

PULA INVULA

>> GROWING FOOD >> GROWING PEOPLE >> GROWING PROSPERITY >>



PHATWE
2017

Ditswamorago tsa borai mo boitekanelong ba diruiwa

Lekwalo la Grain SA la
balempotlana

Bala moteng:

04

Itse bathlophiwa ba rona ba
2017 (Karolo ya 2)



Go tswana le tlhotlheletso ya bona mo boitekanelong ba batho, borai bo itswe go tlietsa malwetse a mantsi mo diruiweng (*mycotoxicoses*) mme le go fokotsa maemo a boitekanelo a tsona. Dintlha tse gape di tlhotlheletsa gagolo boekonomi ba go rua diruiwa le go rekisa dijo tsa tsano.

Borai botlhe bo bo senyang boitekanelo ba batho (aflatoxin, fumonisin, deoxynivalenol, zearalenone le ochratoxin A) gape bo kgona go senya boitekanelo ba diruiwa kgotsa diphologog ka bophara, mme ditshupetso tse di supang tshenyego e di farologana gagolo le tse di supang tshenyego mo

bathong, mme gape le gare ga mefuta e e farologaneng ya diphologolo (**Lenaneo la 2**). Diruiwa jaaka dikgomo le tse dingwe tse di nnang le rona mo magaeng a rona (dikatse, dintšwa, jalo le jalo) di kgona go bolaiwa ke borai mo dijong tse di fiwang tse di nang tlhaka kgotsa kgaolo ya tlhaka e e fetotsweng mo borai bo leng teng, kgotsa go fula mafulo a a nang borai, diako tsa mmidi tse di sa dumelwang go rekisiwa, disalela tsa mo masimong le tshwang ya mo nageng. Borai bo bongwe bo bo bolayang diphologolo (*mycotoxicoses*) le dinngadule tsa bona, bo gantsi bo tsamaelanang le go bolaya diphologolo mo mafulong mo Afrikaborwa ke: Ergotism (mefuta ya *Claviceps*);



Ditswamorago tsa borai mo boitekanelong ba diruiwa

Lenaneo la 1: Sesupetso sa maemo a Fumonisin le Deoxynivalenol mo dijong tsa diruiwa sa United States Food and Drug Administration (FDA).

	Mefuta ya diphologolo	Dikgaolo tsa dijo le dikgaolo tsa kotlo	Maemo mo mmi-ding le kumo ya mmidi	Maemo mo di-jong
Fumonisin (FB)	Dipitse, ditonki le mebutla	Mmidi le kumo ya mmidi go se fete bokana ba 20% ya kotlo	Dipmm tse 5	Ppm e 1
	Dikolobe le dibabore	Mmidi le kumo ya mmidi go se fete bokana ba 50% ya kotlo	Dipmm tse 20	Dipmm tse 10
	Ditlhahuna tse di dusang, dinonyane tse di ruiwang tse di elamang*	Mmidi le kumo ya mmidi go se fete bokana ba 50% ya kotlo	Dipmm tse 30	Dipmm tse 15
	Ditlhahuna tse di fetang dikgwedi tse tharo le go feta tse di otlwang go tlhabiwa	Mmidi le kumo ya mmidi go se fete bokana ba 50% ya kotlo	Dipmm tse 60	Dipmm tse 30
	Dinong tse di godiswang go tlhabiwa	Mmidi le kumo ya mmidi go se fete bokana ba 50% ya kotlo	Dipmm tse 100	Dipmm tse 50
	Mefuta yotlhe ya diruiwa le dikgaolo tsa diphologolo tse diruiwang	Mmidi le kumo ya mmidi go se fete bokana ba 50% ya kotlo	Dipmm tse 10	Dipmm tse 5
Deoxynivalenol (DON)	Ditlhahuna tsa nama le tse di otlwang tse di fetang dikgwedi tse nne	Tlhaka le kumo ya tlhaka go se fete bokana ba 50% ya kotlo	Dipmm tse 10	Dipmm tse 5
	Dikgogo	Tlhaka le kumo ya tlhaka go se fete bokana ba 50% ya kotlo	Dipmm tse 10	Dipmm tse 5
	Dikolobe	Tlhaka le kumo ya tlhaka go se fete bokana ba 20% ya kotlo	Dipmm tse 5	Ppm e 1
	Diphologolo tse dingwe tsotlhe	Tlhaka le kumo ya tlhaka go se fete bokana ba 40% ya kotlo	Dipmm tse 5	Dipmm tse 2

*Go akaretsa dikgomo tse di gangwang le dikgogo tse di beelang mae tse di ka jewang ke batho; dipmm = dikgaolo ka milione; ga go na ditshupetso tse di fiwang ke FDA ka Zearalenone

stachybotryotoxicosis (*Stachybotrys*); facial eczema (*Pithomyces*); lupinosis (*Phomopsis*); le diplodiosis (mefuta ya *Stenocarpella*).

