



LAND O'LAKES
VENTURE₃₇



BUKA EA TATAISO EA LIKHOHO TSE RUHETSOENG NAMA LE MAHE (DPP)

LESOTHO

PHUPTJANE 2025





Tlhokomeliso

Tlhahiso ea buka ena ea tataiso e fumane botšehetsi bo matla bo nang le mofuthu ba batho ba Amerika ka leano la Lekala la Temo la Naha ea Amerika la Lijo Molemong oa Ntšetso-pele (Food for Progress). Litaba tse phuthetsoeng kahar'a buka ena ke boikarabello ba mobali, ka hona ha li emele ka kotloloho maikutlo a Lekala la Temo la Naha ea Amerika kapa a 'Muso oa United States.

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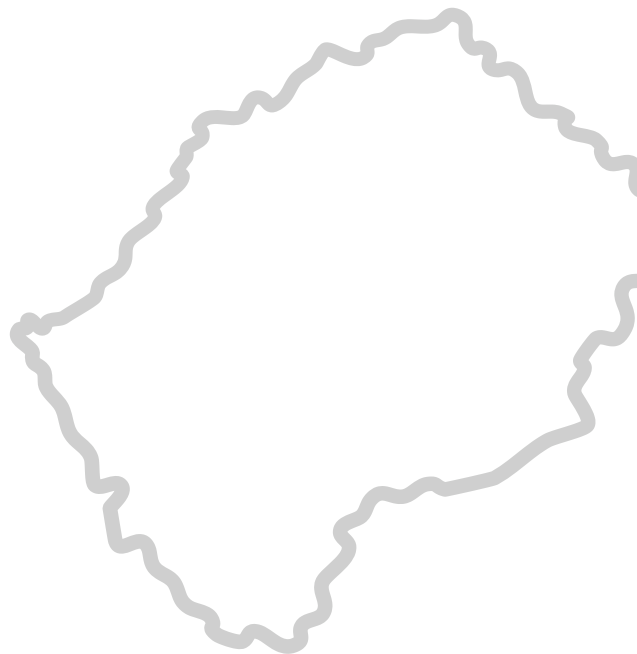
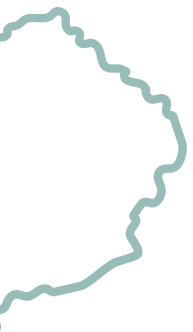
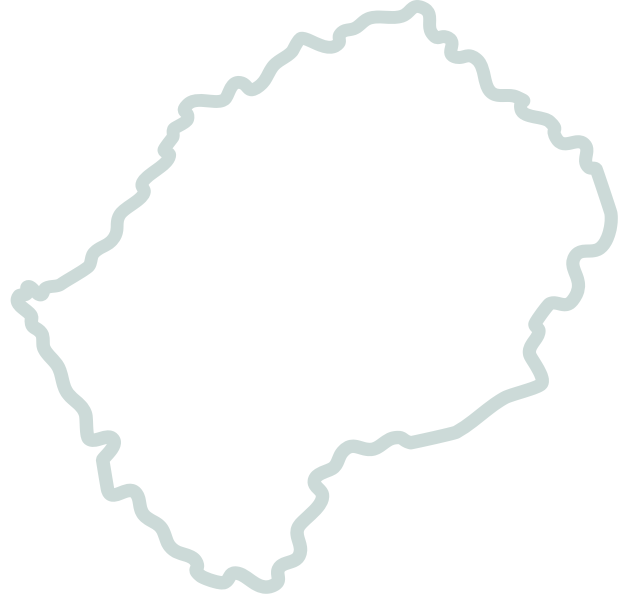
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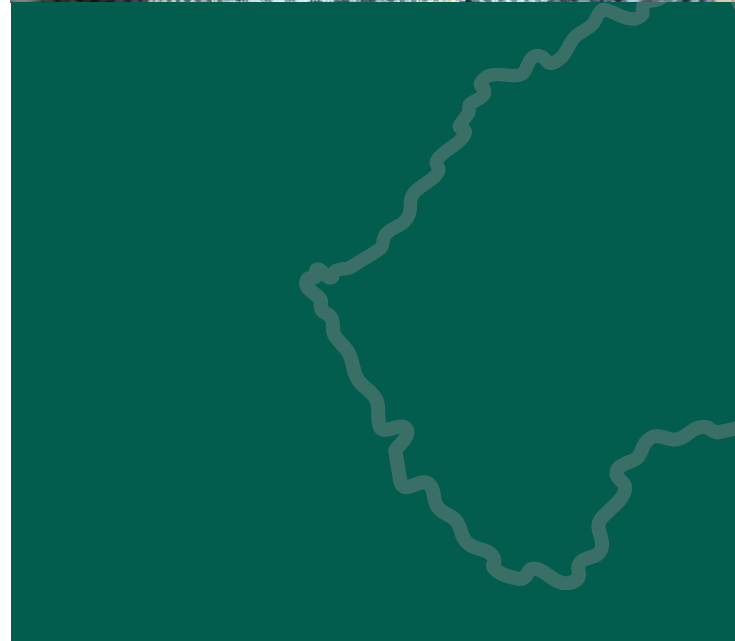
Selelekela

Tlhaloso e akaretsang ea morero oa 'STEPS'

Venture37 Ka ts'ebetso ea morero oa Lijo Molemong oa Nts'etso-pele (Food for Progress), Venture37 e thakhola leano la Lekala la Temo la Naha ea Amerika (USDA), le reretsoeng ho tlisa liphetoho tsa moshoelella likhoebong tsa likhoho, 'Sustainable Transformation of Enterprises in the Poultry Sector' (STEPS). Morero ona o reretsoe ho kenngoa ts'ebetsong literekeng tse supileng tsa naha ea Lesotho, e leng Maseru, Berea, Leribe, Butha-Buthe, Mafeteng, Mohale's Hoek le Quthing. Sepheo sa STEPS ke ho matlafatsa tlhahiso le tikoloho e lumellang khoebo le khoebisano ea likhoho ka hara naha ea Lesotho. Sena se fihleloa ka ho hlopha 'maraka oa likhoho ka mekhahlelo, ho hlophisa ba nkang karolo ho sa natsoe bokhoni boo ba leng ho bona, ho hokahanya bahlahisi le bareki le ho khola melemo ea litjeo tsa tlhahiso tse theoloang ka ho hlahisa ka lipalo tse phahameng, ho khotaletsa boqapi leruong le tlhahisong ea likhoho ka morero oa ho fana ka lisebelisoa le 'maraka ho bahlahisi le barui ba likhoho.

