

PUILA IMVUILA



Abasizayo ngokuqhubekeka ngale phrogramu: Abahlezi phambili ngokusuka ngobunxele kukhona uLawrence Luthango noJerry Mthombothi noJane McPherson. Emuva ngokusuka ngunxele kukhona uJohan Kriel, uJurie Mentz, uDanie van den Berg, uJan Househam, uTonie Loots noWillie Kotzé.

Abalimi abasakhulayo bathola ukubongwa ngoba basebenze kahle kakhulu

EKUSENI NGOSUKU OLUCISHE LUBHEKEKA NGATHI INTWASAHLOBO IFIGILE EBloemfontein, ABALIMI ABASAKHULAYO BATHOLE UKUBONGA NGOBA BAN-
IKEZE UKULIMA KWEZWE LETHU UKUTHUTHUKA. "USUKU LOMVUNO" ABANYE ABAKULEPHROGRAMU BEBATHANDA UKUBIZA LOLU SUKU KWAKUNGUSUKU LAPHO iGRAIN SA, ABASEBENZA IPHROGRAMU LOKUTHUTHIKISA ABALIMI BACABANGE UKUMA KANCANE UKUBONGA ABAKHIQIZI ABASEBENZA NABO NOKUGUBHA UMKHOSI NGOMSEBENZI WABO OMUHLE.

UJannie De Villiers (CEO-Grain SA) wathi umgommo wabalimi abasakhulayo kufanele uqonde ukungena emnothweni wesizwe. "Badinga ukuba aba-

limi bezomnotho ukuze bazokwazi ukukhiqizela izwe namanye amazwe ngebhajeti eliqhubekayo". Wavuma futhi wababonga futhi ngoba bayaqhubeka kodwa bayazi kukhona izinkinga kule bhizinisi. "Ubuuhle bomsebenzi wabo buphakamisa bunikeza abantu amandla futhi buhlonipha Unkulunkulu. Laba abalimi banikeze izwe amandla ngoba bakhombisile ukuthi ukusebenza emasimini ngokukhuthala kuzoletha inzuso". Washo futhi ukuthi udabukile ngoba emva kweminyaka engu-17 umsebenzi wokulima awuzange uhlanganiswe. Wathi, "iGrain SA lizosebenza kakhulu ukuze lokhu kwenzeke".

UJenny Matthews (weGrain SA) wavuma uku-thi kukhona izinto ezinzima ezibalindele, "Yebo,

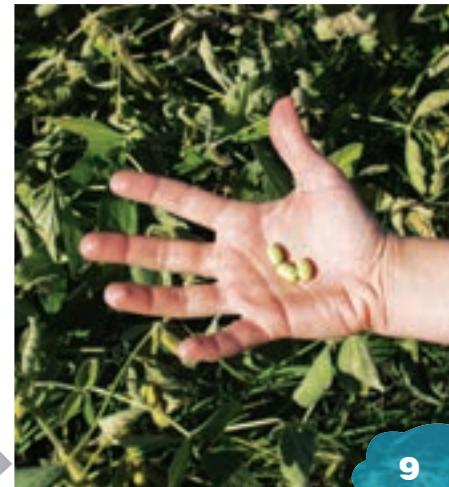
*Incwadi yeGrain SA
yabalimi abasakhulayo*

FUNDA NOAPHAKATHI:

- 4 > Iphrogramu Lo-kuthuthukisa Abalimi liphiwe ikheshi lokuli-vusa liphile
- 8 > Usoya – isitshalo som-hlaba esimangalisayo
- 10 > Ukusebenzisa ubu-longwe basesibayeni njengomanyolo



4



9

Abalimi abasakhulayo bathola ukubongwa ngoba basebenze kahle kakhulu



Unkz Jane uthi...

Akwenzeki kaningi ukuthi singathi izinto zi-hamba kahle! Siyajabula ngoba sikhaza ukutshela bonke abafunda lokhu ukuthi siphumelele ukuthola imali elingana ngamamiliyon anguR35 kuMnyango Wezokuthuthukisa Okwezimaphandleni Nokuguquka Komhlaba (DRDLR) ukunikeza izimali kubakhiqizi abangu-16 eFreyistata.

Ngo-2010, sixoxe kaningi ngoMyango Wezokulima, besikholwa ukuthi sizothola usizo kubo ukuze abalimi bethu bazokwazi ukuqala ukulima. Akuzange kwenzeke lutho. Kodwa kukhona into enhle evele lapho: abaseDRDLR bazwile ngenkinga nemizamo ngenkinga nemizamo yethu basebathi bona bazosisiza.

Ngalo nyaka sihlole kahle sihlole kahle amapulazi angu-16, abakhiqizi abengamalunga ephrogramu yethi iminyaka neminyaka, amalungu eziqumbi zokufunda, izinsuku zabalimi, amaprogramu zabalimi aphezulu nezinye izifundo zokuqeqliswa. Sibalungisele amasu ebhizini analokhu okulandelayo: okwezimishini (ukuthenga nokulgisa ogadaganda nemishini), uthango nokwakha izinto zokunikeza amanzi, izindlu, izimfuyo nezindlela zokuqala ukukhiqiza. Siwanikezile lawo masu, manje lonke ibhajeti lifakwe ebhange ku-akhawunti leGrain SA.

Zonke izinto zilungisiwe, izinto zokubala nohlelo Iwama-akhawunti nezindlela zokuqala ukusebenza. Ngokwamanje sesisize abakhiqizi ngokuqala imisebenzi ukuthola nokulgisa ugadaganda nemishini futhi konke okuhambelana nokuqala ukukhiqiza kuqhubeke kahle.

Sifisa ukubonga bonke abaseDRDLR ngoba basithembile futhi sifisa ukubatshela ukuthi thina nabakhiqizi sizozaama ngawo onke amandla ethu ukuphumelela phambili. Sikhola ukuthi sizokwazi ukusiza abanye abakhiqizi nakusasa.

kukhona izinsuku lapho kungathi siyahluleka ukuwina, kodwa bese kufika usuku njenganamuhla lapho sikhaza ukuthokoza. Ezinye izindawo kukhona umphumelelo, kukhona amapulazi asuke ukukhiqiza ithani elilodwa ehekthelini kodwa manje lelo pulazi likhiqiza amathani amane ehekthelini, sibona ukuthi impilo yabantu iyaphenduka ngenxa ukulima kahle nabanye abantu bayasizakala".

