

JAMAHURIYAR NIJAR

MINISTAN GIDAN GONA

KUNGIYAR KASA JAPON MAI KULA
DA HULDA DA KASASHEN DUNIYA
(JICA)

**PROJEN KULA DA BUNƙASA AYUKKAN NOMA A CIKIN
FADAMMU DA KE CINKIN SAHEL A JAMAHURIYA NIJAR
(EDOS)**

KUNDIN HORO BISA GA HUSA'O'IN NOMA RANI



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Gabatarwa

A cikin tsarinshi na dafa ma ayukkan noman rani, Purojen kula da bunƙasa ayukkan noma a cikin fadammu da ke cikin yanki Sahel a Jamahuriyar Nijar, ya shirya horo kala-kala zuwa ga manoman rani da ke aiki bisa wuraren da yaka taimaka ma don a ci amfanin baraji-baraji.

Wannan littafi an wallafa shi don manoman rani, Yana kumshe da hanyoyin da ake bi don tahiyar da ayukkan noman rani.

I. Gurin wallafa wannan kundi

Babban gurin wannan kundi shine ƙarfafa sani manoman rani dangance da husa'o'in na zamani saboda a taimaka masu don su ƙara samun amfanin gona, da noma da shibke-shibke iri iri.

II. Manufofin da ake son cimma

1. Manoman rani sun mallaki husa'o'i daban-daban na noma zamani don su ƙara samun amfanin da noman rani da kuma iya noma shibke-shibke kala-kala,
2. Manoman rani sun gano amfanin dan yin aiki da sabin husa'o'in noma rani wajen bunƙasa irin amfanin da da suke samu a cikin noma rani.

III. Zaben irin shibke-shibke da yanayin da ya dace da irin shibkar da aka zaba

Abu na farko ga manomi shine zaben irin shibkar da zai nomawa. Ana yin wannan zaben dangance da lokacin da ya dace :

- ***ga lokacin dari (Nobamba zuwa Janbairu ko Fabarairu)*** : ana iya amfanin da mutuka saboda kowace shibka na yi wannan lokaci,
- ***ga lokacin zahi (maris zuwa mayu)*** : noman rani na da wuya. Shibke-shibken da suka hi dacewa sune: malo, guna, kwankwambur, tibus da kubewa,
- ***ga lokacin damana*** : tumatir irin na musamman (ICRI-XINA) mai yi ga damana, tanka, attarugu, salati da kubewa.

Wajen zaben iri sai an yi aiki da wasu ka'idodi kamar :

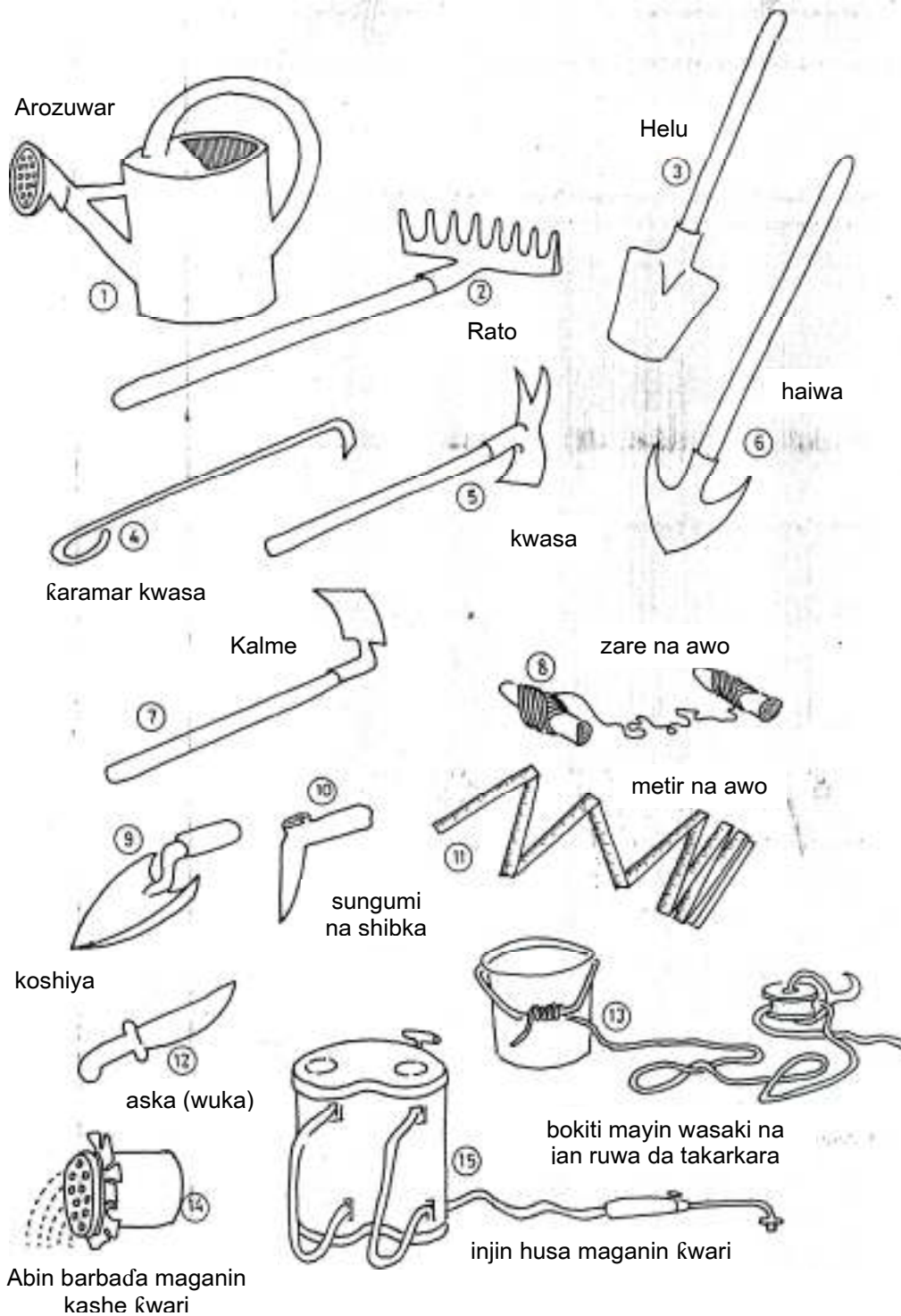
- dacewa da yanayi (a tuntubi ma'aikatar gidan gona),
- lokacin da yake dauka kahi ya shi kai,
- yawan amfanin da da ake iya samu,
- dandanon cimaka da ake iya samu,
- sauƙi wajen ajiya da sarrafawa,
- sauƙi wajen saidawa,
- cin amfanin da,
- tsarin noma daaikin da husa'o'in da suka dace.

