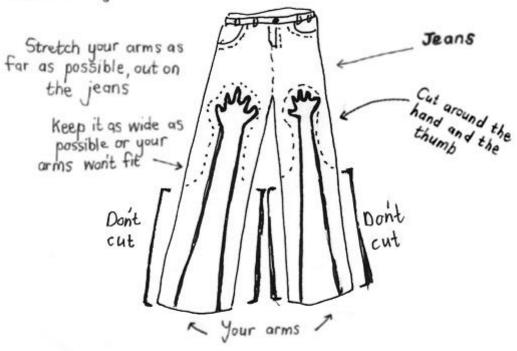
~ Psalms 37:5

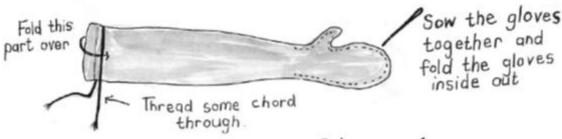




To make beekeeping gloves:

Make the gloves as long as possible.





To make a hive tool:

You will need some flat bar

Bend it at the end and grind the tips

or an old screwdriver

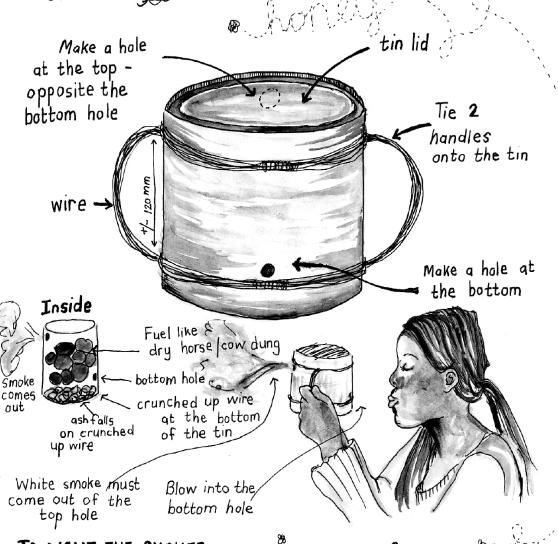






To make a smoker:

you will need an old paint tin with a tin lid and some wire



TO LIGHT THE SMOKER:

- 1. Start afire in the smoker using thin grass/newspaper
- z. add fuel like dry horseldonkey dung
- 3. blow to get the fire going
- 4. put the lid on tight
- 5. keep blowing to keep it going



Smoke calms the bees because they cannot communicate when there is smoke around.

They also eat lots of honey when aetting ready to leave - so don't over smoke them, otherwise they will leave.





to make

Here we will teach you to make a chicken hok . You can use it for 2) meat chickens or 2) egg chickens. There are some differences so please read carefully.

YOU WILL NEED;

- 2 poles (+/- 3m)
- D i pole (+/- 3,6m)
- Q 6 poles (+1- 1,5m)
- @ wire 100000
- (nails
- O corrugated iron
- O chicken mesh %
 - Q 1 × 2 ℓ (ampty) coke bottle
 - O'U" shaped nails
 - 0 1/- 3m thin roosting pole
- > 3m (1/2) long also! a little bit a zm (1/2) wide also! to make the doors

In addition for the chicken hok for egg-laying chickens you will also need:

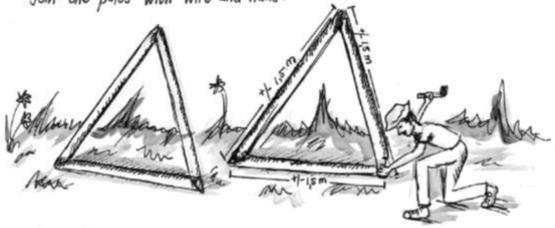
- another 2 x (*/-) 3m poles
- an extra 2 x (+/-) 0,75 m poles
- Some straw, shavings or anything like it for the nests





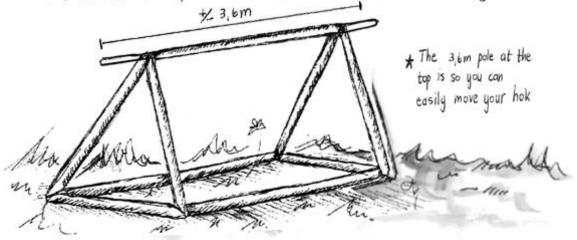
STEP 1

Take the b poles (+/- 1,5 m) and create 2 triangles. Join the poles with wire and nails.