Mo tirong ya go sila mo Afrikaborwa, mkgwa wa go sila go bona "direngwa" o dirisiwa gantsi go rulaganya dijo tse di fiwang diruiwa le diphologolo tse dingwe mme di na le meamo a borai a kwa godimo go feta mefuta ya dikgaolo e mengwe e e silwang. Fa go silwa mmidi o o nang borai ka bontsi, "direngwa" tse di bonwang di ka senya boitekanelo ba diphologolo gagolo fa di sa tlhakatlhakangwe le mefuta e mengwe ya tlhaka e e silwang e e se nang maemo a kwa godimo a borai. Gantsi, go dirisiwa tlhaka e e tlhathwatlase e

e nang borai bo bontsi go rulaganya dijo tsa diphologolo ka tsholofelo ya gore bolwetse bo ka se bonagale, tota fa ditekgo tsa go supa maemo a borai di sa dirwa, jaaka tlhaka e e sa turang e e rometsweng teng. Tiragalo e e setse e tliseditse go swa ga diphologolo mo kumong jaaka dijo tsa dintšwa.

Diphologolo tse di fiwang dijo tse nang borai di ka simolola go lwala mme di sa fole e bile go na le ditswamorago tse di fokotsang kgono ya diphologolo tse. Fa gongwe, ditshupetso tsa bolwetse le ditswamorago tsa go ja dijo tse di nang borai ga di bonale mme di ka bonwa fela morago ga nako e telele fa mekgwa ya go gola ya diphologolo e fetoga, fa

NKOKO JANE A RE...

Setlha se sentshwa se setse se atumela mme o setse o simolola go loga maano. Bolemirui bo farolana le dikgwebo tsa mefuta e mengwe ka ntsha ya gore ka ngwaga o mongwe le o mongwe o tshwanetse go simolola gape (tota ka sepe). Mo go neng go na le tlhaka ka ngwaga o o fetileng go bonala mmu fela (ka tsholofelo go na le di-salela jaaka go tlhokiwa) mme mmu o o siame go amogela pula ya ntsha ya selemo e e tlaa go tlhotloholetsa go simolola go o baakanyetsa setlha se se latelang.

Ngogola, batho ba bantsi ba bone tlhaka e ntsi – ngwaga o ke tshimologo e ntshwa gape mme fa o batla go kgona gape o tshwanetse go dira sengwe le sengwe ka tshwanno. Gakologelwa go reka bokana ba monontsha o o tshwanetseng ka go lekana, peo e e tshwanetseng tikologo e masimo a gago a leng teng, mme gape le gore ntwaga ya go fenya mefero ga e fele. Nako e ke nako e e tlhokang tlhokomelo go kgona go uma kumo ka go lekana ka setlha se ka ntsha ya gore tse o di swetsang jaanong di tlaa supa kwa pele gore a o tlaa kgona kgotsa nnyaa. Leka go swetsa ka tshwanno le fa go ka tlhoka tiro e ntsi, le fa gongwe go ka ja madi a mantsi – o tshwanetse go duelwa ka tshwanno fa o lokela ka tshwanno.

Go bona thobo ya mmidi e e lekaneng go mosola ka mekgwa e mentsi – legae la gago le na le dijo, o ka rekisa tse o sa di tlhokeng mme tota le diruiwa tse o di tshotseng di ka neiwa dijo ka tshwanno. Le gale, o tlaa lemoga gore fa go na le tlhaka e ntsi, tlhotlwa e o ka e amogelang e a fokotsega – ke ntsha ya 'theleso le topo'. Fa sengwe se tlhokegwa, batho ba ka duela tlhotlwa e e kwa godimo go se amogela – fa selo seo se tletse naga yotlhe go feta topo, tlhotlwa e wela tlase ka gore ga go na batho ba bantsi ba ba se tlhokang (ba ka se reka gongwe le gongwe fela jaaka ba rata). Re ka ithuta dithuto tse di rutang ka ntsha e – go rulaganya kutlwano e e pila le bareki ba kumo ya gago, go tlhola o rekisa kumo e e pila tota, go re-risana ka kutlwano tlhotlwa e o e tlhokang pele ga nako mo setheng (fa go kgonegwa), mme tota le go leka go jwala mefuta e e farologaneng ya tlhaka. Dinawa gantsi ke kumo e e tshwanetseng molemirui yo o dirisang kgao-lo ya naga e nnye ka ntsha ya gore go tlhola go na le topo ya go reka dinawa e bile tlhotlwa e tlhola e le godimo. Nagana gore badirisi ba kumo ya gago ba tshwanetse go dirisa mefuta e e farologaneng ya dijo mme wena o tshwanetse go kgona go ba rekisetsa mefuta eo.