Ga abubuwan da ya kamata manomi ya kiyaye kahin ya shiga noman kowace irin shibka :



IV. Neman kayan noma da suka dace da irin shibkar da za a nomawa

Bayan an zaɓi irin shibkar da za yi. Manomi zai nemi iri kayan noman da suka dace, A taƙaice ga ire-iren kayan da ake aiki da su :

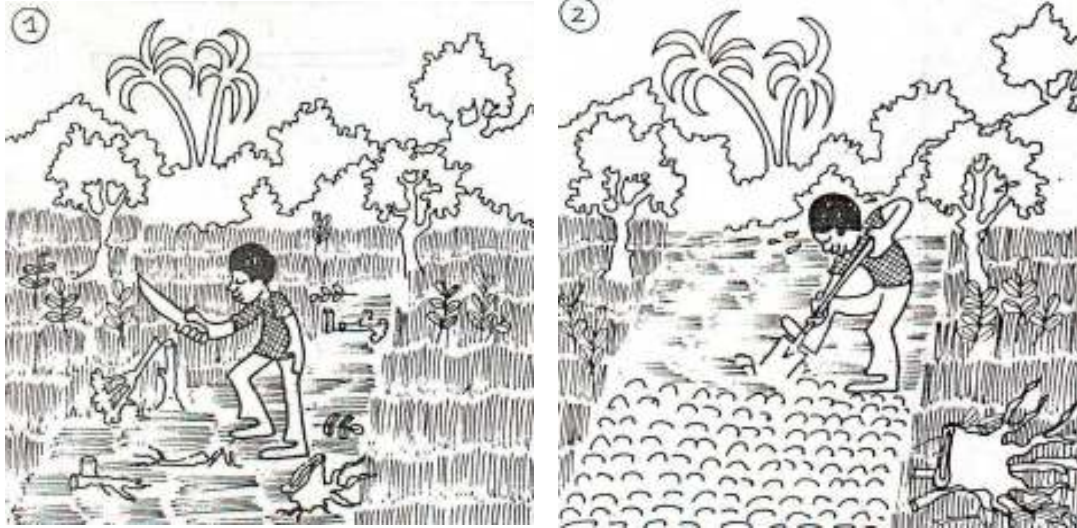


V. Gyaran hikin noma

Idan manomi bai malliki gyarerren noman rani, ya dace da ya gyara wurin da zai yi noman rani

Gyaran wuri na buƙatar a yi ayukkan iri dangance da irin wurin da aka zaba. Irin ayukkan sune:

- **sassabe da tsabtaƙe hili** don a hidda ma shibkar da za a noma kishiyoyi kenan sauran itatuwan da ke cikin hilin da ake iya ajiyar miyagun ƙwari. A bar toye itatuwan da ake sare don ƙuna kashe ƙasa take yi kuma tana cuta ma mahalli



Tsabtaƙe hilin noma da gyaran shi

- Noma farko na sa a daidaita hili bai ɗaya kuma a bubbuge ƙuraƙussai har ila yau kuma a juya ƙasa da kwasa ko da kalme wannan shi zai sa ruwa su shiga ƙasa sosai kuma ta sheɗa da kyau. Bayan haka sai a hidda duwatsu da ke cikin ƙasa masu hana ma sayyun cimaka walawa da kyau.

Noman farko na sa gyaran wurin noma da kyau

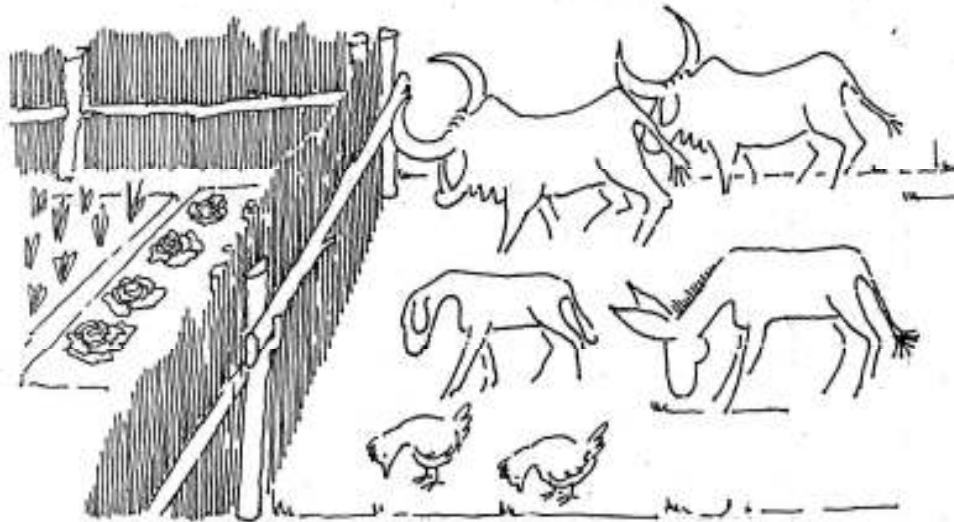


Noman farko na sa ruwa da ake ba shibka su
Shiga ƙasa sosai



VI. Kariyar wurin da ake noman rani

Don amfanin dan noman rani mai yawa sai an yi ma garka ko kariyar dag dabbobi da iska mai ƙarfi. Don haka sai a yi darnin ƙaya ko na kara sai ya zamanto kariya ga dabbobi da mugun iska amma tsawon shi in ya kai metir 2 ya isa.

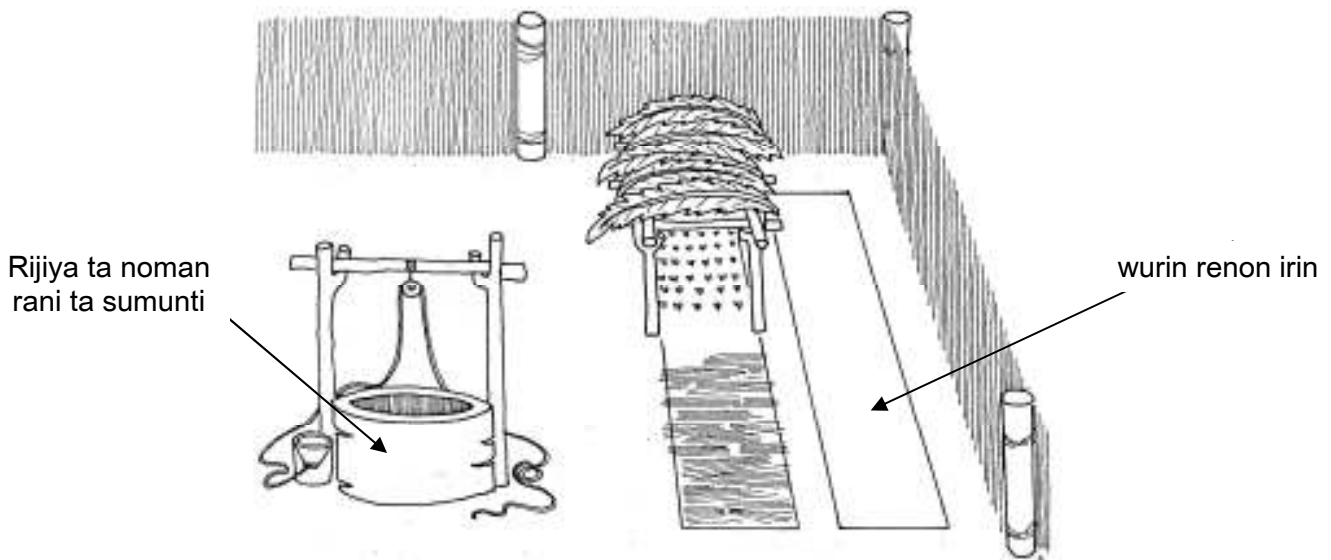


Darni na kariya wurin noman rani

VII. Renon irin dashe

7.1. Zaben wurin da za a renon irin dashe

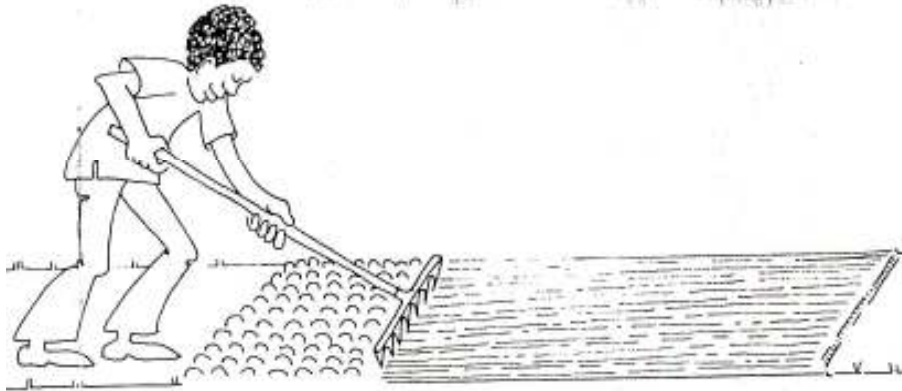
Wurin renon irin dashe ya kumshi fala-fala in da za renon irin da a za a dasawa. A nan cikin fala-fala ne irin ke rayuwa har ya girma ya kai fagen dashe. Don haka zaben wurin da za a renon iri yana da mahimmanci. An hi son a sami hili wanda ba ya da tudu da gangare wanda ke iya jifka da kyau kuma ya zamanto akwai ruwa ko da yaushe a wurin masu kyau kuma masu yawa.



