Nafolo-jardin kalan: yiriwali ni farikanni

Kalon-kalanw ni yiriwaliw ka baara kɛ ka ɲɛ, walasa dugukolo kana ban, ani bana-kɛlɛw ka dabila.



KƆNƆKOW

1 Fɛn-ɲɔgɔn-fɛn-ɲɔgɔn-cɛ-don-don-ko ka nafa ka bon kosɛbɛ ka kɛɲɛ ni:
2 SEENIW LABANTA
3 Ka **fɛnɲɛnɛn** ni **fɛnɲɛnɛn kɔfɛta** kalan
4 ROTATION
5 An ka mara kɛrɛnkɛrɛnnen kɔnɔ, yɔrɔw jɔnjɔnni kɛrɛnkɛrɛnnen tɛ wajibiya sabu :
6 Fɛn camanw minnu ka kan ka lajɛ walasa ka binw sugandi
7 Samiyɛ bɛɛ
8 Baarakɛcogo caman kɔlɔsili
9 Munna i ka kalan botaniki denbaya ni jiji kulu kan?
10 1
11 Mun na i ka kan ka dɔn komposti nafama ye min na?
12 Fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-ba
13 Fàgadenw ka baara kɛcogo ɲuman sigi
14 1
15 Nafolo-ɲɔgɔnye misali
16 BAJININ NI FITININW
17 1
18 Misaliw minnu ka kan ka bali
19 Nafolo-jɛgɛnw ka laban-laban misali
20 Fɛɛrɛɲɔgɔnya ɲuman bɛ dugukolo lakana ka ban nafɛɲɛnajɛya la, ka bana kɛlɛ, ka nafolo kɛcogo ɲɛ: ji, komposti,
21 1
22 3
23 Nàfà-yɔrɔw ka cɛn-cɛn-kɛli misali
24 1
25 Fɛɛrɛ wɛrɛ
26 Fɛɛrɛ wɛrɛ min bɛ baara kɛ ni fɛn caman dilen ye, o ye ka dumuni-fɛnba dɔ dɔn san kelen-kelen bɛɛ la. I bɛ dumuni-fɛ
27 Fɛɛrɛw ni dugukɔnɔna nɛnɛya: nɛnɛya nafama dɔw
28 Fɛɲɛnɛnɛw
29 Dusukɔnɔna
30 Fɛɛrɛw ni jiriw
31 Fàgàlali (Rotation) ka Kɛɲɛ

Fɛn-ɲɔgɔn-fɛn-ɲɔgɔn-cɛ-don-don-ko ka nafa ka bon kosɛbɛ ka kɛɲɛ ni:



Fɛn-ɲɔgɔn-fɛn-ɲɔgɔn-cɛ-don-don-ko ka nafa ka bon kosɛbɛ ka kɛɲɛ ni:

- ka **dugukolo hɛrɛ ni a ka nafa bonya ani ka o mara ka di.
- ka **ɲɔgɔn-fɛn-ɲɔgɔn-cɛ-don-don-ko** kɛ walasa ka **dugukolo** bonya ani ka **dugukolo** ka nafa bonya, o bɛ kɛ ni **dugukolo** ka bonya ye ani ka **dugukolo** ka nafa bonya ye.

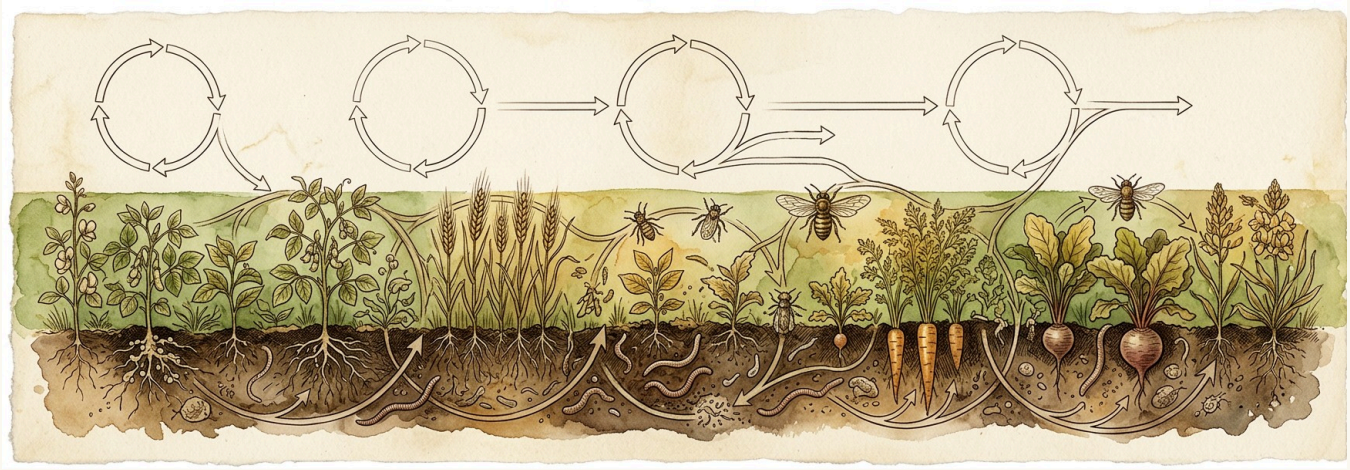


SEENIW LABANTA

SEENIW BƐN KƐ CƐN ƝƆGƆN NA CƐN?