Venture 37

Land Land O'Lakes Venture37 (ho ea pele "Venture37" ke mokhatlo o sa etseng phaello oo itelletseng ho thusa lichaba tsa lefatše ho nyolla moruo ka ho matlafatsa temo boemong ba lehae, ho thusa likhoebo tsa temo ho theha mesebetsi le ho hokahanya lihoai le li'maraka. Ho tloha ka 1981, Venture 37 e hokahantse le ho kenya ts'ebetsong manane a nts'etso-pelea a ka holimo ho 315 tlhahisong ea lebese, liphoofolo, le temo ea lijalo ka har'a bonyane linaha tse 80—ka sena e entse phetoho ea moshoelella ka ho hokahanya lihoai, likhoebo 'moho le makala a sechaba le a ikemetseng boemong ba lehae le ba machaba.





Mokhatlo oa ba lthusang ho Itšebeletsa Metseng (RSDA)

Mokhatlo oa ba lthusang ho Itšebeletsa Metseng 'Rural Self-Help Development Association' (RSDA) o thehiloe ka selemo sa 1991 e le mokhatlo o ngolisitsoeng Lesotho e le mokhatlo o ikemetseng. Sepheo sa mokhatlo ona ke ho fenyha tlala le ho fetola maemo a boipheliso a Basotho ba phelang mahaeng. Pono ea mokhatlo ona ke ho thusa lihoai le mekhatlo ea Sechaba ho ikemela le ho matlafatsa merero ea bona ea boipheliso ho ipapisitsoe le mekhoha ea temo e sireletsang tikoloho. Mokhatlo ona o fihlela sena ka ho theha merero ea ho iketsetsa e le mohato oa ho netefatsa mekhoha ea boipheliso e tsoelang-pele. RSDA ke molekane oa bohlokoa ka har'a morero oa STEPS, sebabo se seholo sa RSDA ke ho netefatsa kholo le tsoelo-pele ea leruo la likhoho tse rueloang nama le mahe tse tloaelehileng ka hore ke likhoho tsa Sesotho (dual purpose) ka har'a naha ea Lesotho 'moho le ho etella pele koetliso ea lihoai tse ka har'a tšebetso ena.

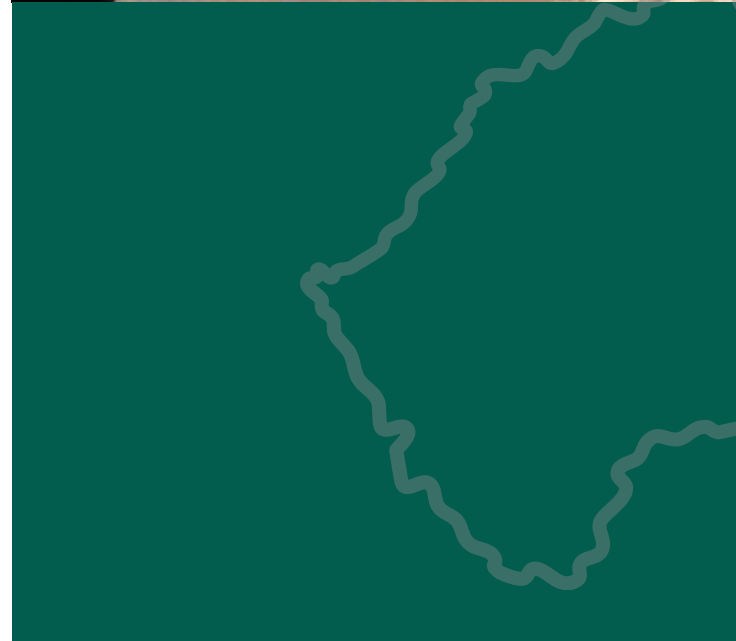
Mokhatlo oa Lefatše oa Bo'malits'ibana (WPF)

Mokhatlo oa Lefatše oa Bo'malits'ibana, 'World Poultry Foundation' (WPF) o thehiloe ka sehlopha sa litsebi tsa bo'malits'ibana le ntšetso-pele ea moshoelella, sepheo sa ona ke ho netefatsa phumantšho ea bo'malits'ibana le ho matlafatsa lihoai lefatše ka bophara. Ho e beha ha bobebe, re batho ba bo'malits'ibana ba thusang batho ba bo'malits'ibana—re tsepamisitse tšebetso ea rona ho theheng tšusumetso ea nako e telele sechabeng sa mahaeng ka ho qapa manane a thuo ea bo'malits'ibana a nako e telele.

Mona Mokhatlong oa Lefatše oa bo'malits'ibana, re na le tabatabelo ea lefatše iphihletseng le ikemetseng ketaneng e hokahaneng ea phetisetsano ea boleng leruoan la bo'malits'ibana, moo lihoai li fumanang libelisoa ha bobebe, tsebo le ts'ebetso e hlokaalang ho matlafatsa likhoebo tsa bona tseo qetellong li ka ntlafatsang maphelo le bokamoso bo chabileng sechabeng sa lihoai.

Setsi sa Machaba sa Lipatlisiso ka Liphoofole (ILRI)

The Setsi sa Machaba sa Lipatlisiso ka Liphoofole 'The International Livestock Research Institute' (ILRI) se thehiloe ka 1994 e le Setsi sa Machaba se etsang lipatlisiso ka liphoofole se sa etse phaello. ILRI e sebeletsa ho ntlafatsa kanetso ea lijo le phepo e nepahetseng, le ho fenyha bofuma linaheng tseo e leng hona li ntseng li hola moruong ka lipatlisiso tse iphihletseng tse bolokeileng ebile e le tsa nako e telele tsa liphoofole. ILRI ke setsi sa lipatlisiso sa CGIAR, selekane sa lefatše sa lipatlisiso molemong oa bokamoso ba kanetso ea lijo e phethahetseng. Mahlale a setsi sa CGIAR a reretsoe ho loantša bofuma, ho matlafatsa kanetso ea lijo le phepo e nepahetseng, ho ntlafatsa lihloholoeng le litšebetso tsa tikoloho ea tlhaho.