Fa go ntse go le nako ya boiketlo mo polaseng, o ka tsena dithutiso le dikopano tsa sethlopha sa dithutiso gore o kgone go oketsa kitso ya gago – fa o oketsa kitso, o tlaa tswelala go kgona! A pula e go nele!



go bonwa phokotso ya kgono go naya kumo, mme gape fa di tselelelwa ke malwetse a mangwe. Go nna teng ga mefuta e e farologaneng ya borai mo dijong (fa mefuta e e farologaneng ya tlhaka e tlhakatlhakangwa go rulaganya kumo e ntshwa), go tlhobaetsa gagolo ka ntsha ya gorbo bo e borai bo jaanong ga bo kgonwe go supiwa ka tshwanno.

Diruiwa tse di kgonwang go bolaiwa gagolo ke mefuta ya borai ke dikolobe e le deoxynivalenol mme le dipitse e le fumonisin, mme gape borai ba mefuta e e lwadisa diruiwa tse ka bonako gagolo. Maemo a bokana ba borai bo bo dumelwang a a setiwa ke United States Food and Drug Administration (FDA) a fumonisin le deoxynivalenol a amogelwa ka tlwaelo mo dijong mo Afrikaborwa go

sireletsa diruiwa go se bolaiwe ke borai ba mefuta e. (Go khutshwafatswa mo **Lenaneo la 1**).

Mo athikeleng e e latelang ya bofelo ya dia-thikele tse, re tlaa lebelela mekgwa ya go fokotsa bokana ba borai mo dijong tsa batho le diphologolo. Go filhetswe, le gale, mo ditekong tse dintsi gore fa go rakanwa le borai mo dijong tsa diphologolo, mekgwa o o bonolo wa go di sireletsa le go busetsa morago bolwetse ke go tlosa dijo tse di ka nnang le borai ka bonako mo kotlong e e fiwang diphologolo, kgotsa go tlosa diphologolo mo mafulong a a ka nnang le borai kgotsa disalela jaaka diako tsa mmidi tse di jewang.

Ka go sa kgonegwe go lebelela mefuta yotlhe ya borai mo athikeleng e, re solofela gore o tlaa

bua le ngaka ya diphologolo kgotsa moemedi wa malwetse a diphologo, mme tota le bakwadi ba dia-thikele tse go amogela kitso gape ka malwetse a a rileng a diphologolo le ditshupetso tsa ona a a ka tlisetwang ke borai. 🍷

Athikele e kwadihlwe ke HM Burger le P Rheeder, Mycotoxicology and Chemoprevention Research Group, Institute of Biomedical and Microbial Biotechnology (IBMB), Cape Peninsula University of Technology (CPUT). Fa o batla kitso gape, o ka romela emelle go Burgerh@cput.ac.za kgotsa RheederJP@cput.ac.za.

Lenaneo la 2: Khutshwafatso ya mefuta e methano ya borai le ditswamorado tsa bona mo boitekanelong ba diruiwa.

Borai	Diphologolo tse di bolaiwang	Malwetse le tshenyego ya boitekanelo
Aflatoxin (AF)	- Dinonyane: Dipidipidi, dikalakune, masogo, ditsuane, dikgogo le maphurwana - Diphologolo: Dikolajwane, dikolobe tse di dusang, dintšwa, dinamane, dikgomo, dinku, dikatse le dikgabo - Ditlhapi - Diphologolo tse di dirisiwang mo ditekong	- Koketso ya palo ya diruiwa tse di swang - Bolwetse ba sebete - Kankere ya sebete - Go gagamala ga mmele - Phokotso ya kgono ya go fenya malwetse - Bothole mo mmeleng
Ochratoxin A (OTA)	- Dikolobe - Dintšwa - Dikokoni (magotlo, dipeba)	- Bolwetse ba disele tsa sebete - Bothole mo mmeleng - Bothole mo nameng - Bothole mo bobokong
Deoxynivalenol (DON)	- Dikolobe - Dikgomo - Dikgogo - Dikalakune - Dipitse - Dintšwa - Dikatse - Diphologolo tse di dirisiwang mo ditekong	- Go elela ga mala - Phokotso ya go fenya malwetse - Phokotso ya kgono ya go gola - Phethogo ya go kgona go tsala - Bothole bo bo fokotsang kgono ya go fenya malwetse - Bothole mo marapong - Go gana go ja le go bopama
Zearalenone (ZEA)	- Dikolobe - Dikgomo tse di gangwang - Dikgogo - Dikalakune - Dikonyana - Diphologolo tse di dirisiwang mo ditekong - Ditlhong	- Phethogo ya go gwela le go tsala - Ke bothole bo bo fetolang go gola ga mmele - Phokotso ya kgono ya go tsala (bo fetola tiriso ya endokrine)
Fumonisin (FB)	- Dipitse, ditonki - Dikolobe - Diphologolo tse di dirisiwang mo ditekong	- Bolwetse ba Equine leucoencephalomalacia (bolwetse ba "phatlha mo tlhogong") - Porcine pulmonary oedema - Kankere ya diphilo le sebete



Pula Invula's Quote of the Month

The real opportunity for success lies within the person and not in the job.

