

wuse kwanɗye ndi 7000 ɓomɔ ne nyeti, nɛ mesaki, he ta dokidye 53.000 ke to mɔni te e wuse diyma biye kɛ. He pɔn ɓobe ka.

Mesay me ngwan

1

7. *Dɔkɔ ngwan, buyɔ kwalɔ nɛ buyɔ nyambi.*

- Kare wete, yo kɛl meta kamɔtan:
 $50m \times 50m = 2.500m^2 = 1/4 ha.$
 - Ektar wete (ha), yo kɛl meta gomay:
 $100m \times 100m = 10.000m^2 = 1 ha.$
 - Kare yini, kɛl ektar wete (1 ha).

 - Kare wete ɓon kwalɔ mbusa kilo 6 (6 kg).
 - Ektar wete ɓon kwalɔ mbusa kilo 25 (25 kg); saman bisim wete.

 - Kare ngwan mbusa wete nyɛki bisim mbusa 40 (ton wete: 1000 kg).
 - Ektar wete nyɛki bisim mbusa 160 (ton yini : 4000 kg)
- NB : Buyɔ nyambi yakama ɓe nda yike, nge wuse ɓengwe mengite maka hene.

Ngwan mbusa

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Buy mengwan

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Wune njon,

Mekana mete yoko yo bosa mekana me menkite ke kasi mesay me ngwan. Yo yi kame ne kando Kako ke mesay mete yi bo kele ke. He panma kande ne kasi ngwan mbusa. He ta nje ke mbombu ne menkite ke kasi ngwan bingwa, ngwan yombo, ngwan kwende, ngwan dangal, ne bukwe te yiri.

Yi wesidye ne nyambi budyate ke ngwan su, he beki kimo kwalo, ke kimo ngimo, ke kimo meneti, nje duwe pemo yo kimote kambu medyan si nje ngangile, benyam si nje dye, mekon ne bepso si nje bekidye yo.

texte: Ndombou Daniel
illustrations: MBANJI Bawe Ernest,
Gerd Aina ERNST, p.13
Rod Mill (Piliers), p.19

kolon na.

- bakidye mbusa te yi dyanwate kimote kumo ke ngimo te yi mejen mete bende ke, ne wuse biy budya moni.

He pan beje moni yekambiy ke.

Ngge wuse diye kine nye nyeti ke mbusa su na, yite sine bengun ta kabidya yo ke bembe. Yite nde, ke moy kare wete, ke bisim 40, bengun ta dye bisim 20, he ma nje dyanwe ndi bisim 20.

Ke wuse dyanwe bisim wete ke 3000, yo nyeki buyo moni deke: $20 \times 3000 = 60.000$.

Ngge wuse kwan dye 2000 bom ne nyeti, 5000 bom ne mesaki, yo kel hene 7000. Ke wuse si nyanje nyeti ke bisim mbusa 40 hene, ngun ti biye se yo na. He yakama nje dyanwe yo hene kine dimbidye yana na, ko beko ndi ke 3000 yo ta nye wuse moni deke: $40 \times 3000 = 120.000$

He ke beje nde, ke



ta pundɔ nda gbela kulutu.