Tlhaloso ea ho Raloa hoa Lenane-thuto

Joalo ka ha e le karolo ea morero oa STEPS, WFP e etelletse pele mesebetsi ea ho ntlafatsa phumantšo ea tlhahiso leseling e nepahetseng ea leruo la bo'malitišibana ea boleng, phahamiso ea tlhahiso ea bo'malitišibana, le ho matlafatsa tlhahiso ea lihoai ea mahe le nama ea bo'malitišibana. Lenane-thuto le etelletsoeng pele ke WFP le etselitsong maemo a naha ea Lesotho ho ntlafatsa leruo le mekhoha ea tlhahiso ea bo'malitišibana ho pharalla le mefuta e 'maloa ea bo'malitišibana: likhoho tsa mahe, tsa nama le tse ruetsong mahe le eona nama (dual-purpose) e tloaelehileng ka hore ke likhoho tsa Sesotho.

Ele ho tšehetsa ntšetso-pele ea lenane-thuto, WFP e thehile sehlopha sa tšebetso (Working Group) (WG) se nang le boemeli ba mafapha ohle a amehang le Makala a 'Musu oa Lesotho. Leha Sehlopha sa Tšebetso se akaretsang se ne se thehiloe ka mahlakore a akaretsang a mafapha a amehang, ho ne ho ntse ho ena le sehlopha sa mantlha se fanang ka Lintlha tse batsi malebana le mokhoa oa ho rala lintlha tsa lenane-thuto. Litho tsena tsa sehlopha sa mantlha li ne li kenyelletsa:

- Lesotho Agricultural College
- Department of Livestock Services
- National University of Lesotho
- National Curriculum Development Centre
- Department of Marketing

Sepheo sa mantlha sa WFP Le Sehlopha sa Tšebetso sa Ntšetso-pele ea Lenane-thuto sa STEPS ene e le ho etsa lenane-thuto molemong oa lihoai tsa Lesotho ha 'moho. Sena se se thusane ka ho netefatsa hore lenane-thuto le ipapisitse le litlhoko le maemo a leruo la bo'malitišibana Lesotho, ho tšehetsa lihoai ho ntlafatsa litloaelo tsa tlhahiso le litla-morao tsa khoebo. WFP e leboha nako, boikitlaetso, le litlatsetso tsa Sehlopha sena sa Tšebetso boleleleng ba tšebetso ena ea ho etsa lenane-thuto.

Likateng tsa buka ena li ile tsa hlahlojoa ke litsibi tse 'maloa molemong oa ho netefatsa lintlha tsohle. Likateng tsena li netefalitsoe ka lipuisano le lihoai tsa Basotho. Li boetse li itšetlehile ka botsebi le boiphihlelo ba litho tsa WFP ho ntlafatseng phetsetsano ea boleng leruong la Likhoho tsa Nama le Mahe (Dual-Purpose Poultry Value Chain) ho pharalla le Afrika. Lintlha tsena li tla 'ne li ntlafatsoe ho ea pele ho ipapisitsoe le koetliso e reretsong lihoai e reretsong selemo sa 2025.

Kakaretso ea Buka ea Tataiso

Buka ena ea tataiso e reretsoe ho totobatsa methati eohle ea tlhahiso ea likhoho tse ruetsong ho hlahisa nama ha 'moho le mahe (dual-purpose) (DPP), ho tloha ho mohlahisi ho ea ho moji, e le mokhoa kapa karolo ea tlhahiso ea lijo; khokahano e hlokaahalang ho netefatsa hore lijo li ea hlahisoa ebile le fihla ho moji molemong oa ho fenyha tšala. Lenane thuto le kenyelletsa::

- Tlhaloso ka Likhoho tsa Dual-Purpose
- Matlo a likhoho
- Nako ea ho Fuoama
- Likhoho tse nako e mahareng le tse seng li holile
- Tšireletseho ea tikoloho
- Litsebo tsa khoebo bakeng sa lihoai

Lenane-thuto le na le ka kenyelletsoa mananeong a thupelo a likolo tsa mesebetsi ea matsoho molemong oa bacha.

1. Selekela ho Likhoho Tse Rueloang Ho Hlahisa Nama le Mahe

Likhoho li ne li ruoa malapeng molemong oa ho hlahisa nama le mahe. Boleleleng ba nako, khoebo e ile ea susumetsa hore ho khethoe tlhahiso ea mofuta ea likhoho ho ipapisitsoe le makhabane a tsona a ikhethang. Sena se ile sa susumetsa tlhahiso ea mofuta oa likhoho o rueloang molemo o le mong feela (Single Purpose), tse ikhethang ka kholo e potlakileng molemong oa ho hlahisa nama feela (likhoho tsa nama) kapa mahe feela (likhoho tsa mahe). Likhoho tse rueloang tlhahiso ea nama ha 'moho le mahe (dual-purpose poultry) li ile tsa tloaeleha libakeng tseo khoebo esa atang.

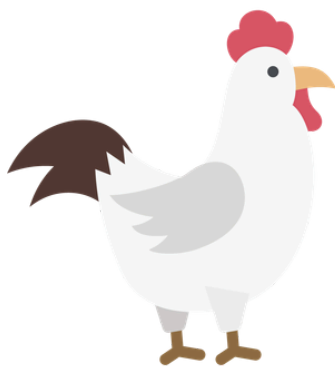


Tlhaloso

Likhoho tsa Dual-Purpose ke mofuta oa likhoho tse rueloang tlhahiso ea nama ha 'moho le mahe.

Likhoho tsa Sesotho ka nepo li oela tlasa mofuta oa 'dual-purpose' kaha li rueloa tlhahiso ea nama ha 'moho le mahe. Leha ho le joalo, li ntse li ena le likhaello papisong le mofuta e ntlafalitsoeng. Boemong bona ka hona 'Dual-Purpose Poultry' e bolela mofuta o ntlafalitsoeng oa likhoho tse rueloang tlhahiso ea nama ha 'moho le mahe, 'me tsona li ipabola ka makhabane papisong le likhoho tsa Sesotho, le hoja li ntse li itsamahela li lokolohile, li sa fuoe tlatsetso e ngata.