UJane McPherson (Umphathi Wephrogramu Lokuthuthukisa Abalimi leGrain SA) wathi iNingizimu Afrika idinga isigaba sokulima esinamandla futhi bafanele baxoxe ngezwi linye. "Asikhaza ukuxoxa ngendlela ehlukene ekulimeni. Sidinga ukuba nokudla namuhla nakusasa; abekho abanye abazosinika ukudla ngaphandle kwabakhiqizi bethu. Ukulima kuyisikelo sezinto zomnotho, kunikeza umsebenzi kubantu abaningi". UJane wathi futhi ukuthuthuka ekulimeni kubalulekile esigatsheni sokulima. Waphinda futhi ukusho ukuthi kubalulekile ukuthuthukisa abakhiqizi. "Ukuze sithole isigaba sezomnotho, sixoxe ngezwi elilodwa kufanele sibheke kahle ukuthuthukisa umuntu. Lapha asikhulimi ngemali nangezinye izinto, sikhuluma ngani. Sonke sinazo izidingo kodwa mhlawumbe ukulima kungasisiza lapho". Waphinda wathi bafuna ukwakha umoya othi sinendawo yethu lapha. "Kuyinto njengokwakha ukushintsha impilo yomuntu ibe ngcono. Sifuna ukuthola ukuzibheka lapho kukhona izidingo nokuthuthukisa ikhwalithi lempilo".

UJane McPherson watshela ababakhiqizi ukuthi ukusherisa amaphutha abo. "Emvukwamaphutha kukhona izinto ezinhle ezifundisayo. Lapha senza amaphutha kodwa asitsheli muntu sizogcina siphinde ukwenza lawo maputha

futhi – uma utshela abanye wena nabo bazo-funda".

IGrain SA izama ukwenzani kule phrogramu labo?

Umgomo ekugcineni kungukuthuthukisa abalimi abanamandla, abaqhubekeyo ukuzisebenzela ukuze babe abakhiqizi bezomnotho.

Bafuna ukuthuthukisa abakhiqizi bezomnotho abakhiqiza ukudla okuzinhlamvu nokusekela ukuthola ukudla nakusasa ezweni lethu. "Lapho ukwazi ukusebenzia umhlabo (ipulazi) wakho ngendlela efanelekile nawe ungasekekela umsebenzi wokuthola ukudla nakusasa ezweni lethu. Lapha asikhulumi ngomhlabo kuphela, ngemishini, imakethe, imali noma amakhono, sikhuluma ngokuhlanganisa konke lokhu. Kuthatha isikhathi, aweiq nje bese uba umkhiqizi, uyakhula kuze ube umkhiqizi", washo uMcPherson.

Abakhiqizi abathole umklomelo lo nyaka bafakwe ezigatsheni eziandelayo:

- Abakhiqizi Abazilimelayo endaweni encane (abalimi abalima amahektheli angu-1-10);
- Abalimi abalima ezindaweni ezincane (labo abasuka kulima amahektheli ayishumi (10) baze bakhiqize bafike kumathani angu-250).

Amalunga e250 club (abakhiqiza ukudla okuzinhlamvu okungaphezu kwamathani angu-250 ngonyaka) namalunga e500 club (abakhiqiza ukudla okuzinhlamvu okungaphezu kwamathani angu-500 ngonyaka) babongwa futhi kulo mhlangano.



UELMARIE SCHOEMAN, WEPULA/IMVULA



Abasponsori bale phrogramu: UDiale Mokgojwa (Standard Bank), uDudu Mashile (Monsanto) noRudy Mostert (Profert).



Abaphakanyisiwe: uhlobo lwabalimi abakhqiza ukudla endaweni encane: UWilson Tyelaphantsi, uSandisile Colbert Timakhwe, uCaledon Quta (Ogcinayo), uElijah Tefelo Mohapi, uThulane Mduduzi Mbele (Owinileyo), uBen Saul Gininda, uElmon William Mthombothi noSehere Daniel Makgoana (Ogcinayo).



Abaphakanyisiwe: uhlobo lwabalimi abazilimelayo (abathengisi): UMzoliswa Benedict Gxiva, uMbzuzeli Spondy (Ogcinayo), uMfaniseni Alpheus Mnculwane (Owinileyo), uBhekithemba Bethuel Mtshali (Ogcinayo), uBilly Essential Mthimkhulu noClinton Mbongiseni.



Amalunga e250 Ton club:
UMponeng Lidia Lentoro
(eFreyistata), uMoleko
Jacob Mthimkulu (eFreyistata),
uLerato Modise umukela
umklomelo endaweni ka-
Siphiwo Gift Mafuleka
(eMpumalanga) noSempe
Lucas Mokgethi (eNorthWest).



Umlimi wonyaka
okhiqiza endaweni
encane: UThulane
Mduduzi Mbele.



Amalunga e500 Ton club:
UJohn Mpau Dipali
(eFreyistata), uRuben Moiloa
Maphira (eFreyistata),
uThemba Johannes
Congwane (eMpumalanga)
noLerato Modise umukela
umklomelo endaweni
kaZodiwe Paul Motshwene.



Umlimi ozilimelayo
wonyaka:
UMfaniseni Alpheus
Mnculwane.

Iphrogramu lokuthuthukisa abalimi liphewe ikheshi lokulivusa liphile

UMGOMO WEPHROGRAMU LETHU LOKUTHUTHUKISA ABAKHIQIZI ABA-SAKHULAYO UTHI: "UKUKHULISA ABAKHIQIZI BEZOMNOTHO ABAMNYAMA NOKUNIKEZA UMNDENI NEZWE UKULONDEKA KOKUDLA NAKUSASA". Si-YAZAZI IZIKINGA ABAKHIQIZI BEBHEKENE NAZO. UKUSEBENZISA UMGOMO WETHU SIDING UKUTHI ABAKHIQIZI BATHOLE ULWAZI NAMAKHONO, UMLABA, IMISHINI NEZIMALI ZOKUQALA UKUKHIQIZA. NGEMINYAKA ED-LULEZE INTENGISO YOKUDLA OKUZHNLAMVU KWENZE UKUTHI KUBENZIMA UKUTHUTHUKISA ABALIMI BOKUDLA OKUZHNLAMVUKUBE – IZINDLEKO ZOKUQALA UKUKHIQIZA BEZIKHUPHUKA NJALO KODWA INANI LENTENGISO LISEPHANSI.

Nokho siqonda kahle ukuthi ukulima kuyibhizini, futhi ibhizini lifanele lithole inzulo ukuze likwazi ukuqhube kaodwa sibhekene nenkinga – kufanele umlimi aqhubeke ukutshala izitshalo ukuze athuthukise ikhono lakhe ukuba umkhiqizi. Awukwazi ukutshela umlimi "Qala ukulima", bese uthi "Khawula ukulima". Uzokwenzani ngamasimu ache ngesikhathi thina silinda kuze isimo sezuul nezemali ziba ngcono?

Ngonyaka odlule sizame ngawo onke amandla ethu ukuthola Umnyango Wezokulima Wezwe ukusiza 152 abakhqizibethu ngegranti leR1 500 ehetleni ukunciphisa inani lezindleko ezikhuphukayo ekulimeni. Ngokwaleka sithole ukuthi abazange benze lutho maqondana ngesicelo sethu. Siyazi ukuthi uMnyango unemali evela kuLlima Letsema efanele inekezwu kubalim abasakhulayo, kodwa bona bayisebenzise ngendlela efanele bona kuphela. (Thina siyazi ukuthi Umnyango Wezokulima WaseGauteng unikeze izinto zo-

kuqala ukulima ngo-11 Mashi 2011, kodwa lezo zitshalo bezifanele zitshalwe ngoNovemba 2010. Sizwile futhi ukuthi iNorth West neFreyistata babuyisile ibhajeti labo – abazange balisebenzise. Lokhu singaphinde sixoxe ngakho ngesinye isikhathi.