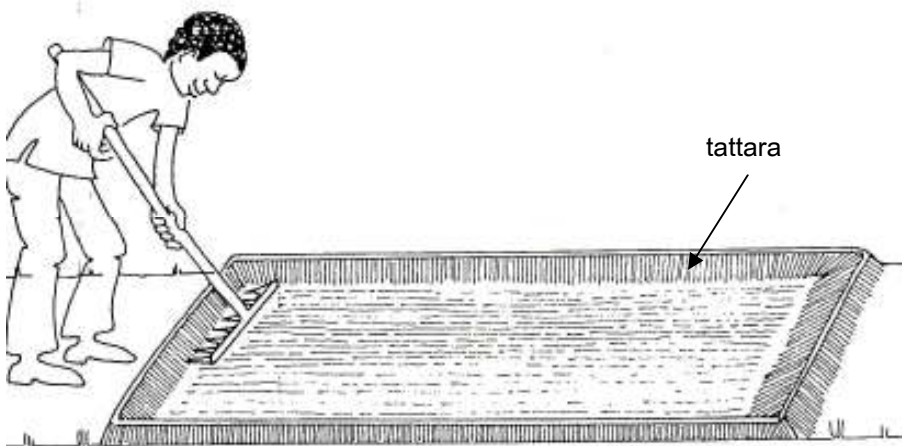
7.2. Guaran wurin renon irin dashe

A takaice fala ta renon irin dashe na da fadin metir 1 amma tsawon na iya zama daban-daban dangance da yawan hili ko kuma da kamannu wuri. A bar hili tsakanin fala da fala wanda ya kai santimetir 300 zuwa santimetir 500 saboda a ji dadin tahiyar da ayukka. In wuri mai gangara ne sai a gilma faloli. Idan ana son cin nasara wajen renon irin dashe :

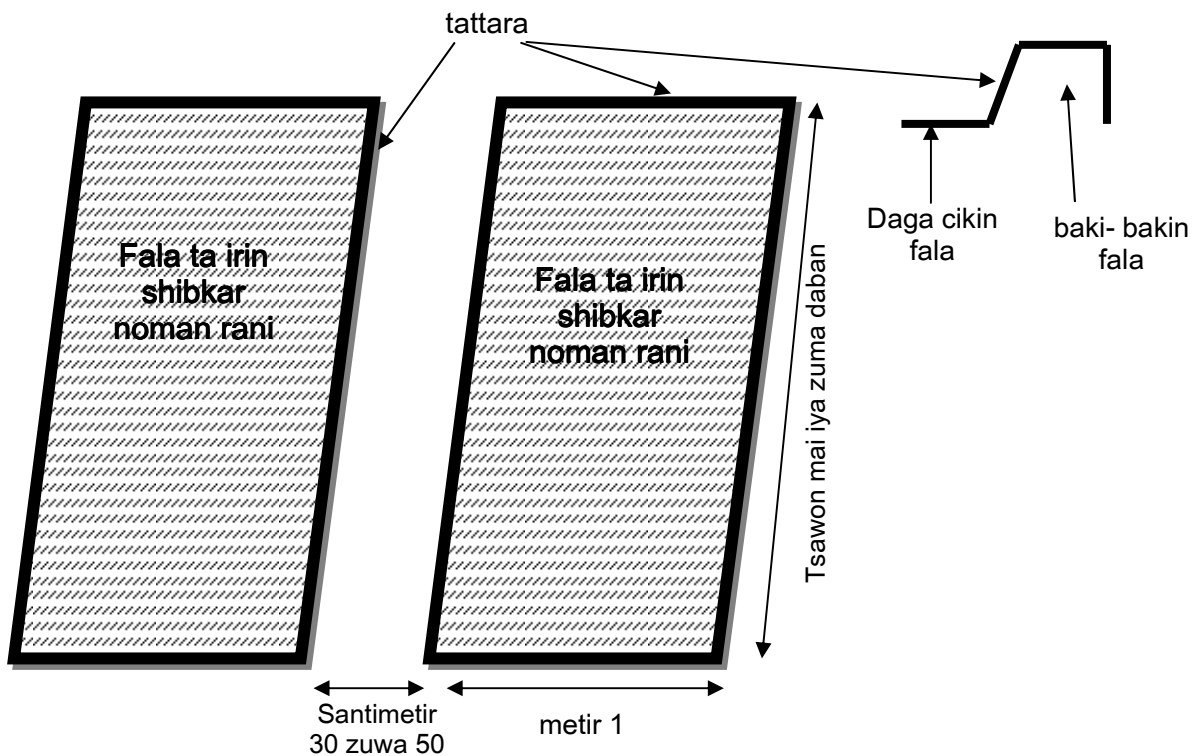
- Sai a yi ma faloli tattara ko kuma a yi masu tudu in ana tsoron ruwa su yi yawa.