3

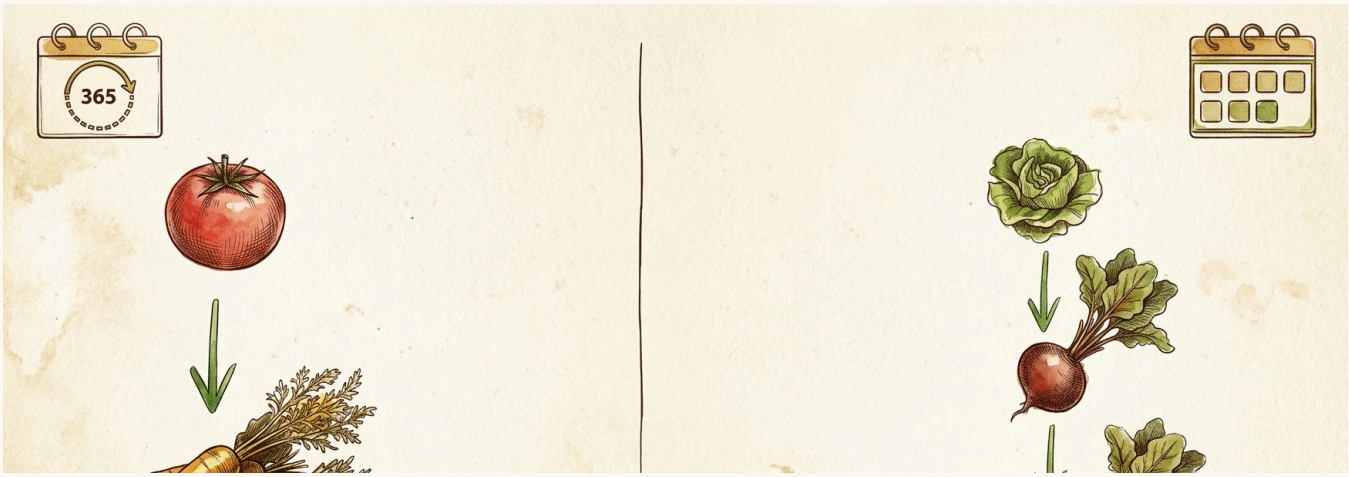
Ka **ɟɛnɲɛnɛn** ni **ɟɛnɲɛnɛn kɔɟɛta** kalan



Ka **ɟɛnɲɛnɛn** ni **ɟɛnɲɛnɛn kɔɟɛta** kalan

Ka **ɟɛnɲɛnɛn** ni **ɟɛnɲɛnɛn kɔɟɛta** kalan

ROTATION



ROTATION

Sanu caman walima san caman

Tomati baara

SUCESSION

San kelen walima cɛɲi surun

Saladi

Radi

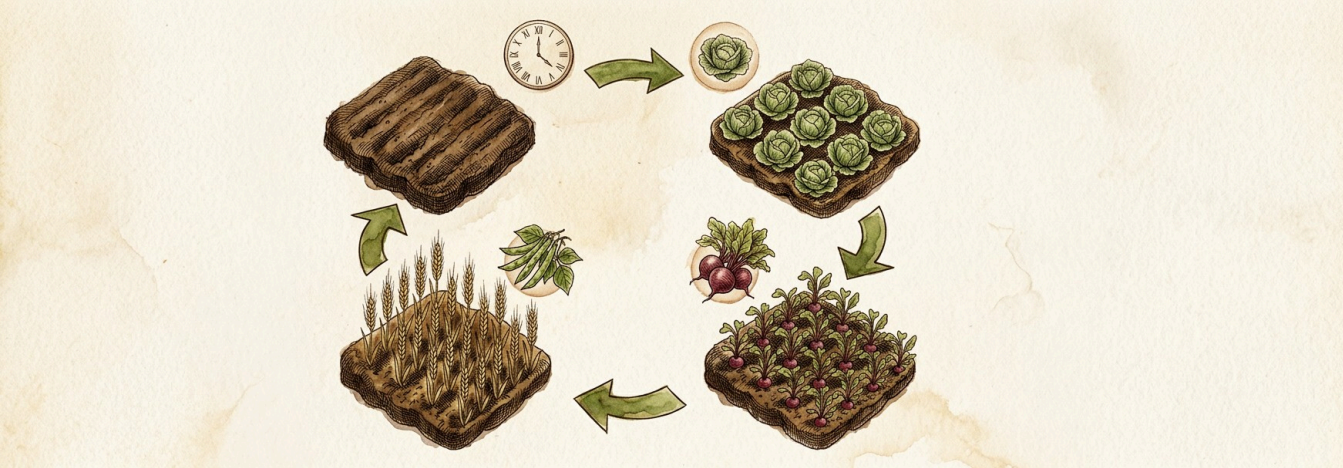
Karoti baara

Faba denmisɛn

Rotation ye baara caman labɛnni ye ka kɛɲɛ ni sanu caman walima san caman ye, tuma caman, o ye ka dugukolo bali ka ban ani ka bana walima dunan minnu ka kɛɲɛ ni kungo denbaya dɔ ye, olu bali.

