

PULA IMVULA

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Go tlhola o leba dijwalwa tsa gago go boloka madi

FA TIRO YA GO JWALA E FETILE GO NA LE MAIKUTLO A BOITISO MME BALEMIRUI GANTSİ BA SALA BA LAPISITSE KE TIRO YA GO TSWELELA DIAWARA LE DIAWARA GO SE NA NAKO YA GO IKHUTSA. GO RAE-LA GO NNA FATSHE GO IKHUTSA, GO KGOTSOFALA GORE TIRO E DIRILWE – MME GA GO A NNA JALO.

Go tswelela go tshegetsa dijwalwa go otlooga ka setlha sa go mela sothe go ka nna kgwethlo mme jalo go botlhokwa go nna le leano le le tlhamaletseng la go dirisiwa.

Go tila tirego ya ‘bolaodi ka lesenene’ ka nako e nngwe le e nngwe ya go mela ga dijwalwa:

- Nna o le teng.
- Nna o tlhotlhelletswe.
- Nna o tlhokomela.

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- Nna o na le kitso.
- Nna o le tlhaga.
- Nna o na le phisego.

Go bothhokwa go tlhola o **etela ka kelotlhoko** kwa masimong a gago. Sekaseka masimo a gago ka tlhokomelo le mokgwa o o rileng. O ka rulaganya tsela ya go tsamaya le go ema ka beke le beke mo masimong a gago go sekaseka tswelelo le boitekanelo ba dimela. Go feta ka bonako



Go tlholo o leba dijwalwa tsa gago...

ka bene o ntse o lebeletse dimela ga go a siama, ga o teng mo tshimong. Ema, fologa mme **tlhatlhoba dimela mo masimong**. Tsamaya mo dime leng, mme obama go sekaseka mmu, medi ya dimela mme tota le matlhare ka kelotlhoko. Tlhatlhoba semela ka go iketla go leka go bona ditshupetso tsa di ka nnang teng tsa malwetse kgotse tsa disenyi tse dingwe tse di sa batliweng.

O itse jang gore o batla go bona eng? **Nna le kitso**. Bua le basupetsatsela, ditswerere le baagisani ba gago. Buisa sengwe le sengwe se se kwadilweng mabapi le dikgato tsa go mela tsa semela se se melang; ithute tsotlhe mabapi le mefero, disenyi le maroborobo mo kgaolong e o leng mo go yona.

Fa o kgona go nna le kitso e e lekaneng mabapi le dithaselgo tse go dijwalwa tsa gago, o tlhoka go **itlamela ka kitso** ya go di laola. O tlhoka go itse gore ke ka dikgato dife tsa go mela tsa dimela tsa gago tse di ka simololang go di thasela, gore o itse gore o simolole go laola bothata leng.

Nthla ya go Iwantsha matahat ke: **Nna o le tlhaga mme Iwantsha bothata bo bongwe le bo bongwe jaaka bo tlhagelela**. Go bothokwa go laola nako e o e dirisang o ntse o na le kitso. Gape go botlhokwa go reme lela kelotlhoko ya gago go Iwantsha bothata ka tshwanno mme le go fetsa tiro gore tlhaselo e go dijwalwa tsa gago e laolwe ka mokgwa o o rileng jaaka o ka kgona.

Go nna tlhaga go raya gore o baakantse ebile o thomamisitse didi-
riswa tsa gago tse o tlaa di tlhokang go laola mathata jaaka didiriswa tsa
go gasetsa dibolayadisenyi. Ke go re o ithutile go seta sediriswa sa go
gasetsa go nna le kgasetso e e tshwanetseng ka marothodi a dikhemikale
a a lekaneng o ntse o dirisa diaparotshireletso tse di tshwanetseng go
dirisiwa ke badiredi ba gago.

Gakologelwa gore o tlhoka go dirisa metsi a a phepa mo ditankeng
tsa didiriswa tsa go gasetsa tsa gago mme o tshwanetseng go tlhokomela
ka kelotlhoko gore o tshwanetseng go gasetsa kgasetso e ka na kang – fa o
sa gasetse kgasetso ka bokana bo bo supiwang o ka tlhaselwa ke mathata
a a maswe tota! Go gasetsa ka bokana bo bo tshwanang mo dime leng
tsotlhe go botlhokwa tota, o tshwanetseng go itse gore peo e o e dirisang e
kgona Roundup kgotsa nnyaa – dijwalwa tse dintsi go feta di bolaiwe fa
go dirisiwa Roundup mo dime leng tse di leng tsa mofuta wa go se kgone
Roundup. Tsotlhe tse di ka thibelwa.

GO LAOLA LE GO TLHOKOMELA DIJWALWA TSA GAGO

Moano, 'Go thibela go botoka go go fodisa', ke moano o o tshwanetseng
go phela ka ona. Le gale, dilo di direga ka mokgwa o re sa kgoneng go
di laela, e le sekao, Dibokwana tsa Letlhafula tse di bonweng mo Aforikaborwa
la ntlha ka 2016. Balemirui ba ba kgoneng go laola tlhaselo eo ka
kgono e ne e le bao **ba ba neng ba le tlhaga ba ntse ba tlhokomela masi-
mo a bona** mme ba bona tlhaselo ka bonako pele e simolola go senya.