~ Zig Ziglar

Itse batlhophiwa ba rona ba 2017 (Karolo ya 2)

Mo kgatisong ya kgwedi ya Phukwi ya Pula Imvula re le kopantshitse le batlhophiwa ba dikgaolo tsa Boiphedisio le Kgaolonye ba 2017 ba kgaisano ya Molemirui yo o tlhabololang wa Ngwaga ya 2017 wa Grain SA. Mo kgatisong e re tlaa lebelela batlhophiwa ba dikgaolo tsa Go ka nna wa Motlha o Montshwa mme le wa Motlha o Montshwa.

Ka kgwedi ya Lwetse re tlaa feteletse gore ke bomang ba le lesomepedi ba ba leng bantlhopheng ba ba setseng, mme ka ya Ngwanatsele re tlaa supa gore ba bofelelo ba ba gaisitseng ba le nne ke bomang.

“*It isn't the farm that makes the farmer – it's the love, hard work and character.*
– Unknown

Batlhophiwa ba Go ka nna wa Motlha o Montshwa



Moferefere Jacob Komako – Foreisetata

Go Jacob bolemirui ke se a godileng ka sone. O itumelela monko le medumo ya mo polaseng mme tota le fa bophelelo ba gagwe pele bo ne bo mo isitse ntlheng e nngwe, go ne go ntse go supega gore monna yo, yo o balang dingwaga tse 69, o tlaa boela mo lefatsheng le a le ratang ka pelo yotlhe.

O tsene sekolo mo polaseng e ditsala tsa gagwe di ne di dira e le badiredi ba mo polaseng mme morago ga go fetsa seemo sa 4 a bolelwa gore nako ya go tshameka e fetile mme o tshwanetse go simolola go dira jaaka banna ba bangwe. Morago ga dingwaga tse di ka nnang tse 15 a tloga mo polaseng go ya go ipatlela bophelo bo bongwe.

A simolola go bopa ditena mme a tswelela go nna mong wa bara mme ka bofelo, ka 1991,

a kgona go boela go dirisa bolemirui. Ka nako e, o ne a se modiredi, o ne a le mong wa polase ya Driefontein. O rekile polase ka go dirisa madi a a a adimileng mo Bankeng ya Naga mme o lemogile ka bonako gore fa a se na madi a go simolola ditragalo le didiriswa tse di tlhokiwang go tlaa nna ntwa e a sa kgoneng go e fenywa.

Morago ga dingwaga tse dintsi tsa go sokola le go tsietso, Jacob a kopana Johan Kriel wa Grain SA mme a simolola go tsena dikopano tsa lefapha la dithutiso le dithutiso tsa go ruta. Grain SA ya budulola matlho a gagwe mme a tlhologanya go se jwala ka mokgwa wa Sesotho mme go jwala ka mokgwa o o siameng wa se-gompiano. Setlha se o jwetse diheketara tse 220 tsa masimo a a sa nosetsweng ka mmidi, tse 150 ka dinawa mme tse 20 ka mmidi wa Reid e bile o lebeletse pele go bona thobo e e pila tota.

Jacob o na le mogopolo wa gore mowa wa balemirui ba basweu o fetogile mme o dumela gore ke Grain SA e e thusitseng go tlisetse maikutlo a.



Remember Wiseman Mthethwa – KwaZulu-Natal

Ka 1984 Remember o simolotse go direla DNC Mining Company mo polaseng ya Lilly Dale. O ne a dira ka metšhene mme ke gona moo a simolotseng go lemoga gore o rata bolemirui.

O simolotse ka go dirisa nako e a sa direng le madinyana a a ka fa thoko go jwala tlhaka le go reka diruiwa, ka toro ya gore kwa pele o tlaa kgona go nna mong wa polase ya gagwe. Toro

e ya nna nnete ka gore jaaka go ntse ke mong wa diheketara tse 662 tsa polase ya Milindale mme gape o hira diheketara tse 150 tsa polase ya e nngwe gaufi le Dannhauser.

Remember o utlwile ka ga Grain SA ka 2014 mme a ikopantsha ka 2015 go nna tokololo e e dirang le Setlhophla sa Dithutiso sa Newcastle B29 ka Chris de Jager a le mosupatsela.

Setlha se, o jwetse diheketara tse 55 ka mmidi wa Reid mme o solofela go tswela pele go nna molemirui yo o kgonang go rekisa ka bontsi. O rata go kopanela kitso mme o leka go tlhotlheletsa batho ba bangwe go nna jaaka ene e le modirisi wa bolemirui.