Succession ye baara caman labɛnni ye yɔrɔ kelen kan san kɔnɔ walima cɛɲi surunw kɔnɔ.

An ka mara kɛrɛnkɛrɛnnen kɔnɔ, yɔrɔw jɔnjɔnni kɛrɛnkɛrɛnnen tɛ wajibiya sabu :



An ka mara kɛrɛnkɛrɛnnen kɔnɔ, yɔrɔw jɔnjɔnni kɛrɛnkɛrɛnnen tɛ wajibiya sabu :

Dugu ka nɔgɔya ka bonya tuma bɛɛ (komposti, dugukolo datuguni tuma bɛɛ, dugukolo nɔgɔya ni fɛnɲɛnɛw).

Ɲanamaw (minnu bɛ wele fana ko **jirituɲɛw**) bɛ dɔgɔya ni dɛsɛw ni dugukolo nɔgɔya jiriw ye.

Aw ka jiriw wɛrɛw laɲini bɛ kojuguw dɔgɔya yɛrɛmahɔnɔn.

Fɛn min ka fisa, o ye laɲini kɛli ye ni sigida wɛrɛw ni jiriw wɛrɛw ni jiriw jɔli ye, ani minnu bɛ nafa sɔrɔ dugukolo la.

6

Fɛn camanw minnu ka kan ka lajɛ walasa ka binw sugandi



Fɛn camanw minnu ka kan ka lajɛ walasa ka binw sugandi

Fɛn camanw minnu ka kan ka lajɛ walasa ka binw sugandi

Samiyɛ bɛɛ



Samiyɛ bɛɛ

Samiyɛ kɛɲɛ

Samiyɛ sanji:

* Foroba nɔgɔmanw ka fɛnɲɛnama dɔnko. Samiyɛ: ka fɛnɲɛnama dɔnko kɛ ka kɛɲɛ ni samiyɛ ka jikura ye.

Sugu / baarakɛcogo:

* Ka fɛnɲɛnama kɛ min bɛ feere kosɛbɛ tuma min na fɛnɲɛnama bɛ ɲini kosɛbɛ.

* Ka fɛnɲɛnama caman kɛ walasa ka dɔnko nɔgɔya.

* Ka fɛnɲɛnama kɛ min bɛ se ka kɛ tuma dɔɔnin (saladi) ani min bɛ se ka kɛ tuma jan (tomati).

Sugu / baarakɛcogo:



Baarakɛcogo caman kɔlɔsili

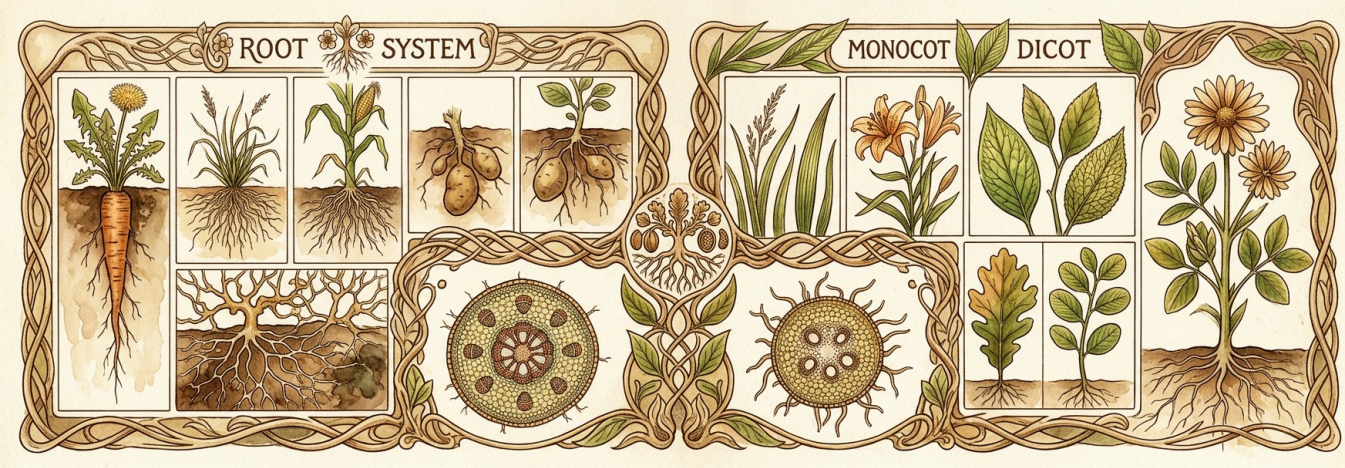
Baarakɛcogo caman kɔlɔsili: cogo di walasa ka baarakɛcogo sugandi ka kɛɲɛ ni baarakɛcogo kɔrɔ ka dɔnko ye?