Go tlholo o tlhokomela ke ntlha e e bothokwa go bona tlhaselo e e ka
go welang. Tota le fa tsotlhe di bonega di siame ebile di na le boitekanelo,
tswelela go tlhokomela gape le gape ka gore mathata a tlhasela ka bona-
ko. Re ne re tsamaya ke bene mo tshimong gaufi le matlo a rona maloba.
Gakologelwa kgakgamalo ya rona fa re bona tshenyego mabapi le sefako
mo dime leng tse dišwa – ga re a itse gore pula e ne e na ka sefako! Ra tlisa
setswerere ka bonako go re bolela gore go senyegile ga kana kang, mme
ka namolo ra lemoga gore tshenyego ga e lekana go re swabisa.

Nthla e e bothokwa ya go elwa tlhoko fa re tlhaselwa ke mathata,
letshogo le tlhakathkanyo ga di tlose mathata. Mo matsatsing a segompieno
go na le dintlha tsa thuso tse di farologaneng tse balemirui
ba ka di dirisang:

- Supa bothata ka nepo. Fa o belaela, bogolo bitsa dinatla tse o solo-
lang gore di ka go thusang. Ka thekenoloji ya segompieno le kgono
ya go dirisa inthanete go ntse go go nna botoka go supa malwetse le
disenyi, jalo le jalo.

MAFOKO A GA...

Liana Stroebel

GO THATA GO DUMELA GORE NGWAGA O O SETSE O TSWELELETSE KA BOKANA KANG FA RE IKUTLWA EKETE KERESEMOSE E NE E LE MAABANE FELA! O KA RE NAKO E ELELA GO GAISA JAAKA E NE E ELELA PELE. DIT-SWAMORAGO TSA MAANO A MALOBA, TSA DITIRAGALO LE TSA GO SWETSA DI GOROGA KA BONAKO GO FETA MME RE BONA KA BONAKO GORE RE FOSITSE FA KAE KGOTSA GA RE A ELA TLHOKO GO TSENELELA MO KAE.

Fa re nagana dinthla tse, go bothokwa thata go reme lela kelotlhoko ya rona go ya le ditswamorago tsa kwa mafelelong a ditiragalo tsa rona fa re loga maano le fa re dira sengwe jaanong. Fa o leka go tsietsa gannye jaanong, go tlaa boela go wena ka bonako kwa ntle ga gore o lemoge.

Jaaka o itse, mo kgwebong ya bolemirui, ga re kgone gatelela bothokwa ba go dira tse di tshwanetseng go dirwa ka nako e e rileng gagolo go feta. Go bothokwa thata go tlhaloganya sentle go tlhomamisa ditselanako tsa go dira. E le sekao, go boela morago go tloga letlha la go jwala dijwalwa. Go botlhokwa go tlhoma letlha le lengwe le le lengwe ka tlhomamiso go supa gore go tlaa dirwa eng le eng ka letlha le le rileng – go tloga go gasetsa kalaka go fitlha go baakanya didiriswa, go reka ditokelelo, jalo le jalo.

Ka go dirisa kitso, o tlaa ithuta go kgona go swetsa mabapi le dintlha tse di boima ka bonako – e le sekao, fa o sa kgone go reka ditokelelo tsa go lekana, bogolo fokotsa palo ya dihekетara tse o batlang go di dirisa mme romelela bokana ba ditokelelo tse di lekaneng, kwa ntle ga go dirisa ditokelelo ka go fokotsa bokana bo bo tlhokiwang ka heketara. Gape, fa gongwe, fa o amogela thuso mabapi le tlhotlhwa ya ditokelelo mme tsa goroga morago ga nako, swetsa ka bonako go se jwale kgotsa go fokotsa bokana ba naga e o e dirisang, mme wa boloka ditokelelo go kgona go jwala ka nako e e tshwanetseng ka setlha se se latelang.

Go kgona go tswelela pele, re tshwanetseng go lemoga dithaselgo tsa rona ka setlha tsotlhe jaaka se tswelela. Nna le boikanyo mme ik-gatelele thata. Sekaseka mme o lemoge dilo tse o tlaa di dirang ka go farologana ebile dirisa ditshupetso go tokafatsa ditiragalo tsa gago ka ngwaga o o latelang. Ka dinako tsotlhe se busetse phoso gape le gape.

A pula e le nele ka setlha se se latelang mme nna le itse le ntse le dira!



Mmidi o mošwa o o tseneletsweng ke mofero wa kelobere o o tlhokang go laolwa ka bonako.

- Atlhola bokana ba tshenyego le go mokela ga disenyi. Fa o kgona go tlhokomela dijwalwa tsa gago ka tshwanno o ka kgona go bona disenyi pele di senya go feta mme di le mo maemong a gore o sa kgone go di tlosa.
- Rulaganya leano la go dirisiwa. Gantsi go na le sengwe jaaka khemikale se se ka dirisiwang go tlosa sesenyi, mme go dirisa se se tshwanetseng go tlhogewa gagolo tota. Buisana le moemedi wa go rekisa dikhemikale wa gago go go naya ditshupetsotsela mme netefatsa gore o dirise lenaneo le ene a le go nayang ka kelotlhoko.
- Tlhomamisa se o batlang go se kgona, ke ntlha e e botlhokwa ya ntlha. Gakologelwa gore o batla go fokotsa tlhotlhwa ya tatlhego e e



Tshimo yona eo morago ga beke e le nngwe fa go gasetswa sebolayamofero.

ka diregang fa o sa laole bothata boo. Fa dijwalwa tsa gago di le telele go feta gore o se kgone go tsena ka terekere e e gogang sediriswa sa go gasetswa mo tshimong, o tlaa tlhoka go lebelela mekgwa e mengwe jaaka go dirisa sediriswa sa go gasetswa se se tsholetsweng godimo kgotsa fa gongwe o ka leka go dirisa sefofane go dira tiro e. Bothata ke gore tiro e e ka ja madi a mantsintsi mme o tshwanetse go nagana tshenyego ka bogotlh e e ka nnang teng le tatlhego e o ka e bonang fa o ka tlogela sesenyi gore se tswelele fa se sa tloswe.