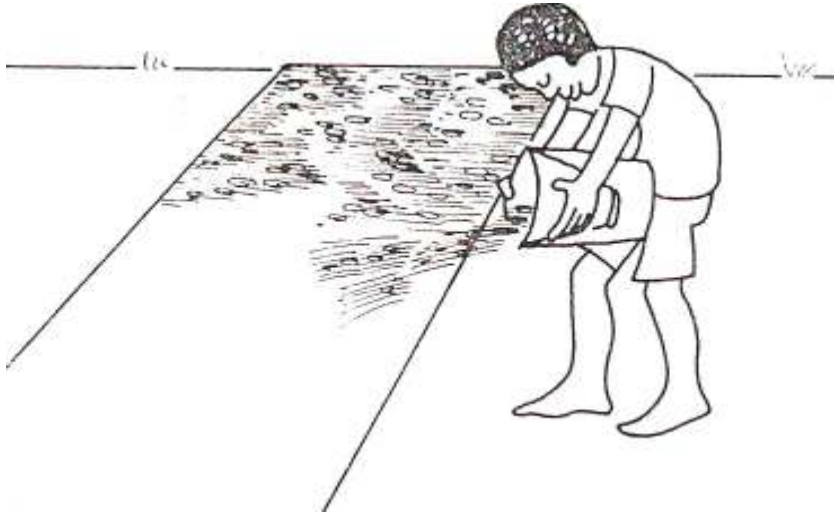
A yi ma faloli bai guda in ana yin su



A yi ma faloli tattara don riƙe ɗanyi

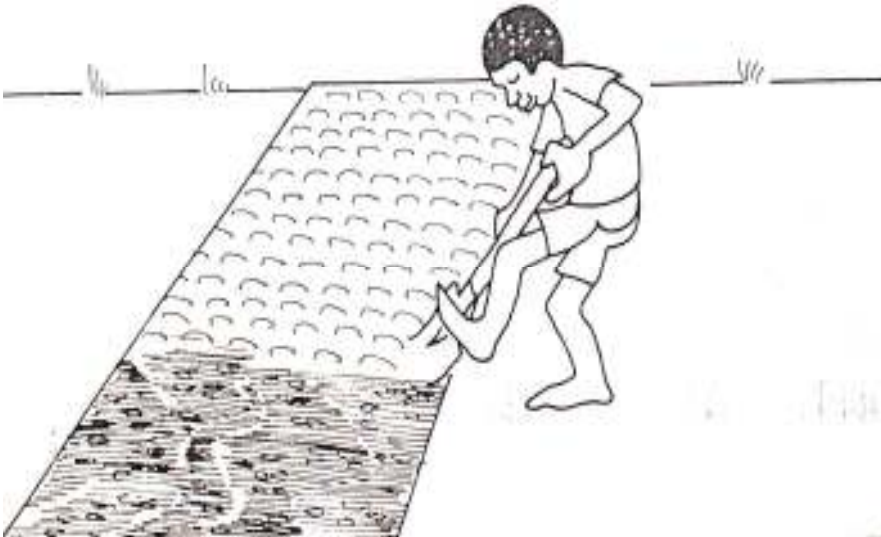


- A kai taki wanda ya ruɓa sosai a watsa shi ko' ina a cikin fala.



Watsa taki galgajiya

- A cusa taki don ya shiga ƙasa ta hanyar juya shi da helu

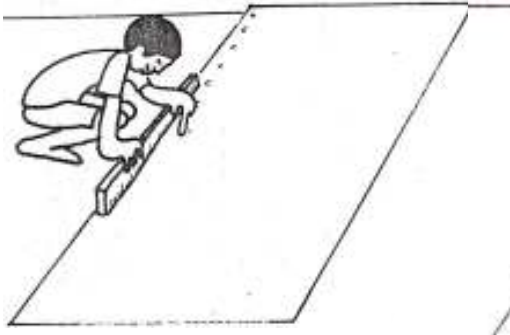


- A ba fala ruwa da maraice ya hi dacewa kahin a yi shibka.

7.3 Shibka iri

Kahin a shibka iri sai an sa ma iri magani in ba a riga anka sa musu tun can ba. Sa musu ɗan barbaɗo maganin miyagun ƙwari ko kuma habɗi na itatuwa don a kare shibka daga ciye-ciye ƙwari. In za a yi shibka sai an yi aiki da ka'idodi kamar haka :

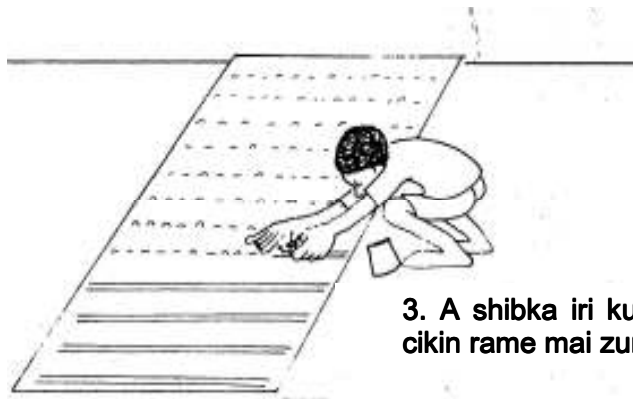
- Tsakani rame da rame a sanya tazaraar santimetir 10 zuwa 15 ban da tumati kawai da ke son sarari na santimetir 20 ;
- A tsamuka da yatsu iri a sanya cikin layin na musamman da aka yi ;
- A tabbata da irin ya haɗu sosai da Kasa a sa hannu a ƙara gyarawa ;
- Kowane kalar irin da aka shibka a rubuta sunanshi saboda yana amfanin a gaba in ana son a yi wani aiki can gaba ;



1 A auna sarari tsakanin kunya da sanda ko kuma ja-layi



2. A zana kunyoyi ko layuuyuka da kunya (layi da layi)

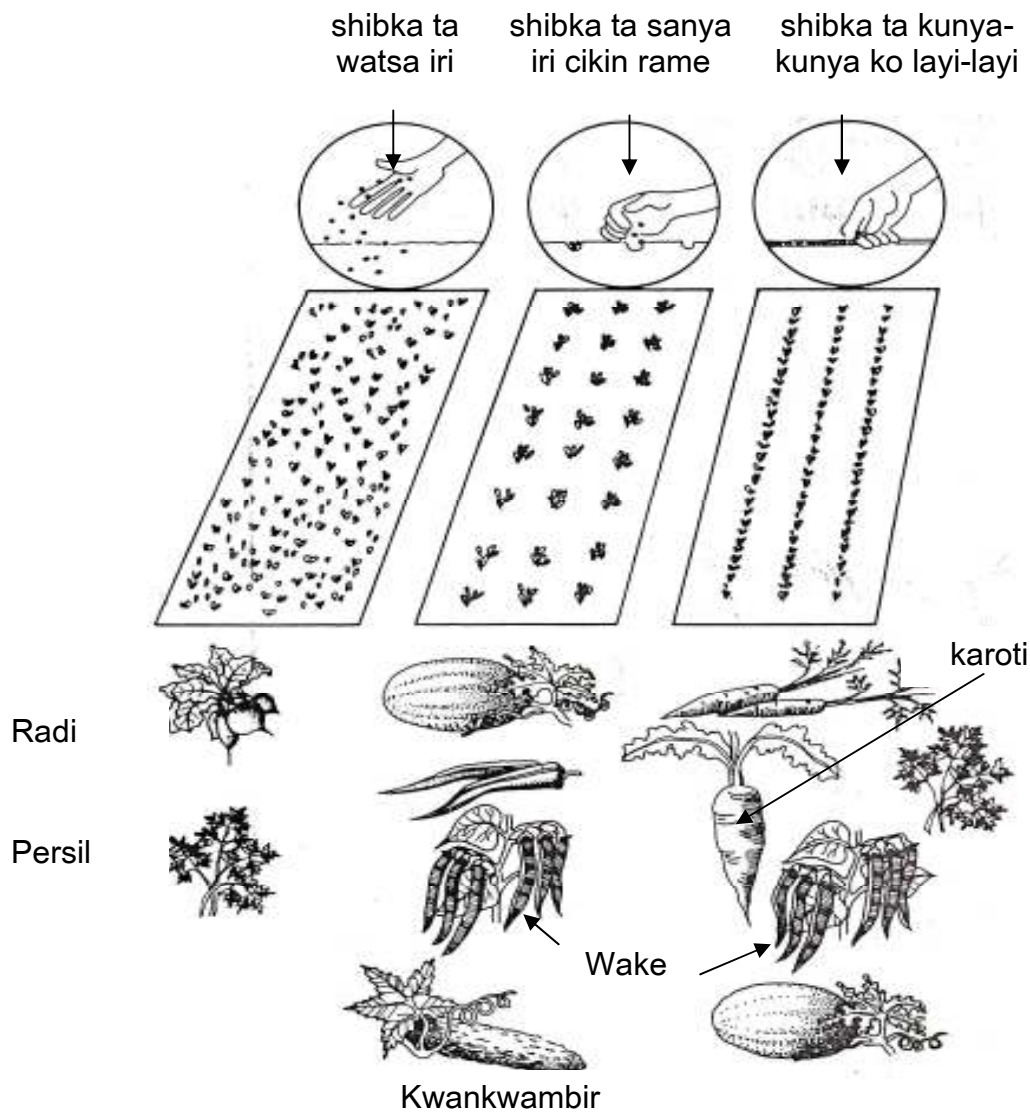


3. A shibka iri kusa-kusa da juna a cikin rame mai zurhi santimetir 1

- Kar a watsa iri saboda irin da aka watsa in ya hito bai ƙwari, bai kabri kuma ba ya da jimirin wahala,
- A lulluƙe shibkar da aka yi da ciyawa saboda a rage ma shibka kaihin rana da iska mai zahi.