I ka kan ka dɔnko sɔrɔ fɛn ninnu kan:

1. **Fɛnɲɛnɛ dɔnko**: I ka kan ka fɛnɲɛnɛ dɔnko caman kɛ.
2. **Juri kulu**: I ka kan ka juri kulu caman kɛ: juri gɛlɛn / juri nɔgɔn / juri falen.
3. **Kɔmpɔsɔ ka nafa**: I ka kan ka kɔmpɔsɔ caman kɛ: minnu bɛ kɔmpɔsɔ caman fɛ, ani minnu bɛ dɔgɔ fɛ.

9

Munna i ka kalan botaniki denbaya ni jiji kulu kan?



Munna i ka kalan botaniki denbaya ni jiji kulu kan?

Munna i ka kalan botaniki denbaya ni jiji kulu kan?

1



1

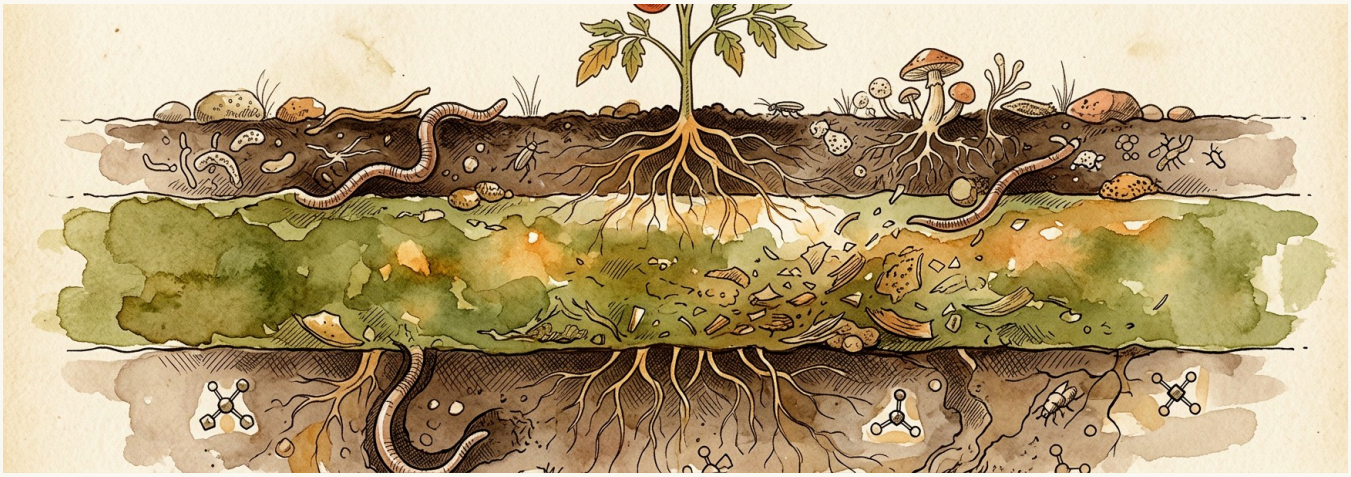
2 **Fɛnɲɛnajɛw / banaw Dunanbaara ɲinini Jiribolo ɣɔrɔw**

1 . Jiridenw minnu bɔra denbaya kelen na, olu ka teli ka kɛ ni :

- Fɛnɲɛnajɛw ni banaw kelenw ye (i n'a fɔ : mildiou Solanacées kama).
- Dunanbaara ɲinini kelenw ye.

2 . Jiribolo ɣɔrɔ wɛrɛw bɛ dugukolo ɣɔrɔ wɛrɛw lajɛ (sanfɛla ni duguma). Jiribolo ɣɔrɔ sanfɛla ni duguma wulilila cɛ bɛ dugu lajɛli kɛ ka nɔgɔya.

Mun na i ka kan ka dɔn komposti nafama ye min na?



Mun na i ka kan ka dɔn komposti nafama ye min na?

Mun na i ka kan ka dɔn komposti nafama ye min na?

Fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-ba



Fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-ba

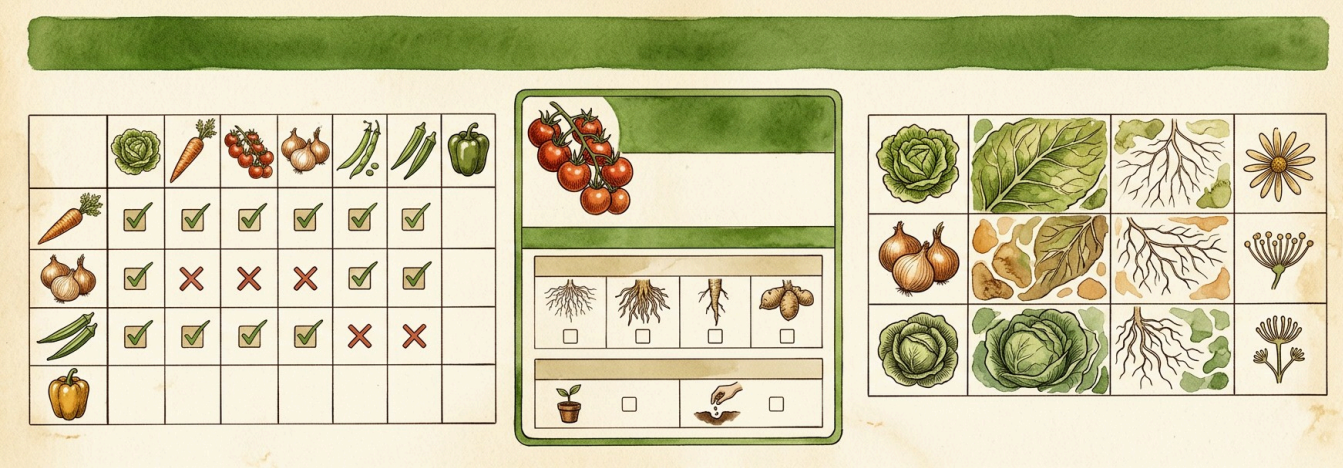
Compost Fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-fiŋɛ Compost **Fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-ba** ni **fɛn-ɲɔgɔn-na-jɛn-ɲɔgɔn-na-duguma-fiŋɛ** ka labɛn-ɲɔgɔn-na-kɛli b'a to duguma ka baara kɛ ka ɲɛ.



Fàgadenw ka baara kɛcogo ɲuman sigi

Fàgadenw ka baara kɛcogo ɲuman sigi

1



1

2 3

Walasa k’aw ka **jiɲɛ-sɛbɛnni** nɔgɔya ani ka **kɔnɔnɔ-kɔnɔnɔ** jɔnya, aw bɛ se ka sigi **minɛnba** saba kan:

1. **Jiɲɛ-sɛbɛnni** ka **tabaliw**

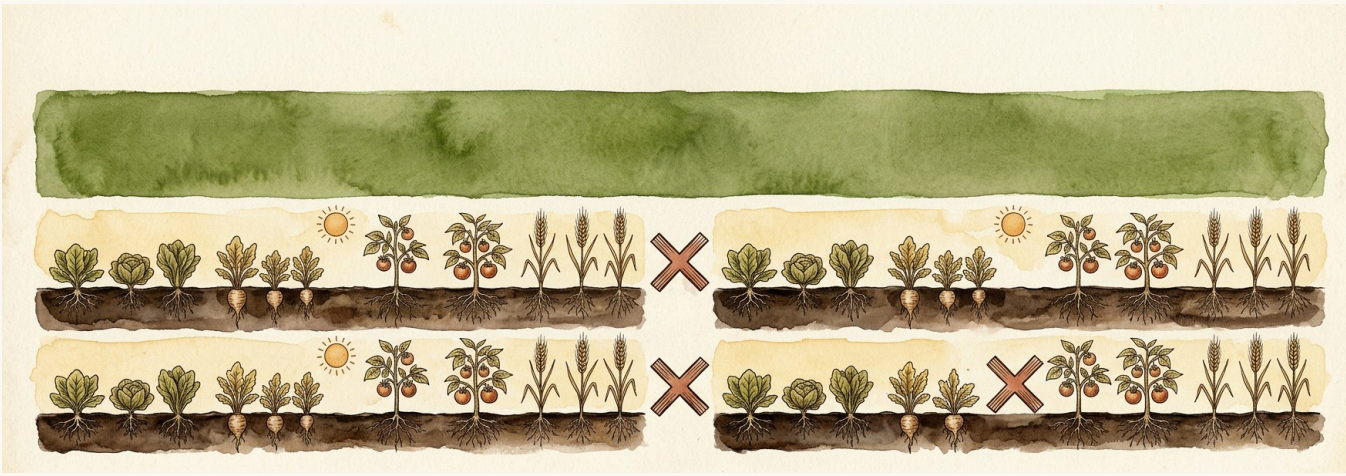
- O bɛ **jiɲɛ-sɛbɛnni** nɔgɔyalenw ni **jiɲɛ-sɛbɛnni** janyalenw jira.
- O bɛ se ka **jiɲɛ-sɛbɛnni** labɛnni nɔgɔya ka bɔ **jiɲɛ-sɛbɛnni** min bɛ yɔrɔ la sisan.

1. **Jiɲɛ-sɛbɛnni** ka **karta-kɛnɛw**

- O bɛ **komposi** ka **hɛrɛ** jira, **jiɲɛ-sɛbɛnni** ka **wagati**, ani **jiɲɛ-sɛbɛnni** ka **banaw**.
- O bɛ dɛmɛ ka latigɛ **jiɲɛ-sɛbɛnni** min bɛ se ka kɛ **wagati**, **dugukolo** ani **sɔgɔsɔgɔ** kɔfɛ.