Nna o na le phisego ya go kgona ka setlha sotlhe. Ka dinako tsotlhe go tshwanetse go nna monate go tsamaya mo masimong a gago o ntse o tlhokomela dimela tsa gago. A pula e le nele mo ngwageng o mošwa jaaka o tswelela! ■

KGAOLO YA 2 Tlhophpha tsela YA GO REKISA KUMO ya gago

BAUMI BA TSHWANETSE GO GAKOLOGELWA GORE GO LENANEKO LA GO REKISA KA KGONO LE TLHOKA GO IKGOLEGA MABAPI LE LEANO LA THEKISO LE LE RILENG, LE LE RULGANTSWENG GO YA LE BOTLHOKWA BA MOLEMIRUI MONGWE LE MONGWE. GO BOTLHOKWA GAGOLO GO IPA-PISA LE DINTLHA TSOTLHE TSA THEKISO, KE GO RE GO KGOBOKANYA KITSO MABAPI LE THEKISO, GO SEKASEKA TSAMAO YA DIMAKHETE, GO TLHOMAMISA LEANO LA THEKISO MME LE GO LE DIRISA.

Mo kgaolong ya 1 ya athikele e, re buile ka ditsela tse di tlhamaletseng tsa thekiso tse di ka dirisiwang ke morekisi. Re ne re lebelesetse makhete ya madi ya bojaanong. Mo kgaolong ena re tlaa lebelela makhete ya madi ya bokamoso.

DIKONTERAKATA TSA MADI A BOKAMOSO TSA SAFEX

Mokgwa o wa go rekisa o tsamaelana le kgoraletso (ditlhophpho kgotsa madi ka bokamoso). **Kgoraletso** ke sediriswa se se dirisiwang go fokotsa kgotsa go eledisa diphatsa mabapi le tlhotlhwa.

Konteraka ya madi a bokamoso e rekarekisiwa mo Safex go folosa tlhaka ka nako ya bokamoso. Konteraka e supa kumo e e tlaa foloswang mme le maemo a ditumelano le melawana tse di tlaa dirisiwang ka nako ya pholoso.

Tlhophpho ke konteraka e e supang gore mongwe wa konteraka o na le thata, e seng tshwanelo, go reka kgotsa go rekisa mmidi ka tlhotlhwa e e tlhomiwang pele ga go folosa kumo ka nako e nngwe le e nngwe gare ga nako e e supiwang ka konteraka. Konteraka kgotsa tlhophpho e, e naya moreki thata mme e seng tshwanelo go gatelela konteraka, fa morekisi ene a na le tshwanelo go dira jaaka konteraka e supa fa mtswharakonteraka a rata go e dirisa.

Go na le dintlha tse di farologaneng tsa tlhophpho, go baya le go bitsa:

- Tlhophpho ya go baya e naya moreki wa go baya thata ya go rekisa tlhaka.
- Tlhophpho ya go bitsa e naya moreki wa go bitsa thata ya go reka kumo.

TLHOTLHWA YA GO REKISA KA SAFEX

Dikonteraka tsa madi a bokamoso di na le tsamaelana le go elela ga tšelete ya moumi. Go ya le konetraka ya madi a bokamoso, moreki

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1

Tshupetso e e supang makhete ya diphatlh.

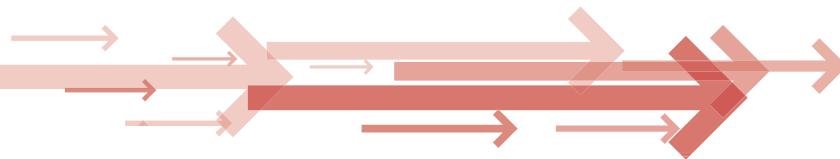


Motswedzi: Mark A. Ethlen

kgotsa morekisi o tshwanetse go duela madi a a tlhomiwang go ya le bokana ba tlhotlhwa mme a busiwa fa tiragalo ya thekiso e fela. Bokana ba madi a bo dirisiwa le fa go dirisiwa konteraka ya madi a bokamoso.

Fa maemo a tlhotlhwa ya konteraka ya madi a bokamoso a tswelela go fokotsa tlhotlhwa e wena o ka e amogelang, o tlaa tshwanela go lokela madi a a tlhomiwang go tshegetsa maemo a gago mo konterakeng. Fa tlhotlhwa e e dumetsweng mo konterakeng go supa maemo a gago e fokotsega go feta R20/tono, o tlaa tlhoka go lokela madi go duela madi a gare ga diawara tse 24. Ka dikonteraka tsa tlhophpho, o tlaa tshwanela go duela madi phokotsa; e seng madi a maemo a phethogo a a supiwang mo dikonterakeng tsa tlhophpho.