STEP 2

Join the 2x(+/- 3m) and 1x (+/- 3 bm) poles with the triangles



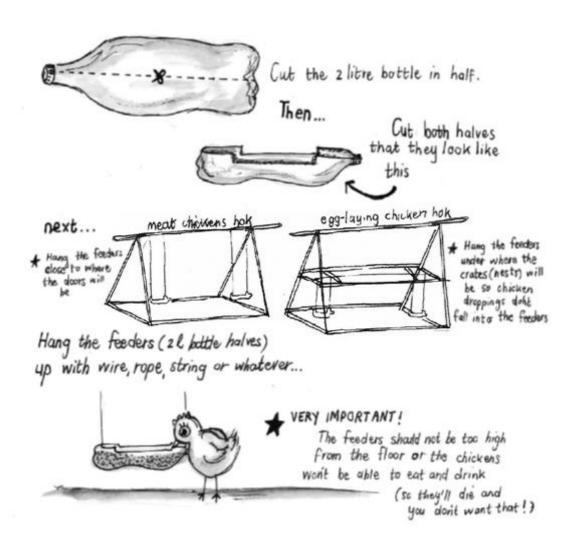
IF YOU ARE GOING TO BUILD A CHICKEN HOK FOR EGG-LAYING CHICKENS, FULLOW THE NEXT STEPS AS WELL :

Add the roosting pole in the middle. Join the extru 2 t/- 3m poles to the sides of the Add the other 2 the crates will rest on them). A-frame.

add the 2 el- 0,75 m poles to the 2 triangles





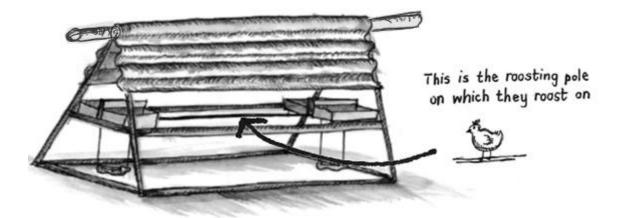


Whatever you do, work heartily, as for the
Lord and not for men, Knowing that from
the Lord you will receive the inheritance
as your reward. You are serving the
Lord Christ ** ~ Colossians 3: 23-24

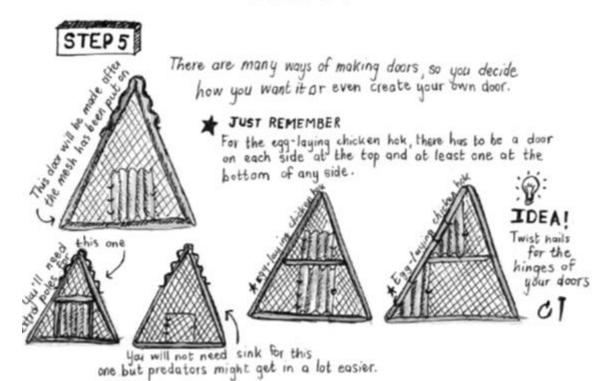




For STEP4, this is what the chicken hok for the egg-laying chickens will look like



Whoever works his land will have plenty of bread, but he who follows worthless pursuits lack sense. ">
Proverbs 12:11







STEP6

Even though the chicken mesh in the Putting on the chiken mesh: picture looks like this: chicken mesh actually looks like this: DID YOU KNOW? Chicken mesh has Calsium in it, which is good for the chickens and VERY IMPORTANT lets the hens lay more eggs The chicken mesh shouldn't stop at the poles. They should stick out a bit more. This way predators can't crawl into your chicken hak and eat them. What do you use for putting the mesh on? "U"-shaped nails and Wire least to hold the mesh

against the ground

The Lord will open to you his good, the heavens, to give the rain to your land in its season and to bless all the work of your hands. And you shall lend to many nations, but you shall not borrow.