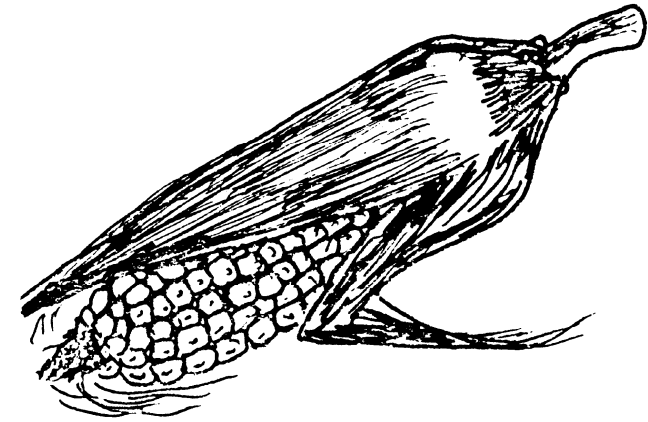
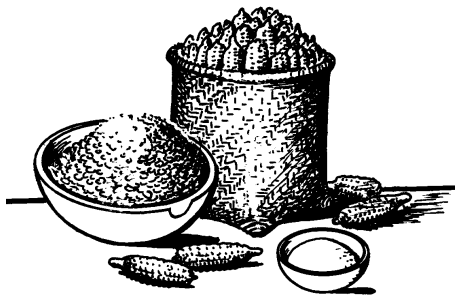
Ƙɛ wusɛ si sobɛ mɛsaki mɛ mbusa kɛ tikɔ kɛ bandi bakidyate, (kɛ tɔ ho kɛ ndam), hɛ ɗiki pɛmɔ mbusa te yi wusɛ nyanja nyeti kete kɛ mɛngwɛndɛ wɛtɛ wɛtɛ. Hɛ ɓɔɗ tɔ bandɔ kɛ saki, kɛ wusɛ wɔkɛ wati bɛngunɔ ho bɛɗɛ ngunɔ wɛtɛ kɛ kɛndɔ kɛ to saki, hɛ pɔnjukwɛ mbusa hɛnɛ, jɛnjɔ kɛ poliyan, nyanje nyeti kete nɛ kɔkɔ.

NB: Hɛ yakama ɗyɛ mbusa su kɛ kɔɗ nyanja nyeti kɛ yo si ya sɔndi wɛtɛ. Hɛ tɪ gwaki kaɗ yaja na, hɛ tɪ paɗ pa wɛyɛ mbusa lale na.

Nyɛti tɛ yakama kelɔ ndɛ, wusɛ bakidya mbusa kwɔ ngwɛndɛ yitan jɔ wɛtɛ (6).

Dɛtɛ, wunɛ njɔɗ, hɛ yakama:

- bakidye kwalɔ kimɔtɛ kumɔ kɛ ngimɔ mbeki, kinɛ njanɗwɛ yotu kɛ gɔsuna kwalɔ na.
- b a k i ɗ y e mbusa te yi ɗ y e n a t e k i m ɔ t e , kinɛ balɔ



1. Kasi kwalɔ mbusa.

Hɛ ɗɔkwe ndɛ, ko hɛ senja nyangwe ngwan nan, kɛ wusɛ ti ɓɛ nɛ kwalɔ na, wusɛ tɪ wesidye nyambi kɛ ndam kɛ ngimɔ lekina mbusa na. Sindi, kwalɔ pɔɗ pa ɓɛ kimɔ kwalɔ, yo buy yaka ɗɔkɔ ngwan, kambɔ lapinate kɛ mɔy ngwan nɛ lapa lapa yi gwe nɛ mesay mɛ njaki lale gbelate.

NB: Hɛ pɔɗ pa gɔsɔ kwalɔ piɗɔtɛ yi wusɛ tɪ pa senje ngwan na.

1.1. Sawna kwalɔ.

Ƙɛ ngimɔ lekina mbusa kɛ ngwan, hɛ yakama sawɛ kimɔ besɛwna betɛ yi

tandima kimote ké tikó dɛɛ.

1.2. *Patina kwaló mbusa.*

He pâta mbusa bú ndi gboyoyo mbumo te yi bembe kindi mbusa. He sôña mbumo te yi pay tonje nè yi pay njukute tikó dɛɛ. He yakama tikó yite yi dɛyenate, yi dɛyaŋgwate ho nye betiter.

Buyo kwaló yákaŋgwe beŋgwe doko ŋgwaŋ te yi wuse take nde, he ta senje ké.