Fa moumi a kopantsha mekgwa e mebedi ya dikonteraka tsa madi a bokamoso le tsa kgotaletso, moreki wa kumo gantsi o duela ditšelete tse. O tlaa bo o le mo maemong a mo dintlha tsa bokana le tlhotlhwa di kopetswe. Tlhotlhwa ya go rekisa e akaretsa tuelo ya morekarekisi, tsalo ya madi, tlhotlhwa ya go thota le tlhotlhwa ya go tshwara. ■



TOGAMAANO PELE GA NAKO

ke motheo wa kgono

KA NAKO E YA NGWAGA BONTSI BA DITIRAGALO TSA GO UMA KUMO YA NAKO YA SELEMO DI DIRILWE. DIJWALWA JAANONG DI A MELA MME THOBO E TLAA LATELA. THWALO YA TIRO MO POLASENG E FOKOTSEGILE EBILE WENA, O LE MOLAODI, O TSHWANETSE GO LOGA MAANO A A KA DIRISWANG KA SETLHA SA GO UMA SE SE LATELANG.

Go loga maano a a ka dirisiwang ka setlha se se latelang go tshwanetse go simolola ka kgono e e supiwang ke tshimo e nngwe le e nngwe mme gape le gore go dirilwe eng ka setlha se se fetang, tse di tsa-maileng sentle le tse di fositeng. Tshimo e nngwe le e nngwe e tshwanetse go logelwa leano go ya le mofuta wa dijwalwa le kgono ya tshimo eo, mme gape go ya le mofuta wa dijwalwa tse di neng di jwetswe pele. Se lebale go tlhokomela tiriso ya dibolayamefero fa o ntse o loga maano.

Go botlhokwa go kgona go balabala gore go tlaa tlhokwa madi a makana kang go kgona go uma tlhaka ya ngwaga o o latelang. Ntlha e e botlhokwa thata ka gore madi atshwanetse go nna teng pele ga setlha sa go uma se simolola ka kgwedi ya Phukwi. Madi a tshwanetse go nna teng go dira ditiro tsa go sega mmu, go tsaya diteko tsa mmu le go lokela kalaka ka kgwedi ya Phukwi.

GO LOGA LEANO LA GO RULAGANYA TEKANYETSO YA MADI E E SIAMENG

Baumi ba bantsi ba tlaa re ga go kgonegwe go loga maano pele ga nako, mme baumi ba ba kgonang ba dira jalo ka ngwaga le ngwaga. Ba tlholo ba tsamaelana le nako mme ba bona kumo ka go lekana ebole gantsi ba bona poelo e e lekaneng.

Ba dira jang? Ka tlwaelo ba tlaa rulaganaya tekanyetso ya dijwalwa ka go akaretsa tsotlhe tse ba di tlhokang go uma tlhaka. Ba ba kgonang tota ba swetsa go dirisa mofuta ofe wa thekiso mme gape le dintlha tsa go fokotsa diphatsha le go laola sekoloto pele ga nako.

Go na le ditlhomamiso tse ba di dirisang go balabala tlhotlhwa ya ditokelelo tse ba di dirisang. Go botoka go tlhomamisa tlhotlhwa ya peo ya mmidi. Moumi a ka ikopantsha le morekisi wa peo wa gagwe mme ka thuso ya gagwe a ka supa mofuta wa peo, palo ya dimela ka heketara mme le tlhotlhwa ya peo.

Tlhotlhwa ya monontsha

Maemo a tlhotlhwa ya monontsha a boima go balabalwa, mme a ka kgonwa. Thulaganyo ya monontsha ya Aforikaborwa (The Fertiliser association of Southern Africa (FERTASA) ka nako le nako e gatisa ditlhakapalo tse di supang tlosa ya kotlo ya dijwalwa tse di farolo-



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ganeng. Ditlhakapalo tse di supang tlosa ya kotlo tsa mmidi tsa kg/tono di supiwa mo Lenaneo la 1.

Ka kitso e, buisana le morekisi wa monontsha wa gago mme balabala bokana ba monontsha bo o tlaa bo tlhokang mme gape le tlhotlhwa ya teng. Diteko tsa mmu tse o di tseileng di ka nna sesupetso se se siameng mme go balabala ka go lekana go ka dirwa ka tshwanno. Mabapi le tiriso ya kalaka, molawana o o rileng ke go dirisa tono e le 1 ka heketara ka ngwaga. Tlhomamisa ntlha e mabapi le morekisi wa monontsha wa gago.

Dibolayamefero le dibolayadisenyi

Lenaneo la gago la tiriso ya dibolayamefero le dibolayadisenyi le tlao farolagana go ya le mofuta wa mmidi o o jwalang. Fa o jwala mofuta o o kgonang Roundup, lenaneo le tlao farolagana le la fa o jwala mofuta o o sa e kgoneng. Fa o dumetse mofuta o o tlao dirisiwang, kopa morekisi wa dibolayamefero wa gago go etela masimo a gago mme ka kitso e a go e nayang swetsa gore o tlao dirisa lenaneo lefe la tiriso ya dibolayamefero le dibolayadisenyi. Ka thuso ya gagwe o tlao kgona go supa gore tlhotlhwa ya lenaneo la tiriso ya dibolayamefero le dibolayadisenyi e tlao nna kana kang.

