

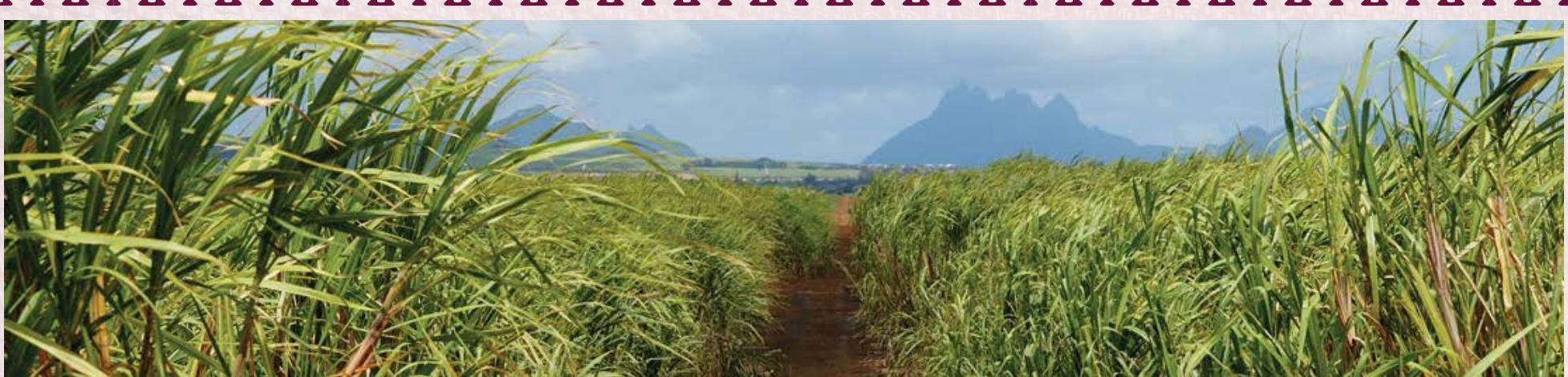


INGEDE

January 2019, Volume 22, Number 1

Isifo uBhasha (RSD)

Ibhawwe ngu: Sharon McFarlane



Osonkontileka babamba iqhaza elikhulu ekunqandeni ukubhebhetheka kwesifo uBhasha (RSD) usuka kwenye insimu uya kwenye kanye nakwipulazi uya kwelinje. Esikhathini esiningi isifo uBhasha sibhebhethekiswa ocelemba abagawule umoba onesifo, yingakho kubalulekile ukuthi ocelemba bacwiliswe emanzini anoshiboshi ngaphambi kokuthi basetshenziswe, ngesikhathi besetshenziswa noma usuyobasebenzisa kwenye insimu noma ipulazi.

Kungani kubalulekile ukwazi ngesifo uBhasha?



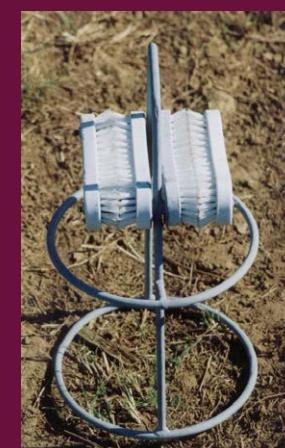
Isifo uBhasha utholakala kuzo zonke izindawo ezitshale umoba eNingizimu Afrika. Isivuno singehla ngamaphesenti ayishumi kuya kwangamashumi amahlanu (10-50%), lokhu kuncike esimweni umoba okhula kuso kanye nohlobo olutshaliwe. Ukulahlekwa kwasivuno kuba phezulu kakhulu uma lomisile. Imvamisa lesi sifo asibonakali ngoba asinazo izimpawu ezibonakala kalula futhi singabhebhetheka ngembewu enaso umlimi engaboni nokuthi sikhona.

Ugwema kanjani ukuthi isifo uBhasha ube yinkinga epulazini?