1.3. *Bakidya kwaló mbusa.*

He yakama bakidye kwaló mbusa ke moy ŋgamba ho ke moy bidon, kamba ne bembo. Ma, yi keló nde, beŋguno tí bekidye yo na, he yakama:

- nye ka, mborute ho gbajete ke moy ŋgamba ho bidon díbo.
- nyanje njel nyeti bakidya nyambi yi bo jeba nde Actellic ké kete.

NB: He ta mesay me nyeti te ke mbusa ke



beŋe bo n y a n j a kon lekina ŋgwaŋ.



- Póm ho apare (pulverisateur).
- Gbongo ndondo (kine ŋgwenje ŋgwenje numbute na).
- Móróku (pupunate).

6.2. *Pulna nyeti.*

Ke wuse be ne saki mbusa yitan (5), he bóŋ:

- Actellic 10 ml (10 cc).
- Móróku lita wete (1 litre).

He dála nyeti ne ndondo pomó ke moy apare, nje gwadye móróku njime, né yo pulna kimote.

NB: He tí soña monó njeko te yi diye ke numbu apare ké na, kamba mbulma medyan me nje kwa ké díbo numbu pom.

6.3. *Pomna nyeti.*

He jênji mbusa ke poliyan (ndamba) ho ke mbato (siman). He pom nyeti ne faaa... nda gbela kulutu ke to mbusa bú rato yensa no (yokile no) tu wete, pomó sindi nyeti kete nje wuke nye ke moy mesaki woto.

NB:

1. Mbusa tí sol ne mbolboso na, ma yo nje biye buki ke moy saki.
2. He tí paŋ pa jayɛ mbusa ke yeso na, ma metul me nyeti ma si nje saŋgo.
3. Kamba nde, móróku me nyeti ma nje pundo ne pinini, he póta numbu pom nda he ke jeliye, dete, yo

bukwe nyeti su yi sew yiɓa ho yitati yi nje ke koŋte ké.



5.3. *Lekina mbusa.*

Ke mbusa si deto, soŋo kimote, he yakama kande lekinate:

- he lêka mbusa ke jeta te soŋe,
- ɓondo yo hene,
- si pate hene,
- nyanje nyeti kete wolo ke mesaki (mesanduku), ŋeɓe kè tiko ke moy ndam (ho ke moy tu), diɓo numey te ne njanjo kamba ne botu be gubo.

NB: Ke wuse bakidye mbusa ke ndam ne mekopu mete ne wokoko, beŋguno ta si dye sulɔ te, ko beko nde, he jongwe dite ke nji ndam nye ndon kete.

6. *Nyanja nyeti ke mbusa.*

6.1. *Mejole mesay.*

- Nyeti beŋguno (Actellic).

1.4. *Kwalo membusa.*

Kwalo membusa mete yi dya:

- **Ŋganga:** nye tenate. Ke nye si soŋo, mumo ti yaka pukile se na. A ne soŋo budyate ke mɓɓote.
- **Bungese:** nye wumnate. A ne teko budyate ko ke soŋunate.

NB: Mekwalo mete yi dya kel ŋwende yini ne kumte ke ŋwan.

Kwalo membusa mete yi bebuy meŋwan.

- **BSR|81:** nye wumnate. A ne teko budya -te ko ke soŋunate. A ne soŋo ke mɓɓote, ko suwate ko bumbunate. A kel ŋwende yitati kande ke ŋgimo benate kumo ke dyenate.
- **CMS:** nye tenate nda ŋganga. A ne soŋo ke mɓɓote. Ma, ke njeri ne si yindo, a