Tisele le tlhokomelo

Tlhotlhwa ya tisele le ya tlhokomelo e ka balabalwa ka bonnete. Mabapi le tlwaelo ya go dirisa mokgwa wa go lema masimo o o tlhamaletseng dilitara tse 75 di tlao dirisiwa. Fa baumi ba na le ditlhakapalo tsa tiriso ya tisele tsa bona di dirise. Dirisa tlhotlhwa ya mafura jaaka e ntse mme o ka se fose gagolo. Ka dinako tsotlhe go na le tsamaelano ya tlhotlhwa ya tisele le tlhotlhwa ya go tlhokomela didiriswa. Fa baumi ba dirisa tlhotlhwa ya mafura a ba a dirisang mme ba e oketsa ka 10% ba tlao nna gaufi le tlhotlhwa e ba e tlhokang go tlhokomela didiriswa tsa bona. Tlhotlhwa ya dilo tse dingwe jaaka kgoraletso, tiro ya dikonteraka, inshorense le ditshenyegelo tse dingwe le yona e tshwanetse go balabalwa.

Tlhotlhwa ya kumo ka bogotlh

Pharologanyo gare ga bokana ba tseno le tlhotlhwa ya ditshenyegelo ka go tlhamalala ke tlhotlhwa ya kumo ka bogotlh.

Lenaneo la 2 ke sekao sa tekanyetso ya dijwalwa tsa mmidi. Le naya khutshwafatso ya ditshenyegelo ka go tlhamalala. Balemirui ba ka dirisa sekao se go balabala ditshenyegelo tsotlhe tsa go uma mmidi le tlhotlhwa ya kumo ka bogotlh. Gakologelwa gore fa tlhotlhwa ya kumo ka bogotlh e supa tatlhego, phethogo ya gore tlhaka e ka supa poelo e e lekaneng e ka nna teng. Busetsa maemo a tshenyego mme fetola fa go tlhogewa.

1 *Ditlhakapalo tse di supang tlosa ya kotlo ya dimela mo mmidi ka kgono e e farologaneng go uma bokana bo bo rileng fa go logwa maano.*

Kotlo ya dimela	Ka tono	Ka ditono tse 4	Ka ditono tse 6
Naiterogene (N)	15 kg	60 kg	90 kg
Fosoforo (P)	3 kg	12 kg	18 kg
Potasiamo (K)	4 kg	16 kg	24 kg

TEKANYETSO YA TLHAKA TSHIMONG POELO MABAPI LE GO UMA GA TLHAKA		Diheketara tse di jwetsweng		Bokana ba thobo bo bo ka bonwang
Mofuta wa poelo		Bokana/ha	Tlhotalhwa/t	Poelo/ha
BOGOTLHE BA TSENO - TLHOTLHWA YA THEKISO				
TLHOTLHWA E E TLHAMALETSENG				
Selo sa tlhotlhwa				
Peo	Phuthelo	Tlhotalhwa/phuthelo	Bokana/ha (kg/tlhaka)	Tlhotalhwa/ha
Monontsha	Phuthelo	Tlhotalhwa/phuthelo	Bokana/ha (kg/litara)	Tlhotalhwa/ha
Kalaka	Phuthelo ka tono	Tlhotalhwa/t	t/ha	Tlhotalhwa/ha
Dibolayamefero	Phuthelo	Tlhotalhwa/phuthelo	Bokana/ha (kg/litara)	Tlhotalhwa/ha
Dibolayadisenyi	Phuthelo	Tlhotalhwa/phuthelo	Bokana/ha (kg/litara)	Tlhotalhwa/ha
Inshorene ya tokelelo	Bokana x tlhotlhwa	% ya tiriso	Tlhotalhwa ka % ya tseno	Tlhotalhwa/ha
Kgoraletso ya tlhotlhwa		Kgoraletso ya t/ha	Tlhotalhwa/t/kgoraletso	Tlhotalhwa/ha
Tiro ka konteraka		Tlhotalhwa/tiro	Nako go dira tiro	Tlhotalhwa/ha
Inshorene ya tlhaka	Bokana x tlhotlhwa	% ya tiriso	Tlhotalhwa ka % ya tseno	Tlhotalhwa/ha
Kgasetso ka sefofane		Tlhotalhwa/tiro	Tiro e diriliwe ga kae	Tlhotalhwa/ha
Tlhotalhwa ya go omisa		t/ha	Tlhotalhwa/t	Tlhotalhwa/ha
Tlhotalhwa ya thekiso		Ditono/ha	Tlhotalhwa/t	Tlhotalhwa/ha
Tiro ya badiredi-ka-letsatsi		Matsatsi a go dira/ha	Cost/day	Tlhotalhwa/ha
Phuthelo le Sediriswa	Phuthelo	Tlhotalhwa/phuthelo	Amount/ha (kg/litre)	Tlhotalhwa/ha
Thwalo		km/ha	Tlhotalhwa/km	Tlhotalhwa/ha
Mafura		Tlhotalhwa/litara	Litara/ha	Tlhotalhwa/ha
Tlhotalhwa ya mafura go dira go fitlha go jwala				
Tlhotalhwa ya mafura go jwala go fitlha thobo				
Tlhotalhwa ya mafura go roba le go rwalela				
Bogotlhe ba tlhotlhwa ya mafura				
Tsa go baakangwa			Tlhotalhwa/ha (d)	Bogotlhe ba tlhotlhwa
Tlhotalhwa ya go baakanya go dira go fitlha go jwala				
Tlhotalhwa ya go jwala go fitlha go roba				
Tlhotalhwa ya go baakanya ya go roba le go rwalela				
Bogotlhe ba tlhotlhwa ya go baakanya				
Bogotlhe ba tlhotlhwa e e tlhamaletseng				
Bogotlhe ba tlhotlhwa				