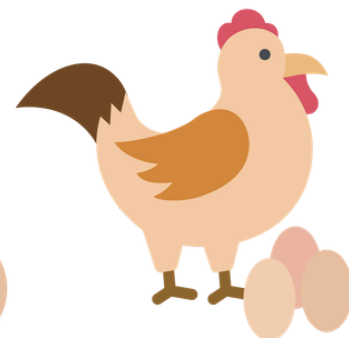
Ka tlholeho, mofuta ena e ntlafalitsoeng e hlahisitsoe ka mokhoa o bolokileng makhabane a likhoho tsa lehae, a kang ho mamella maemo a fapafapaneng, mebala ea masiba, le boleng ba nama. Likhoho tsena li hlahisitsoe ka mokhoa o bolokang makhabane a mofuta ea likhoho tse hlahisang molemo o le mong feela, ekaba ea nama kapa ea mahe feela (single purpose,) likhoho tsena li khona phela ka bongata kamora hore li qhotsoe, ebile le tlhahiso ea tsona e ntlafetse. Khahlanong le likhoho tsa Sesotho tse liehang ho hlahisa mahe, likhoho tsa 'dual-purpose' li hola kapele ebile li behela mahe a mangata. Leha likhoho tse ling tsa 'dual-purpose' li khona ho fuama mahe a tsona, tse ling tsona ha li khone. Boholo ba likhoho tsena li khona ho behela ka mokhoa o tsoanang beleleng ba leruo, ha likhoho tsa Sesotho tsona hlahisa mahe ka likhaohano tse qakolohaneng.



KHOHO EA NAMA



KHOHO EA NAMA LE MAHE



KHOHO EA MAHE

SETS'OANTS'O 1.1

Papiso ea khoho ea nama, ea nama le mahe le ea mahe feela

Melemo ea ho ruoa likhoho tsa Mahe le Nama (Dual-Purpose)

Ho rua likhoho tse ruoang nama 'moho le mahe (dual-purpose) ho fana ka melemo e 'maloa, 'me sena se etsa hore ebe ke tsona tse nepahetseng ho feta bakeng sa lihoai tse hlaisang ka bonyane le lihoai tsa mahaeng. Mabaka a hore na hobaneng li khothalelitsoe ke ana:

1

Phumantšo Ea Lijo E Tsitsitseng

Likhoho tse sena li etsa tlatsetso e kholo lijong tsa lelapa ka tlhahiso ea nama le mahe. Malapa a ka sebelisa nama le mahe e le mohloli oa limatlafatsi le maro a bohlokoa a hlokoang ke 'mele. Limatlafatsi tse sena li bohlokoa haholo ka ho khetholoha, ho bana, bakhachane, le bo 'm'e ba ntseng ba anyesa.

2

Ho Hlahisa Lekenso

Ho holisa litsuonyana, lihoai tse holisang litsuonyana ho tloha ha li le letsatsi, li ka rekisa tse seng li thuthuhile, tse libeke li nne. Lihoai tse hlahisang ka lipalo tse nyane (small-scale) li ntse li ka khona ho rekisa likhoho tse ling le mahe, ba ntse ba itšietse, kapa ba li sebelisa ho reka litlhoko tse ling tsa mantlha tsa lelapa ka mokhoa oa phapanyetsano ea thepa. Likhoho tse ruoang nama ha 'moho le mahe (dual-purpose), li fana ka menyetla e 'maloa ea lekeno: mekoko e ka rekisetsoa nama, mahe a hlahisoang ke lithole le ona a ka rekisoa, le lithole tse seng li tlotse nako ea tsona ea ho behela li ka rekisoa.

3

Tlhahiso e Phahameng ea Mahe

Papisong le mefuta e meng ea likhoho tsa selehae, joalo ka likhoho tsa Sesotho, likhoho tse ntlafalitsoeng tse ruoang tlhahiso ea nama 'moho le mahe (dual-purpose) li behela mahe a mangata, 'me sena se etsa hore ebe mohloli oa limatlafatsi o tsitsitseng. Mahe a tsona a matenya le ona 'me sena se khahla bareki.

4

Tlhahiso e Potlakileng ea Nama

Mekoko ea likhoho tse ruoang ho hlaisa nama 'moho le mahe (dual-purpose) e hola kapele ho feta mekoko ea likhoho tse tloaelehileng tsa Sesotho, sena se etsa hore li loke kapele hore li ka hlabeoa ho etsa nama. Mekoko e atleha haholo ha e ruoe ka mokhoa o lokolohileng esa koalloe ho tloha ha e le libeke li 'ne, 'me e fihlela tse batloang ke 'maraka ka boima bo hakanyetsoang ho 2kg ka libeke tse leshome le metso e 'meli ho isa ho tse leshome le metso e mene (12-14). Sena se akofisa kanetso ea phepo ea boleng le phumantšo ea lekeno ho malapa.

5

Litjeo tse tlase tsa ho rua likhoho ka mokhoa o lokilohileng, li sa koalloe.

Likhoho tse ruoang tlhahiso ea nama ha 'moho le mahe (dual-purpose) li atleha haholo ha li lokolohile li sa koalloe li hloka tlatsetso e fokolang feela, sena se theola litjeo tsa ho li rua. Litjeo tsa ho li rua li tlase haholo papisong le likhoho tse ruoang khoebo feela. Bokhoni ba ho ipatlela lijo bo etsa hore likhoho tse sena ebe khetho e litjeo li tlase, haholo-holo mahaeng moo lisebelisoa li fokolang.



6

Li Ananeloa ke Sechaba

Likhoho tsena li amohelaha ha bobebe malapeng a mahaeng ka lebaka la mebala ea tsona le hona ho khona ho isella lijo, li tšoana feela le likhoho tsa Sesotho. Ho boetse ho na le tumelo e tloaelehileng ea hore likhoho tsena lia thusana ntlheng tsa lipheko tsa lapeng 'moho le molemong oa tšireletso. Likitsana tsa likhoho tsena li phekola bohloko ba ka mpeng. Hape, kaha likhoho tsena li tseba beng ba tsona, li khona ho etsa lerata ha ho fihla se sa tloaelehang, ekaba motho kapa phoofolo.