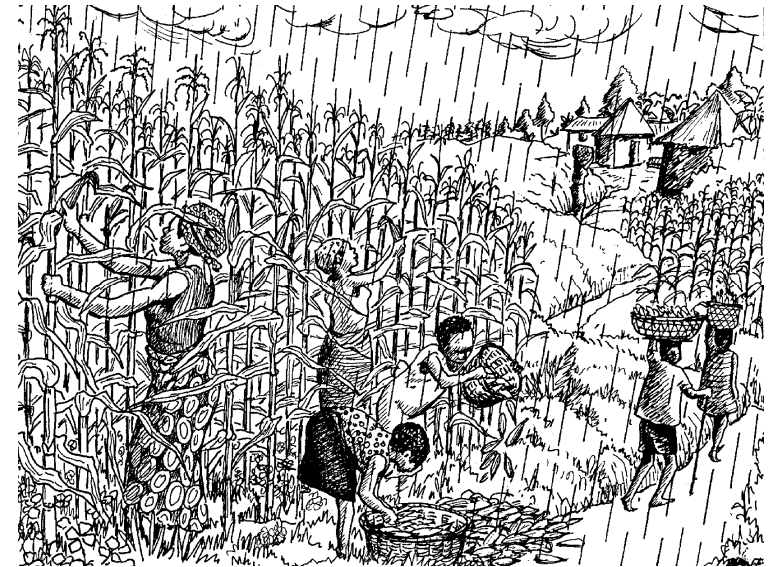
ma deto ne kotukolo. A kel ngwende yini kande ke beta ne kumo ke ngimo dyenate.

2. Tokuna mbey ngwan

He yakama sa ngwan mbusa:

- ke ngala liko, ke wuse jaye pesina mejeti.
- ke butu menjonju ho bokasa.
- ke lo te yi be ne meson ke.

Ke membey maka hene, he pan pa sambile misi bene ne mambu ru me membunjo mete yi lo ke meneti mete ke. He yakama duwe nde :



5.2. Bomna nyeti benguno (bewuko).

Nyeti te e jeke kelo mesay ke bakidya mbusa, kelo sindi nde, mumo dyaki mbusa kine gwe kan yana ko, yo **Actellic 50EC**.

Yo moroku mete ke moy ndaki lita wete (1 litre). Ke bo pule yo ne moroku, a wumkwe ne bu nda menjam me bana.

Nda mejen me nyeti ko ne deto ke, (20.000 ho 25.000), bomo yakama ngbosuna ko kamo (10), wesidye moni bomo ne yo nje kabidya.

He yakama nyanje lita enoru wete ko ke mbusa te yi yaka saman ton kamotan (50t); yite nde, ndonje mekamiyon yitatu ho yini.

Ke mbusa ti buye na, he yakama bakidye

He b̂eṅa yekambiyɛ te waka ke nji:

30 cm

Ke wuse si kombilie sumo ndam su
d e t e , t i s o ,
h e t i j e k w e j e t i
k e n d a m n a .
K o
y o t a ,
nyari ti
njaki jekwe yo ke ndam na, ma yo nje be
gbaṅ bembo yi ke no ke ndam ke bekidyɛ
ne nyambi.



- yo kimɔ meneti, ke membɔru be ne biyɔ biyɔ.
- yo biya meneti, ke membɔru be ne hawoyo nda poyɔ.

3. *Kombila mbey ngwan.*

3.1. *Senjate.*

He yakama kande senja ngwan mbusa beṅgwe njel ngimo te yi wuse sawma ké: gba ngwan, boleme (mbelekwa) ho ndɔbo.

- Gba ngwan: kande ngwende Pamba kumo ke ngwende Mekwanje. Ke be faṅ ngala liko, baṅa kanda senjate ke ngwende Bulbuse.
- Boleme (mbelekwa): ke ngwende Kungwe.
- Ndɔbo: ke ngwende Bulbuse.

3.2. *Lodyate.*

He yakama lodye ngwan su, ke membunjo si soso kimote.

3.3. *Wombila pala.*

He wombila membey mete yi ti lole kimote ké, dokɔ, lodye. Sindi, he tɔka mono mejeti ke lumɔ ke ngeki ngwan.



NB: Hε dūkwε nde, kε wuse 606ε putike ngwan mbusa nda yi biηgɔ, mbusa ta wumɔ budyate.