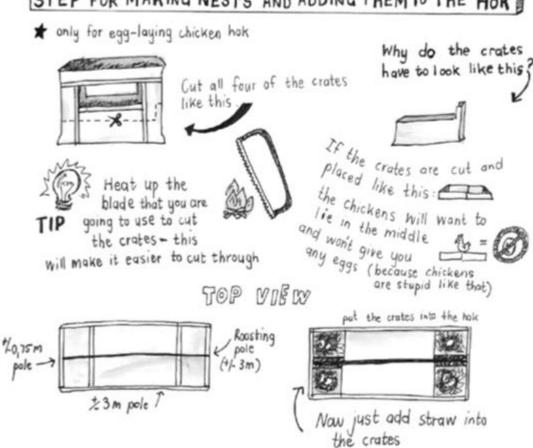
~ Deuteronomy 28:12





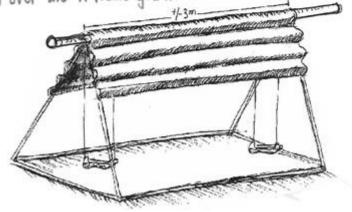
FOR THE EGG PRODUCTION HOK:

STEP FOR MAKING NESTS AND ADDING THEM TO THE HOK



STEP4

you can now put the roof on by bending the 4-3m long corrugated iron over the A-frame you have built so far.



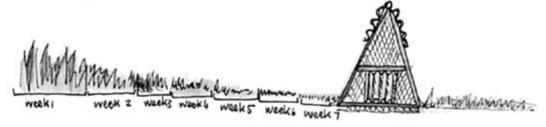




IT IS VERY IMPORTANT TO MOVE YOUR HOK ONCE A WEEK

MHYP

- 1. The chickens needs fresh grass to hunt insects.
- 2. After a week there will no longer be grass and that is when you need to give the soil a chance to grow new grass.
- 3. Chicken droppings work great as fertilizer, in other words: your grass will grow faster and longer after you have moved the chicken hok.



Move the chicken hok the width of your chicken hok every week.

CHICKENS FOR EGG-LAYING

- → You will need to buy 20 hens (must be 6months old) and 1 rooster

 ★ local chickens are the best!
- When you have bought your chickens, you have to keep them in your A-frame chicken hok for 2 weeks without letting them out.
 - * Always feed them inside the hok.
- You can also feed them (just for extra) with leftover vegetables or fruit.
- They should always have Fresh water.
- Only keep the hens. If you get roosters, sell them.
- If the hens are 2-years old, sell them for meat.
- => Replace the rooster if he is no longer mating with the ladies.

(the next page has more information) >>





- Fetch the eggs every 3rd day. If you leave the eggs for a while it will encourage the hens to lay eggs again.
- Feed your children at least one egg before you sell or give the eggs to adults.

Children 0-st years old develop the most in this time

It is very important that they get protein (eggs, meat), vegetables (green and raw) and carbohydrates (pap, rice)

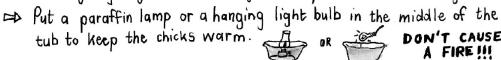
for best development.

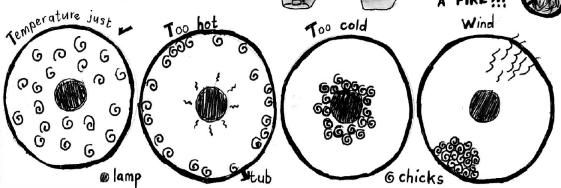


her ways, and be wise. Without having any chief, officer, or ruler, she prepares her bread in summer and gathers her food in harvest." ~ Proverbs 6:6-8

CHICKENS FOR MEAT

- → Make sure your chicks are not too hotor cold
- Put them in a place where there is not too much wind
- When you get your chicks 1 day old, keep them in a tub (big).









Feeding for chicks

- Plan the amount of food you need before you get the chicks.
- Keep the food in a dry place and away from rats
- Have a bowl for food and water. * Put little rocks in the bowl of water so the chicks don't drown. Always feed them in the hok.

What to feed when:

1) Meat chickens

10 kg	Week 1-3	Starter mash	Kept inside with lantern or lamp
20 kg	Week 4-5	Grower mash	into the chicken hok
10 kg	Week 6-7	Finisher mash	_/

2) egg chickens

only feed them when they are laying

· give them 1 cup per day for 10 laying hens as well as:old pap, vegetables, etc.

remember tot feed and give the hens water in their hok

Keep the hens in the how for 2 weeks if they start laying all over the place.

mow you can sell your chickens!



Mhat does free range Chickens mean?

A bird that lives outside, has fresh food to eat, gets sunshine and room to exercise.

But most importantly, it has not been given any chemicals (for example, antibiotics or hormones.

Free range chickens are a lot healthier for people than chickens that are not free range.







Free-range Chicken Eggs





PRODUCTION PLAN

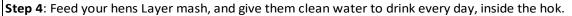
Step one: build your chicken hok like the one in the AHB subsistence manual.

Step two: Buy good quality 6 month old Zulu hens that have started to lay.