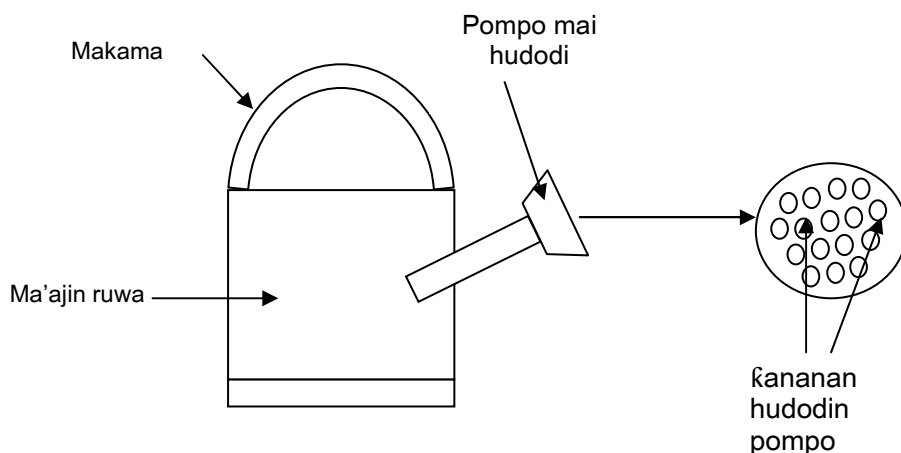
Shibka iri ukku ce :

1. Watsa iri ba a cika yin shi sai shibke-shibke kamar su radi da sauransu,
2. Shibka ta sanya iri cikin rami-rami kamar guna da danginta, kunbewa da wake,
3. Shibka a kunya-kunya ko a layi-layi kamar karoti da wake.



7.4. Tattalin irin dashe

A riƙe ba irin ruwa kowace rana da maraice da arozuwar. A yi yadda hudodin za su dubi sama saboda kar ruwa su faɗo da ƙarhi har su yi ma ƙananan iri lahani.



Hoto irin arozuwar da ya dace.

A riƙa bincika lahiyar irin dashe kawace rana saboda a hidda mashe duk wani abu mai cuta mashe.

A hidda duk wata mugunyar ciyawa saboda kar irin ya rasa ruwa, taki da haske da ya kamata irin a ce shi kaɗai zai amfanin da da su ba tare da wata ciyawa ba. A hidda sauran abubuwan da shibka ba ta so ta hanyar noma da maimai ko da yausha.

A riƙa bincike lahiyar irin dashe in babu miyagun ƙwari waɗanda suke sa mashe rishin lahiya ko da sauri a yi ma iri magani tun banna ba ta yi yawa ba.

A bar irin dashe ya hi daɗe har ya yi ƙarfi sosai. A yi dashen iri lokacin da ya hi dacewa. Lokacin renon irin dashe ya danganta da irin shibka :

- irin dashe na albasa: kwana 45 zuwa 55,
- irin dashe na shu: kwana 25 zuwa 40,
- irin dashe na tumatir: kwana 25 zuwa 40,
- irin dashe na tattatsai: kwana 30 zuwa 45,
- irin dashe na tanka: kwana 45 zuwa 60,
- irin dashe na salati: kwana 20 zuwa 25,
- irin dashe na kwankwambir: kwana 45 zuwa 55,
- irin dashe na shu: sati 4 zuwa 5.

Lokacin dashe a bincika sosai har irin ya kai fagen a yi dashen shi. Lokacin da iri zai yi ana renon shi yana dangance ne da irin shibka ko da yanayi. Irin dashe da ya dace shi ne wanda ke lahiya ko mai ƙwari, mai kunnuya na gaske masu yawa da kuma sayyu lahiyayyi waɗanda suka soma ƙosawa.

VIII. Dashen irin da aka yi reno

8.1 husa'o'in dashe

Kahin a yi dashe sai an mallaki faloli masu metir 1,5 da metir 1,8 na tsawo da ke iya canzawa tare da barin sarari santimetir 300 zuwa 500 tsakanin faloli don a ji daɗin aiki (ban ruwa, noma da sauransu). In wuri ne mai tudu da gangare ne sai a shirbanta faloli su zan gilme.

A zan sa ma faloli takin galgajiya rubabbe. Ana warwara takin galgajiya bisa faloli daga baya a ƙara da takin zamani sai a juya su su shiga cikin ƙasa kamar misali santimetir 20 kahin a yi dashe, a sa rato a daidaita wuri kuma a hidda buraguzzan ƙasa, wannan ya na sa a sami sauƙin dashe.

Da marace ya hi dacewa da a yi dashen irin. Ga yadda ake yin dashe :

- a kwatanta fara ban faloli da safe ko da maraice kahin a yi dashe.

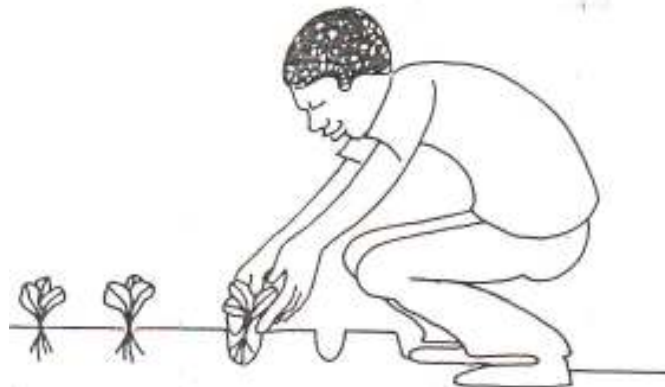


Ban ruwa na faloli kahin
a soma dashen iri

- A tabbata da lalle faloli sun sha ruwa sosai lokacin da za a dashen iri,
- A yi kunyoyin dashe tare da yin amfanin da da zare na awo. Yawan kunyoyi da sarari da ke tsakanin kunyoyi daban-daban yake saboda tana dangance ne da irin shibka,
- A yi ramu tare da sakin sarari tsakanin ramu tare da amfanin da da kwalin shibka, ramen ya kamata ya yi faɗɗi sosai saboda sayyu su wala sosai.



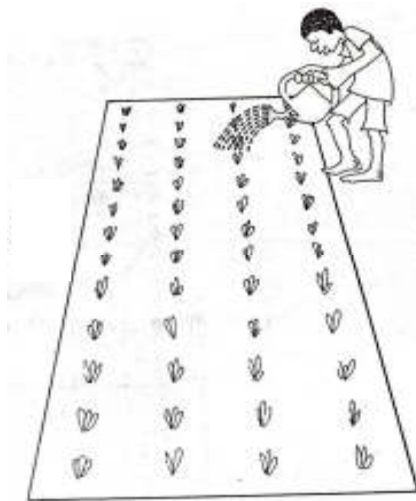
- A dasa irin in son samu tare da yin amfanin da da Buraguzzan laka a kewaye da irin da aka dasa.