7

Nama ea Boleng e Senang Mafura a Mangata

Nama e hlahisoang ke likhoho tse rueloang nama ha 'moho le mahe (dual-purpose) haena mafura a mangata, hape e butsoa kapele ho feta likhoho tsa Sesotho, sena se etsa hore ebe eona thatohatse bakeng sa ho jeoa malapeng. Leha ho le joalo, ka tatso le hoba thata e tšoana le ea Sesotho, haholo ha e bapisoa le nama ea likhoho tsa nama feela (broiler), e bonolo ebile e le tatso e fokolang.

8

Ho Tiisetsa le ho Khona ho Phela Maemong a Fapaneng

Likhoho tsa 'dual-purpose' li khona ho tiisetsa kahona li nepahetse bakeng sa maemo a mahaeng, moo ho senang litlatsetso tse ngata ebile likhoho li lokolohile li sa koalhoa. Tiisetso ea tsona khahlanong le mafu le maemo a tsitsipanyang a tikoloho ke thuso e kholo ho lihoai.

9

Tlhaliso ea Mahe Selemo ho Pota

Ho fapana le likhoho tsa Sesotho tse hlahisang mahe ka mekhahlelo/lihlopha, likhoho tsa dual-purpose li behela boleleleng ba nako ea leruo. Sena se netefatsa phumantšo e tsitsitseng ea mahe molemong oa phepo e ntlafetseng le lekeno bakeng sa lelapa.

10

Ho Thabeloa ke 'Maraka le ho Khutleloa ke Phaello

Ka lebaka la mahe a tsona a maholo, nama e nang le tatso ebile e sena mafura joalo ka likhoho tsa Sesotho, likhoho tsa dual-purpose li thabeloa haholo 'marakeng. Sena se fana ka monyetla oa lekeno ho malapa a mahaeng ebile a ntse a arabela tlhoko tsa baji ba motseng.

11

Phumantšo ea Liente Molemong oa Taolo ea Mafu

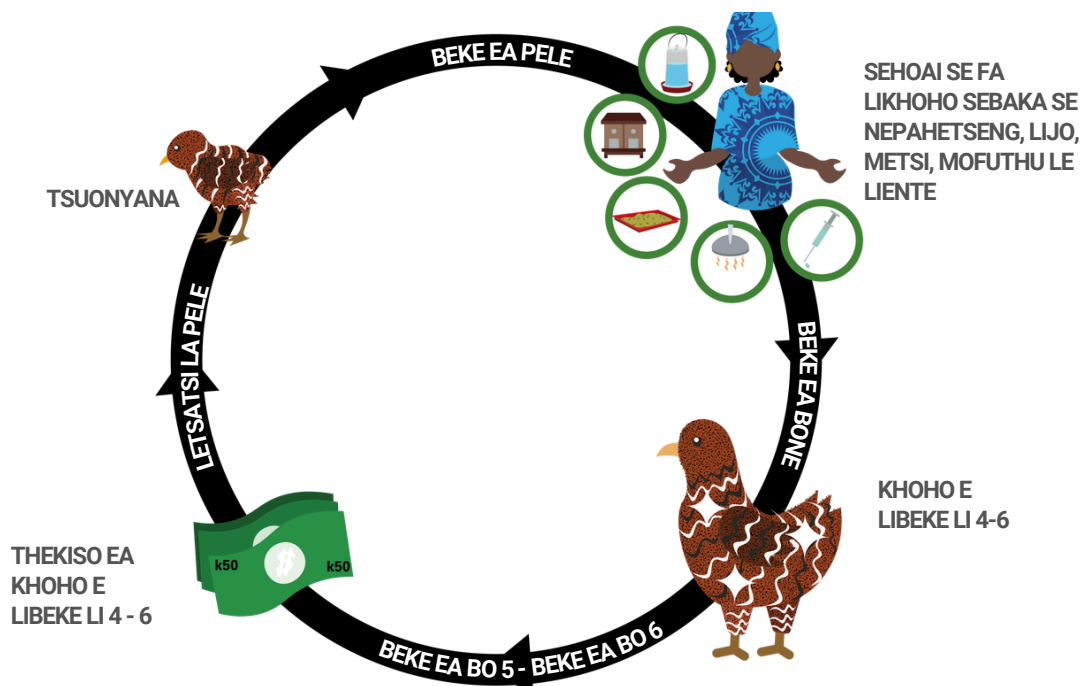
Litsuonyana tsa 'dual-purpose' tse rekuoeng baqhotsising ba tšepahalang, joalo ka ba RSDA, li fuoe liente ka letsatsi la qhotso, sena se li fa tšireletso e hlokahalang khahlanong le mafu. Liente tsena li thusa ho netefatsa hore khuliso ea litsuonyana ebe e atlehileng. Taba ena e ntlafatsa maemo a bophelo a likhoho

Mefuta ea Lihoai tse Ka Ruoang Likhoho tsa 'Dual-Purpose'

Leha e le hore sehoai se seng le se seng se na le bokhoni ba ho rua khoho e ruoang nama ha 'moho le mahe (dual-Purpose), hona le mefuta e 'meli ea lihoai e tšoanelang likhoho tse: Baholisi ba litsuonyana (**Brooder Units**) (**BU**) le lihoai tse hlahisang ka lipalo tse nyane (**small-scale producers**) (**SSP**).

Lihoai tseo e leng Baholisi ba Litsuonyana

Sehoai seo eleng moholisi oa litsuonyana se hlokomela litsuonyana tikolohong e futhumetseng ho tloha li le letsatsi ka hlokolosi e kholo hore li fihlele nako ea libeke tse 'ne (4), ka nako ena li se li le mahareng a bonyane le boholo (teen birds) (Setšoantšo 1.2). Nako ena e hlokolosi haholo kaha litsuonyana li ka angoa ke liqholotso ha bobebe. Litsuonyana ha li tlohelle ho tsamaea li lokolohile li sa koalloa kaha li sa le nyane haholo 'me li keke tsa tseba ho baleha kotsi ha etla, li hloka tlhokomelo e hlokolosi e tšoanang le e ka hlokoang ke likhoho tsa mahe feela kapa tsa nama feela.



