

# KUBONA



**Byanditswe binyuze muri The Northern Rhode Island Conservation District 's Providence County Urban Growers Leadership Program, bafadikanije na Michael Bradlee bo muri The Compost Depot.**



[nricd.org](http://nricd.org)



[earthapplianceorganics.com](http://earthapplianceorganics.com)

# Ibirimo

**Gukora ifumbire be n'inyungu zabyo**

3

**Amazi, Udutoboro, urugero  
rw'ifumbire**

5

**Kuringaniza ifumbire, ibishyingwe  
biboze, ibishyingwe bigisa n'icyatsi  
kibisi**

6

**Gutegura aho gukorera  
ifumbire**

8

**Kurikurikirana neza Ibyo gukora,  
Udusimba, nukugene bakoresha  
ifumbire**

9



## **Ikorwa ry'ifumbire ni ukubora kw'ibintu kama bikurikiranywe n'umuntu nabyo bikaba ari nk'amababi, ibishyingwe ibisigazwa by'ibiribwa hifashijwe umwuka mwiza,bo n' udusimba duto cyane.. Za mikorobe ziravunagura ibintu kama bikaba ibyunyuyu be n'uburyohe”**

- Ikintu cyose mugihe kibaho kirabora kubera udususimba duto cyane hanyuma kigasubira mu butaka
- Gukora ifumbire biba mu buryo bumwe kungero zose, haba mu dukari duto cyangwa ahandi hantu hagari.
- Ibikoresho byose birashobora kuboneka ino kandi ntabwo bihenze ntabwo bizimvye.

## **Inyungu zogukora ifumbire**

- Gukomeza gutajugunya ibisigazwa by'ibiribwa iyo bajugunya imyanda
  - Ibisigazwa by'ibiribwa bifata 1/3 cy'ikibanza bajugunyamo imyanda
  - Iyo ibiribwa bijugunywe mu myanda, biborera ahatagira impwemu nziza bigatuma hazamuka umwuka uhumura nabi bita metane n'iyindi, cane cane muri green house umurima wo mwi ihema. Ahatagira impwemu nziza bivuga aho bashyira umwanda ata mpwemu nziza zirimo bigatuma hahumura nabi
  - Rhode Island ifite ikibanza kimwe batamo imyanda, hagiye kwuzura, gushyika mu mwaka wa 2040 kazaba huzuye.
  - Kwitaho aho bata imyanda bizaba bihenze rero kudashyira ibisigazwa by'ibiribwa bizafasha kwongera igihe co kutuzura kwa'aho hantu.
- Kurwanya isuri bo no kugabanya imyuzure
  - Ifumbire rishobora kugumya incuro 1.5 y'ibiro by'amazi.
- Gukingira ibihingwa ingwara
  - Ubutaka bumeze neza butuma ibihingwa bikomera kandi ifumbire ryongereza uburyohe bw'ubutaka.
- Rituma ibihingwa bikura kandi bigatanga umusaruro mwiza.
  - Ifumbire rifita byankenerwa kandi rigatuma ubutaka bugira imibereho myiza.
- Ryubaka aho mikorobe nziza zitura
  - Ryubaka ahantu heza za mikorobe nziza bo nu udusimba tutagira amagufa bitura
  - Abantu bitaho bakongera bagakora ifumbire bituma bagira umuryango hagati yabo

Kubora kw'ibintu kama birikora byonyine ariko kwitaho no gutunganya ifumbire bituma ifumbire riboneka byihuse. Gucagagura ibintu kama mu utuvunji duto cyane bishoboka kubera udusimba duto cyane.