1. **Jiɲɛ-sɛbɛnni** ka **tabali-kalasi**

- O bɛ **jiɲɛ-sɛbɛnni** kalasi ka **jiɲɛ-sɛbɛnni** ka **denbaya** ani **jiɲɛ-sɛbɛnni** ka **jɔyɔrɔ**.
- O bɛ dɛmɛ ka **jiɲɛ-sɛbɛnni** jɔnya ka **jiɲɛ-sɛbɛnni** minnu bɛ **yɔrɔ** la **kɔnɔnɔ** wala **jiɲɛ-sɛbɛnni** minnu ka **jɔyɔrɔ** bɛ **dugukolo** ka **yɔrɔ** kelen-kelenw la.



Nafolo-ɲɔgɔnye misali

FƆLƆFƆLƆ-ŊƆGƆNYE MINNU KA KƐ TƐMƐN



BAJININ NI FITININW

DUGUKOLO JUGU Virus Bakteri Fɛn caman dɔnni kɔfɛ, dugukolo bɛ sa walima bajininw ni fitininw bɛ bɔ. Nin ye kojuguw ye minnu ka kan ka bali.

1



1

maladi kɛrɛnkɛrɛnnen: **choux** ka **hernies**

ɲama kɛrɛnkɛrɛnnen: **oignon** ka **mouche**

Misaliw minnu ka kan ka bali 2

- u fila bɛɛ ye **Solanacées** ye
- u fila bɛɛ ye **Cucurbitaceae** ye

1. **Monoculture**

Jardinɛri ka jikinɛ kelen kelen de laɲini yɔrɔ kelen kan tuma caman. O bɛ dugukolo gɛn kɛrɛnkɛrɛnnenya la ani o bɛ jikinɛ ka maladiw dɔn.

1. **Jikinɛw ka wulicogo minnu bɛ kɛ botaniki denbaya kelen kɔnɔ**

Aw ye a dɔn ko jikinɛw bɛ se ka kɛɲɛ ni u ye denbaya kelen de laɲini. O bɛ se ka kɛɲɛ ni u ye denbaya kelen de laɲini. O bɛ se ka kɛɲɛ ni u ye denbaya kelen de laɲini.



Misaliw minnu ka kan ka bali

1. Jiriw labɛn-labɛn minnu jijiw bɛ kelen ye

Jiji-kulu kelen bɛ dugukolo dɔgɔya yɔrɔ kelen na, wa a ka dɔgɔ ka kɛ a ka nɔgɔn ka kɛɲɛ ni furaɲɔgɔnw ye.

1. Fɛnɲɛnɛba fila labɛn-labɛn

Fɛnɲɛnɛba fila labɛn-labɛn minnu bɛ fɛnɲɛnɛba caman ɲini, ni dɛsɛ tɛ walima ni furaɲɔgɔn tɛ, o bɛ dugukolo banba kosɛbɛ. U fila bɛ compost, ji, ni dɛmɛ caman ɲini.



Nafolo-jɛgɛnw ka laban-laban misali

Nafolo-jɛgɛnw ka laban-laban minnu ka di



Fɛɛrɛɲɔgɔnya ɲuman bɛ dugukolo lakana ka ban nafɛnɲɛnajɛya la, ka bana kɛlɛ, ka nafolo kɛcogo ɲɛ: ji, komposti,

baara. Aw ye sinsinw ye ni cogoyaw ye minnu bɛ se ka kɛ.

1



1

Solanacées Misaliw minnu ka kan ka kɛ 2 Fabacées jiji fitininw, duguma Solanacées Astéracées Liliacées Apiacées jiji fitininw jiji belebeleba tubɛrɛ

1. Botanique denbaya yɛlɛma: denbayaw yɛlɛmali bɛ baara kɛ ka bana ni fiyɛn kɛlɛnw ka cikanw tiɲɛ.
2. Jiji kɔnɔko yɛlɛma: o bɛ baara kɛ ka duguma kɔnɔko yɔrɔw laɲini yɛlɛma ani ka a ka labɛnko nɔgɔya.

3



3

Gourmande 4 Longue 5 Fixateur d’azote Modéré Courte Gourmande

- Awaɲiɲɛnin, azote-fixateur
- Jiriwɛrɛ wala ka kɔrɔta
- Wagati jan

1. Ka **kɔrɔtaw** ni **awaɲiɲɛninw** labɛn ɲɔgɔn fɛ: o bɛ dugukolo bali ka ban, wa a bɛ compost ni ji cogoya labɛn.
2. Ka **kɔrɔta gɛlɛn** don **kɔrɔta jan** fila cɛ: o bɛ se ka wagati ni yɔrɔ bonya, k’a sɔrɔ a bɛ dugukolo “lafiyali dɔ” di.
3. Ka **azote-fixateur** don: Fabacées bɛ dugukolo fa ni azote, min ka fisa kɔrɔta tɔw ye.

