

Wokim gutpela gaden long taim bilong hangre i kamap.

Dr David Askin and David Kulimbao

NZ MFAT
Climate Change Adaptation
Version 1 –
Dec 2015



TOK SAVE PASTAIM	1
As bilong taim bilong hangre i kamap	1
GOALS.- TAIM DISPELA TRENING I PINIS, ORAIT SAMPELA SAMTING I MAS KAMAP.	1
WOK BILONG GADEN SAPOS I STAP LONG MAUNTEN?	2
Soil loss	2
Use A-Frame	2
Kaukau mounds and rain?	3
GREEN MANURE	4
WOK BILONG YUMI SAPOS TAIM BILONG DRAI NA HANGRE I BIN KAMAP LONG PLES.	5
Tok tok pastaim wantaim ol lain bilong ples.....	5
Samting bilong yumi ol man na meri- Sharing land and water.....	5
SAMPELA ROT BILONG DAUNIM BAGARAP BILONG BINATANG INSAIT LONG KAUKAU	6
TAIM BILONG PAIA	8
Wok bilong lukautim viles- ol haus bilong yumi	8
Wok bilong kamapim gutpela wara.	8
Taim bilong waswas na klinim ol klos	8
Ol lain bilong taun?	9
WOK BILONG GADEN SAPOS AIS I STAP (FROST)	10
Wok bisnis, bihain taim moni i stap bilong baim rais	11
WARA I NAMBA WAN SAMTING	12
Putim wara long sampela hap – Water some part of the garden	12
Gravity feed water supply?	13
Learn how to siphon out of rivers or drums.....	13
WOK WANTAIM ABUS	14
Plantu kainkain bin i gutpela long ol pato, sipsip, meme na rabbit bilong yumi:-.....	14

Velvet bin i kamap kaikai bilong yumi? 14

Sampela diwai i gutpela: 15

Planti arapela kainkain lip i gutpela 15

YU YET KAMAP TISA BILONG OL ARAPELA 16

AS BILONG DISPELA TAIM BILONG HANGRE?..... 16

MONITORING AND EVALUATION..... 18

Tok Save Pastaim

As bilong taim bilong hangre i kamap

**Famili bilong yu
i stap hangre?
Yu yet inap
givim tingting-
bilong wanem
yupela i stap
hangre?**

Sampela gaden bin kamap drai- nogat gutpela ren.

Planti kaukau bin kisim bagarap long weevil (binatang).

Sampela gaden bin kisim bagarap wantaim ais (frost).

Sampela gaden bin kuk pinis wantaim paia.

Planti gutpela graun bin go pinis long taim bikpela ren i pundaun.

Planti gutpela bikbus na gutpela pisin i go pinis. Planti binatang i kamap bikpela bagarap... bilong wanem, nogat pisin bilong kaikai ol.

Sampela lain bilong yumi bin tromoi moni bilong ol. Ol i baim ol Pokies, o kamap spak.

Goals.- Taim dispela trening i pinis, orait sampela samting i mas kamap.

Ol lain bilong ples bai:

- i gat planti kaikai na bai i no inap sot long taim strongpela san i stap yet. (Ating dispela bai het no gut tru long sampela lain sapos wara i sot no gut tru).
- lukautim gut paia na bosim paia bai i no inap bagarapim ol samting.
- ol bai lainim nupela rot na kisim save long nupela pasin long halivim ol long taim bilong hangre na san.
- ol imas halivim arapela long ol samting ol i gat. Kain samting olsem, wara, graun klostu long bikpela wara. Dispela em bai kamap wanpela bikpela wok bilong ol pasta na ol lida man na meri long ples – ol yet i mas i go pas na soim dispela kain pasin.

**I gat planti kain
kain wok i stap
bilong yumi.
Dispela samting
i no tok tok
tasol, em i wok
bilong yumi.**

Wok bilong gaden sapos i stap long maunten?

Sapos gaden bilong yu i stap long maunten, orait yu i mas tingting gut long kain kain rot bilong lukautim gutpela graun (topsoil).

Soil loss

Nogut gutpela graun bilong yu (na pikinini bilong yu) i go pinis olgeta.

	
200 tonnes/ha/year of soil loss, traditional garden system	Almost no soil lost when Flemingia is used as contour planted live fence. A-Frame, na banis i stap laip.
Photos from Philippines.	