Sixoxe kaningi noMnyango Othuthukisa Okwasemaphandleni noMnyango Oguqula Umhlabo. Bona bathi ikhona imali engaya kubalimi abathole umhlabo maqondana nomthetho wokuguquka umhlabo. Lezo zimali zingatholwa abalimi beSLAG, iLRAD nePLAS, kodwa abalimi abalima umhlabo olinywa ngumuzi wonke abakwazi ukuyithola leyo mali (kodwa thina sicabanga ukuthi ukuthuthukisa abilimi basemaphandleni nabo bafanele bathole leyo mali njenabalimi abalima umhlabo olinywa ngumuzi wonke).

Emva kokuxxa isikhathi eside neminyango yesizwe neyamaphrovinci, si-vumelene ukuqala iphrojekthi elisha eFreyistata. Ngokwamanje sesiqhubeke ngendlela elandelayo:

1. UMnyango Othuthukisa Okwasemaphandleni noMnyango Oguqula Umhlabo (DRDLR) bakhombisile ukuthi banalo ilisti labakhqizibethu abazokwazi ukuphinda ukuthola imali.
2. Kule Phrogramu lethu leGrain SA Lokuthuthukisa Abakhqizibethu be-sinalo ilisti labakhqizibethu abangamalunga baleli phrogramu lokuthuthuka iminyaka eminingi.
3. Sithole abakhqizibethu abaselistini loMnyango naselistini lethu, sase sacabanga ukuqhube kaodwa ngale phrokethi lethu. Sibakhetha ngendlela elandelayo: umkhiqizi kufanele abe ilunga lale phrogramu lethu lokuthuthuka okungabi ngaphansi konyaka owodwa. Futhi kufanele aye





kuzifundo zethu ezintathu zokuqeqesha, kufanele ahiale kulo lelo pulazi noma eduze nalo, futhi abe ngumilimi oqobo.

4. Siye kuwo wonke amapulazi sabheka konke okudingekayo ukuguqula umlimi othile abe ngumkhiqizi okhiqiza ngendlela efanelekile, futhi besifuna nokumsiza asebenzise izingcebo zemvelo ezikhona ngendlela efanelekile. Sibalungisele isu lebhizinisi elinalokhu okulandelayo: ukuthenga ogandaganda nemishini okusha noma okusasebenza, ukuthenga kwezimfuyo, ukumisa uthango, izidingo zamanzi, amathulusi, ukuthatha amasampula omhlabathi nayo yonke imali (100%) edingekayo yokuqala ukulima noktshala ngonyaka wokuqala.
5. Sihlanganisa isivumelwano ngaphakathi kwethu neDRDLR esikhombisa ngokukhanya ukuthi uyini umsebenzi nezibopho zethu sonke. Isivumelwano sisayinwe yithina neDRDLR.
6. Sivule i-akhawunti elisha lalezizimali kuphela – kufanele nje ukuthi omunye walabo ozosizakala ngalezi zimali asayine futhi.
7. Isu lebhizinisi elilungisiwe liroxiswe nabo bonke abakhiqizi. Ekugcineni siqinisile ukuthi umkhiqizi uyazi ukuthi isu lithini futhi uyalemukela.
8. Umkhiqizi ngamunye usayine isu lebhizinisi lakhe.
9. Lawo masu ahanjiswe Mnyango weRDLR.
10. Zonke lezo zimali zingeniswe ku-akhawunti ebhange (amamiliyon angu-R29 258).
11. Ngokwamarje sisasebenza ukuhlanganisa isu lokusebenzisa konke lokhu ngendlela elandelayo:
 - a. Umkhiqizi ngamunye unomaluleki othembekileyo.
 - b. Umkhiqizi ngamunye wabuzwa ukuthi anikeze amagama nezindlela

zokuthintana nalabo abamthengisela izinto azidingayo (ukuze akwazi ukuqinisa nokwakha ukuhlangana nabo ukuze akhulise ibhizinisi lakhe).

- c. Umphumela wamasampula omhlabathi ufakwe kule phrogramu lethu ukuze sizokwazi ukubona ukuthi umkhiqizi uhambelana nomlayezo lapho elima.
- d. Kuzotholwa inani lezimali elibizwayo lapho kungenzeka (ngaphandle kwemishini ezake zasebenza, ukulungisa ugandaganda nemishini nedizili).
- e. Ukhqiqizi ngamunye uzorejestiwa ohlelweni olibizwa ngokuthi "Cash Focus". Uku-oda nokukhokhelwa kuzokwenziwa ngaphakathi kohlelo IweGSA.

Izinhliziyo zethu zivuswa le phrojekthi lethu ngoba laba abalimi baqequeshe kahle futhi bajwayele ukutshala ukudla okuzinhlamvu; banohlelo oluzobasekela lapho banenkinga; siyawazi ukubsiza ukuthenga ogandaganda nemishini okudingekayo ukulima ngendlela efanelekile; bazothola 100% yezimali ezidingekayo ukuqala ukulima ngonyaka wokuqala, futhi kungathi intengiso yokudla okuzinhlamvu nezimbewu zikawoyela (ubhontshisi namantongomane) izokhuphuka ngalo nyaka ozayo.

Uma konke lokhu kuhamba kahle sizosondela kumgomo wethu othi: "Ukukhulisa abakhiqizi bezomnotho abamnyama nokuniweza umndeni nezwe ukulondeka kokudla nakusasa".



**UJANE MCPHERSON, UMPHATHI WEPHROGRAMU
LEGRAN SA LOKUTHUTHUKISA ABAKHIQIZI ABASAKHULAYO**

Kuwayilense

Ungawadlulisi amaphrogramu alandelayo athintana neminingwane eminingi efanele inakwe abakhiqizi abasakhulayo. Qinisa ukuthi uzolalela.

IRediyo	Usuku Iweviki	Kuzonikezwa ngubani	Isikhathi
IRediyo Qwaqwa	Ngolwesine	UJohan Kriel	19:00 - 20:00
IRediyo Mafikeng	Ngolwesine	UTonie Loots	19:30
Zululand FM	Ngomgqibelo	UJurie Mentz	06:10
Ligwalagwala FM	Ngolwesine	UJerry Mthombothi	05:10
Umhlobo Wenene FM	Ngolwesibili	ULawrence Luthango	04:30
Alfred Nzo FM	Ngomsombuluko	Ulan Househam	19:00 - 20:00



Изимбеси Зикавојела не замафроtheni

Кунгани ситшале усоя?

IZIMBEWU ZIKASOYA ZINGAPHEZU KWAZO ZONKE EZINYE IZIMBEWU ZIKAWOYELA. **U**SOYA OTHENGISWA EMAKHETHINI EMHLABENI JIKELELE UNGAPHEZULU KABILI NAKWEZINYE IZINHLOBO ZEZIMBEWU ZIKAWOYELA. **I**ZINHLOBO ZEZIMBEWU ZIKAWOYELA EZITHENGISWAYO YILEZI: IZIMBEWU ZIKASOYA, IZIMBEWU ZIKAKOTINI, IZIMBEWU ZAMANTONGOMANE, IZIMBEWU ZIKABHEKILANGA, IZIMBEWU ZIKAREYIPU (*RAPE*), IZIMBEWU ZEFULEKISI (*FLAX*), I' COPRA' NE'PALM'.