3.4. Benate.

Kε wuse duwε bakidya kwalɔ kimɔte, yite nde, ηgungɔ tɪ bekidye yo na, bembo tɪ si dye yo na, sindi buyɔte ta yaka dɔko ngwan su, hε yakama kande mbeki.

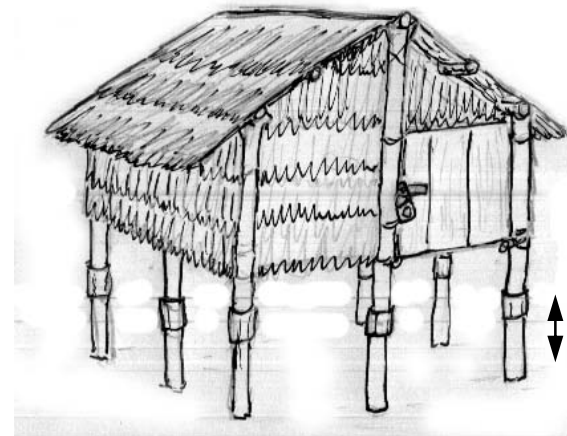
- *Gba ngwan:* kande ηgwende Mbiyɔ Mendongɔ metu 15 kumɔ ηgwende Nyɔlombongɔ metu 15. Kε mesay kwɔ wuse, hε yakama lanɔsa kumɔ kε ηgwε-

- 6ɔmna nyeti beηgungɔ (bewukɔ).
- 6ɔmna mesanduku ho mebarabo.

5.1. Sumna ndam.

Wuse hene kε duwε sumna ndam, ma siya ηgite te yi wuse yakama bakidye, yo nde:

- mekondu me ndam yâkanɔwe 6ε sambɔ



h o
kwaya ,
kambɔ
bembo
ma nje
bendɔ
ndam.

- k ε
6ε gbela
jeti ,
mekondu

mete yi ta sumna kε meneti kε, tɪ jeki buyɔ na, yo 6eki ndi kondu 6 ho 10. Kambo bembo ma nje bendɔ ndam su, hε 6ɔη kum 6ɔru metol wɔtɔ kε mekondu hene. Kε mbo bende kumɔ komete, a ta jenziye balɔ kε meneti.

Yi wo ne beɔsu benɔri, he yakama:



- sɔpɪte mbɔru kɔ ke mɔrɔku, bu mɔrɔku mete kɛ dɔdye ke tɔngɔ mbusa te yi beɔsu tɔse kɛ.
- He dɪya sindi mɛngite ke yi bebɪy mɛngwan, nɛ bo keti dɪno nyeti te yi yakama wo beɔsu kɛ nye wuse.

4.3. Ke ngimɔ te yi mbusa ke detɔ.

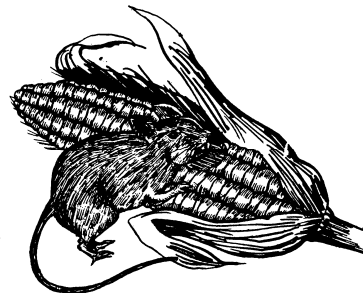
Yo ne benɔn (benɔsiki, bekosu), bepiya nɛ be-
-ngemɔ.

Ke yi bepiya, he bɔkidya ngeki ngwan
pupunatɛ ho malɔ lebidye pɔndɔ ke te.

5. Soɔna mbusa ke ngwan.

Ke mbusa si detɔ, he kɔnda pa komsa piɔte yi wuse tɪ pa kande lekina mbusa na:

- sumna ndam (ngalɔ).



nde Nyɔlɔmbɔngɔ metɪ 25.

Kpe, he tɪ beki mbusa kumɔ ke Mɔno Ngbanja na; yite kungwe ta biye yo.

- *Bolemɛ:* ke ngwende Fe, kande ke bosa yesɔ kumɔ ke metɪ 20.
- *Ndɔbɔ:* ke ngwende Pamba kande ke metɪ yiba kumɔ ke metɪ 30.