Use A-Frame

Contour planting and live fences are an important way to reduce soil erosion and provide mulch or food for animals.



Ol lain ENB yusim A-Frame na planim kain kain banis i stap laip.





A frame, then planting with small shrubs that are good in ENB.

Kaukau mounds and rain?

Ol fama i gat bikpela hamamas long lukim klin na tidy kaukau mounds. Tasol dispela pasin i halivim gutpela graun i go pinis olgeta long taim bilong ren.



Tsak Valley – kaukau mounds, taim ren pundaun, planti graun bai go pinis.




	
<p>Nogat liklik banis, wara i go olgeta na graun wantaim.</p>	<p>The soil that collects in small barriers can be used to go on top of the kaukau mound to hide kaukau from adult weevils that want to lay eggs in the kaukau.</p>

Yu yet yu gat wanem kain kain tingting long dispela toktok?

Green manure

Green manures are plants like wild sunflower, cowpea, tephrosia, crotalaria, lupin that can help to re-build soil fertility. Don't forget that large trees like yar are very powerful ways of rebuilding soil fertility.

Long taim graun i malolo, nogut i malolo nating, na planti wid sid i stap. Dispela em i gutpela.

	
<p>Lupin em i gutpela bilong givim gris i go long graun – long kol ples. Lukim nodules.</p>	<p>Everlasting bin. Gutpela food and fertility building.</p>
	
<p>Wild sunflower – live fence, fertility building.</p>	<p>Tupela kain wait clova i stap.</p>

Wok bilong yumi sapos taim bilong drai na hangre i bin kamap long ples.

Tok tok pastaim wantaim ol lain bilong ples.

- Bilong wanem i gutpela sapos yumi mekim ol kain kain wok long ples? Nogut yumi sindaun na stap nating.
- Noken sindaun na wetim balus o ka long kam na givim ol kaikai, narapela lain i givim long taim bilong hevi.
- Dispela taim bilong drai i bikpela samting tru. Planti lain bilong olgeta provins bilong PNG, na planti arapela kantri tu i gat dispela taim bilong hangre. Yumi imas mekim ol wok na kamap strong long ples bilong yumi.

Samting bilong yumi ol man na meri- Sharing land and water.

- Yumi i mas halivim na skelim ol samting wantaim narapela. Noken larim wara na graun klostu long bikpela wara i kamap olsem rot bilong salim na mekim sampela man i gat planti samting, long samting bilong olgeta lain long ples. Planim gaden bilong yumi klostu long wara, skelim graun wantaim olgeta manmeri. Givim wara long olgeta manmeri.

Sampela rot bilong daunim bagarap bilong binatang insait long kaukau

Planti manmeri wokim nupela kaukau maund. Nogut binatang bilong kaukau kamapim bikpela bagarap moa yet.

Kaukau weevil em i wanpela hevi tru long gaden. I no gat wanpela isi rot long daunem strong bilong em.



Tasol i gat sampela rot bilong halivim yumi.

1. Nogut yu troimwe nating ol pipia kaukau i gat binatang insait. Dispela pipia kaukau i gat planti kiau bilong tupela kain binatang (weevil). Sapos yu troimwe dispela insait long nupela maund ol kiau bilong binatang bai kamap planti moa yet. Bihain yu bai kisim bagarap gen.
2. Kilim i dai dispela binatang i stap insait long ol pipia kaukau. Yu inap kukim long paia, o ting ting gut long sampela rot bilong kilim em.
3. Katim sotpela kaukau rop taim yu laik planim nupela gaden. Sapos kaukau rop i longpela tumas, bai yu putim kiau bilong binatang i go insait long nupela gaden.
4. Troimwe sampela lip antap long kaukau maund. Dispela lip bai reduce cracking in the soil. Some leaves that you



Adults are very small. White larvae inside kaukau are much easier to see.

can try include wild sunflower, flemingia, tephrosia– any leaves that don't have lots of weed seeds. They will protect the soil from hot sun and reduce weeding. The adult may find it hard to lay eggs into the growing kaukau.