SETS'OANTS'O 1.2

Bophelo ba tsuonyana ha ele ho sehoai se hulising litsuonyana

Hore motho ebe sehoai se holising litsuonyana (Brooder Unit), o tlameha a hahe ntlo e nepahetseng bakeng sa litsuonyana. O tlameha a be le bokhoni ba ho fumana liente, lijelo le linoelo, lisebelisoa tse futhumatsang, ha 'moho le lijo tsa litsuonyana. Ho khothaletsoa hore lihoai tsa bohoholi ba litsuonyana ebe batho ba kileng ba rua litsuonyana pejana; ebang ho se joale, ba battle tataiso le tšehetso e matla ho tsoa hoa basupisi ba temo metseng, kapa litsibi koetlisong ka likhoho tse ikemetseng. Ho boloka libuka tsa tlhokomelo ea likhoho ho bohlokoa, ka hona sehoai se tlameha ho tseba ho bala le ho ngola. Hape, ba atamele tlhokomelo ea likhoho ele khoebo ebile ba ena le lerato la mosebetsi oa ho li holisa

Ka ho hlokomela likhoho tsa dual-purpose hantle, Lihoai tse holising Litsuonyana (Brooder Units) li netefatsa hore likhoho tse libeke li 'ne li rekisetsoa lihoai tse ruoang ka lipalo tse nyane (Small-scale Farmers) li se li loketse ho ruoana li lokolohile, li sa koalloe, kaha esele tsela eo li seng litla phela ka eona. Ntlha enngoe ke hore baholisi ba litsuonyana ba ka ba le mekhahlelo ea ho rua e mengata ka selemo kaha likhoho tse na li holisoa nako e khutšoane, sena ke monyetla o motle oa khoebo.

Lihoai tse Ruoang ka Lipalo tse Tlase (Small-Scale Producers)

Lihoai tse hlahisang ka lipalo tse tlase (Small-Scale Production) li ruoela phepo e nepahetseng, ele mohloli oa nama le mahe bakeng sa malapa a tsona. Ele ho etsa chelete hore li reke litlhoko tse ling tsa lelapa, lihoai tsena li ka rekisa likhoho le mahe tseo eleng phaello tlhahisong ea tsona.

Lihoai tsena li reka litsuonyana tse nang le nako ea libeke tse 'ne ho lihoai tseo eleng Baholisi ba Litsuonyana, ebe li holisa litsuonyana tse ho fihlela li fihletse libeke tse 12-14. Likhoho tsena li ruoela ka mokhoa o lokolohileng hore li ka ea hohle, ha li koalloe, 'me ka lebaka lena li hloka tlatsetso kapa tlhokomelo e fokolang ho sehoai.

Hore motho ebe sehoai se hlahisang ka lipalo tse tlase (Small-Scale Producer) o hloka hoba le sebaka se lekaneng ele hore likhoho li tle li khone ho ipatlela lijo letsatsi le letsatsi.



SETS'OANTS'O 1.3

Sehoai se Ruoang ka Lipalo tse Tlase

Pale: Katleho ea Ntate Ntsokoane Leruong la Dual-Purpose

Ntate Ntsokoane, Sehoai se lilemo li 45 se ahileng Khubetsoana pela letamo la Maqalika Maseru, O ruile likhoho tsa nama 'moho le mahe (dual-purpose) tse hlahisitsoeng Afrika Boroa tse bitsoang Boschveld, tseo a neng a li fumana RSDA, ka lilemo tse 'ne (4). Ha qala, o ne a rua molemong oa lelapa la hae feela empa kapele a phakisa ho eelloa tlhoko ea likhoho le mahe ho bahlaisane le lihoai tse ling. Ka lebaka lena, o ile a nka monyetla eaba o eketsa leruo la hae, a tsetela ho mochini o qhotsisang mahe a 2,500 hore atle a rekise litsuonyana tse letsatsi le leng (day-old-chicks). O qalile ka lithole tse 100 le mekoko e 20, ka mora nako a rekisa mekoko e 5 ele ho fokotsa hore e tsekisane.



SETS'OANTS'O 1.4

Mr. Ntsokoane Ntsokoane

Ha joale, o se a rua lithole tse 96 le mekoko e 15 fela polasing ea hae. "Hake ne ke qala ho rua likhoho, kene ke ruela lelapa laka fela. Ke qalile ha nyane ka mora ntlo, empa eare hake se ntse ke fumana nama le mahe, bahaisane ba qalella ho botsa hore na hobaneng ke sa ba rekisetse kaha likhoho tsena li bonahala li behela mahe a mangata." O rialo. Bareki ba tlhahiso ea hae ke baahi ba motseng moo le batho ba hlahang mathoko, ba utloetseng ka tlhahiso ea hae ka mokhoa oa neeano-taba.

Ka tlhahiso ea mahe a 50 ka letsatsi, Ntsokoane o qhotsisa litsuonyana tse 290 beke le beke, sekahla sa tlhahiso sa linoko tse mashome a robeli a metso e meraro lekholong (83%). Ka thekiso ea M15 tsuonyana ka nngoe, 'maraka oa hae o holile haholo ka lebaka la neeano-taba 'me o lula a qetisitse thekisong ea litsuonyana. Ka khoeli o atleha ho etsa lekeno la bonyane ba M10,000 'me o bona leruo la likhoho ele khoebo e nang le kuno e ngata ebile e fana ka monyetla e 'maloa ea khoebo.

Mefuta e Tloaelehileng ea Likhoho tsa Dual-Purpose Lesotho

E meng ea mefuta ea likhoho tse sebelisoang ha beli (Dual-purpose) ka hare ho naha ea Lesotho e kenyelletsa likoekoe (Pothchefstroom Koekoek, Bosveld, Orpington le Brahma.