Tlhotalhwa ya tlhaka e e bonwang, gantsi ga se ya nnete

MAEMO A TLHOTLHWA YA TLHAKA LE YA TSA PEO-MAFURA A ITSISIWA KA BOPHARA GO BAUMI BOTLHE BA TLHAKA LE TSA PEO-MAFURA, MME BA AMOGELANG GAPE MAEMO A DITLHOTLHWA TSE DINGWE JAAKA YA MO POLASENG LE YA MO SILONG. GO BOLTHOKWA GO TLHALOGANYA MAEMO A DITLHOTLHWA TSE MME LE GO ITSE DIPHAROLOGANYO GARE GA DITLHOTLHWA TSE TOTA LE GO KGONA GO BALABALA TLHOTLHWA E WENA O KA E AMOGELANG FA O REKISA TLHAKA YA GAGO.

Tlhotalhwa ya ntlha e e abelwang ka letsatsi le letsatsi ke ya Safex ya mmidi kgotsa ya mefuta e mengwe ya dijwalwa e e tlhomiwang ka go farologana go ya le pholoso ka dikgwedi tse di farologaneng. Ka tlwaelo tlhotlhwa jaaka e le mo kgwedding ya bojaanong ke ya makhete ya letsatsi le letsatsi. Dikgwedi tse di latelang mo go ka foloswang mo go tsona, e le sekao, Motsheganong Phukwi Sedimonthole, e tlaa nna tlhotlhwa ya bokamoso.

Tlhotalhwa ya bobedi ke tlholthwa ya mo polaseng. Tlhotalhwa e ke tlhotlhwa e moumi a tlaa e amogelang mo polaseng. Tlhotalhwa ya boraro ke ya mo silong. Tlhotalhwa ya mo silong ke tlhotlhwa e e tlaa dirisiwang fa go rekisiwa tlhaka e e leng mo silong. Ka konteraka baumi, ka tlwaelo, ba tlaa amogela tlhotlhwa ya mo silong. Go na le pharologano e kgolo gare ga tlhotlhwa e e supiwang ke Safex le ya mo silong; mme tota le bokana ba madi a a tsenang mo bankeng.

1

Sekao sa mekgwa e e ka dirisiwang go balabala mefuta e e farologaneng ya go rekisa.

Mekgwa ya go rekisa	Thekisetso go bogwesobolemirui (R/t)	Tlhotalhwa ya fa go laiswa (R/t)
Tlhotalhwa Safex (PHUKWI 2021)	3 270	3 270
Go goga pharologano ya thwalo	233	233
Go goga moolwane wa moemedi	10	10
Tlhotalhwa ya mo polaseng	3 027	3 027
Go goga tlhotlhwa ya tiriso ya silo	57	0
Go goga tlhotlhwa ya thwalo go silo	10	50
Tlhotalhwa ya mo silong	2 960	2 977
Go goga tlhotlhwa ya go boloka e le @ R0,50/t/letsatsi	15	0
Tlhotalhwa ya tlhaka ya molemirui ya netto	2 945	2 977

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TLHOTLHWA YA SAFEX

Tlhotalhwa ya Safex ke tlhotlhwa ya makhete ya tlhaka e e foloswang mo Randfontein. Ke tlhotlhwa ya kumo e e kopantshweng mabapi le topo le neelo mme gape mabapi le topo le neelo jaaka e ka nnang.

Ka gore makhete ya tlhaka ya Aforikaborwa e ka romela tlhaka teng kgotsa ntle, topo le neelo mo lefatsheng ka bophara ya kumo e e rileng mabapi le maemo a kakanyo ya madi a a dirisiwang le tsona ke dintlha tse di kopantshwang go rulaganya tlhotlhwa ya Safex mo makheteng ya kumo mo Aforikaborwa.

Mola wa godimo kgotsa wa tlase wa tlhotlhwa ya kumo e e rileng ke tlhotlhwa ya tshupetsa ya thomeloteng le thomelontle. Ka gore tlhotlhwa ya Safex ke ya makhete e e bofolotswang ya kumo e e rileng jaaka e foloswa kwa Randfontein e dirisiwa e le motheo go tlhomamisa tlhotlhwa ya mo polaseng.

Ka tlwaelo tlhotlhwa ya Safex e dirisiwa mofago ga go goga tuelo ya thwalo le tuelo ya boemedi go bona tlhotlhwa ya tlhaka ya mo polaseng. Fa tlhaka e e rwalelwga go disilo go tlaa bonwa tuelo le tlhotlhwa mabapi le tsamaiso le go rwalelwga gape.