- A dabe fasa da kyau a gewayen sayyu da hannu ko da ɗan guntun kotako don kar iska ya shigo har ya bushe su.



- A yi ban ruwa nan take bayan an fare dashen iri, a yi amfanin da da arozuwar mai bututu mai hudodi;



Iri da ya sami dashe na kirki

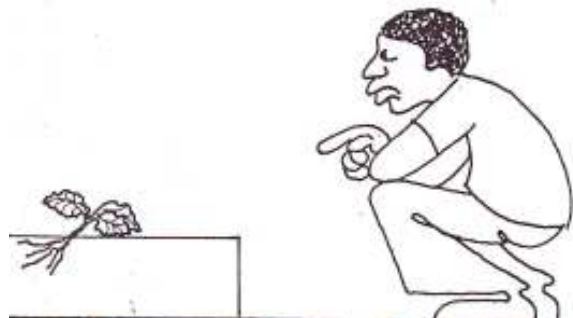


- A aje wani iri gehe a wurin renon iri saboda idan an sami wanda bai kama ba a canza shi.

8.2 Abubuwan kiyayewa in ana cikin dashen iri

Idan ana son cin nasara wajen dashen iri :

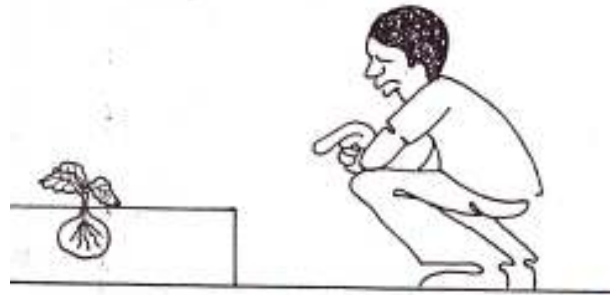
- kar a dasa iri a kwance



- A gyara sayyun iri da kyau kar bakunan sayyu su dubi sama.



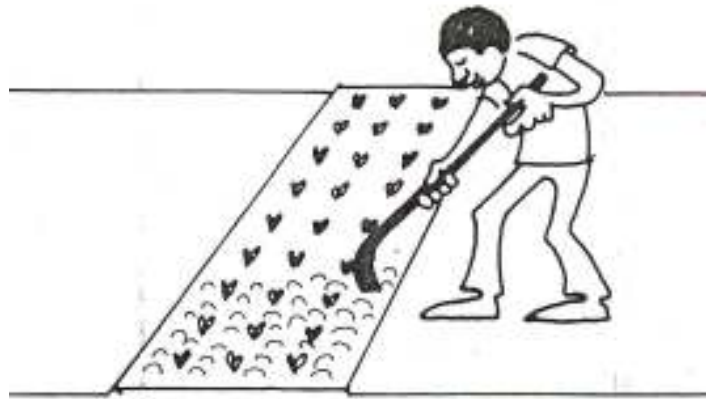
- A tattara ƙasa a gindin iri amma kar a yi sake iska mai yawa ya zamanto yana cikin rami.



IX. Dubawa da tattalin iri bayan an dasa shi

Dubawa da tattalin iri bayan dashe suna da mahimmanci ƙwarai wajen samun amfanin da noman rani mai yawa kuma mai kyau. Ayukkan da ya kamata a yi sune :

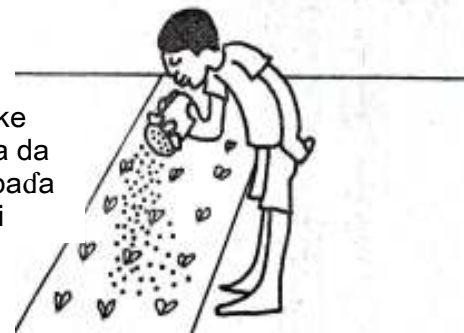
- A yi noma mai zurhin santimetir 20



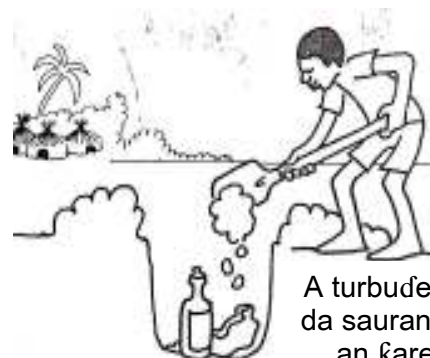
- A riƙa hankali da lahiyar cimaka kuma a riƙa sanya magani, a wanke hannuwa kuma a gina rame don a turbuɗe kwankuna da ledodin magani.



Yadda ake amfanin da da kwalin barbaɗa magani



A wanke hannuwa sosai bayan an ƙare sa magani

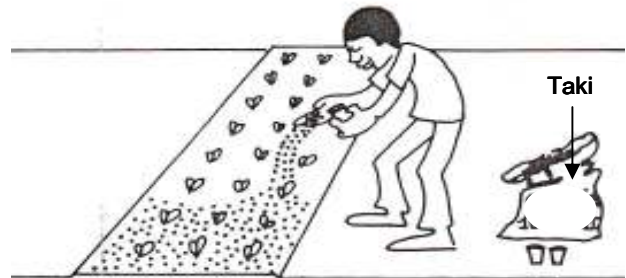


A turbuɗe kwalabe da sauransu bayan an ƙare da su

- A yi noma da maimai kowane lokaci don a kashe muyagunya ciyawa



- A sanya takin zamani 15-15-15 ko ure don a taimaka ma shibka.
- A sanya takin zamani superphosphate ko NPK



- A ba shibka ruwa daidi yadda take buƙata



X. Ga ire-iren shibke-shibke da kuma lokuttan tahiyyar da aikin nomansu

10.1. Lokuttan nomansu

Ana nuhi da lokuttan noman shibka, lokutta ne da suka soma tun gyaran wurin noma har lokacin d'ebe amfanin da noman rani.

Albasa

Lokaci	Ayukka
Daga 10 zuwa 15 na watan satumba	Gyaran wurin reno iri na dasawa
15 ga watan satumba	Shibka irin da za a reno
15 ga watan satumba zuwa 20 na watan oktoba	Tattalin irin dashe
15 ga watan satumba zuwa 20 na watan oktoba	Gyaran irin dashe
20 zuwa 25 ga watan oktoba	dashe
20 ga watan oktoba zuwa 25 ga watan fabarairu	Kulawa da abinda aka dasa
20 ga watan fabarairu	Hidda albarka noma (a d'ebe albasa)

Kwambitar

Lokaci	Ayukka
Daga 1 zuwa 18 na watan oktoba	A sa kwambitar ya yi tsiro
Daga 1 zuwa 18 na watan oktoba	Tattalin tsiron farko
Daga 18 zuwa 20 na watan oktoba	Renon iri na dasawa (yawanta shi)
Daga 15 zuwa 20na watan oktoba	Gyaran wurin da za a dasa kwambitar
Daga 20 zuwa 25 na watan oktoba	Dashen kwambitar
Daga 20 ga watan oktoba zuwa 25 na watan fabarairu	Tattalin dashen da aka yi
20 ga watan fabarairu	ɗebe albarka noma (kaka)

10.2. Takardun bada bayani bisa noma rani

Suna bada bayanai bisa halullukan kowace irin shibka. Suna taimakawa wajen gano yadda shibka ke rayuwar da biyan buƙkatunta, wahalar da za a yi mata da kuma irin amfanin dan da ake iya samu idan aka yi aiki da duka gargadin da aka samu.