Simon Sello Teffo – Gauteng

Lorato la Simon go bolemirui le simolotse, a sa le mosimane, fa a thusa rraagwe mo polaseng ya go iphedisa gaufi le Hammanskraal. Simon o ne a le monna yo o tlhalefileng mme morago ga go fetsa seemo sa 12 kwa sekolong a simolola go ithuta boenjinyere kwa Tshwane University ya Technology. A tswela go dira a le moenjinyere dingwaga tse di rileng go fitlhelela naga e simolola go mmita go boela go yona ka 2006.

A amogela polase ya Doornfontein mo kgolong ya Randfontein e a e filweng ke Lefapha la Bolemirui mme la ntsha a leka go dirisa bolemirui mabapi le go nna a dira tiro ya gagwe mme a lemoga ka bonako gore bolemirui ke tiragalo e e tlhokang kelotlhoko ka nako yotlhe.

Morago ga go kopana le Jane McPherson ka 2014, Simon a ipapisa go nna tokololo ya Grain SA. Fela morago ga moo a nna modula-setilo wa Setlhophla sa Dithutiso sa Randfontein 28. O simolotse ka go jwala diheketara tse 120 ka mmidi ka dingwaga tse di fetileng tse pedi, mme a supa tswelolepele gagolo ka go jwala diheketara tse 535 ka setlha se. Simon o jwala mo masimong a a sa nosetsweng mme bokana ba kumo e a e bonang bo lekalekana sentle le balemirui bao ba ba jwalelang go rekisa ba a bapileng le bona.

O pelontle ka a thusa go tsholetsa batho ba baagi ba Elandsfontein ka go ba ruta mokgwa wa go jwala le go dirisa bolemirui mo masimong a bona. Gape o naya diaparo le didiriswa tsa metshameko go bana ba ba di tlhokang mo seko-long sa Rodora Primary se se leng gaufi le ena.

Ka a le tokololo ya Tlelapa ya Ditono tse 500 ya Grain SA, Simon o ikaeletse go nna Molemirui wa go ka nna wa Motlha o Montshwa wa Ngwaga o.



Vuyani Lolwane – Bokonebophirima

Fa a sa le lekawana, Vuyani o ne a rata nako e rraagwe a neng a mo tsamaisa le ena go ya matsatsing a bolemirui le go tsena dikopano tsa lefapha la dithutiso. Rraagwe o ne a le molemirui yo a neng a ijwalela mme ba ne ba nna mo motseng wa Bapong mo Gelukspan.

O phasitse setlhophla sa 12 ka 2003 mme a simolola go dira mo SANDF go tloga 2005 go fitlhela 2010. Ka maswabi, rraagwe Vuyani o tlhokafetse mme a nna molemirui nako yotlhe ka 2011. Vuyani jaanong ke mong wa polase ya Klippan mme gape o hira naga mo Lareystyd.

Vuyani o jwala mmidi, korong, disonobolomo, dinawa le bali mo masimong a a sa nosetsweng le mo a a nosetswang. O setse a le tokololo ya Grain SA dingwaga tse dintsi mme o tsena matsatsi a bolemirui le dikopano tsa setlhophla sa dithutiso mme gape o setse a tsene dithutiso tsa go ruta tse dingwe.

Maano a gagwe a bokamoso ke go farologantsha ditiragalo tsa mo polaseng le go busetsa, ka go dirisa tatelano ya go dirisa kumo ya bolemirui ka go feleletsa. O bua ka manontshetso, selaga, difetoladijo le thomelontle go Botswana le Lesotho.

Mo lefatsheng le bogare ba dingwaga tsa balemirui e le 60, monna o mošwa yo o rata diti-ragalo tsa bolemirui mme ke mosupatsela yo o plia go balemirui ba bangwe ba bašwa.

Itse batlhophiwa ba rona ba 2017 (Karolo ya 2) – Batlhophiwa ba Go ka nna wa Motlha o Montshwa



Edwin Thulo Mahlatsi – Foreisetata

Edwin o tshotswe go nna molemirui. O dirile e bile o phetse mo polaseng e le nngwe, mo batsadi ba gagwe ba neng ba dira, ka bophelo botlhe ba gagwe ka ntlha ya kutlwano gare ga ene le modirisi wa gagwe, yo a mo thusitseng go reka polase ka 2012.

Polase ya Swartlaagte e reketswe Edwin ke Lefapha la Tlhabololo ya Magae le Sokololo ya Naga ka go dirisa PLAS mo go Frikkie Rautenbach. Frikkie gape o file Edwin terekere le didirisa mme a mo thusa ka ditokelelo. Kutlwano e ne e le gore Edwin o tlaa busetsa tlhohlwa ya dilo tse jaaka nako e ntse e tswela ka dingwaga.