Ditlhopho tsa go rekisa

Baumi ba ka itlhoma go duela tlhotlhwa e e farologaneng ya go folosa le go laisa ya bakgwebi ba ba farologaneng ba ba dirang tiro eo. Gape ba ka itlhoma go duela tlhotlhwa ya go boloka tlhaka ka letsatsi le letsatsi. Bokana ba tlhotlhwa e e tshwanetseng go duelwa e farologana go ya le bakgwedi ba ba dirang tiro e mme baumi ba tshwanetse go itse le go tlhaloganya maemo a tuelo e. Dikgwedo tsa bolemirui tse dingwe di kopa tuelo ka letsatsi le letsatsi go fitlhelela nako e e rileng mme morago ga moo di tsaya madi ka ngwaga. Netefatsa gore tlhaka e bolokiwa nako e khutswane jaaka o ka kgona ka tuelo ya letsatsi le letsatsi. Bogolo feteletsa tlhaka ya gago go dikonteraka ka bonako.

Lenaneo la 1 ke sekao sa mekgwa e e ka dirisiwang go balabala tlhotlhwa e o e batlang mme le go tshwantsha tlhotlhwa e e ka bonwang fa go dirisiwa mefuta e e farologaneng ya go rekisa.

Ka go dirisa lenaneo la 1, e le sekao, balemirui ba ka sekaseka mekgwa e e farologaneng ya go rekisa. Baumi ba tshwanetse go amogela kitso ya kgaolo ya bona mabapi le thekiso mme ba tshwantshanye mekgwa ya thekiso e e farologaneng. ■

GO BUISANA KE NTLHANNGWE

ya lenaneo la rona



TLHABOLOLO YA BALEMIRUI E TSHEGETSWA KE PUISANO E E TLHAMALETSENG MME MO GRAIN SA RE DIRISA MEKGWA E E FAROLOGANENG YA GO TSWELELETSKA KITSO E E KA FETOLANG MAPHELO LE KGONO YA GO PHELA. MO DIKGATISONG TSA PELE RE NE RE LEBELETSE MEKGWA E E RILENG YA GO TSWELELETSKA KITSO JAAKA DITLHOPHA TSA DITHUTISO LE THUSO GO MOLEMIRUI KA BOENE. MO KGATISONG E RE TLAA LEBELELA KGATISO YA KITSO E LE MOKGWA WA GO TSWELELETSKA KITSO.

Lenaneo la tlhabololo ya balemirui la Grain SA le ruta, le tlhabolola, le fetletska kitso mme le tswelela go eteleta pele balemirui fa le ntse le aga dithulaganyo tsa go ba tshegetsa. Le fa ofisi ya tlhogo e le kwa Pretoria, re setse re gatile motlhala mo dikgaolong tsa go uma tlhaka jaaka Dundee, Kokstad, Lichtenburg, Louwsburg, Maclear, Mthatha, Nelspruit le Paarl.

Setlhophsa sa rona se rulagantswe ka go dirisa babokgwebi ba ba nang kitso e e tseneletseng ba ba buisanang le balemirui ka go dirisa puo ya bona mme ba na le phisego ya go tlhabolola balemirui go kgona go tswelela le go aga dikgwebo tsa bolemirui tse di kgonang. Re tlaa thusa molemi mongwe le mongwe yo o nang kgaolo ya naga e a ka e dirisang le kgono ya go adima madi, yo o batlang go medisa dijwalwa tse di nayang batho ba lelapa la gagwe dijko gotsa go aga kgwebo ya bolemirui.

DITIRAGALO TSA RONA

Go nnile dibeke tse di maswe tse di fetileng ka e ne e le nako ya go roba kumo ya balemirui ba ba jwetseng tlhaka e e robiwang ka selemo. Fa batho ba bangwe ba ne ba setse ba simolola go ikuhsa ka nako ya boikhutso, setlhophsa sa rona se ne se tswelela go dira go feta!

Ka nako ya 14 Sedimonthole 2020 go 15 Ferikong 2021 re tlhomile dikopano tse di ka nnang **46** tsa dithutiso mme ra etela dipolase tse di ka nnang **72** tsa balemirui bao ba ba amogelang thuso ka bongwe le bongwe

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setlha sena. Maikaelelo a rona ke go netefatsa gore balemirui ba nne le kgono ya go jwala dijwalwa ka tshwanno go bona bokana ba kumo bo bo lekaneng mme ra tlhokomela masimo mmogo le balemirui bao, re ntse re ba tshegetsa go laola mefero, go seta didiriswa tsa go gasetsa le go tlhokomela didiriswa tse di tlhokang tlhokomelo.

PULA IMVULA, KGATISO YA RONA YA NNTE

Go bonega go le gosele go le itsese gape ka makasini ya rona ya *Pula Imvula* fa o ntse o tshwere kgatiso ya yona mo diatleng tsa gago. A o itse gore makasini e ntle e ya mebalabala e simolotse e le lokwalakitsiso go balemirui ba ba tlhabololwang ba lenaneo la tlhabololo ya balemirui la Grain SA? Jaanong e gatiswa e le makasini e e phatshimang, e e romelwang go balemirui le ba ba dikgwebo tsa bolemirui mo lefatsheng la rona lotlhe, mme gape e ka bonwa ka go dirisa inthanete mo www.grainsa.co.za mo o ka tlhophang go bona athikele e le nngwe kgotsa makasini yothle.