Ubhekilanga nosoya yizitshalo ezikhiquiza izimbewu zikawoyela ezitshalwa kakhulu lapha eNingizimu Afrika. Izimbewu zikakotini nekanola azitshalwa kakhulu. Izimbewu zikakotini zikhiquiza ngokusuka kumathani angu-15 000 kuya ku-32 000 ngonyaka. Umkhiqizo kakotini ungaphansi kwa-4,7% uma siwulinganisa nosoya. Umkhiqizo wekanola (izimbewu) ungaphakathi kwamathani angu-31 000 namathani angu-40 000 ngonyaka. Uma siliganisa ikanola nosoya sizobona ukuthi ikanola beyifika ku-30%, kodwa manje sekwehlile kufika ku-5% kuphela.

Inkambiso yokukhiqiza nobukhulu bezindawo lapho kutshalwe khona ubhekilanga, usoya namatongomane kukhonjiswa kulamashadi alandelayo.



Umkhiqizo ngamathani wezimbewu zikawoyela njalo ngonyaka eSouth Africa

	Oluqobo	Oluqobo	Oluqobo	Oluqobo	Ngaphambili
ISITSHALO	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012
Ubhekilanga	872,000	801,000	516,265	861,770	
USoya	282,000	516,000	566,000	708,750	
Amantongomane	88,800	99,500	88,000	69,420	

Amasimu atshalwa ngezitshalo zikawoyela (amahektheli) njalo ngonyaka eSouth Africa

	Aluqobo	Aluqobo	Aluqobo	Aluqobo	Ngaphambili
ISITSHALO	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012
Ubhekilanga	564,300	635,800	397,700	642,700	
USoya	165,400	237,750	311,450	418,000	

Isilinganiso somvuno ongatholakala njalo ngonyaka, amathani ehektheleni (nokulinganisa okungaphezulu – ‘extra’)

	Esiqobo	Esiqobo	Esiqobo	Esiqobo	Ngaphambili
ISITSHALO	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012
Ubhekilanga	1,54	1,25	1,29	1,34	1,35
USoya	1,70	2,17	1,81	1,69	1,84
% Extra	10%	73%	40%	26%	36%

Lokhu okuphezulu kukhombisa kahle inkambiso yokukhiqiza eyandayo ngoba nokudinga kwalo kudla nakho kuyanda. Lokhu kukhombisa ukuthi imakethe litshela abalimi ukuthi bangaghubeke ukuqala ukutshala usoya noma ukwandisa umvuno wakhe.

Ngaphezulu singabona ukuthi umvuno kabhekilanga nosoya unjani. Ngeminyaka emine usoya wayengaphezu kwabhekilanga nge-36%.

Uma nawe uthole umehluko ofana nalokhu epulazini lakho bese uzokwazi ukubala inzuzo engenayo. Sebenzisa umvuno ovamekile njalo ebhizinisini lakho epulazini uma unazo lezi zinombolo.

Izintengiso zokuvala ngoMeyi 2012 zamankotilaka angavela ngakusasa ku-JSE zibekelwe usoya ku-R3 600 ngethani futhi ubhekilanga ubekwe ku-R4 080 ngethani. Lezi zintengiso zibheka futhi ezinye izinto njengezimbewu zikawoyela ezikhona (*stock*), ukushintshana kwerandi nedola, isimo sezulu, isidindo emakhethini sokudla namanye amabhizinisi asebenzisa amakhekhe kawoyela enziwe ngosoya.

Ukusetshenziswa kwamakhekhe kawoyela enziwe ngosoya kucishe kufike kumathani angu-958 000 ngonyaka, futhi kufika ku-14,75% kokudla okwensiwa lapha eSouth Africa. Ngokwamanje kukhiqizwa amakhekhe kawoyela lapha afika kumathani angu-152 000 kodwa kukhiqizwa amathani angu-387 360. Amathani alahlekayo akhuphukile – bekulahleka amathani angu-103 520 ngonyaka odlule. Amakhekhe kasoya avela phe-sheya angamathani angu-989 558. Uma ebiza R3 200 ngethani izwe li-fanele likhokhe amabilioni angu-R3,1.

Ngakho-ke kukhona ithuba elihle elikhulu lokwandisa umkhiqizo wosoya. Inkinga kodwa ikhona: ukukhiqiza amakhekhe kawoyela kudingeka imishini ekwazi ukusebenzisa 'hexane' ukukhipha uwoyela ezimbewini zikasoya. Manje ubukhulu bemakhethetlelifuna uwoyela namakhekhe ukusebenzisa uwoyela ekudleni akulingani.

Singathi inhlanganiso yezimbewu zikasoya ifana nalokhu: amaphrotiyini 40%, uwoyela 21%, amakhabohayidrethi 34% nomlotha 5%. Impuphu kasoya inosoya elingana ne60% - 70%, okusele kutholakala kuwoyela.

Amakhekhe kasoya assetshenziswa ekudleni kwezinkukhu, izingu-lube nokukhuluphalisa izinkomo.

Ukulanganisa inzuzo engenayo

Uma sisebenzisa umvuno ojweyelekile ezweni lethu imali engenayo ngokutshala ubhekilanga ingabalwa kanje (kungene futhi indleko yentilansipoti: R200):

Amathani angu-1,35 ehektheleni x R3 880 ngethani = R5 238 imali engenayo ehekthelini.

Izintengiso zikasoya zibalwa ngokubheka umvuno ojweyelekile ezweni kanje:

Amathani angu-1,84 ehekthelini x R3 600 ngethani = R6 624 imali engenayo ehekthelini.

Kanjalo imali engenayo lapho kuthengiswa usoya ingaphezu kwe-mali kabhekilanga, ingaphezu nge-R1 386 noma nge-26%.



Umlimi ngamunye kufanele abale kahle umvuno ongathokala emva kokubheka umhlabathi wakhe, isimo sezulu nohlelo lwakhe lokukhiqiza. Isayilo likabhekilanga eliduze nawe lingakusiza ukubala kahle inzuzo engatholakala ehekthelini epulazini lakho.

Izinsizakalo zokukhiqiza usoya

Ezinye izenzelelo lapho kukhiqizwa khona usoya epulazini lakho futhi kushintshwa izinhlobo zezitshalo njengokolo, ummbila, ubhekilanga nosoya. Lokhu kuzosiza ukuphatha ukhula nokuphakamisa isimo som-hlabathi.

Izitshalo zika soya zinezimpande ezingamila 25 mm ukuya ku-50 mm ngosuku. Lezo zimpande zingafika ku-1,8 metres ngonyaka. Ngakho-ke isitshalo singasiza ukuvimba ukuqina kwezimpande emhlabathini nokuletha ukudla okunamandla ngaphezulu lapho kuzodliwa ezinye izitshalo.