- Isifo uBhasha sibhebhethekiswa ukutshala imbewu enaso, ngakho-ke kubalulekile ukuthi umlimi uma etshala aqikalele ukuthi usebenzisa imbewu egunyaziwe noma eqinisekisiwe ukuthi ayinaso isifo. Ngaphambi kokuba ufune imbewu ozoyitshala xhumana nabeZifo neziNambuzane ukuze bakunike uhla lwabantu abadayisa imbewu egunyaziwe noma eqinisekisiwe. Kumele ucele umeluleki akunike yonke imininingwane ngalembewu ozoyithenga okubalwa kuyo lapho kwathathwa khona lembewu etshalwe enkulisa yomkhiqizi-mbewu kanye nayo yonke imiphumela yezifo nezinambuzane.
- Qaphela isifo uBhasha asinazo izimpawu ezibonakala kalula ngamehlo ngakho ke amasampula ezingoqo kumele athunyelwe esiKhungweni soCwaningo ngoMoba ukuze kuqinisekiswe ukuthi asikho lesi sifo.
- Qikelela ukuthi ocelemba abasetshenziswa abahlahlili basusiwe amagciwane kusetshenziswa ushiboshi ngaphambi kokuthi baqale ukubasebenzisa epulazini lakho. Beka ibhakede elinanamzi axutshwe noshiboshi ngaphambi kokuthi abahlahlili baqale ukuhlaha ensimini. Ocelemba kumele bacwiliswe kushiboshi okungenani imizuzu emihlanu ukuze kufe wonke amagciwane ngaphambi kokuthi bangene ensimini bahlahle.
- Isifo uBhasha singabhebhetheka sisuka kumavolontiya analesifo athelele umoba wakho ongenasifo uma kuhlahla. Ngaphambi kokutshala kabusha, kuwubuhlakani ukutshala esinye isitshalo esingakhuli njengomoba (isib. ubhontshisi) ukuze amavolontiya abonakale kahle asuswe. Lokhu futhi kuzophumuza insimu kubuyisele imisoco bese kusiza ekutheni umoba wakho ozowutshala ukhula kahle.

Qaphela uma ucwilisa ocelemba:

- Ushiboshi oyi-100mL emanzini angama-900mL okwamanje yiwona onconywayo ukubulala amagciwane kocelemba.
- Ocelemba kumele bacwiliswe emanzini axutshwe noshiboshi okungenani imizuzu emihlanu, uma uwufaka ucelemba uwukhiphe ngokushesha angeke uwabulale amagciwane.
- Kumele ususe izinsalela zomhlabathi nezesitshalo kucelemba ngaphambi kokuthi uwucwilise, ithuluzi lokukhculula ocelemba lingasiza kulokhu.
- Amanzi axutshwe noshiboshi kumele ashintshwe okungenani kanye ngeviki noma uma esengcole kakhulu.



Musa ukuqagela hlola:
sebenzisa u-FAS ukuze uthole izincomo eziyizo



Amaloli emasimini:
kumele amahlumela avikelwe, amaloli angayibulala insimu fuze angangeni kuyo.



Amaphephabhuku abalimi:
zitholele amaphephabhuku azokusiza ekuphatheni kahle ibhizinisi lakho lomoba.

Yini equkethwe umbiko wokuhlolwa komhlabathi ovela kwa-FAS

Ibhawo ngu: Louis Titshall kanye noSandile Mthimkhulu



UMnyango weSikhungo soCwaningo ngoMoba obhekelele ukukhipha izincomo zamanyolo (FAS) uqhubeka njalo uthuthukisa indlela ocwaninga ngayo umhlabathi, amanzi, umanyolo namaqabunga ukuze abalimi bathole imiphumela nezincomo ezithembekile neziyizo ngezitshalo zabo. Ekuzithuthukiseni kwakamumva sebehlolela nomsoco obizwa ngesibabule (sulphur) emhlabathini baphinde bakhiphe izincomo ngezinye izitshalo ezingewona umoba uma umlimi ecelile. Kubalulekile ukuthi amakhasimende asebenzisa u-FAS aqonde ukuthi ukuthatha amasampula ngendlela eyiyo ngesikhathi kuyadingeka ukuze bathole izincomo zobungako nohlobo lukamanyolo, lokhu kuzolekelela ekutholeni isivuno esihle.

Lapha sichaza ngamafuphi izincomo ezibuya kwa-FAS uma uthumele amasampula omhlabathi wangaphezulu ukuthi ayohlolwa.