Koekoe (Pothchefstroom Koekoek)

Koekoe kapa Pothchefstroom Koekoek (PK) ke mofuta o hlaiselitsoeng ho tiisetisa maemo a tikoloho a Afrika e Boroa. Ke mofuta o hlaisitsoeng ka ho tsoaka mefuta e meraro ea likhoho: 'Black Australorp', White Leghorn le Banded Plymouth Rock. Koekoe e tsebahala ka masiba a metsero e ikhethileng e metšo le e mesoeru, letlalo la teng le bosehla bo tebileng. Hang ka mora hore litsuonyana li qhotsoe, lithole le mekoko ea mofuta ona li hlalohanyeha ha bobebe ka lebaka la 'mala le metsero ea masiba.

Mekoko e etsa boima bo hakanyetsoang ho 2.4 kg ka libeke tse 20, 'me e khona ho fihlela boima ba 4kg hae ese e holile ho lekana. Lithole tsona li etsa boima ba bonyane 1.7 kg ha libeke tsa tsona li le 20 'me li hola hofihlela ho 3.5 kg. Lithole li qala ho behela mahe. Ka libeke tse 18, li behela mahe a ka hakanyetsoang 192 ka selemo. Mahea likhoho tse na a matenya, a masootho. Ka kakaretso, a ananeloa ke bajji ba sechaba sa Basotho. Koekoe (PK) e tsebahala haholo ka ho tseba ho hlokomela litsuonyana ebile e khona ho fuama mahe a eona.



SETS'OANTS'O 1.5
Potchefstroom Koekoek



SETS'OANTS'O 1.6
Khofo ea Boschveld

Mofuta oa Boschveld

Khofo ea Boschveld ke Khofo e hlaisitsoeng sebakeng sa Limpopo, Afrika Boroa. E hlaisitsoe ka ho nyalisa khofo Ovambo e tsoang Namibia, Khofo ea Venda e hlahang Limpopo, 'moho le khofo e Matebele e tsoang Zimbabwe. Mofuta ona o tsebahala ka masiba a masootho a tsoakileng le bosoeu bo hlakileng. Ke mofuta o tiisetisang le maemong a thata ebile o sa khathatsoe ke mafu a mangata a likhofo.

Mofuta ona o qala ho behela mahe kamora libeke tse ka bang 24, ka tlhahiso ea a ka bang 4 ka beke hae ruoe ka maemo oa ho itsamaela ka bolokolohi (free-range). Ka libeke tse 12, mekoko le lithole li etsa boima ba bonyane 1.7 kg le 1.6 kg ka tatellano. Ka libeke tse 20, mekoko e etsa boima ba 2.6 kg, ha lithole tsona li etsa 1.7kg. Mofuta oa Boschveld o lumellana hantle le tikoloho ea Afrika e Boroa.



SETS'OANTS'O 1.7
Khoho ea Orpington

Mofuta oa Orpington

Orpington ke mofuta oa khoho o motenya, o hlahang naheng ea England. Ke mofuta o tsebahalang ka sebopeho se chitja ebile o le motenya, masiba a bobebe le sefuba se batsi. Likhoho tsa Liorpington li na le letlalo le lesoeu ebile li na le mebala e 'maloa ea masiba, tse ling li masiba a mats'o, a mang a masoeu, a mang ke motsoako oa (botšo, bosoeu, bosootho bo lebisitseng ho khauta), bosootho, bosehla bo lebisitseng ho khauta, le botšo bo phethetsoeng ke 'mala oa khauta. Ka linako tse ling mofuta ona o khethoa ka lebaka la chebahalo ea ona esa tloaelehang.

Mofuta oa Orpington o tiisetse hantle libakeng tse batang, haholo-holo Lesotho moo mariha a teng a batang haholo ka lebaka la masiba a teng a khobokellaneng. Ke mofuta oa khoho o imametseng, o bonolo, sena se etsa hore ebe mofuta

o nepahetseng ka ho fetesisa ho ruoa ka mokhoa oa motsamao o lokolohileng, o sa koalloeeng. Orpington e behela mahe a matenya a masootho, a ananetsoeng hantle Lesotho.

Ka lebaka la hore likhoho tsa Orpington ke likhoho tse holang ka sekhahla, ho nepahetse haholo ho li ruela nama. Li behela mahe a 3 ho isa ho 5 ka beke ebile li tseba ho sela le ho hlokomela litsuonyana tsa tsona hantle. Boima ba mokoko o seng o holile hantle bo ka fihla ho 5.5kg, ha sethole se hola ho fihlela ho bo 4kg. Li fihlela boima boo batloang ke 'maraka ka libeke tse 22, li behela mahe a ka bang 200 ka selemo, selemo ho potoloha, haholo ha hona le joang boo bongata kapa furu moo li ka selang, tsa ja. Boholo ba mahe a tsona bo mahareng ho isa ho a maholo-holo.

Mofuta oa Brahma

Brahma ke mofuta oa khoho o boima, o hlahang naheng ea China le Amerika. E ikhethile ka mofuta e fapaneng ea mebala, e kaba e khanyang le e lefifi, e kang khauta, e bosehla bo sa tebang. Letlalo la teng le lesehla, ha maotoana a teng ona a kupelitsoe ke masiba a mangata. Masiba ana a li sireletsa 'me a etsa hore li tiisetse tikolohong e batang. Likhoho tsa Brahma ke likhoho tse kholo ka sebopeho, mekoko ea teng e khona ho fihlela boima ba 5.5 kg ho isa ho 6.8 kg, ha lithole tsona li fihlela boima bo lipakeng tsa 4 kg ho isa ho 5 kg. Likhoho tsa librahma li nka nako e telele pele lika fihlela nako ea ho tloleloa ebe li behela mahe, ka tloaelo li qala ha li le likhoeli li 6 ho isa ho tse 7.

Likhoho tsa librahma li tsebahala ka ho se be hlaha, ka hona li rueha ha bobebe malapeng, haholo-holo moo ho enang le likhoho tse ngata. Le hoja li tseba ho sela haholo, ha li selle hole le habo tsona. Li behela mahe a masootho a seng a tloaelehile 'marakeng ea Lesotho. Li behela mahe a kabang 150 ho isa ho a 200 ka selemo. Kante le hore li nka nako e telele ho hola le ho behela, ho tiisetse hoa tsona le semelo se imametseng li etsa hore ebe mofuta o kothalelitsoeng bakeng sa lihoai tse hlahisa ha nyane (Small-Scale Farmers) tikolohong tse batang.