5. Wara em i wanpela namba wan rot bilong daunim bagarap bilong kaukau weevil. Yu inap tingting, taim bilong ren, dispela binatang i no bikpela hevi. Orait givim wara i go long kaukau gaden, long taim bilong bikpela san.
6. Tingting gut long planim wanpela hap pulap wantaim kaukau. Narapela hap graun, planim ol kain kain kaikai, tasol, noken larim wanpela kaukau i kamap insait long dispela gaden. (Crop rotation). Sapos graun i bin stap tupela krismas na nogat wanpela kaukau... orait planti weevil bai dai. (Dispela binatang i save kaikai kaukau tasol). Long dispela tupela hap – wanpela hap i gat kaukau na narapela hap i nogat wanpela kaukau... orait →
7. Yusim banis i stap laip bilong kalabusim binatang long wanpela hap tasol. Yusim wild sunflower, Tephrosia, Flemingia, Hibiscus...
8. Harvest the kaukau a little bit early, before damage occurs.
9. Mound soil up over the developing kaukau to hide it from the weevil
10. Noken larim dispela plaua i givim kaikai long weevil. Rausim em.



Sapos yu bihainim ol dispela tok save, orait strong bilong binatang bai go daun.

Taim bilong paia



Wokim lada i stap redi long kilim i dai paia sapos paia i laik kukim ol haus bilong yumi.

Redim wanpela dram wara, na sampela baket na lada long wan wan viles. Ol dispela samting i mas i stap redi long kilim i dai paia long ples.

No ken yusim dispela wara long arapela samting . Em bilong kilim i dai paia tasol.

- Yumi mas lukautim olgeta paia bilong yumi.
- Yumi mas skulim ol pikinini gut long we long lukautim paia. Nogut ol haus bilong yumi i kuk pinis.
- Taim paia i pinis sampela wok bilong em, orait yumi mas kilim i dai paia.

Wok bilong lukautim viles-ol haus bilong yumi.

- Lukluk gut long viles bilong yumi. Sapos paia i kukim gras na kunai i stap klostu long ples orait ol haus bilong yumi bai stap orait o nogat?
- Katim ol gras nabaut klostu long viles.
- Kisim wanpela bikpela dram- dispela samting i mas i stap dram bilong kilim i dai paia.



Wok bilong kamapim gutpela wara.

- yumi i mas boilim ol wara bilong dring sapos wara i no klin tumas.

Taim bilong waswas na klinim ol klos

- Sapos planti lain bilong yumi i stap klostu long wara i go daun orait yumi i mas pulimapim wara long baket, i go longwe long wara na waswas. Na bai doti o sop i no inap bagarapim wara.
- Sampela wara bilong waswas bai halivim kumu i kamap gut.
- Wara i gat sop yu ken kapsaitim antap long ol anian we ol binatang i bagarapim ol.

Ol lain bilong taun?

- Planti man na meri i stap long taun. Planti dispela lain i bin lus tingting long yusim olgeta wara bilong ol. Dispela lain mas wokim liklik haus na waswas autsait. Na wara inap go stret long gaden.
- Ol mas go long liklik wara, kisim wara long baket na givim wara long liklik gaden long haus.
- Planim planti kainkain bin long ol banis. Kamapim gutpela kumu insait long liklik hap graun i stap.
- Sapos tap i stap- painim na rausim olupela wasa na, putim nupela tap wasa- nogut wara i go nating na account bilong wara i go antap.



Wok bilong gaden sapos ais i stap (frost)

- Dispela taim i no isi long yumi lain i stap long hailans. I no gat wanpela isi we long kamapim gutpela kaikai. Tasol, yumi no inap lus tingting - planti lain bilong South America i stap long graun samting olsem yumi – na ol i save we long planim gaden wantaim ais.
- Kaukau i no gutpela taim planti ais i stap.
- Yumi mas planim (English/Irish) potato. Dispela potato inap stap sapos liklik frost i stap.
- Don't just stay inside your warm house on a night when there are no clouds. You must go outside at 8 pm and check to see if stars are out and if no wind. If like that, you need to
- Yumi i mas redi long karamapim ol lip long nait sapos kol i kamap bikpela. (Karamapim ol lip i go 10 klok long moning. Yusim nuispepa, lip i stap drai, na bek i stap nating- kaikai bilong stua.)
- Kerot, kabis, koliplaua, brokoli inap gro gut long taim bilong frost.
- Fodder beet, sugar beet, turnip na swede inap kamap gutpela, tasol planti lain long hia i no save we long kaikai dispela.
- Ol lain South America i planim spesial yam. Dispela liklik yam inap stap wantaim ais. Em i nupela long PNG. Gutpela kumu na liklik as i stap. Very small tubers. Ulluco.
- Use paper and cardboard, with bottles of warm water underneath. Water can warm in hot sun during the day.