Izitshalo zikasoya zinokuhlangana namabhaktheria abizwa ngokuthi 'rhizobium' bese kubumbeka isigaxana ezimpanden. Lezi zigaxana zibamba inayithrojeni emoyeni futhi zikwazi ukufaka inayithrojeni engax-ubene elingana ne-20 kg okuya ku-70 kg emhlabathini. Le nayithrojeni lemvelo bese lingadliwa izitshalo ezinye ngonyaka ozayo.

Lokhu ukuqongelela kwenayithrojeni lapho sibheka umlayezo womanyolo wezitshalo wonyaka ozayo kuzonciphisa izindleko zenayithrojeni. Umanyolo wenayithrojeni ubiza ± R9,50 kg. Lokhu kusho ukuthi ehekthelini elilodwa lizodinga inayithrojeni elilingana ne-50 kg uzonciphisa izindleko ezilingana ne-R475 lapho uthenga umanyolo nakusasa. Abakhiqizi bazothola futhi ukuthi umvuno wezitshalo ezilandela usoya uyanda njalo.

KUBHALWE UMKHIQIZI OTHATHE UMHLALAPHANSI

***Kukhona ithuba elithi ubocabanga kahle ngokukhiqiza
usoya epulazini lakho.***

Usoya

IZIMBEWU ZIKASOYA ZINAMAPHROTHIYINI ANGU-38%, UWOTELA ONGU-18%, AMAKHABOHAYIDRETHI ANGU-15%, UZI ONGU-15%, NE-14% YOMSWAKAMO NAMAMINIRALI. NGOBA KUHLANGANE AMAPHROTHIYINI AMANINGI NOWOYELA USOYA UBIZWA NGOKUTHI ISITSHALO SOMHLABA ESIMANGALISAYO. INAYITHROJENI IBALULEKILE UKWAKHA AMAPHROTHIYINI, NGAKHO-KE USOYA UDINGWA KAKHULU UMA SIWULINGANISA NEZINYE ISITSHALO.

Ukujiyisa inayithrojeni

Usoya unenhlanhla ngoba kukhona ukuhlanganisa amabhaktheriya ne-zimpande zalo. Lawo mabhaktheriya athanda ukuhlala kusoya bese an-ekhono lokubutha (ukumunca) inayithrojeni elisemoyeni likuqongelete, emva kwesikhathi inayithrojeni linganikezwa ezitshalweni ezinsha. Izitshalo ezokwazi ukubamba inayithrojeni emhlabathini zibizwa ngokuthi 'legumes'.

Umoya owungaphandle unenayithrojeni elingu-78% kodwa izitshalo azikwazi ukusebenzisa lokhu lapho zimila. Izitshalo zingasebenzisa inayithrojeni kuphela lishintshwa libe i-amoniya noma i-nayithrethi. Amabhaktheriya akwazi ukubamba inayithrojeni emoyeni asebenzisa ngokuthi '*rhizobium*' futhi asizwa amabhaktheriya abizwa ngokuthi '*Bradyrhizobium Japonicum*'. Isitshalo sinikeza amabhaktheriya anemakabohayidreiyithi namaminirali bese amabhaktheriya ashintsha inayithrojeni elisemoyeni ngendlela ezokwazi ukusebenzisa ezinye izitshalo.

Amabhatheriya aphila ezindaweni ezibizwa ngokuthi 'bacteroids', kudingeka 10 000 ukwakha isigaxana. Lokhu kufana nobhontshisi omn-cane omhloshana onamathele ezimpandweni.

Izimbewu zikasoya zidinga 85 kg zenayithrojeni ukukhiqiza ithani lezimbewu. Umvuno ovama ukufika kumathani amabili uzodinga inayithrojeni elizofika ku-170 kg. Ukujiyisa kwenayithrojeni kungafika ku-

50% - 80% okudingekeyo izimbewu zikasoya.

Okunezigaxana nokunomgcwabo

Into ebalulekile kakhu ukukhiqiza usoya kuqinisa ukuthi izigaxana zi-yamila.

Ukunomgcabo kungungenisa amabhaktheriya abizwa ngokuthi 'rhizobia' ezimbewini zikasoya ngaphambi kokutshala noma ngesikhathi sokutshala. Umgcabo ungathengwa, ungafana namanzi, okubanda kakhu (njengesithwathwa), uphuyela noma okuyimbudumbudu. Okunye okufanele sikukhumbule yilokhu:

- Landela imilayevo womenzi ukuhlanganisa konke.
- Ungaboshiya izimbewu ezinomgcabo elangeni ngaphambi kuzitshala, hlanganisa izimbewu ezimbewu ezizodingeka ngalolu suku kuphela. Beka umgcabo nezimbewu ezinomgcabo endaweni lapho kungekhona ilanga, indawo epholile enomthunzi.
- Ezinye izinto ezisetshenziswa ukuvimba izifo ezimbewini zingabulala amabhaktheriya. Qinisa ukuthi lapho uthenga khona izimbewu abazange basebenzise Captan noma PCNB.
- Cabanga ukushintsha ipulantela lakho ngendlela lizokwazi ukufafaza umgcwabo phezu kwezimbewu phakathi emhlabathini omanzana. Lezo zinto zingatholakala ngentengo ephansi ezindaweni eziningi.
- Ungahlanyeli lapho kushisa noma kubanda kakhu. Ukushisa komhlabathi okufanelekile kungaphakathi kwa-15°C - 27°C. Esihlabathini ezindaweni zaseWestern Freyistata umgcabo awungeke usebenze kahle ngenxa ukushisa ngoOkthoba kuya kuDisemba ngesikhathi esisuka ku-10h00 siya ku-14h00 ngoba kushisa kakhu ngaleso sikhati.
- Faka umgcabo ezimbewini njalo ngonyaka nalapho utshale khona usoya ngonyaka odlule.



– isitshalo somhlaba esimangalisayo

Ukuhlola ukuthi izigaxana zisebenza kahle

Kufanele umlimi ahlole kahle ngesikhathi sokutshala aphinde futhi emva kwamaviki. Emva kwamaviki amahlanu noma ayisithupha izigaxana sifanele sibe khulu sisebenze. Lapho ukukhula kwesigaxana akuqhubekei kahle singabuyela siyobheka ukuthi konke kuhambe kahle ngesikhathi sokutshala, mhlawumbi bekukhona inkinga lapho esingazange siyibone. Lokho esikufunda ngale ndlela kungasisiza nakusasa lapho siphinda ukufaka umgcabo ngonyaka ozayo.

Uma kungekho izigaxana ezikwanele kuzodingeka ukuthi kufakwe futhi inayithrojeni ukuze sithole umvuno omuhle. Sebenza ngefosholo ususe zonke izimpande nezigaxana ezsamila kanyekanye. Izigaxana zingasala kalula emhlabathini lapho sidonsa nje isitshalo ukusikhapha.