1

Ibhokisi lokuqala:

Lapha kufakwa imininingwane yomlimi kanye neyokuxhumana naye uma elethe isampula lomhlabathi. Kumele uqikeyele ukuthi uyigcwalisa ngendlela imininingwane ebhokisini nasefomini ngaphambi kokuletha isampula ukuze libonakale kalula.

2

Ibhokisi lesibili:

Le yimininingwane obuyibhalile mayelana nesitshalo ozosikhuthaza noma ozositsihala. Qikelela ukuthi izilinganiso zesivuno osilindele ziyizo ngoba zinomthelela ezincomeni zemisoco ozodingwa isitshalo.

Kuyaye kubuzwe ukuthi; uke watshala izitshalo ezibuyisela imisoco emhlabathini, uyawushisa umoba noma uwuvuna ungashiswanga? Konke lokhu kuyasetshenziswa ukubuyekeza izincomo zikamanyolo wamaqabunga (Nitrogen) nowesi (Potassium).

3

Ibhokisi lesithathu:

Lapha kukhonjiswa inani lemisoco etholakele esampuleni. Wonke lamanani assetshenziselwa ukubala izincomo zikamanyolo kanye nokalika.

4

Ibhokisi lesine:

Lapha kukhonjiswa inani eliwumkhawulo elitshengisa ukuthi lowomsoco uyadinge ka noma cha noma kungenzeka kube kunenkinga. Kuba nokuphawula kafushane uma inani likhombise ukuthi kunenkinga ethile noma ingekho.

5

Ibhokisi lesihlanu:

Lamawashi akhombisa ubungako bemisoco (Phosphorus & Potassium) kanye nobumuncu

6

Ibhokisi lesithupha:

Lokhu kutolika izinombolo ezibhalwe ngokubomvu ezitholakala ebhokisini lesithathu nelesine ngaphezulu (ib. superscript⁴=inani lokugcina elivumelekile).

7

Ibhokisi lesikhombisa:

Lapha unikwa izincomo zomsoco wamaqabunga (N), owezimpande (P) kanye nowesi (K) nokalika uma udingeka nehheka kuphela. Lokhu kungasetshenziswa ukubala izidingo zikamanyolo ngokubambisana nomeluleki.

8

Ibhokisi lesishiyagalombili:

Lapha unikwa isibonelo sobungako bukamanyolo ongawufaka. Ngoba ziningi izinhlobo zikamanyolo ongazisebenzisa lesi isibonelo esikusizayo ukuze ukhethe umanyolo onemisoco efanele edingwa yisitshalo.

9

Ibhokisi lesishiyagalolunye:

Uma izincomo ezithile zingeke zifezeke noma kubonakale into engaba nobungozi, kubakhona ukuphawula ngokwezolimo ukusiza umlimi enze izinqumo.

Ukuze uthole imininingwane ethe xaxa ngokuthatha amasampula, ukuwahambisa ayohlolwa kanye nokufakwa kukamanyolo ngokwezincomo vakashela ikhasi lakwa-FAS ku- <https://sasri.org.za/fas-agricultural-laboratory/> noma uxoxisane nomeluleki oseduze nawe. **MUSA UKUQAGELA – HLOLA UMHLABATHI**



FERTILISER ADVISORY SERVICE - SOIL ANALYSIS REPORT

SA Sugarcane Research Institute

Tel: 031 508 7474 / 75

Fax: 031 508 7593

Email: fertiliser.advisory@sugar.org.za



Date Received : 24/08/2018

FAS Lab ID : GS 164920

Report Date : 08/09/2018

CLIENT DETAILS

Grower No.
FAS No. 10356
Sifiso Mazibuko
Moses Mabhida Stadium
44 Isaih Ntshangase Road
Durban

Email : sifiso.mazibuko@durban.gov.za
Extension Area: No Extension Officer

BILLING DETAILS

Order No:

CROP AND FIELD DETAILS

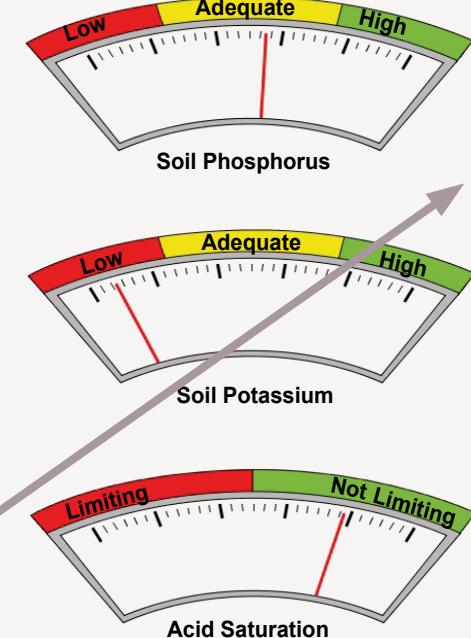
Sample ID or Field Number MMS
GPS Coordinates
Sample Depth 0 to 20 cm
Crop Plant Cycle
Variety UNKNOWN
Is Cane Trashed ? No
Is Cane Irrigated ? No
Green Manure Crop Type None
Green Manure Crop Yield N/A
Attainable Yield at Harvest 75 tons cane/ha

ADVISOR DETAILS

Analysis	Unit	Sample Value	Threshold	Result in kg/ha	Comment
pH (in calcium chloride)		4.38			
Phosphorus (P)	mg/L	17.7	12.4	95	Adequate
Potassium (K)	mg/L	42	125	84	Low
Calcium (Ca)	mg/L	205	300	410	Low
Magnesium (Mg)	mg/L	42	50	83	Low
Sodium (Na)	mg/L	15			
Exchangeable Acidity (Al+H)	cmol/L	0.15			
Total Cations ¹	cmol/L	1.69			
Acid Saturation	%	8.9	20.0 ⁴		Not limiting
Exchangeable Sodium % (ESP)	%	3.6	7.0		Not limiting
Ca/Mg (Equivalence ratio)		3.0			Not limiting
Zinc (Zn)	mg/L	11.3	1.5		Adequate
Copper (Cu)	mg/L	2.2	0.8		Adequate
Manganese (Mn)	mg/L	5.1	2.0		Adequate
Iron (Fe)	mg/L	244	3		Adequate
Silicon (Si)	mg/L	5	15		Low
Clay MIR	%	9			
Organic Matter MIR	%	1.9			
Nitrogen (N) Category ²	cat	1			
N Volatilization ³	%	2.3	10.0 ⁴		
Volume Weight	g/mL	1.24			
Reserve K	cmol/L	1.78	1.80		Low
Sulphur (S)	mg/L	9	15		Low

Note: Thresholds, Comments and Key Indicators are sample specific and based on the attainable yield indicated on the submission form.

KEY INDICATORS



Analysis Notes :

- Sum of potassium, calcium, magnesium, sodium and (Al+H). In non-saline soils this is a measure of the effective cation exchange capacity (ECEC).
- Rating of potential N release from the soil organic matter (1 = low, 4 = high). N recommendations are adjusted according to this rating.
- Potential N volatilization.
- Maximum permissible.

LIME AND NUTRIENT RECOMMENDATIONS

Crop	Lime t/ha	Type	N kg/ha	P kg/ha	K kg/ha
Plant	1.0	Dolomitic	110	20	155

POSSIBLE FERTILISER OPTIONS

Fertiliser	Furrow (kg/ha)	Topdress (kg/ha)
Plant 2-3-4 (30)	200	
+ 4-0-5(48)		450
or MAP(33)	100	
+ Urea		200
+ Pot.Chloride		300

N.B. The above fertiliser options are approximations based on commonly used products.

Agronomic Comments:

- The maximum K that should be applied in the planting furrow is 100 kg/ha. The remainder should be broadcast.
- Lime should be incorporated into the soil 3 to 6 weeks before planting.
- If lime is not incorporated into the soil, urea or urea-based blends should not be used.
- Contact your Extension Specialist regarding silicon requirements for soil.

Disclaimer: While every care has been taken in the preparation of the above advice, neither SA Sugarcane Research Institute nor its Consultants or Employees will be liable for any loss or damage, direct or indirect, which you or anyone else may suffer arising out of or in connection with the advice or any deficiencies in the advice.