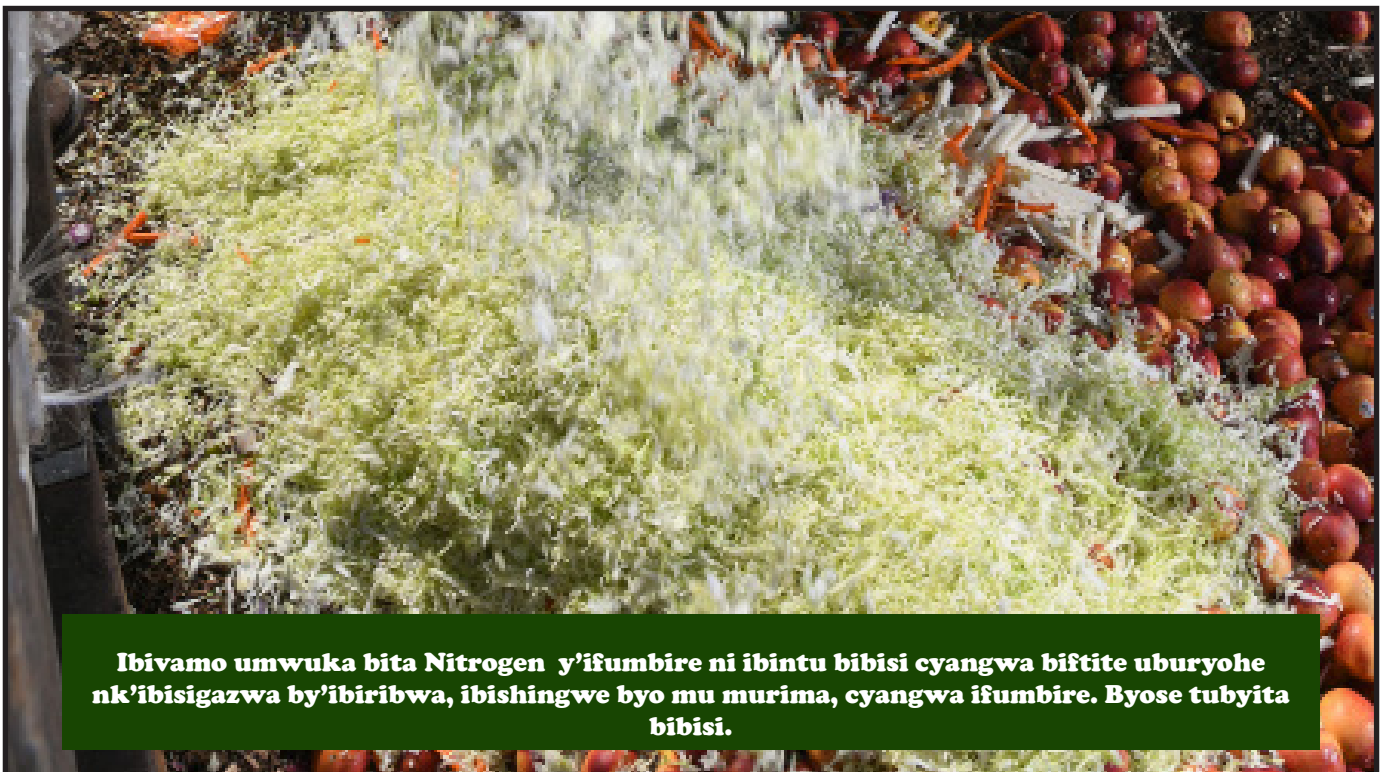
Uko bakora ifumbire muri rusangi ni uku:

**Ibyo bita Carbon + umwuka Nitrogen + umwuka Oxygen + Amazi = ahantu heza cyane udusimba twiza dutura kugira ducagagure ibintu hakabwo-**

Ifumbire rikorwa iyo ibyo bita carbone bigiye hamwe na udusimba duto cyane ahantu hari umwuka mwiza oxygen. Ni ikintu gikorwa ahantu hari impwemu bivugako ko twa dusimba duto cyane aho turi duhemuka umwuka mwiza bita oxygene.



**Ahaturuka carbone ni ahantu humye, ibintu bisa nk'umwijima nabyo bikaba ari amababi, ibishingwe by'ibiti cyangwa ibyatsi by'imikenke, Byose tubyita ibisa n'umwijima.**



**Ivivamo umwuka bita Nitrogen y'ifumbire ni ibintu bibisi cyangwa bitite uburyohe nk'ibisigazwa by'ibiribwa, ibishingwe byo mu murima, cyangwa ifumbire. Byose tubyita bibisi.**

**Na za mikorobe ziba zikeneye amazi kugira zishobore kugenda genda no kuvunagura gucagagura ibintu kama. Kugira upime ko ifumbire ribobereye ushobora kurikanyura muminwe mukiganza.**



**Fata iminwe ikiganza wuzuze ifumbire hanyuma urikande urikanyure.**

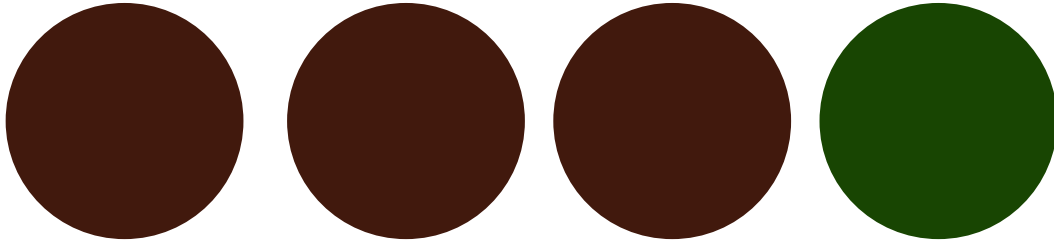
- Iyo ryumye cyane = rihita avunguka wuguruye ikiganza
- Iyo ritose cyane = hari ibitonyanga by'amazi bivamo urikanze mukiganza
- Iyo rimeze uko bikwiye = iyo urikanze mukiganza rihita rifatana nta bitonyanga by'amazi bivamo

Udutoboro, rimwe narimwe tuba dushyatse kuvuga ukuntu ikintu cyegeranye gikomeye, nacyo ni ikintu cy'ingenzi ufatiye ku kirundo cy'ifumbire. Ikirundo cyiza cy'ifumbire bivuga ko hari udutoboro utwanya hagati y'ibigize ifumbire kugira amazi, umwuka ndetse n'imizi ishobore kunyuramo.