10.2.1. Shibke-shibke noman rani masu yin diya

Tumatir

- Tsawon okacin shi kai: kwona 90 zuwa kwona 120
- Tsawon lokacin reno iri: kwona 30 zuwa 35
- Yawan iri a eka1: kg 0,2 kowace eka
- Kudin kg1 kowace eka na irin zamani: 8000f(jika8)
- Takin galgajiya: tan 30 kowace eka1
- Takin zamani (NPK ko 15-15) kg 600 kowace eka1
- Buƙatun ruwa: metir kub (m3) 11.500
- Yawan amfanin dada aka ake iya samu: tan 20 zuwa 33 kowace eka
- Yawan masu aiki: aikin ini na mutun 350
- Dashe: irin mai kunnuwa 4 zuwa 6
- Sakin sarari tsakanin kunya-kunya: santimetir 30 da tsakanin gindi da gindi sentimetir 40 zuwa 50.

Tattasai

- Tsawon lokaci kahin shi kai: kwana 180 zuwa kwana 250
- Tsawon lokacin reno iri: kwana 40
- Yawan iri a eka1:garam 200 eka1
- Kudin iri na zamani: jika 3
- Takin galgajiya: tan 20 kowace eka1
- Takin zamani (NPK ko 15-15-15) kg 500 kowace eka1
- Buƙatun ruwa: metir kub (m3) 6.600
- Yawan amfanin dan da ake nema: tan 3 kowace eka1 na busasshe
- Yawan masu aiki: aikin ini na mutun 235
- Dashe: irin mai kunnuwa 4 zuwa 6
- Sakin sarari tsakanin kunya-kunya: santimetir 50 tsakanin kunya, santimetir 50 gindi zuwa gindi.

Tanka (jan tanka)

- Tsanwon lokaci kahin shi kai: kwana 45 zuwa kwana 60
- Yawan iri a eka1:garam 200 zuwa 250 kowace eka1
- Takin galgajiya: tan 20 kowace eka1
- Takin zamani (NPK ko 15-15-15) kg 300 kowace eka1 tattali kg250 eka1
- Buƙatun ruwa: metir kub (m3) 6.600
- Yawan amfanin da ake nema: tan 15 kowace eka1
- Dashe: irin mai kunnuwa 4 zuwa 6
- Sakin sarari tsakanin kunya-kunya: santimetir 50 tsakanin layuuyuka kuma santimetir 50 tsakanin ginduna
- Yawan masu aiki: aikin ini na mutun 235

10.2.2. Shibka mai bada ganye

Shu

- Tsawon lokaci kahin shi kai: kwana 95 zuwa kwana 115
- Tsawon renon iri na dashe: kwana 25 zuwa 35
- Yawan iri a eka1:garam 600 zuwa 700 kowace eka1
- Kudin kg na iri (irin kasuwa kofinag): 40.000f (jika 40)
- Takin galgajiya: tan 20 kowace eka1
- Takin zamani: kg 200 a sawa 3
- Buƙatun ruwa: metir kub (m3) 7050
- Yawan amfanin dan da ake nema: tan 30 kowace eka1
- Yawan masu aiki: aikin ini na mutun 350
- Dashe: irin mai kunnuwa 4 zuwa 6
- Sakin sarari tsakanin kunya dakunya: santimetir 40 zuwa 60 kuma santimetir 40 zuwa 50 tsakanin ginduna.

Salatti

- Tsawon lokaci kahin shi kai: kwana 45 zuwa kwana 50
- Tsawon reno iri na dashe: kwana 20 zuwa 25
- Yawan iri a eka1: 9370 kowace eka1
- Kudin kg na iri (irin kasuwa kofinag): 40.000f (jika 40)
- Takin zamani: kg 300 kowace eka1
- Yawan amfanin da ake nema: tan 33 zuwa 45 kowace eka1
- Yawan masu aiki: aikin ini na mutun 350
- Dashe: irin mai kunnuwa 3 zuwa 4
- Sakin sarari tsakanin kunya-kunya: santimetir 90 tsakanin layuuyuka kuma santimetir 30 zuwa 40 tsakanin ginduna

10.2.3. Shibka mai Karmin saye

Karoti

- Tsawon lokaci kahin shi kai: kwana 450 zuwa 60
- Yawan iri a eka1: 4kg zuwa 6 kowace eka1
- Kudin kg na iri: 2.000f (jika 2)
- Takin zamani: kg 400 kowace eka1
- Takin galgajiya: tan 25 kowace eka1
- Yawan amfanin dan da ake nema: tan 25 kowace eka1
- Yawan masu aiki: aikin ini na mutun 150
- Dashe: irin mai kunnuwa 3 zuwa 4
- Sakin sarari tsakanin kunya-kunya: santimetir 25 zuwa 50 kuma santimetir 3 zuwa 5 tsakanin ginduna.

10.2.4 Shibka mai da cikin kasa

Albasa

- Tsawon lokaci kahin shi kai: kwana 150
- Tsawon renon iri na dashe: kwana 40 zuwa 50
- Yawan iri a eka1: 6kg eka1
- Kudin kg na iri: (jika 35)
- Takin zamani: kg 400 kowace eka1
- Takin galgajiya: tan 10 kowace eka1
- Buƙatun ruwa: metir kub (m³) 8750 (tsakanin wata nobamba da na maris)
- Yawan amfanin dan da ake nema: tan 35 zuwa 63 kowace eka1
- Yawan masu aiki: aikin ini na mutun 300
- Dashe: irin mai kunnuwa 4 zuwa 6
- Sakin sarari tsakanin kunya-kunya: santimetir 15 zuwa 20 kuma santimetir 10 zuwa 15 tsakanin ginduna

10.2.5 shibka mai bada saye babba

Dankali

- Tsawon lokaci kahin shi kai: kwana 120
- Yawan iri a eka1: yada 20 000 zuwa 30 000 kowace eka1
- Kudin yada: ba fayyadadde ba ne
- Takin galgajiya: tan 10 kowace eka1
- Takin zamani :kg 300 kowace eka1
- Buƙatun ruwa: metir kub (m³) 2000 a lokacin damana ga rani ko metir kub (m³) 8600
- Yawan amfanin da ake nema: tan 20 kowace eka1
- Sakin sarari tsakanin kunya-kunya: santimetir 100 kuma santimetir 30 zuwan 50 tsakanin ginduna
- Tsawon yadar za a dasawa: santimetir 20
- Masu aiki: aikin ini na mutun 480

Rogo

- Tsawon lokaci kahin shi kai: kwana 180 zuwa 360 dangance da irin gurin da ake son cimma
- Yawan iri a eka1:yada 10000 zuwa 15000 kowace eka1 sai bayan noman rani ko na damana ake sa shi
- Buƙatun ruwa: metir kub (m3) 3000 da ga watan afirilu zuwa na satumba
- Ma su aiki: aikin ini na mutun 180

Kwambitar

- Tsawon lokaci kahin shi kai: kwana 90
- Yawan iri a eka1:tan 1,2 zuwa 1,5.na kwambitar zaɓaɓɓe wanda za a shibka a eka
- Takin galgajiya: tan 20 kowace eka1
- Takin zamani :kg 250 kowace eka1
- Buƙatun ruwa: metir kub (m3) 6000 a eka
- Yawan amfanin da ake nema: tan20 zuwa 50 kowace eka1
- Ma'aikata masu aiki : ini mutun 450

XI. Sanya taki

Idan za a sa ma fala mai faɗin metir kare (m2) 10 ga yadda za a yi.