Kufanele kube khona 8 - 20 izigaxana ezinkulu (2 mm – 4 mm) esitshalweni esisodwa ngaphambi kokuphuma kwezimbali. Impande egxumekeke ifanele ibenezigaxana, lezi zigaxana zimila ngoba kufakwe umgcabo ezimbewini; izigaxana ezmila kwezinye izimpande emaceleni zimila ngenxa yamabaktheriya akhona emhlabathini.

Izigaxana ezincane ezmhlophe azaqalanga ukubamba inayithrojeni. Thatha ummese uziske uzivule. Izigaxana eziqale ukubutha inayithrojeni zibomvana phakathi. Lezo ezeluhlaza noma ezinsundu azibophi inayithrojeni.

Izigaxana ezingakhuli kahle zenza ukuthi kusweleke inayithrojeni, lokhu kuzobonakala lapho isitshalo zinamakhasi aliphuzi noma ezinye

isitshalo ezinamakhasi amabi.

Amasimu afanele ahlolle sonke isikhathi ukubona ukuthi izigaxana zimila kanjani futhi isitshalo zinjani. Ishitshalo zikasoya eziphilile zizokhombisa ukumila okunamandla namakhasi aluhlaza kahle.

Lapho ucabanga ukuthi kukhona inkinga, cela usizo kumkhulumeli wenkampani lapho uthenge khona izimbewu. Hlola futhi ukuthi awungeke uthole izinto ezidale inkinga kulezi zinto ezibhalwe lapha phansi.

Ukumila kwezigaxana okungahambi kahle kuzodala ukungabophi inayithrojeni ngokwanele kungadalwa yizinto ezilandelayo:

- Amasimu amasha angenawo amabaktheriya amaningi.
- Amasimu anenayithrojeni eningi esale lapho bekutshalwa ezinye isitshalo ezifana ne'legume' njengelusene noma kufakwe ubulongwe obuningi kakhulu ngonyaka odlule.
- Umhlabathi ome kakhulu ukuphilisa amabaktheriya.
- Umhlabathi omanzi kakhulu ngesikhathi esifika kwezinsuku eziyisikhombisa noma ngaphezulu. Lawo manzi azovimba umoya ukungena emhlabathini kakhulukazi i-oksijini eliphilisa umhlabathi nezigaxana ezimpanden.
- Umhlabathi onepH ngaphansi kwa-5,7 noma ngaphezu kwa-7,3.
- Umhlabathi oqinile ozovimba futhi ukungena nokuphuma komoya emhlabathini nasezimpanden.

KUBHALWE UMKHIQIZI OTHATHE UMHLALAPHANSI



*Lo mbhalo okhethekile ubekhona
ngenza yomnikelo ovela ku-Oil and Protein
Seeds Development Trust.*

Ukusebenzisa ubulongwe basesibayeni njengomanyolo

NGEMINYAKA NEMINYAKA EDLULE ABAKHIQIZI BEBASAKAZA UBULONGWE BEZIMFUYA EMASIMINI UKWANDISA AMANDLA OMHLABATHI NOKWANDISA UBUKHULU BOMVUNO. NGESIKHATHI ESIDLULE UMANYOLO LO WAYE ISISUSA ESODWA SOKUTHOLELA IZITSHALO UKUDLA EMHLABATHINI UKUZE ZINIKEZE ABANTU UKUDLA LAPHO ZITSHALWA. KODWA INKINGA ILAPHA: NGOBA UMANYOLO WEZEMVELO NJENGOBULONGWE AWUNAKHO UKUSHUQISA OKUNAMANDLA KAKHULU FUTHI UDINGA UMSEBENZI OMNINGI UKUWUSAKAZA EMASIMINI, NGOKWAMANJE SEKUNGENE UMANYOLO ONGASIWO WEMVELO KODWA OWENZIWA NGAMAKHEMIEKELI UKUMILISA IZITSHALO ZABALIMI.

Uma sibala inani lezimali elihambelana nobulongwe, kufanele futhi sibale ukuthi kuzobiza malini ukufaka umanyolo omusha endaweni yobulongwe, kufanele sibheke ukuthi lingakanani inani lezinto zemvelo ezikhona kuhlu manyolo, amandla alowo manyolo ukuthuthukisa isimo somhlabathi nokukhulisa inani lomvuno ozotholakala lapho kukhiqizwa.

Ubulongwe unemiphumulelo emibili lapho usakazwa emhlabathini (ushintsha lokho okuvezwu umhlabathi – isimo somhlabathi):

1. Bunikeza ukudla emhlabathini.
 2. Buvundisa umhlabathi ngezinto zemvelo ezake zaphila (zemvelo). Lokhu kwenza ukuthi izimpawu zomhlabathi zibe ngcono, isakhiwo somhlabathi siba ngcono, amanzi angena kangcono, amanzi abanjawu kangcono nomoya ungena kangcono.
- Kutholakala umphumelelo omuhle uma sisakaza umanyolo onezinto ezake zaphila lapho sebheda isimo somhlabathi, sihle kakhulu lapho sisilinganisa nomhlabathi lapho kuthelwa khona umanyolo owenziwa ngamakhemikeli. Lokhu kukhombisa ukuthi kufanele sisebenzise ubulongwe obutholakala ezibayeni zezimfuyo ezingadini nasemasimini.

Kukhona eziningi izinto ezingashintsha inanini lenhlangano yokudla ubulongweni. Isimo senhlangano sobulongwe sihambelana nekhwalithi lokudla okudliwa imfuyo, uma kukhona amaphrothiyini amanangi ubulongwe uzoba nenayithrojini eliningi. Kanjalo-ke uma kukhona ipothasiyumi nefosforasi okuningi ekudleni, kuzobakhona futhi ubulongweni. Ubulongwe uqala ukubola (ukubhucuka) masinya emva kokuchithwa izimfuyo. Lapho ubulongwe ushiyya uvulekile uzokoma masinya bese inayithrojeni eliningi

lizolahlekelwa emoyeni. Iphothasiyumi lingalahlekla lapho ubulongwe bunethwa kakhulu yimvula.

Singathi ukuthi \pm 70% - 80% yeN, 60% - 65% yeP ne80% - 90% yeK, okusekudleni kwezimfuyo kungatholakala ebullongweni balezo zimfuyo. Ukudla kwezitshalo okusebulongweni kungajikiswa bese izitshalo zidliwa izimfuyo, zona zenza ubulongwe obuzodliwa izitshalo lapho zimila futhi. Ukwenza ukuthi kungalahlek iakhulu okunikayo amandla ezitshalweni lapho umanyolo ubekwa, yakha ingqumbi yobulongwe bese wembese leyo ngqumbi. Akufanele ukuthi ubulongwe bubekwe isikhathi eside, bu-fake masinya emhlabathini lapho isikhathi sikhona.

Izikhombiso ezingaba liqiniso (mhlawumbe zishaya khona) zeN (inayithrojeni), zeP (ifosforasi) nezeK (ipothasiyumi) ebullongweni bezinkomo: N - 1%, P - 0.5% nezeK - 1.0%.