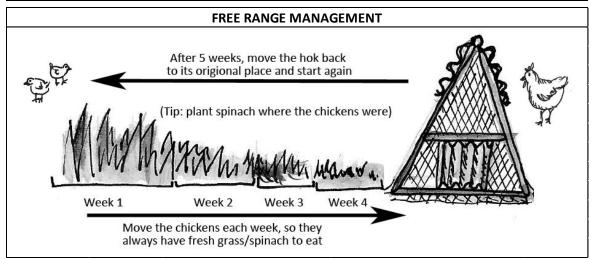
Note: Do not waste layer mash on growing chickens (under 6 months), roosters or old hens.

Step three: Keep the hens closed in the hok for 2 weeks before letting them out.

Note: Feed them well with Layer mash and other food while they are locked in.



Note: If your hens start to lay in other places, lock them in the hok for 2 weeks.



	CASH FLOW					
Date	Transaction	Out	In	Available cash		
02-Feb	Buy 10 six month old Zulu hens @ R120 each	R1 200		-R1 200		
02-Feb	Buy 40 kg Layer mash @ R5 per kg	R200		-R1 400		
02-Mar	Sell 200 x eggs @ R1,5 each		R300	-R1 100		
30-Mar	Sell 200 x eggs @ R1,5 each		R300	-R800		
27-Apr	Sell 200 x eggs @ R1,5 each		R300	-R500		
25-May	Sell 200 x eggs @ R1,5 each		R300	-R200		
22-Jun	Sell 200 x eggs @ R1,5 each		R300	R100		
20-Jul	Sell 200 x eggs @ R1,5 each		R300	R400		
20-Jul	Buy 40 kg Layer mash @ R5 per kg	R200		R200		
17-Aug	Sell 200 x eggs @ R1,5 each		R300	R500		
14-Sep	Sell 200 x eggs @ R1,5 each		R300	R800		
12-Oct	Sell 200 x eggs @ R1,5 each		R300	R1 100		
09-Nov	Sell 200 x eggs @ R1,5 each		R300	R1 400		
07-Dec	Sell 200 x eggs @ R1,5 each		R300	R1 700		
04-Jan	Sell 200 x eggs @ R1,5 each		R300	R2 000		
01-Feb	Buy 40 kg Layer mash @ R5 per kg	R200		R2 100		





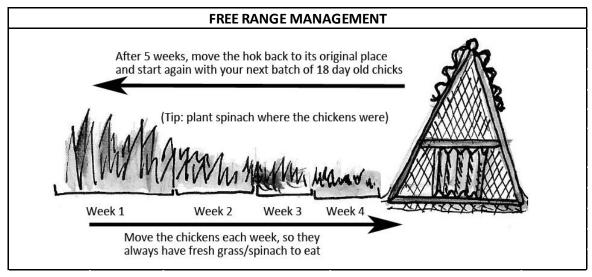


Free-range Chicken Meat



BUSINESS PLAN

PRODUCTION PLAN							
Number of chicks	Starter mash	Grower mash	Finisher mash	Total			
10	10 kg	20 kg	10 kg	40 kg			
Cost of food	R50	R100	R50	R200			
Weeks	weeks 0 - 3	weeks 4 - 5	weeks 6 - 7	7 weeks			
300		AFFER ATTENDED TO THE PARTY OF	The state of the s				
Brooder Chicken Hok							



	CASH FLOW					
Date	Transaction	Out	In	Avaliable cash		
02-Jan	Buy 10 day-old chicks @ R7 each	R70	RO	-R70		
02-Jan	Buy 10 kg Starter mash @ R5 per kg	R50	RO	-R120		
02-Jan	Buy 20 kg Grower mash @ R5 per kg	R100	RO	-R220		
02-Jan	Buy 10 kg Finisher mash @ R5 per kg	R50	R0	-R270		
17-Mar	Sell 10 x 45 day chickens @ R100	R0	R1 000	R730		

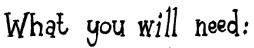




What is a tower garden?

They are small upright gardens that can be watered by water that has already been used (like water used for washing clothes). - great way of

The garden is grown in a big sack (nylon gunny bags) with holes in it. Some vegetables are planted in the holes and other in the top soil.