Use cardboard and newspaper. Use a lotu sel (Church tarpaulin). Old sacks – open them out, using a knife.

Wet soil holds warmth better than dry soil. If possible keep the mounds you intend to protect, wet with irrigation water.

Use rocks, bottles with water, even old car tyres on top of mound of kaukau. Anything that will warm up in the day time and hold heat under the tarpaulin or newspaper or cardboard.

Wok bisnis, bihain taim moni i stap bilong baim rais

For example keep chickens, rabbits, goats so that you have a small business that can generate money to allow you to buy rice if your kaukau has been killed by frost.

You need to put aside some money in the bank for those times when frost is very damaging.

Wara i namba wan samting

Putim wara long sampela hap – Water some part of the garden

- Noken larim kaikai long gaden i dai olgeta. Yu mas wok strong long kisim wara long baket na putim long gaden, na taim ren i kam kaikai



long gaden bai kamap hariap.

- Yumi i mas planim ol kainkain gutpela kaikai-kon wantaim kaukau i tupela gutpela kaikai long kamap hariap na givim gutpela kaikai long yumi wanwan.

- Painim sampela rot long kisim wara i go long ol gaden i gat kaikai i stap yet. Kisim baket,

paip, o mambu long pulim wara i go long gaden. Digim baret bilong kisim wara i go long ol gaden i stap klostu long wara.

- Givim wara long gaden na tu wokim hul antap long kaukau maunten na kapsaitim wara i go insait long kaukau, bai wara i no inap go aut nating.
- Wokim nupela gaden klostu long wara. Painim aut ples we, wara i stap aninit long graun, we ol gras i no dai na wokim gaden long en. Sapos graun i strong tumas kapsaitim wara long en na planim kaikai.
- Putim gut olgeta wara yu kisim i go long ples. Noken larim wara i pundaun nating. Wara bilong waswas na wara bilong kuk, (nogat sol) yu ken putim i go long liklik gaden klostu long haus bilong yu.
- Nau em i gutpela taim long wokim liklik gaden klostu long haus bilong yu. Putim ol pekpek bilong rabbit o ol samting i sting long graun pastaim yu planim kaikai.
- Noken kukim ol lip. Putim antap long graun bai graun i no drai tumas. This helps the ground and stops it cracking. Cracks let the kaukau weevil lay eggs and destroy the kaukau.
- Mekim gut na kisim olgeta ren wara i pundaun, long ol narapela mun i kam. Kain olsem 4 mm ren insait long Telefomin em inap long pulimapim tupela mak long tenk. Stretim ol gata bilong haus long kisim wara long ol dram o tenk.
- Sapos no gat gata, wokim liklik gaden arere long haus so ren i pundaun long kapa bai i go long gaden. Tasol yu mas banisim gaden inap long ol pik na kakaruk i no ken bagarapim dispela gaden.

Gravity feed water supply?

Have you got a gravity feed water supply? If so, don't turn off the taps. If the taps are off, you will be wasting water as it goes down the river. Work with all those who use the water to schedule times for watering gardens. Buy tanks to store water at night, and in the day, empty the tanks by watering the garden.

Learn how to siphon out of rivers or drums.



Water is siphoning out of the drum, watering a garden. If all taps are turned off the community is wasting water, because the water just goes down the river. Store water at night in a Tuffa tank, then use that water during the day.

Wok wantaim abus

- Putim drai lip i stap aninit long haus bilong rabit o meme. Bihain pispis na pekpek bai stap wantaim ol dispela drai lip. Taim yu laik wokim gaden, orait digim liklik baret, putim ol dispela samting i go insait na karamapim ol wantaim graun. Planim kon na ol kainkain pamkin, kabis, na tomato.
- Sapos yu i no gat planti kaikai, orait kilim i dai sampela abus- nogut ol i kamap bun nating long banis. Dispela abus bai gutpela long ol famili bilong yumi.
- Sampela abus bai kaikai planti samting bilong yumi- kon, kaukau sapos ol i laik kamap bikpela hariap. Ol kakaruk na pik i gat nid na laik long kaikai planti kaikai bilong yumi.
- Ol rabit, meme, sipsip bai kaikai kumu long ples tasol. Wait clova em i gutpela.