23

Nàfà-yɔrɔw ka cɛn-cɛn-kɛli misali



Nàfà-yɔrɔw ka cɛn-cɛn-kɛli misali

KUNJAA KƐRƐNƐN WƆLƆW NI NAFATIGIYAW

1



1

2 Possible sur 2 cycles consécutifs, surtout en intercalant un apport

- de compost ou une pause courte.
- bon couvert de sol,

faible demande

- faible demande, bon couvert du sol

Certaines cultures échappent partiellement aux règles générales d'alternance. Voici deux types de cas à connaître :

1. Cultures à faible impact (tolérance à la répétition) : certaines plantes à cycle très court, peu exigeantes et peu sensibles aux maladies, peuvent être cultivées deux fois de suite sans grand risque, si le sol reste fertile et sain.
2. Cultures tampon ou de transition : certaines plantes sont considérées comme neutres, car elles :

- ont peu d'exigences,
- sont peu sensibles aux maladies,

n'appartiennent pas à des familles problématiques.

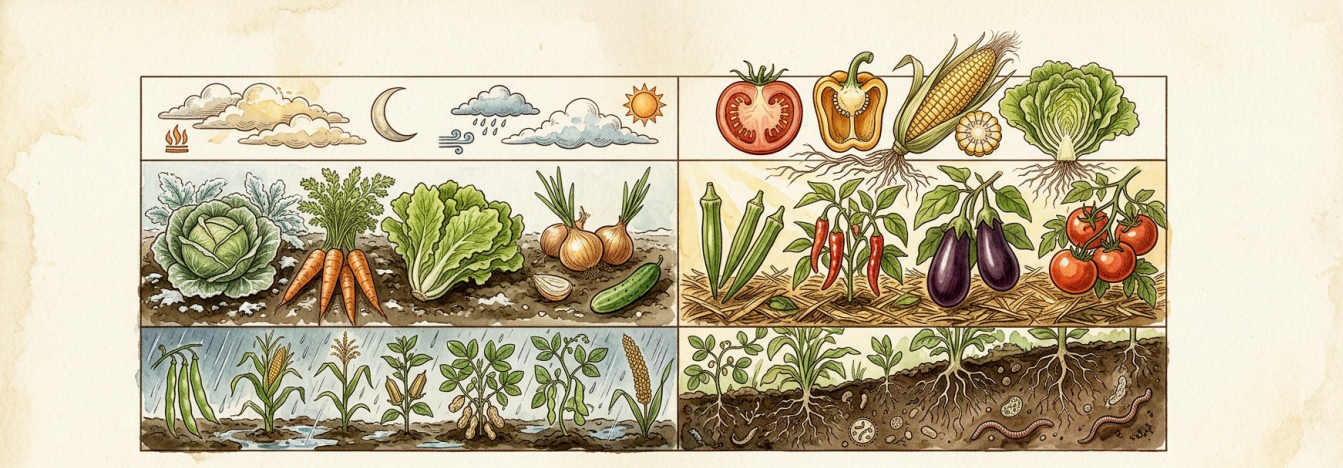
Elles peuvent être utilisées comme culture de transition entre deux cultures plus exigeantes ou risquées.



Fɛɛrɛ wɛrɛ

FƐƐRƐ MIN BƐ KƐ SAN KƆNƆNƆN

Fɛɛrɛ wɛrɛ min bɛ baara kɛ ni fɛn caman dilen ye, o ye ka dumuni-fɛnba dɔ dɔn san kelen-kelen bɛɛ la. I bɛ...



Fɛɛrɛ wɛrɛ min bɛ baara kɛ ni fɛn caman dilen ye, o ye ka dumuni-fɛnba dɔ dɔn san kelen-kelen bɛɛ la. I bɛ dumuni-fɛn dɔ sugandi min bɛ se ka

lamini nafa, o kɔ ka a Dabɔ san wɛrɛ la.