FAS-SR-04 Rev01

Indlela ongagwema ukulimala komoba uma amaloli ejika:



Ibhale ngu: Peter Tweddle

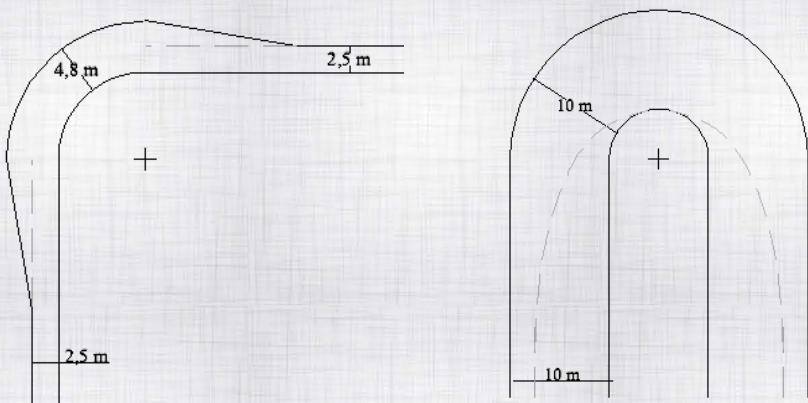


Ukucobelelana ngolwazi:-



Ngokujwayelekile kunconya ukuba amaloli angangeni ensimini uma kwensiwa umsebenzi wokulayisha. Isizathu salokhu yingoba amaloli awadalelwu ukuhamba ensimini kanti nokubambelela kwawo phansi kuye kungabi kuhle (ayashibili noma abhajwe). Uma eshibili noma ebhajwa alimaza insimu kanye nomoba. Ukujika kwamaloli akulula futhi kuncike kulokhu:-ububanzi balo, indlela okuxhunyaniswe ngayo izinqola, inani kanye nobukhulu besakhiwo sezinqola.

Isithombe nemidwebo engenzansi kukhombisa ukuthi kudingeka umgwaqo obanzi kangakanani ukuze iloli likwazi ukujika kalula:-



Ukukhipha umoba ensimini kudinga ugandaganda omncane ozodonsa inqola uwuyise ezonini noma ephayindini lapho amaloli azobe esewuthatha uye esigayweni.

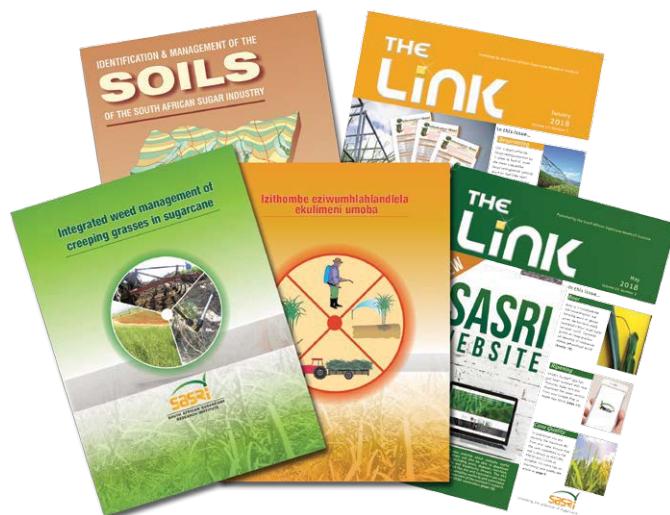


Lolu lwazi lugcizelela ukubaluleka kokuhelwa kahle kwezindlela zokukhipha umoba emasimini ngokwahlu ka. Lokhu kubalulekile nakubalimi abalima ngokuncane njengoba benamasimu nemigwaqo emincane. Imigwaqo ezohamba amaloli kuyomele igcwaliswe ngenkwali eqinile. Imidwebo/imigomo emayelana nohlelo lokusetshenziswa komhlaba (LUP), ukwehlela kwendawo kanye nemigwaqo epulazini kuyatholakala ebhukwini elibizwa nge-SUSFARMS. Uma uhlela ukwenza imigwaqo xhumana nabeluleki abaseduze nawe.