- + 4 poles or straight branches
- → A sack (like used for mealie meel) * will last only one season
 - OR black plastic sheet (but it breaks quickly because of the)
- OR The best option: green shade netting (lasts a lot longer)
- → Nylon string or fishing line or wire
- → Soil mix (will show on the next pages how to make it)
- → 10 l bucket or big coffee tin
- -> stones to put in the bucket tin

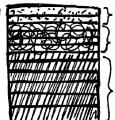






Step 2:

Make your soil mix (this mix will make sure your shap! vegetables grow well).



2 parts of wood ash
4 parts manure (chicken)
Cow dung)

MIX it all together

Fill your sack netting with 4 poles with your soil mix

Don't fill it completely because you still have to put your bucket/coffee tin with stones in.

Step 3:

Now put your bucket tin with holes inside

NEXT

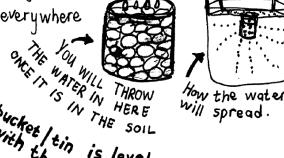
pack flat, smallish stones evenly,

so the water can spread to everywhere

NOW

you fill the tower with the rest of the soil mix around

the bucket tin



The Lord will command the blessing on you in your barns and all that you undertake. And he will bless you in the land that the Lord your God is giving you."

~ Deuteronomy 28:8





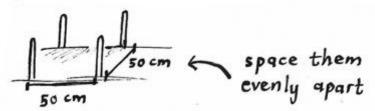
Pennies? and not one of them is
forgotten before God. Why, even
the hairs of your head are all numbered.

Pear not, you are of more value
than many sparrows.

Step 1:

If you are using a sack, put the 4 poles in the sack and stretch it like a square from above

If you are you going to use shade netting, put the poles in the ground first.

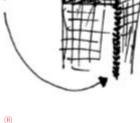


THEN

Put the netting around the poles. You can decide for yourself how much you need. OLLURE

THEN

Tie the ends with nylon string | fishing line | wire to form a cylinder (very tightly).

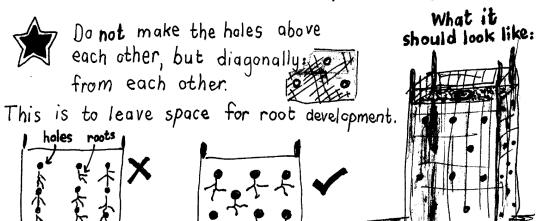






Step 4

Make holes in the sides of the sack | shade netting



NOW

you can plant your vegetable seedlings in the holes and on top of the tower.

Leafy Crops are the best choice to plant in the holes, made in the sides of the tower



You can plant tomatoes and onions on top of the tower.

0 Watering

It is easy to water your tower garden because you can use used water.

O Used water is like: water that was used for cooking or washing

It doesn't matter if the water is soapy of Helps against bugs

Just give them 2 buckets Of of clean water once a week

A How much: Just enough to keep the soil moist.

If there is a puddle at the bottom of the you are giving it too much water.







how to make Seedling Shelf

It is a garden where young plants grow from a seed

What you will need:

→ Some vegetable seeds 😸 → Some sticks



empty can/small bottles & soil mix



dry grass (like that ching grass) bricks or samething similar

Step 1:

Make a rack.

Take some sticks and put them on bricks rocks



You can use these too



if you have a space between the sticks put the bottles upside down between the sticks

Whatever you do, work heartily, as for the the Lord and not for men. "

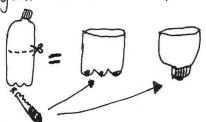
- Colossians 3:23





Step 2

Cut your small bottles cans in half



8 NOW make holes at the bottom for the waters to drain out

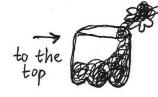
Step 3

Make some soil mix to the manure (chicken, goat, cattle)

Mix it well together

Step 4

Put the soil mix in your cups/cans you have cut.



Now wet it with water so all the soil is most

Step 5

Make a hole with your finger in the soil.





put your seed in the hole and cover it with soil

"Whoever is slack in his work is a brother to him who destroys."

- Proverbs 18:9





Steps 6

Put some dry grass over it



WHY? It keeps the Soil moist and cool

now you can put it on your rack - 000008

Step 7



When your seedling is ready to be planted in the tower garden:

>> THEN: tip it upside down on your hand (with all the soil) don't crush the seedling



NOW) you can plant it in your Tower garden

* Remember

- -> Plant different vegetables (+/- \$ of each)
- To make sure you always have vegetables, plant new seedlings every 2 weeks into your tower gardon.
- The seedlings' soil has to be wet 1 all of the time

Enjoy your vegetables! More tasty than Woolworths vegetables ~





What vegetables o plant together

they help each other, like keeping away bugs.