Kodwa kukhona izinto eziningi ezingashintsha isimo sezinto ezhilanganiswe ebullongweni, ngakho-ke sithi ‘mhlawumbe zishaya khona’, kuyisilinganiso sokuqagela. Inani lokunikayo izitshalo amandla okumila elikhona ebullongweni nenani lalokho okuzodliwa izitshalo kuzokwehluka ezindaweni ezahlukene. Izinto ezingashintsha inani lalokho okunikayo amandla ebullongweni:

1. Inhlanganiso yokudla okudliwa yizimfuyo.
2. Indlela yokubutha ubulongwe.
3. Indlela yokubeka ubulongwe.
4. Indlela yokusakaza nesikhathi sokusakaza ubulongwe.
5. Isiko somhlabathi nesetshalo lapho kuzosakaza khona ubulongwe.
6. Isomo sezulu.

Ngokwejwayelekile isidingo sezitshalo ezifana nommbila (ukudla okuzinhlamvu) ukuthola amathani angu-4 (4T) silingana nalokhu: 50 N, 22P, 120 K.

Onke amandla anikwayo ubulongwe awatholakali (awudliwa) masinya izitshalo. Okuningi kwenayithrojeni nokwefosforisi kubanjwa izinto zemvelo emhlabathini, zingadliwa izitshalo kuphela lapho zibola. Kodwa lonke ipothasiyumi elisebulongweni lizodliwa kalula yisitshalo.

Ubulongwe wezinkomo bunenayithrojeni elingatholakala emhlabathini elifika kuphela ku-20% masihlanganisa lonke inani lenathrojeni, futhi kuzotholakala 40% wefosforasi ngonyaka lapho busakazwe khona. Lapho

Ukudla okunikeza amandla okutholakala ebullongweni: kg/ha

T/ha	N	P	K
5	10	10	50
20	40	40	200

sisebenzisa ubulongwe wezinkomo mhlawumbe singathi kuzolunga uma sisakaza ubulongwe obulingana ne20T/ha noma 20 kg/10 m². Lokhu kulin-gana nebhaketha elithatha amalitha angu-5/sq/m. Inani elilingana nalokhu lizonikeza iP neK eliningi elizokwanele, kodwa kusazodingeka umanyolo wangaphezulu njengeLAN.

Isaka le-50 kg eliphethe 2:3:2 (38) lizoba nalokhu: 5,4 kg N, 8,14 kg P ne-5,4 kg K.

Kanjalo-ke lapho sisebenzisa ithebula eliphezulu singathola ukuthi kudingeka ubulongwe obungakanani ukuthola umvuno esifuna ukuwuthola. Kukhona yinye indle kuhela ukuthola ukuthi sinjani isimo sokudla okusemhlabathini: thatha amasampula omhlabathi okuzokhombisa ukuthi kudingeka inani elingakanani leN, P neK.

Ukusebenza kahle kobulongwe njengomanyolo kuhambelana namandla anikwayo angekho ngokwanele emhlabathini. Ngakho-ke inani lemali elizokhishwa ukusebenzisa ubulongwe obusetshenziswa ngesikhathi esimfushane sizothola ukuthi kuzolingga nezindleko uma sithenga umanyolo ukuvala isikhala lapho bekungekho ubulongwe. Emasimini lapho izimo zeP naK emhlabathini zingathi zikwanele, singacabanga ukufaka kancane inayithrojeni.

Amasimu akhombisa ukuthi kukhona P naK okwanele ngokwamanje azodinga P naK okudlulayo emva kwesikhathi uma kungasakazwa ubulongwe. Ubulongwe bungasiza futhi ukulungisa isimo sobumuncu emhlabathini, ukulungisa futhi izimphawu zomhlabathi onamagade lapho amanzi angeke akwazi ukungena.

Indleko ebonakalayo ezwakalayo esikhwameni masinya yilokhu okwenza lokhu okujikisa ukudla kwemvelo okusemhlabathini kuhinde kusethenziswe kuhombisa ukuthi awuzange ulahle imali yakho.

Ngokwejwayelekile ukulinganisa kweN, P neK ebulongweni akul-

ingani nalokhu okudingwa izitshalo, ngakho-ke akufanelekile konke ukudla kusethenziswe. Umgomo womvuno ophathwa kahle ngulokhu: ukuhlanganisa iprogramu elizovundisa umhlabathi futhi elizonekeza izitshalo amandla adingekayo atholakala ebulongweni bese kuzoding-eka ukuthenga umanyolo kuphela ukuvala isikhala lapho ubulongwe buhluleke khona.

Kufanele kuhlanganiswe amasu ukuthola inani lokudla okudingwa isitshalo esithile. Bheka izinto ezilandelayo:

1. Okunikayo amandla kuleso sitshalo (isidingo saso).

2. Amandla akhona kulobu bulongwe.

3. Inani lokusakaza ubulongwe.

4. Inani likamanyolo othengwayo ngaphezu kobulongwe.

Isikhathi nendlela yokufafaza ubulongwe kuhambelana nokusebenzisa kahle ukuphinda nokuphinda ukunika amandla. Cabanga ngalokhu okulandelayo lapho usakaza ubulongwe:

1. Ukusakaza ubulongwe masinya kuvimba ukuthi kulahleke i-amoniya.

2. Ukusakaza ubulongwe eduze nesikhathi sokutshala ukuze kungalahleki amandla amaning.

3. Ubulongwe bufanele busakazwe bgokufana kuzo zonke izindawo.

4. Ungatheli kakhulu umanyolo othengwayo.

5. Landela umlayezo ohambelana namasampula omhlabathi ukuze ufake ukudla okufanelekile.

6. Bhala amarekhodi akhombisa inani lalokhu okunikayo amandla emasimini bese uzokwazi ukusebenza ngakho uma ushintsha iprogramu lokuvundisa umhlabathi.

UIAN HOUSEHAM, UMQONDANISI WEPHROVINSI OBHEKA IPHROGRAMU LOKUTHUTHUKISA ABALIMI ABASAKHULAYO LEGRAIN SA

Ukuvimba ukushushumba komuthi kwezinye izitshalo lapho ufafaza

ABAKHQIZI ABANING NGOKWAMANJE BATSHALA IZITSHALO EZAH-LUKENE EMAPULAZINI ABO. LAPHO KUSHINTSHWA KHONA IZINHLOBO ZEZITSHALO NJENGOKOLO, UBHEKILANGA, USOYA, AMABELE, UMMBILA, AMAZAMBANE NAMADLELO KUSHO UKUTHI KUZOSETHENZISWA AMAK-HEMIKHELI AZINHLOBONHLOBO NGESIKHATHI LEZO ZITSHALO ZIMILA NGALOWO NYAKA.

Amapulazi aseduze namadolobha lapho kuniselwa khona nalapho kutshalwa khona ngaphansi koseyili njengemithi yezithelo, amaveji, umvini nokunye abalimbafanele baqaphele kahle uma befafaza umuthi ngoba amakhemikheli avama ukuhamba emoyeni. Qaphela futhi ungalimazi izitshalo zakho noma izitshalo zomakhelwane. Yena ungabiza imali eningi uma eya ehhovisi lomthetho lapho ulimaze izitshalo zakhe.