Ka maswabi, Frikkie o tlhokofetse ka 2014 mme didirisa tsothe tse Edwin a neng a di dirisa di ne di tshwanetse go boela boswa. Edwin o ne a setse a se na pelo, a se na didirisa mme le madi a go reka ditokelelo.

Ka 2014 o ntse tokololo ya Lenaneo la Tlhabololo la Balemirui la Grain SA mme a ipapisa le Setlhopho sa Dithutiso sa Bothaville e bile a tsena matsatsi a balemirui le dithutiso tse di farologaneng. Grain SA ya mo kopantsha le tiriso ya dithekenoloji tse dintshwa, ba ba reki-sang ditokelelo le ba b aka mo adimeng madi – ga fetola bophelo ba gagwe. Le fa go ne go le leuba ka 2015/2016, Edwin o ne a kgona go bona ditono tse di ka nnang 250 tsa mmidi mme le ka tuelo ya inšorensa ka ntlha ya tshenyego e e tlisitseng ke sefako o amogetse mo go ka nnang milione ya diranata ka ngogola.

Ka thuso ya Grain SA, Edwin o itheketsa bene e ntshwa ya Isuzu – ke koloi e ntshwa ya ntlha e monna wa dingwaga tse 75 yo a kgonang go e reka!

Ba ba ka nnang Batlhophiwa ba Kgwebo



Tebalo Elias Makubo – Foreisetata

Tebalo ke monna yo o botlhale, yo o kgonang go dira thata, yo o amogetseng dithuto e bile o dirile mo tikologong ya bokgwebo pele a ipapisa le rraagwe ka 2010 mo polaseng ya losika la gagwe gaufi le Kestell.

O ne a ntse a batla go nna molemirui mme go fetile dingwaga tse pedi rraagwe a ntse a mo ruta tsothe tse a di itseng ka ntlha ya bolemirui. Rraagwe gape o mo rutile go sala ditoro tsa gagwe morago mme ka 2013 a hira kgaolo ya naga mo go rraagwe e

bile a tsaya tiro ya go lema dijjwala tse di ka rekisiwang jaaka di robiwa.

Ka 2012 Tebalo o ipapisitse le Lenaneo la Tlhabololo ya Balemirui ya Grain SA mme a nna tokololo ya Setlhopho sa Dithutiso sa Kestell. Monna yo o tswetse pele ka go makatsa ka tshetsetso ya lesomo la Grain SA. O uma mmidi, korong, disoya le dinawa mo kgaolong ya naga e e ka nnang diheketara tse 130 mme o okeditse bokana ba kumo e a e bonang gigolo go tloga a nna tokololo.

Tebalo ke motho yo a ratang koketso ya ditiragalo ka ntlha ya bokamoso ba bolemirui mo Afikaborwa mme o bona bolemirui e le mokgwa wa go fokotsa mathata mo lefatsheng la rona. O thagisa gore batho ba ba tshwerweng ke tlaa ba tlaa tlhola ba le batho ba ba tshwerweng ke tlaa.



Tshediso Daniel Maqala – Foreisetata

Ka dingwaga tse tharo tse di fetileng Tshediso, yo a leng dingwaga tse 55, o kgonne go tswela pele go tloga a le molemirui yo a lekang go ijwalela dijo mo kgaolong ya diheketara tse 615, go fithelela a kgona go bona go feta ditono tse 500 ka ngwaga o.

O tshotswe, e bile o goletse mo polaseng mme a nna modiredi wa mo polaseng yona e fa rraagwe a tlhokafala fa sa le dingwaga tse 15. Go Tshediso bolemirui bo ne bo bapisiwa le mathata mme jalo a leka go tswela pele mo bophelong ka go bona

laisense ya go kgweetsa ya gagwe a le mokgweetsi wa dikoloi.

O ne antes a lora go bona naga e e leng ya gagwe mme ka 2005 ga nna bonnete go ena fa a reka polase e e leng diheketara tse 197 ya Kosmos, mo kgaolong ya Ficksburg. Gape a bona diheketara tse 326 tsa polase ya Die Hoop ka go thusiwa ke lenaneo la PLAS mme jaanong o kgona go dirisa diheketara tse di ka nnang 200 tse di ka lengwang.

Go dirisa bolemirui ga go a tlela Tshediso bonolo fela, ka a neng a sokola tota dingwaga tse dintsi pele a ipapisa le Grain SA ka 2014. A simolola go tsena dithutho tsa dithutiso le matsatsi a bolemirui mme a amogela kitso e ntshwa e e neng e mo thusa go bona ditono tse ka nnang 168 tsa korong ka 2017. Tshediso o na le maemo a go amogela sertifikate go nna tokololo ya Sethlopha sa Ditono tse 250 kgotsa fa gongwe tse 500 ka ngwaga o.