Amabhuku angathuthukisa ulwazi lwakho ngomoba



Ibhale ngu: Peta Campbell



Isikhungo soCwaningo ngoMoba siyacwaninga njalo njalo izindlela ezahluka hlukene abalimi abangazisebenza ukuthuthukisa nokugcina ibhizinisi lomoba lisimeme. Yonke imiphumela yocwaningo ibe isishicilelwu kumabhku ahlukahlukene ukuze Abeluleki nabalimi bakwazi ukuyithola bayisebenzise. Lamabhku uma ungumlimi otshale umoba uwathola mahhala ngoba enzelwe wena, abaluleki bomoba bangakwazi ukukutholela uma ungenawo, into okumele uyenze nje ukubathinta.

Kunebhukwana elisanda kushicilelwu elinamaqhinga/amasu ongawasebenza ukulawula utshani obenabayo. Leli bhukwana linezindlela ezahlukahlukene umlimi angazenza ezibala ukusebenza imithi, ukuhlakula nokunye.

Inhoso yezindlela ezingasebenzisi imithi ukunqanda ukubhebhethaka kwalobu tshani. Lezi zindlela kubalwa kuzo:

- Ukuhlakula ingudla (ingaphandle lensimu)
- Ukuhlakula izikhala ezinotshani phakathi emobeni
- Ukuhlakula ukhula olude ngaphambi kokufutha
- Ukuhlanza ogandaganda namathuluzi
- Ukusebenza imbewu yomoba ehlanzekile
- Ukuhuthaza ukumboza komoba
- Ukuhlanza ulayini womoba ozovimba ukungena kwemisebe yelanga ensimini

Inhoso yezindlela ezisebenza imithi ukuqikelela ukuthi abalimi basebenza izibulala-khula kahle

Qaphela: lezibulala-khula kumele zisetshenziswe ngokuchophelela ngoba:-

- I-Glyphosate iyalubulala ungewngwe KODWA IBULALA NOMOBA ngakho qikelela ukuthi uylandela ngendlela yonke imigomo ebalwe kwilebuli uma uzosebenza lesi sibulala-khula.
- I-Paraquat exutshwe ne-diuron noma ne-ametryn iyalulawula ungewngwe amaviki amathathu kuya kwamahlau KODWA IYINGOZI KAKHULU futhi IYAWUKHAHLAMEZA NOMA IWUBULALE UMOBA
- Ziyazwela ukungcola, kumele uqikeyele ukuthi USEBENZISA AMANZI AHLANZEKILE uma uzofutha

Ukuze isitshalo sethu sisilethele inzuko kumele sisinakekele sisivikele. Abeluleki abaseduze nawe bakhona ukuze usizakale ngolwazi bathinte uma kukhona okudingayo. Uma ufuna nanoma iliphi ibhukwana elikhqizwe isikhungo soCwaningo ngoMoba, thintana nomeluleki noma uziyele mathupha esikhungweni e-Mount Edgecombe.

SEBENZISA ULWAZI NJENGESIKHALI SOKUZHUTHUKISA

ABADIDIYELI

Nqobile Nxumalo, Sandile Mthimkhulu, Sifiso Hlela, Thulani Masondo, Patrick Ngcobo & Wayne Mthembu (Umhleli)

Ikhishwa kathathu ngonyaka; January, May nango-September

Imibono nemibozo: Nqobile Nxumalo: 031 508 7511 Email: Nqobile.nxumalo@sugar.org.za

Amalungelo okuqopho aqukethwe kulo mbhalo. Ayiko ingxene yalo msebenzi engaphinda yensiwe nanganoma iyiphi indlela ngaphandle kwemvume ebhaliwe yomshicileli. Vize yensiwe yonke imizamo yokuqinisekisa ubuqotho bolwazi olushicilelwu kulo msebenzi, isikhungo sezoCwaningo ngoMoba saseNgingizimu Afrika (SASRI) asizukuthathelwa zinyathelo ngokulahlekwa noma ukulimala okungehlakela umuntu ngenxa yokulandela ulwazi oluqukethwe lapha. Ukusethenziswa kwamagama nezikhangisi ezinobunikazi kulumshicilelo akungathathwa njengokuqinisekisa/gqugquzela ukuthi zisetshenziswe.