Makasini e gatiswa ka dipuo tse tlhano – mme ka 2020 palo ya kgatiso ka kgwedi ka dipuo e ne e le:

Seesimane	Sesotho	Setswana	isiZulu	isiXhosa	Bogolhe ba dikgatiso
1 915	1 691	997	4 997	6 432	16 032

Dithhogwana tsa diathikele di tlhomwa go ya le dineo tse di amogelang. Re tshegetsa gagolo ke Maize Trust, OPOT, tle Winter Cereals Trust mme le ba dikgwebo tsa bolemirui ba ba ikgolegileng go tlhabololo mo kgaolong ya bolemirui.

HELPING FARMERS STAND AS TALL AND PROUD AS THEIR CROPS



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PULA/IMVULA E TENG KA DIPUO TSE DI LATELANG:

Setswana, Sesemane, Sesotho, Sezulu le Sethosa.

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



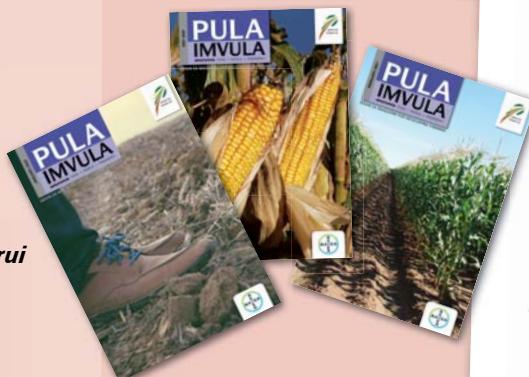
Farmer Development Programme

Go buisana ke ntlanngwe...

Dikarabo tsa balemirui bangwe ke tseo...

We are grateful to receive Pula Imvula catalogue because we are very much encouraged by this little book that has a lot of information that keep us going forward to reach our desire/goal of becoming a commercial farmer one day. The way we enjoying to read this book even other farmers ask for each and every month that when are the next one coming; because they are willing to know what's new on the upcoming one. So please keep on sending them to us because they are of a great help. It is developing us as farmer; guiding us on how to plant and protect of plants in a right way.

Thank you very much.



Pula Imvula

This book called Imvula Pula it helps us a lot because it teaches us how to follow the correct production practices and encourage us by showing us farmers who are participating on the GSA farmer of the year competition. I would like to take this opportunity to thank GSA for donating to us the maize Shellers. Another important point is that through Imvula we could see how other farmers in other areas of SA are doing their farming businesses we even see them having their produce which they have harvested on their arable lands.

Go reng makasini e le tsela e e bothhokwa thata ya go buisana?

Maikaelelo a tlhabololo ke go oketsa ditiriso mabapi le tlhabololo le go itsese, go tlhotlheletsa le go ruta ba ba kwa magaeng ba ba dirisang bolemirui go iphredisa. Go na le dikgoreletso tse dintsit mo tikologong ya tlhabololo mme tshono ya go fetelelsa kitso e e lekalekantshwe fa o ikana fela ka badiredi ba setlhophsa sa tlhabololo go ikopantsa le batho ba bantsi ba ba ka thuswang ka go amogela kitso e e tlhamaletseng le kgono ya go dira ka tshwanno. Dintla tsa go kopana le thwalo ke dintla tse di fokotsang kgono ya go tlhabololwa ya ba ba kwa magaeng gagolo, mme jalo **re setse re lemogile gore tlhabololo ya nnete kwa magaeng e tshwanetse go tshegetswa ke dintla tse di farolaganeng tsa go fetelelsa kitso tse di ka phatlhatsa kitso ka bophara**, jaaka seromamoa le go gatisa.

Re itumeletse kgatiso ya rona

- Makasini e a phatshima, e mebalabala, e remeleta kgaolo ya bolemirui mme e amogelwa ka boitumelo ka balemirui ba ba reng ba bona kitso e e fiwang e le e e ka tswelelwang go dirisiwa gape le gape, mme tota le gore e tlhalogangwe sentle.
- Gape ke kitso e o ka ikanang ka yona mme ke sediriswa se se bothhokwa mo didirisweng tsa setlhophsa sa tlhabololo le basupetsatsela ba ba e dirisang go tlota mo dikopanong tsa dithophpha tsa dithutiso kgotsa go supa balemirui kitso e e rileng.
- Diathikele di rulagangwa go naya balemi ba tlhaka ba ba sa tlhabololwang kitso e e tshwane-tseng. Dithlhogwana tse di dirisiwang di lebela dintla tse di farolaganeng tsa go uma le dimakhete tsa thekiso mme gape le kitso ka bophara e e ka kgonisang balemirui go dira tse ba di dirang ka tshwanno.
- Maikaelelo ke go netefatsa gore go dirwe ka kgono, go fetelelsa kitso e e ka dirisiwang ka mokgwa o o siameng mme gape le gore kitso e e ka amogelwa ka go tlhamalela go itswe ke bottle ba ba leng mo tikologong ya tlhabololo ya balemi ba tlhaka.
- Re gatelela tiriso ya mokgwa wa 'molemirui-go-molemirui' go fetelelsa kitso. Fa re ka ruta molemirui a le mongwe fela mme a fetelelsa kitso eo go balemirui ba le lesome, letloa la kitso le ntse le gola mme phetelesto ya kitso e tswelela go gola.

'Kitso le maranyane ke dintla tse di nang maemo a a botlhokwa go thusa balemirui kwa magaeng go kgona go tlhasela mathata a gompieno le a ka moso'. (European Commission, 2019). ■