Paul Mvelekwani Malindi – Foreisetata

Bolemirui bo ne bo ntse bo le mading a Paul e le monna wa dingwaga tse 48. O goletse mo polaseng mo batsadi ba gagwe ba neng ba le badiredi ba mo polaseng mme ka 2012 o bone phatlha ya go boela polaseng. O kgonne go reka diheketara tse 441 tsa polase ya Dankbaar, gaufi le Edenville, ka thuso ya PLAS.

Ka yona ngwaga eo, Paul o ikopantshitse le Lenaneo la Tlhabololo ya Bolemirui ya Grain SA mme o ne a le tokololo e nngwe ya mathomo

ya Sethlopha sa Dithutiso sa Edenville. Paul o tsere dingwaga tse di rileng go lemoga gore ga go na kgaoganyo mo tiragalong ya bolemirui mme dilo tsotlhe di tlhoka go dirwa ka tshwanno kgotsa o ka nna wa tlogela.

Jaanong o hira naga ya mafulo go fudisa dikgomo tsa gagwe mme o jwala diheketara tse 140 ka disonobolomo le tse 180 ka mmidi setlha se. Go tsena ga dithutiso tsa sethlopha sa dithutiso le go tsena matsatsi a bolemirui go mo fetotse gagolo. Paul jaanong o dirisa kitso e a e amogetseng mme o ikogomosa ka go nna molemirui yo o kgonang.

Ntlha ya mathomo ya bophelo ba Paul ke go tlhokomela ba legae la gagwe le badiredi ba gagwe. O dumela makgono a gagwe le bokamoso ba bolemirui mo Afrikaborwa.



Khovhogo Philemon Manenzhe – Foreisetata

Le fa Philemon a tshotswe mo motseng wa Sasolburg, o goletse kwa Venda, mo a neng a nna le bagolo ba gagwe. Ke gona fa mo a rutilweng gore fa o dira thata mo nageng mme Modimo a naya pula, o ka kgona go phela monate ka go dirisa bolemirui.

O phasitse Seemo sa 12 mme a boela kwa Sasolburg go fetsa dithuto tsa gagwe tsa go gola. Morago ga go dira kwa Sasol dingwaga tse di rileng, Philemon o simolotse ditragalo tsa gagwe tsa go aga le go rulaganya meago. Monna yo, a ntse a na le kgono ya go dirisa bokgwebo, o ne a tlhola a dirisa madi a gagwe a a

salang go reka le go rekisa dikgomo. O ne a ntse a itse gore, ka nako e nngwe, fa gongwe, o tlaa nna le naga e e leng ya gagwe mo a ka kgonang go jwala tlhaka ya gagwe le mo a ka fudisang dikgomo tsa gagwe.

Ka 2010 toro ya Philemon e nnile bonnete mme o ne a duelwa ka go amogela polase ya Birmingham mo kgaolong ya kwa Sasolburg. Polase e ke ya diheketara tse 665 mme tse di ka lengwang ke tse 360 tse di leng pila. Ka gore o ne a se na didiriswa le kitso e nnye fela, o simolotse ka go hirela masimo a gagwe go moagisani, Louis Claassen.

Ka 2014 Grain SA e simolotse sethlopha sa dithutiso kwa Deneysville mme Philemon a ikopantsha. Ka a le tokololo e e dirang, a tsena dithutiso le matsatsi a bolemirui. Jalo, o kgonne ka ngwaga o, go ijwalela diheketara tse 120 ka mmidi mme tlhaka e bonega e le pila tota.

Barulaganyi

GRAIN SA: BLOEMFONTEIN

Suite 3, Private Bag X11, Brandhof, 9324
7 Collins Street, Arboretum
Bloemfontein
► 08600 47246 ◀
► Fax: 051 430 7574 ◀ www.grainsa.co.za

MOETEDIPELE WA BARULAGANYI

Jane McPherson

► 082 854 7171 ◀ jane@grainsa.co.za

MORULAGANYI WA PHATLATSO

Liana Stroebe

► 084 264 1422 ◀ liana@grainsa.co.za

KAKANYETSO, THULAGANYO LE KGATISO

Infoworks

► 018 468 2716 ◀ www.infoworks.biz



PULA/IMVULA E TENG KA DIPUO TSE DI LATELANG:

Setswana,

Seaforekanse, Seesemane, Sesotho,
Sesotho sa Leboa, Sesulu le Sethosa.