It is better to plant these vegetables together because

Onion

Plant on top of the tower garden Mielie

Plant on top of the tower garden

Cabbage

Plant on the top or the sides of the tower garden. Cabbage prefers lots of sun.

Pole beans

Plant on the top of your tower garden and train the stems up the pole. It likes mulch (type of material that is spread or laid over the surface of the soil as covering). Keep and dry some beans for planting again.

Spinach

Plant on the top and the side of the tower garden. Begin harvesting single leaves when they're 12-15 cm long. If you harvest plants regularly, they'll continue to produce new growth at the center.

Tomato

Plant on the top or the side of the tower garden. Tie the plants to the poles. Check your plants daily for bugs and cut worms. There are ways to prevent cut worms. One

way is to put a collar around the base of the plant. This needs to be done when the plant is very young and small. You can make the collar out of toilet paper rolls. Cut the toilet roles in half. Make a cut up the side and open it up and place it around the plant stem, pressing it into the soil to keep it stable.







to increase appetite.

Watermelon

Plant at the bottom of the tower garden.

Catnip

Plant on the top and the side of the tower garden.

Great for repelling repels

Aphids. Medicinally, the plant has been used as a tea to treat intestinal cramps, for indigestion, to cause sweating, to induce menstruation, as a sedative, and

Borage

and chicken.

Sage

garden. It is great for repelling Cabbage Moths. It is great herb for cooking pork, beef

/ Plant on the top and the side of the tower

Plant on the top and the side of the tower garden. It is great for Keeping away Hornworm. Borage flower and leaves are used for fever, cough and depression. It is also used to increase urine flow, to prevent inflammation of the lungs, as a sedative, and to promote sweating. Borage is also used to increase breast milk production and to treat bronchitis and colds. In food, Borage is eaten in salads and soups.

with my whole heart, I will recount all of your wonderfull deeds

~ Psalm 9:1





How to plant

Step 1: Dig a hole that is big

enough for the whole root system

* Put the pole in while planting the tree. This will support the tree while it is still very young.

Step 5:

dip to catch the rain or water given to it.

Step 2:

Tie the tree to a pole using wide soft material, like strips of old stockings

Step 3:

Put the tree on a heap on soil or gravel, and spread the roots out evenly in the hole Tip:

No not let that too much is tauching

the tree trunk

Before planting:

Trim (gently cut off)
broken, dead or very
long roots

Tip:

If the soil is heavy loosen it up around the whole so the tree roots can find soft soil to grow into

Step 4:

If it is good soil, you can use it to fill the hole. If it is not good soil, mix it with compost or good soil — then you can fill the hole.

when you are finished with planting the tree, water it and stamp your feet on the soil that is in the hole

with some patience s love you will be able to enjoy delicious fruit!





DATE	DETAIL	MONEY IN	MONEY OUT	BALANCE
Balance from	n previous month			R
		R	R	R
		R	R	R
		R	R	R
		R	R	R
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Balance at t	he end of the month			R

DATE	DETAIL	MONEY IN	MONEY OUT	BALANCE		
Balance fron	Balance from previous month					
		R	R	R		
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		R	R	R		
Balance at th	ne end of the month			R		



Endorsements

Our communities are surrounded by nature. They live in areas with flora that is perfect for honeybee farming. Unfortunately, our youth go looking for employment in cities, while there are opportunities on their doorstep. The project by African Honey Bee and the material presented by them, not only opens our community's eyes to the opportunities, but also helps people learn to read. I highly recommend these booklets.

Sipho Ngema

KwaMbonambi Education Circuit Manager (2017)

Sappi is committed to supporting neighbouring communities to maximise their livelihoods from mobilising all assets, natural, physical and otherwise towards enriching the quality of life they yield. Through our relationship with African Honey Bee and our combined activities, Sappi is excited to see the opportunities that arise from managing, harvesting and sustaining honey bees. The contribution to livelihoods of participating community members cannot be over-emphasised. Any opportunity for income generation leads to major saving as well as increasing what comes into the family's income basket. As we share important lessons from the Asset Based Community Development (ABCD) approach with communities living close to Sappi plantations, the embracing of the AHB related activities demonstrate a commitment to living out the promises of the approach. We endorse this African Honey Bee book as it supports this thinking and approach to community development.

Blessing Karumbidza

Stakeholder Relations Manager, Sappi Forests (2017)