Irin shibka	Lokacin reno iri	Bayan shibka (dasa) iri	
	Sa taki	Sa taki	Takin na tattalin shibka
tumatir	<ul style="list-style-type: none"> • Kg 40 na takin galgajiya ruɓaɓɓe sosai kwatamci burweti 1 cikakka • g 200 na NPK takin zamani a kwatamce kwalin ashana 10 cike • g200 na ure a kwatamce kwalin shana 10 cike 	<ul style="list-style-type: none"> • Kg 30 na takin galgajiya ruɓaɓɓe ko kuma tassa 3 masu kg 10 na nauyi • g100 na NPK takin zamani 	<ul style="list-style-type: none"> -g200 na ure bayan yi dashe da kwana 7 -g50 na NPK bayan an yi dashe da sati 2 -g50 na NPK bayan sati4 da aka yi dashe
Tattasai/Tanka	<ul style="list-style-type: none"> • kg 20 na takin galgajiya ruɓaɓɓe sosai ko kwano 2 na kilo 10 • g 200 na NPK • g 200 na ure 	<ul style="list-style-type: none"> • kg 30 na takin galgajiya ko kwano 3 na kg10 • g100 na NPK takin zamani 	<ul style="list-style-type: none"> -g100 na ure bayan yi dashe da kwana 7 sati -g100 na NPK bayan an yi dashe da sati 2 -g100 na NPK bayan sati4 da aka yi dashe -g100 na ure bayan yi dashe da sati 8 -g100 na NPK bayan an yi dashe da sati 11
Shu	<ul style="list-style-type: none"> • kg 30 na takin galgajiya ruɓaɓɓe ko kwano 3 na kg10 • g100 na NPK • g100 na ure 	<ul style="list-style-type: none"> • kg 30 na takin galgajiya ruɓaɓɓe ko kwano 3 na kg10 • g100 na NPK • g100 na ure 	<ul style="list-style-type: none"> -g100 na ure bayan yi dashe da sati1 -g100 na NPK bayan an yi dashe da sati 4

Irin shibka	Lokacin reno iri		Bayan shibka (dasa) iri	
	Sa taki		Sa taki	Takin na tattalin shibka
Salati				-g300 na NPK bayan an yi dashe da sati 2
karoti			<ul style="list-style-type: none"> kg 30 na takin galgajiya ruƙaƙƙe ko kwano 3 na kg10 g100 na NPK 	-g100 na ure bayan sassabe -g200 na NPK bayan an yi dashe da sati 2 -g100 na NPK bayan an yi dashe da sati 8
albasa	-20kg na takin galgajiya ko kwano 2 na kg10 - g250 na NPK - g50 na ure	-kg 30 na takin galgajiya ko kwano 3na kg10 - g 300 na NPK - g 50 na ure		-g200 na NPK bayan an yi dashe da sati 3 - g200 na NPK bayan an yi dashe da sati 5 g200 na NPK bayan an yi dashe da sati 8
Dankali		15kg na takin galgajiya ko kwano 1 da rabi na kg10 g500 na NPK		G400 na NPK bayan an yi dashe da sati 4
kwambitar		-g300 na NPK(15-15-15-15) wanda za a watsa bayan an yi noma da kahin a zahe ƙasa -g200 na ure wanda za a watsa bayan an yi noma da kahin a zahe ƙasa		-g100 na NPK in dankali ya kai fagen yin kulame (babban saye)

XII. Kariyar shibka daga miyagun ƙwari

Irin shibka	Cututtuka	Banna	Magani
Albasa	Cuta mai hana albasa hita da kyau	-albasa ba ta hita ƙwarai -kunuwa suna bushewa -kunuwa sai su mirde	Gamalip na ruwa Gamalip na ruwa (decis)
	-tsusa mai hudewa da cin kunnuwan albasa	Tattake kunnuwa da hude su	Gamalip na ruwa (decis) in tsutsotsin sun soma yaduwa ƙwarai
	Ruƙa fara ta ɗan albasa	Wurin da ya ruƙe sai ya yi yin wani abu kamar zare fari	-A bar bada ruwa da har su wuce minzanin -A cire ɗiya albasa suka kamu da cutar a ƙone su
Shu	Tsutsa mai huhhude shu	Tattake kunnuwa zucciya da fome	Gamalip na ruwa karate
	Tsutsa mai kama gindi	Kunuwa su yi batsa-batsa	Fazo ɗan barbada ya yi dacewa
Karoti	Cuta mia kama sayyun karoti	-Rishin girma da kyau -Rishin lahiyar ƙananan sayyu	Canza shibka (bana wata,badi wata dabam)

Irin shibka	Cututtuka	Banna	Magani
Tumatir	Tsutsa mai banar dare	-katse huren tumatir -bata d'yan tumatir	karate
	Tsutsa mai bannar dore	Wani baƙi-baƙi bisa kunnuwa Kunnuwa su yi masara-masara	Gamalip na ruwa karate
	Cuta mai sa kunnuwa su zan balge kuma da tsaga-tsaga	Kunnuwa su yi kamar kwana-kwana.	Fazo d'an barbado
Salati	Cuta mai bannata Kunnuwa	Rubewa kunnuwa da zubar su	Gamalip na ruwa
	Cuta mai kwayar sinadiri mai hana girman shibka	Kunnuwa su yi baki	Gamalip (captofol)
	k'wari mai cin kunnuwa	Tattakewa da hude hkunnuwa	Magani husa-husa
	kwayar cutar dangin sinadari	Rishin ci-gaban kunnuwa gindi salati ya danlaunin masara-masara	A hidda duk gindi da ya kamu
Tattasai da tanka	k'waro ami hude icce tattasai da ko tanka dan ya shanya ruwa jikin shibka	Huda icce shibka kuma ya janye ruwan jikin shibka kuma ya sa shibka rishin lahiya	karate
	k'uda mai bata d'ya	d'ya su rube kuma su yi zahin faduwa kasa	Gamalip na ruwa
	Cuta mai kama sayyu kuma ta hana girma	Rishin girma Rishin lahiyar k'ananan sayyu	Jujjuya shibke-shibke Sa magani tun lokacin reno iri
Dankali	Cuta mai sa kunnuwa su canza launi	Rishin walwalewar shibka Kunnuwa suna canza launi su d'an launin da ba nasu ba	Dasa yada lahiyayya
	Cuta mai kama sayyu	Shibka ba ta girma yadda ake so Rishin lahiya mai kama k'ananan sayu	Jujjuya shibke-shibke Hasken rana
Rogo	Cuta mai kama sayyu	Kunnuwa na canza kama Lalacewa hure da sa kunnuwa su d'an launin fari	A kwai hanƙurin magani kahin rishin lahiya ya bace Dasa irin rogo mai lahiya
	Cuta mai kama sayyu	Rogo ba ya girma sosai Rishin lahiya k'ananan sayyu	Jujjuya shibke-shibke Sa magani tun lokacin reno iri
Kwambitar	tsutsa	Tattake kunnuwa kuma ta katse iccen rogo	Gamalip na ruwa
	Cuta mai kama sayyu	Rishi girma da kyau Rishen lahiya k'ananan sayyu	Jujjuya shibke-shibke Sanya magani tun reno iri.

Irin littatafan da aka yi aiki da su wajen wallafa wannan kundi

- Littahin wata babbar ma'aikatar kan bincike-bincike na huskar shibke-shibke irin na noman rani na ƙasa Senegal
- Sakamako na rubuce na lahiyar da ayukkan noman rani a gundumar Buza na watan afirilu na 2008 da babbar Ma'aikatar didan gona ta Buza ta wallafa
- ICRISAT 2007
- JGRC maris 2001
- UNICEF satumba 1981(ƙungiyar duniya mai kula da ci-gaban ƙananan yara) littahin jagora ga mai noma rani.