Isimo sezulu lapho kufafazwa

Abakhiqizi bafanele babheke njalo ukuthi kuthiwani ngesimo sezulu ngaphambi kokufafaza nangesikhathi sokufafaza. Umoya onamandla, umpompi ocinderezela kakhulu, amanozili angafanelekile nokuphakama kakhulu kwebhumi kungenza ukuthi umuthi uhamble emoyeni udale ink-ing kumanye amasimu noma kumakhelane. Bheka lokhu okulandelayo:

• Ukuafafaza lapho kukhona umoya onamandla noma isimo sezulu esishintshayo.

• Ukuafafaza amaconsi amancane kakhulu.

• Ukuphakama kwebhumi okungalungile.

• Ugukijimisa kakhulu komshini ensimini.

• Amakhemikheli nezinhlanganiso ezikhothwa ngumoya kalula ngesikhathi sokufafaza nangemuva kokufafaza.

• Izitshalo ezahlukene eztishalwe eduze kakhulu nezinye izitshalo.

• Ukuçinderezela okuphezulu kakhulu kwenza ukuthi amaconsi abe mancane bese ukushushumba komuthi kuyanda.

• Lapho kufafazwa kancane ngamanozili amancane kungandisa ukushushumba komuthi.

Ngezinye izikhathi zonyaka isimo sezulu singalunga kuphela ngezikhathi ezithile emini noma ebusuku. Abankontilaki abaneGPS neGIS emishinini yabo bazokwazi ukufafaza indawo enkulu lapho kuthulile ebusuku.

Kufanele wena wazi izindawo ezingalimala uzikhombise kumkon-tilaki futhi azisa umakhelwane ukuthi uzofafaza ziphi izitshalo nangomuthi onjani. Omakhelwane banethuba ukusho ukuthi kukhona izitshalo ezingalimala.

Phinda njalo ubheke isimo sezulu njengemvula, amafu nokushisa emini nasebusuku.

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GRAIN SA

PO Box 88, Bothaville, 9660
► (056) 515-2145 ▲
www.grainsa.co.za

UMPHATHI WEPHROGRAMU

Jane McPherson
► 082 854 7171 ▲

OQOBELELANA NOLWAZI: UKUQEQUESHA NOKUTHUTHUKISA

Willie Kotzé
► 082 535 5250 ▲

OQOBELELANA NOLWAZI: FIELD SERVICES

Danie van den Berg
► 071 675 5497 ▲

UKUSAKAZA: PULA-IMVULA

Debbie Boshoff
► (056) 515-0947 ▲

ABAHLANGANISI BEPROVensi

Daan Bosman

Mpumalanga (Bronkhorstspruit)
► 082 579 1124 ▲

Johan Kriel

Free State (Ladybrand)
► 079 497 4294 ▲

Tonie Loots

North West (Zeerust)
► 083 702 1265 ▲

Jerry Mthombothi

Mpumalanga (Nelspruit)
► 084 604 0549 ▲

Lawrence Luthango

Eastern Cape (Mthatha)
► 083 389 7308 ▲

Jurie Mentz

KwaZulu-Natal and Mpumalanga
► 082 354 5749 ▲

Ian Househam

Eastern Cape (Kokstad)
► 078 791 1004 ▲

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IsiZulu,

IsiNgisi, IsiBhunu, IsiTswana, IsiSuthu,
IsiSuthu saseNyakatho, IsiXhosa.

Sizimisele ukukhipa incwadi enhe kakhulu. Uma ufisa ukuxoxa ngokuphakathi noma ngendlela kubhaliwe ungathintana noJane McPherson.

Ukuvimba ukushushumba komuthi kwezinye izitshalo lapho ufafaza

Ukushisa kufanele kube njani lapho ufafaza?

Kukhona imishini alinganisa isimo sezulu, imitha ebizwa ngokuthi 'digital'. Lo mshini ulinganisa umehluko ngaphakathi kwethemomitha elisebenza ngebhala elimanzi nethemomitha elisebenza ngebhala elimile. Ukushisa kwebhalbu elimanzi kususwa ekushisweni kwebhalbu elomile bese kuzotholakala ukufudumala ngesilinganiso seCentigrade. Lokhu ukulinganisa kwesimo sezulu kwaziwa ngo-kuthi 'Delta T'.

Leyo mishini ikwazi futhi ukulinganisa ijbane lomoya. Lokhu kuhambelana nokukhothwa komoya noma ukuhlala kweconsi esitshalweni. Uma lokhu ukulinganisa kufika ngaphakathi kwa-2 na-8 kuzobangcono ukuma ngokufafaza. Lapho kufudemel kakhulu futhi awekho amanzana emoyeni iconsi lomuthi lizonyamalala ngaphambi kokungena esitshalweni. Lapho kushisa kakhulu futhi komile mhlawumbe iconsi alingeke lifike emakhasini esitshalo. Uma kuhona nomoya ovunguzayo futhi ukufafaza ngendlela efanelekile akungeke kwenzeke.

Ukulinganisa kwe'Delta T' okuphansi kungenza ukuthi amaconsi ahiale emoyeni, awayi phansi lapho kuhona ukhula. Uma kushisa futhi komile izitshalo zokhula azingeke zikwazi ukumunca umuthi kahle. Inani lokhula olubulalwa kanjalo luzobaphansi.

Ukushisa okuhle okungaphakathi kwa-2 na-8 lapho kulinganiswe ngamabanga eCen-

tigrade kungenzeka ngokufudumala kwebhalbu elomile kungaba amabanga eCentigrade angaphakathi kwa-0 - 50 nobumanzi emoyeni obusuka ku-10% obuya ku-80%. Ngamanye amazwi singasho ukuthi kungenzeka kahle lapho kubanda nobumanzana obuphansi noma lapho kushisa kabi futhi ubumanzi obuphezulu.

Uma sibheka konke lokhu kuyakhanya ukuthi kunzima kakhulu ukuhlanganisa konke lokhu – kufanele sisebenzise konke lokhu isikhathi eside ngaphambi sizokwazi ukubona ukuthi isimo sinjani sokufafaza. Kungaba ngcono ukuthenga i-'Delta T' ukuze uzokwazi ukulinganisa konke lapho kufafazwa nalapho kuthelwa umuthi omusha. Kanjalo uzokwazi ukuqhubeka noma ukuma sonke isikhathi, emini nasebusuku.

Uma sibheka ukufudumala okuhona sibolandela imithetho elandelayo:

- Ungafafazi emini lapho umoya ushisa kodwa awuhambi ngejubane ngoba kuzoba khona ukuphakama (ukuya phezulu) komoya. Uzokwazi ukubona lokhu uma kuhona umlilo onentuthu.
- Ungafafazi ebusuku lapho umoya unga-hambi ngejubane noma lapho ilanga lishona ngoba ungfafaza ezinye zindawo, hhayi lapho ufanle ufafaze khona.
- Fafaza ekuseni noma ebusuku lapho kukhona umoya opholile ngoba kanjalo uzofafaza ngendlela efanelekile.



KUBHALWE UMKHIQIZI OTHATHE UMHLALAPHANSI