Planti kainkain bin i gutpela long ol pato, sipsip, meme na rabit bilong yumi:-

Hat ples	Kol ples
Velvet bin	Velvet bin
Snek bin	Snek bin
Laima bin- yumi kaikai	Laima bin
Pisin pi (Planti lain bilong Asia i kaikai dispela)	Pisin pi
As bin (Ating yumi save gut long dispela)	as bin
Dolichos lablab (yumi kaikai dispela)	Dolichos lablab
Stylo (Stylosanthes sp)	Grinlif desmodium silva lif desmodium
Forage peanut, kau pi	Wait klova, ret klova Kenyan wait klova
	Kainkain lupin

Velvet bin i kamap kaikai bilong yumi?

Sapos yu yet i gat laik long kaikai velvet bin, yu no inap lus tingting long sampela strongpela marasin i stap wantaim dispela sid. Sapos dispela marasin i stap taim yu kaikai dispela, yu bai kisim sik na trauf. Sapos yu i gat laik long kaikai sampela sid bilong velvet bin yu i mas mekim planti wok:

1. Kisim drai sid na paitim wanwan sid wantaim wanpela diwai or ston. Yu mas brukim olgeta sid.
2. Karamapim dispela sid wantaim planti wara na larim i stap long wanpela nait.
3. Long neks de kapsaitim wara na rausim dispela skin bilong sid.

4. Boilim ol sid wantaim hot wara na larim ol i stap samting olsem wanpela hap aua. Rausim wara, na putim dispela sid i go wantaim ol abus na kumu. Em bai gutpela.
5. Nau yu redi long slip. Planti wok tumas a?

Ol kainkain bin i gutpela kaikai bilong ol abus bilong yu.

Sapos yu les long mekim dispela wok, orait planim sid na givim lip tasol long ol abus. Ol abus bilong yu bai kamap bikpela hariap.

Sampela diwai i gutpela:

Planti kainkain diwai i gutpela long kamap kaikai bilong ol abus. Givim sampela lip bilong diwai na planti arapela lip. (10% lip bilong ol diwai, 90% kaukau lip, kain wid lip na ol bin lip).

Long hat ples	Long kol ples
balbal (<i>Erythrina</i> sp.)	
Diwai yar- i gat kainkain diwai yar i stap long hot ples na kol ples. Dispela lip i no gutpela long ol abus.	Diwai yar- long wokim banis, long wokim haus bilong rabbit, paia, na givim gris i go long graun.
Lamtoro (<i>Leucaena leucocephala</i>) (No ken givim planti long dispela diwai. (NO more than 10%).	lamtoro. Sapos i kol nogut tru, dispela diwai bai kamap bikpela isi isi, na i gat laik long karim sid tasol.
willow- bilong banis tasol	willow- bilong banis tasol
Quickstick (<i>Gliricidia sepium</i>) Sampela lain bilong Vanuatu i givim ol abus bilong long planti long dispela lip.	Tagasaste (<i>Chaemaecytisus palmensis</i>). Dispela i gutpela kaikai bilong ol rabbit.
Rosewood, na kain kain Sesbania i gutpela.	

Dispela rosewood em i wanpela gutpela diwai. Ol man na meri husat i lukautim rabbit long Garasa (Morobe Provins) ol i save givim planti lip bilong dispela diwai long wanwan de.

Planti arapela kainkain lip i gutpela

Long hot ples	Long kol ples
Lip banana	Lip banana
lip hibiscus	lip hibiskus
Aibika	Aibika
Tapioka lip	Tapioka lip
	kerot na kerot lip
Cabbage	Cabbage
Yu yet yu traim ol arapela kain lip, wantaim wanpela rabbit o patok or sipsip o meme pastaim.	Yu yet yu traim ol arapela kain lip, wantaim wanpela abus bilong yu pastaim.

Ol abus i no save kaikai lip taro, na ol bai kaikai liklik tasol long lip Papaya. Lip bilong diwai yar, gum (Eucalypts), frangipani, teak, Crotalaria (i gat yellow plaua) i no gutpela.

Yu yet kamap tisa bilong ol arapela

Planti man na meri bilong Papua New Guinea i gat nid long givim gutpela tingting long ol dispela samting long taim bilong hangre na drai. Dispela liklik buk bai halivim ol dispela lain.

Ol tisa i mas wok - dispela samting i no toktok tasol.

Tasol sapos yu yet yu gat laik long kamap tisa long ol, orait yu yet i mas mekim dispela wok. Nogut yu maus wara lain tasol. Long wanem ol skul lain bilong yu i mas lukluk gut long wok bilong yu yet.