Kimɔ bena mbusa, yo ne melan. Njoka melan nɛ njoka mɛbelɔ bɛngwe njel kwalɔ te yi wuse nɔ kɔ.

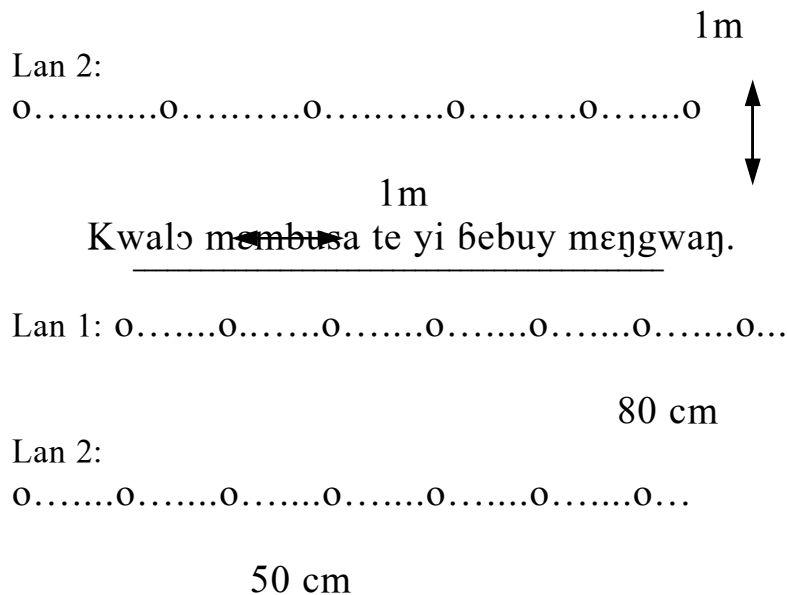
- *kwalɔ te yi dya:* njoka melan kum metɪ wete (1 m); njoka mɛbelɔ kum metɪ wete sindi(1 m). He bɛta mbumɔ mbusa 3 ho 4 ke belɔ wete.
- *kwalɔ mbusa te yi bebɪy mɛngwan:* njoka melan kum cm 80 (80 cm); njoka mɛbelɔ kum cm 50 (50 cm). He bɛta ~~mbumɔ mbusa 2 ke belɔ wete.~~

Ne bɛna yekambiye te waka:

Mɛkwalɔ mɛmbusa mete yi dya.

Lanl:





3.5. Sakina njaki.

He yâkaḡwe sako nji mbusa menḡa yiḡa:

Bosate, sondi yiḡa ne kum ke koḡ mbeki. Ke kiya ḡgimɔ te sindi he pêm njuku mbusa hene. Ke yo lo ne sumumu, he sûta baḡa bukwe ndi kol te yitati, ke be kwalo te ε dya. Ho



kol te yiḡa, ke be kwalo te ε bebuy menḡwan.

Yibate, ḡḡwende wete ke koḡ bosa njaki.

NB: Ke mbusa diye ke moy meḡyan, mboru te ta belo belo ne hawoyo; yo tí wumɔ se kimote na. Yite lépi nde, mbusa ti kwádyikwe memi na.

4. Meyasi mete yi bekiḡye mbusa ke ḡḡwan ké.

4.1. Ke ḡḡimɔ mbeki:

benon (*bekwari, begba nè benon dyari*), be-kwey nje bu beḡgamba,...

Yi kambɔ ne mboya benyamɔ benori, he yakama:

- kelɔ mbotu: He pêm ḡḡwan, mende me-ḡḡoḡgom, kumɔ ke ḡḡimɔ te yi mbusa ta si jaso kimote ké.
- kese meyasi ne jele jele.

4.2. Ke ḡḡimɔ te yi mbusa ke samɔ:

Yo ne beḡosu, ke yesɔ pane kumɔ sondi wete ho yiḡa kine mbiyɔ na.