- Rifatanye cyane -->ritose cyane, ribora ntamwuka mwiza uyuzemo
- Rifunguye cyane-->ryumye cyane, ritinda kubora kandi ntiribore neza.



# Ipimo vy'ibikora ifumbire:



## Ibipimo 3 by'ibisa n'umwijima, igipimo 1 by'ibibisi

Urugero akaroero: indobo 3 z'amababi bivangwa hamwe n'indobo imwe y'ibisigazwa by'ibiribwa mu gutangira gukora ifumbire mu gikono. Abantu barashobora guhindura ibyo bipimo bivanye nuko babona byagenda neza, nk'urugero, abantu bashobora kwongeramo amababi yumye menshi mu gikono bari kurikorera.

Ubunini cyangwa ubuto bw'ibigize ikirundo cy'ifumbire bigira ingaruka k'ukuntu ribora.

**Iyo uduce turigize ari duto rirabora ryihuse.**



Ubutandukanire bwukugene ibishingwe bireha bituma hanyuramo impwemu kandi n'ahantu heza zamirakorobe



**Mikorobe zikunda ahan-tu hashyushye bivugako zikora neza iyo ziri ahan-tu hashyushye zikanatuma hanashyuha iyo zirimo zirakora akazi kazo.**



# Ibyiciro byo gukoreramo ifumbire



- ▮ **Icyiciro ca 1 ni icya 2 ( Icyiciro cya Mesophilic na Thermophilic): ibyumweru 6 gushika kuri 8**



Ifumbire iba ishyushye: Za mikorobe zikora akazi ko gutuma ibintu bibora, Ziravunagura utuntu dutoduto tugize ifumbire. Zitangura kuvunagura utuntu dusanzwe – ibirimo amido be ni isukari mugihe cya mesophilic hanyuma inyama n'ibinure igihe cyathermophilic nukuvuga hashyushye.

- ▮ **Icyiciro cya 3 (icyiciro cyo kuvanamo ): amezi 2 kugera kuri 12**



Ifumbire ntiriba rigishyushye. Ibyo bita Funji nibyo bikora akazi kani. Bivunagura ibice bininibinini n'ibindi bigumye bikomeye nka ibyo bita cellulose bigizwe n'ibishishwa by'ibiti be na n'ibyo bita lignine bigizwe n'ibice by'ibiti. Ibyo bita macroorganism nabyo bikaba ari nka inyo n'utundi dukoko udusimba twinjira mukirundo cy'ifumbire tugafasha ifumbire kubora.

**Gukora ifumbire mu mugiri birashoboka ahariho hose hari ikibanza gikeiye harimo: Mu bikari, mumirima y'abatwaga, mu binza by'amashuri, muri za parike no mu bibanza hari ibyatsi!**

# Uko bakora aho bakorera ifumbire:

## ▣ **Ibikono byo gutamo imyanda**

Intoboro be n'imiyoboro baciye kugikono cy'imyanda kugira hanyuremo umwuka utuma ibintu bibora. Ibiziga/imitambo kugira umuntu ashobore kuzunguruza ata kibazo. Ibindi bikono bishyobora gushyirwaho iyo ukeneye uwundi mwanya ikindi kibanza

## **Ubuhanga bw'ibikono bitatu**

Ubwo buhanga bushira mu kibanza kimwe aho kubika amababi, ifumbire ririko rirakorwa bo naho barishize ngo rihore

Bishobora gukoresha ma paleti nka DIY

## **Ibikono bya parastike mubutaka**

Bishobora kugurwa muri Rhode Island Resource Recovery Corporation. Birasanzwe, ntibiremereye, nta n'ibindi bikoresho bikenewe mukuzubaka. Birashobora gukingirwa ubukonje hakoreshejwe imifuka irimwo amababi kugira ifumbire ikomeze ikorwa no mugihe cy'ubukonje winter.

## **Ubundi buryo:**

Gukomeza urunda- kongeraho ibikoresho igihe biba bibonetse.

Ibindi bisanzwe mugukorera ifumbire mugikari.