Lenaneo la Tlhabololo ya Balemirui ya Batlhaka ya Afrikaborwa

MOKOPANYI WA TLHABOLOLO

Johan Kriel

Foreisetata (Ladybrand)
► 079 497 4294 ◀ johank@grainsa.co.za
► Kantoro: 051 924 1099 ◀ Dimakatso Nyambose

Jerry Mthomboti

Mpumalanga (Mbombela)
► 084 604 0549 ◀ jerry@grainsa.co.za
► Kantoro: 013 755 4575 ◀ Nonhlanhla Sithole

Jurie Mentz

Mpumalanga/KwaZulu-Natal (Louwsburg)
► 082 354 5749 ◀ jurie@grainsa.co.za
► Kantoro: 034 907 5040 ◀ Sydwell Nkosi

Graeme Engelbrecht

KwaZulu-Natal (Louwsburg)
► 082 650 9315 ◀ graeme@grainsa.co.za
► Kantoro: 012 816 8069 ◀ Sydwell Nkosi

Luke Collier

Kapabotlhaba (Kokstad)
► 083 730 9408 ◀ goshenfarming@gmail.com
► Kantoro: 039 727 5749 ◀ Luthando Diko

Liana Stroebe

Kapabophirima (Paarl)
► 084 264 1422 ◀ liana@grainsa.co.za
► Kantoro: 012 816 8057 ◀ Hailey Ehrenreich

Du Toit van der Westhuizen

North West (Lichtenburg)
► 082 877 6749 ◀ dutoit@grainsa.co.za
► Kantoro: 012 816 8038 ◀ Lebo Mogatlanyane

Sinelizwi Fakade

Mthatha
► 071 519 4192 ◀ sinelizwifakade@grainsa.co.za
► Kantoro: 012 816 8077 ◀ Cwayita Mpotyi

Articles written by independent writers
are the views of the writer and not of Grain SA.

Itse batlhophiwa ba rona ba 2017 (Karolo ya 2) – Ba ba ka nnang Batlhophiwa ba Kgwebo



Doki Isaac Moleleki – Bokonebophirima

Gape o hira diheketara tse 416 tse di ka lengwang tsa polase ya Klippan. Pele o ne a sa kgone ka dijawalwa tsa gagwe ka ntlha ya bothokwa ba kitso le komelelo. Moa-dimelamadi wa Isaac o mo kopantsitse le Grain SA ngogola mme a ikopantsa ka bonako e bile a nna tokololo ya Setlhophsa sa Dithutiso sa Vrischgewacht 28.

O jwetse diheketara tse 106 tsa masimo a a sa nosetsweng ka mmidi mme le disono-bolomo mo diheketareng tse 310 ngwaga o mme fa pula e ka na sentle Isaac o lebeletse pele go bona thobo e e phalang tsa pele. Monna yo o lora go nna molemirui yo o kgonang wa kgwebo le go naya bana ba gagwe thuto e e siameng.

Isaac, yo a leng dingwaga tse 46, o tshotswe e bile o goletse mo motseng wa Mogosane gaufi le Mahikeng. O amogetse lorato la gagwe go bolemirui mo go rraagwemogolo, e le ene motho yo a mo tlhotheletseng go dirisa bolemirui.



Ruben Mothlabane – Foreisetata

Bultfontein. Ka ntlha ya go tlhoka madi a go reka ditokelelo, go se nne le tshetsetso le didiriswa go gateletse Ruben go ipapisa le molemirui yo mongwe le go hirisa kgaolo e nngwe ya polase ya gagwe ka tuelo ya kgaolo ya thobo e e setilweng.

Jaka a neng a ntse a oketsa kgono le kitso ya gagwe, leano la gagwe ke go busetsa polase ya gagwe go ena jaaka a ka kgona go e dirisa. Fela ka bokamoso bo latelang, Ruben o tlhomamisa go ijwalela tlhaka ya gagwe le go dira gore polase ya gagwe e nne le kgono ya go itshegetsatshe, go busetsa tšhelete e e lekaneng le go supa poelo go nna kgwebo e e kgonang.

Ruben o ntse a le tokololo ya Grain SA go tloga 2012 mme o ntse a tsena dikopano tsa dithutiso tsa kgwedi tsa Setlhophsa sa Dithutiso sa Bultfontein. O tsene e bile o kgonne go phasa dithutiso tse dintsi mme o tlaa nna, fela ka bonako kgotsa morago ga nakonyana, molemiruikgwebo yo o kgonang.

Ruben o ne a dira mo polaseng ya ba lesika la gagwe morago ga go phasa Seemo sa 12 le go bona sethifikaitse ya Bolaodi ba Bokgwebo. O ithutile tsotlhe tse ba lesika la gagwe ba mo se rutileng me a nna a dira dingwaga tse di riling, a ntse a batla polase e a ka e itekelang.

Ka 2011, ka thuso ya PLAS, a kopa go reka polase ya Kalkpan mo kgaolong ya

Batlhophiwa ba ga ba tseiwe ka
tatelano e e rileng.

Athikele e kwadilwe ke Hanlie du Plessis,
Mokwadi. Fa o batla kitso gape, o ka romela
emeile go hanlieduplessis@telkomsa.net.

THIS PUBLICATION IS
MADE POSSIBLE BY THE
CONTRIBUTION OF
THE MAIZE TRUST