As bilong dispela taim bilong hangre?

Sampela as i stap long dispela taim bilong hangre. Sampela lain ol i gat dispela bilip long God em i mas kros long yumi. God i bin salim dispela taim bilong drai na hangre long bekim asua bilong yumi. Em i bin salim AIS (frost) long wanem em i kros long yumi.

Papa God em i kros long yumi o nogat?

Tasol sampela arapela as long dispela taim bilong hangre na drai i stap. Sampela lo bilong graun i stap na sapos yumi brukim ol lo, i gat kain kain hevi bai i kamap.

Taim wanpela man o meri i holim wanpela han bilong diwai na i lusim diwai, dispela diwai bai pundaun long

graun. Dispela samting em i wanpela lo bilong graun, na ol i kolim gravity.

Sapos yu yet pundaun long graun na kisim liklik bagarap, em i no gat asua olsem God i mas kros long yu. Em i gat as insait long dispela lo bilong gravity.

Sapos yu sanap long ren na kamap kol nogut tru, na bihain yu i stap kol na wet yet, bai sik i kamap o nogat? Sik i ken kilim yu i dai. Dispela sik i bin i kamap long wanem God em i kros long yu? Nogat. Em i olsem lo bilong graun taim yu i stap wet na kol tumas.

Nau yumi ken ting ting long dispela taim bilong drai. Long planti hap graun, ren i save go kam, go kam olsem. Long Papua Niu Gini dispela bikpela "taim bilong drai" i bin i stap planti taim bipo. Tasol long nau em i luk olsem em i kamap bikpela moa yet. Long sampela arapela kantri dispela bikpela drai save kamap long wan wan yia, na ol lain husat i stap long ol dispela hap graun ol i ken lainim yumi long kain kain we long halivim yumi yet.

Yumi save pinis long planti kantri ol lain i stap long en, ol i katim ol diwai bilong ol. Long planti yia nau, ol i bin i katim ol diwai na long planti hap, no gat ol diwai i stap. Gutpela bik bus ol i katim pinis, o ol i kukim pinis. Nau planti ples waisan o ples ston nating i kamap, na bipo planti diwai i bin i stap. Ol diwai ol i gat wok olsem long givim win i go antap, na pulim ren i kam daun. Sapos no gat ol diwai i stap, orait no gat planti ren bai i kamap. O narapela samting, sapos no gat planti diwai, orait long taim bikpela ren i

kam, wara bai i go hariap long ol longwara na ol i kamap tait kwiktaim.
Yumi ken lukim ol haiwara i kamap moa moa yet.

**Yumi no ken lus
tingting –
dispela pasin
bilong planim ol
kain kain diwai-
dispela samting
em i samting
bilong yumi. I
no samting
bilong project
tasol.**

Taim yumi katim planti tumas diwai, yumi mekim ol senis i kamap long skai o ples bilong klaut. Yumi brukim o bagarapim dispela lo bilong graun. Olsem, yumi i mas larim ol diwai o planim planti diwai, so yumi inap kisim gutpela ren na san.

Dispela pasin long planim ol diwai em i gutpela tru. Yumi mas planim ol diwai. Tingim ol tumbuna lain bilong yu na planim planti diwai bilong ol, bilong taim bihain moa yet.

Monitoring and Evaluation

We need to show the effects of training. Here are questions to keep in mind.

You will need these sheets printed out for each garden you visit

Your name _____ Your phone _____

Farmer's name _____ Farmer Phone _____

Village farmer lives in? _____

Date you visited? _____

Present or Absent in Garden	Yes or No?	Comments
Live fences?		
Contour planting?		
Other erosion control in garden? Eg between kaukau mounds?		
Erosion control in ditch/baret? Lip, pipia?		
Erosion control in ditch/baret – with clover or forage peanut?		
Any mulch used in kaukau mounds		
Mulch used in other types of crop?		
Other ways to earn money?		
Chickens?		
Goats?		
Rabbits?		
Pigs?		
Is manure used in garden?		
Crop rotation – to allow areas with no kaukau for kaukau weevil?		
Trees in some part of the garden to rebuild fertility?		
Other plants used to rebuild fertility or is fallow just 'happen'?		
Does farmer water garden during dry periods? Buckets?		
Gravity feed water supply to water garden?		

Other questions for us to consider?