Bifata akanya kanini kandi ntibishuha.



▣ **Ibikono byo gutamo imyanda**



**Ubuhanga bw'ibikono bitatu**



**Ibikono bya parastike mubutaka**



## **Ibintu vyiza kurutonde rw'ibikora ifumbire**

*Gukora ifumbire ni nkoguteka rero bisaba ibyo gushyiramo ku urugero rukwiye kugira bigende neza. Gukora ifumbire kandi bisaba igihe nyacyo kandi no kuvanganya neza ibyakoreshejwe byose n'ibyiciro byose byo "guteka" kugira bigende neza. Ukugene ifumbire ikorwa ntabwo bituma bihumura canke ngo bikurure ibisinmba nk'imbeba.*

### **Ibintu bibi bishobora kwangiriza bidashobora kuba mu-bikora ifumbire harimo:**

- Parastike, ibiyo, ibyuma
- imifuka, amacupa, n'ibindi bishobora kugibwamo ibintu
- amatopito, intsinga, n'utundi dupapuro bahomeka kumboga ( bisabwa kudukurako)
- Amabyi y'imbwa, ibyo injangwe ziryamaho bikenere ikoreshewa ridasanze
- Birashobora gukorehwa muguhora ifumbire ( ariko ahatari mu gikari).



### **Igihe cya Fall iyo hatangiye gukanya nicyo gihe cyiza cyogukora ifumbire:**

Igihe cya fall, bika amababi yavuye kubiti yumye mu mifuka mu gikari, uyabike muni y'ihema kugira bigume byumye. Igihe hatanguye gukonja (autumn) n'iyi hakonje cyane nyene (winter) nicyo gihe cyiza cyo gutegura no kubaka no gukora ifumbire.

Shyira ifumbire kubutaka, imirima, muni y'ibiti binini na bitobito, aha-hinzwe ibintu mu dukono, cyangwe unaheko umuturanyi!



# Gusuzuma aho ukorera ifumbire

Ifumbire rishya rimeze neza ( icyumweru cyambere):	irahumura bucyeye ubwa mbere, ariko ntihumera nk'amagi aboze. Ibwirizwa guhumura bucyeye. Habamo utuntu dusa numweru. Iba ishyushye.
Ifumbire rikorewe ahatagira umwuka (ni bibi):	rihumura nabi cyane nka amagi aboze
Ikibazo cy'ububobere (hatose cyane)	Hanuka nk'ifira. Bishoboka ka haba harimo amazi aturuka musu, Ibintu bisanumweru biboneka nkakurya kw'ibihumyo.
Ikibazo cy'ububobere (ububobere bucyeye cyane):	Dry and flaky, things aren't breaking down. Not hot.
"Ifumbire rigeze" ( ifumbire rigeze gukuramo kandi rishobora kujyanwa gukoreshwa nk'ubutaka)	Ibisigazwa ibivunji by'ibiryo ntibikibonekamo, uduce duto cyane, rihunura neza nk'ubutaka cyangwa nkuko ari mu ishyamba. 50-50% y'ububobere (ufashe ikiganza cyuzuye ugakanda rirafatana ariko ntamazi avamo)

## Uburyo bwiza bwo kwitaho gutunganya ifumbire kugira ridakurura ibisimba:

- **Ikibanza hagati y'ibikono cyangwa ibirundo**
- **Gukorera ifumbire ku ubutaka bugumye**
- **Gushyira munsu y'igikono ukoreramo ifumbire akayugiro gakoze mu byuma**
- **Kumenya ibyo ukoresha**
- **Ntakugumiza aho wahize ibiryo hadafundikiye.**



## Gukoresha ifumbire

Iyo ufite ubutaka bwiza umaze guhingaho	shyiraho ifumbire hejuru hejuru urwego ruto cyangwa umijire ho. Inyo, imvura be na imizi yibihingwa izarishyikana imbere mu butaka.
Ni ba ubutaka butari bwiza	Shiraho ifumbire kurwego runini, vanganya n'ubutaka kugera kuri inchs 6 kugera ku 9.
Niba urikuvanga n'ubutaka	Ongera 20-30% y'ifumbire mu ifumbire yo mudukono



### **Amategeko n'amabwiriza mu gukora ifumbire muri RI**

Amategeko yo gukorera ifumbire mu murima aratandukanye kandi aroroshe gusumba ayo ahatari mu murima. Ahantu hato (kari musu ya yaridi cube 25) ntabwo akenera uruhusha, ariko abwirizwa gukurikiza uko asanzawe akorwa. Ikirundo cyo mu gikari ntigizaba kuba ufite uruhushya cyangwe akorwe nk'uko andi y'hanandi akorewe mu bibanza bito.