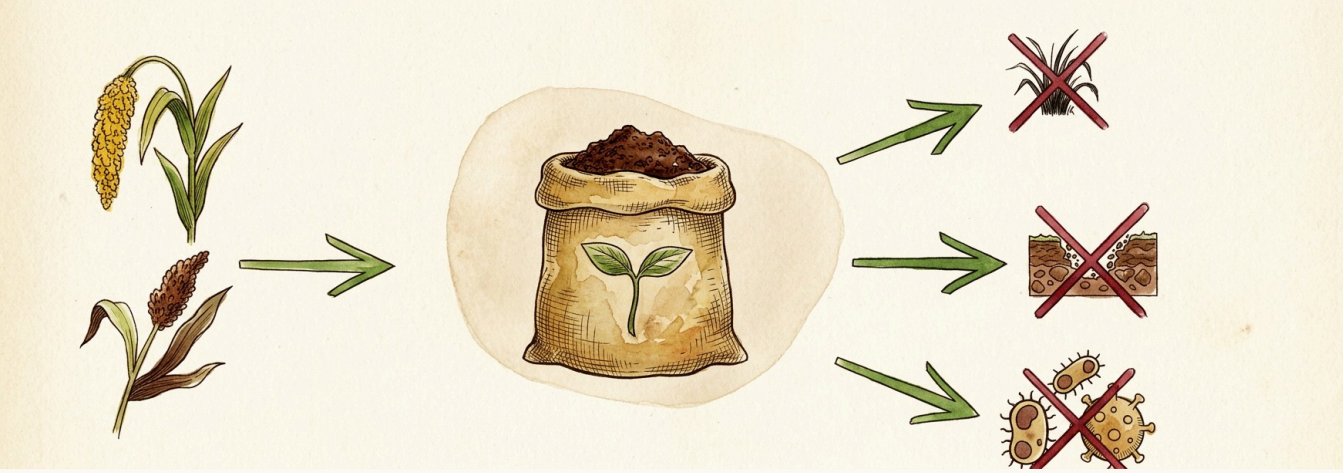
Nafoŋaw :

- A bɛ se ka kɛ ni lamini nafa ye
- Bana dɔgɔya (sanw ka yɛlɛmɛn sababu la)
- Fɛn dilen ka nɔgɔya
- Hali ni fɛn dɔw ma teli ka kɛ ni fɛn caman ye, san yɛlɛmɛn bɛ se ka bana kɛlɛ. I hakili la, ka jɔli-fɛn jukɔrɔnba dɔ don walima ka a jɔli-fɛn dɔ don san 2-3 bɛɛ la.



Fɛɛrɛw ni dugukɔnɔna nɛnɛya: nɛnɛya nafama dɔw

Fɛɛrɛw ni dugukɔnɔna nɛnɛya: nɛnɛya nafama dɔw



Fɛnɲɛnɛnɛw

Fɛnɲɛnɛnɛw bɔra jiridenw na minnu bɛ sɔrɔ ka fɛnɲɛnɛnɛ kɛ, i n'a fɔ **ɲɔ** walima **ɲɔgɔ**. Ni **dɔgɔkunw** bɛ yen,

olugu ka bon kosɛbɛ ka dugukolo taamasiyɛn ni nafa kɛ. Fɛnɲɛnɛnɛw ka nafa sabu fɛn wɛrɛw fɛ:

- O bɛ mara ka bɔ dugukolo gbɛlɛya la, o bɛ dugukolo labɛn, o bɛ fɛnɲɛnɛnɛw di.
- O bɛ bana kɛlɛli kɛ.
- O bɛ se ka jiriɲɛnw gbɛlɛn, o bɛ se ka jiriɲɛnw denmisɛnw bonya, kɛrɛnkɛrɛnnenya la ni **kompost** min bɛ don, o ma nɔgɔn kosɛbɛ.



Dusukɔnɔna

Ni an b'a fɔ ko dusukɔnɔna baara la:

Jiriw ma yɛlɛn, nka dugukolo dabɔra ni bin ye kalo 1-2 kɔnɔ.

O b'a to dugukolo ka labɛn yɛrɛ yɛrɛ la, ka bana kɛlɛli dabila.

O b'a to dugukolo ka bonya ni bin ye.

Aw ye se ka bin dabɔ ni plastiki ye (i n'a fɔ bâche) walasa ka bin ka wuliya ka teliya, ka dugukolo ka jikɔnɔna mara, ani ka jiri juguw bali.

Bâche finman bɛ dugukolo jɛnsɛn, nka bâche jɛman bɛ dugukolo ka jɛnsɛn mara.

Fɛɛrɛw ni jiriw



Fɛɛrɛw ni jiriw

U ka don waati juman na?

- Baara fila minnu ka gɛlɛn cɛ, Waati gɛlɛn na (sanba kɛmɛya walima nɛnɛba), Baara ɲɔgɔnna 2 walima 3 kɔfɛ.

Demisenw ka waati

Fàgàlali (Rotation) ka Kɛɲɛ



Fàgàlali (Rotation) ka Kɛɲɛ

Fàgàlali (rotation) kɛɲɛ ka sigi sinsin **ɲɛfɔli saba (3)** kan minnu ka nɔgɔn:

1. **Jiriw ka denbaya (famille botanique) yɛlɛman**
2. **Jiriw ka jɔli (type de racine) yɛlɛman**
3. **Dugu ka fɛnɲɛnama (besoins du sol) kɛɲɛya**

I ka **ɲɛfɔli (stratégie)** ka kɛɲɛ **san (saison)**, **jiriw ka wagati (durée des cultures)**, ani **dugu ka sigida (état du sol)** la. I ka miiri ka **fɛnɲɛnama (engrais verts)** walima **dugu ka lafiɲɛ (repos paillé)** don ni a ka se ka kɛ, walasa ka **dugu (terre)** labɛn ka kɛɲɛ.