SETS'OANTS'O 1.8
Khoho ea Brahma



SETS'OANTS'O 1.9

Khoho ea Sasso

Mofuta oa Sasso

Sasso ke mofuta o nyalisitsoeng oa khoho e ka sebelisetsoang nama kapa mahe (dual-purpose), qalong li ne li etsetsoa libaka tse futhumetseng moo pula e nang khafetsa. Mofuta ona o ile oa ntlafatsoa molemong oa tikoloho ea Afrika e Boroa, le hoja ele hona liteko li ntseng li etsoa. Lihwai tse ruang ka lipalo tse nyane tsa linaha tse Boroa ho Afrika li ruile likhoho tse na mofuteng oa Rainbow T le C431 ka katleho, haholo-holo Zimbabwe. Li ananetsoe linaheng tse ngata tsa Afrika ka lebaka la bokhoni ba tsona ba ho phela maemong a fapaneng, le ka lebaka la mebala ea tsona e tsoanang le ea likhoho tsa Afrika. Likhoho tse ling tsa Sasso li na le masiba a tsoakileng bokhubelu, botšo le bosoeu. Likhoho tsa Sasso ke litsibi tse kholo tsa ho sela 'me ka hona sena se etsa hore li khotlaetsoe lihoai tse hlahisang ka lipalo tse nyane ho li rua ka bongata molemong oa ho eketsa tlhahiso. Ke likhoho tse imametseng kahona li hlokomeleha ha bobebe leha leruo le lengata. Li fihlela nako ea ho behela ka libeke tse 18 ho isa ho tse 22, ebile li behela lipakeng tsa mahe a 120 ho isa ho a 250 ka selemo, mahe a tsona a masootho. Tlase maemo a nepahetseng, mekoko e fihlela boima ba 2.60kg ka libeke tse 12. Likhoho tse na tsa Sasso hali khone ho fuama mahe.

2. Matlo a Likhoho

Selelekela

Matlo a bapala karolo e bohlokoa haholo tšireletsong ea likhoho khahlanong le maemo a mabe a leholimo joalo ka khanya e otlolohileng ea letsatsi, moea o mongata le pula. Matlo a boetse a sireletsa likhoho khahlanong le liphoofole tse ka li hlaselang le masholu, a boetse a sireletsa likhoho khahlanong le likokoana-hloko tse ka bakang mafu. Nakong e hlokolosi ea ho fuama mahe, ntlo e fana ka tikoloho e sireletsehileng e iketleleng, e netefatsang boiketlo ba likhoho ebile e le metheo ea tlhahiso e nang le bokamoso.

Khaolo ena e fana ka kakaretso ea lintlha tse bohlokoa ho hlalosojwa ha ho ahoa matlo a likhoho, ebile e tšohla litloaelo tse khothalelitseng. Hase litloaelo tsohle tse khothalelitseng tse litjeo li tlase kapa hona ho ba bobebe ho fihleloa ho ipapisitsoe le maemo a fapaneng a lihoai. Ka hona ho kenyellelitsoe le likhohalelitseng, haholo-holo ha likhoho li se li holile ho lekana hore lika tsamaea ka bolokolohi.

Maemo a Lesotho

Lesotho le tsebahala ka mariha a batang haholo le lehlabula le chesang haholo. Hlabula mocheso oa mabalane o ba lipakeng tsa 20°C le 30°C, pula e nang ka lifefo le lifako e tloaelehile haeba motšea oa mantsiboea. Ka lehlakoreng le leng, mariha a bata hoo serame se ka theohelang ho 0°C, ha ka lithabeng teng ho khethea lehloa le serame se tlišang tlhokahalo ea metsi. Hoetla le Selemo ke linako tse mahareng moo maemo a leholimo a leng lipakeng tsa ho chesa le ho bata, ka pula e nang ka linako tse ling. Selemo se tla ka meea e matla le serame sa ho qetela se nang le ho oa. Ka hona, matlo a likhoho a tlameha a raloe ho sireletsa likhoho khahlanong le maemo ana a leholimo. Leha likhoho li se li thothohile ho lekana hore li ka tsamaea ka bolokolohi li se li sa koalloe, li ntse li hloka sebaka se bolokehileng ho phomola bosiu le ho ipatela maema a mabe a leholimo.

Lesotho le lika-likanyelitseng ke Afrika-Boroa ka mahlakore ohle, ke lehae la mefuta e ka bang 350 ea linonyana tse phelang ka ho falla, tse tlišoang haholo keho khahloa ke lithaba. Ho boetse hona le litlaleho tse supang boteng ba likhoto. Matlo a tlameha a ahoe ka tsela e thibelang linonyana tse hlaha le likhoto ho kena ka ho ona ebe li kopana le likhoho pele likhoho li hola ho lekana hore lise li ka tlohella ho tsamaea ka bolokolohi, kaha sena seka baka tšoaetsano ea mafu eaba likhoho lia shoa.

Maemo a Likhoho tse ka Sebelisoang ha Beli (DPP)

Molemong oa tlhahiso ea likhoho tse ruoang nama 'moho le mahe (dual-purpose), matlo a butsoeng ka mahlakoreng ke ona a khothalelitseng ele ho netefatsa phallo ea moea e nepahetseng. Lehoja lipehelo tsa matlo li tsoana ho pharalla le methati eohle e tlhahiso, mothati o mong le o mong ona le litlhoko tsa ona. Nako ea ho holisa litsuonyana e fapane ka litlhoko le nako ea ho lokolla likhoho hore li tsamae ka bolokolohi.

Molemong oa tlhahiso ea likhoho tse ruoang nama 'moho le mahe (dual-purpose), matlo a butsoeng ka mahlakoreng ke ona a khothalelitseng ele ho netefatsa phallo ea moea e nepahetseng. Lehoja lipehelo tsa matlo li tsoana ho pharalla le methati eohle e tlhahiso, mothati o mong le o mong ona le litlhoko tsa ona. Nako ea ho holisa litsuonyana e fapane ka litlhoko le nako ea ho lokolla likhoho hore li tsamae ka bolokolohi.

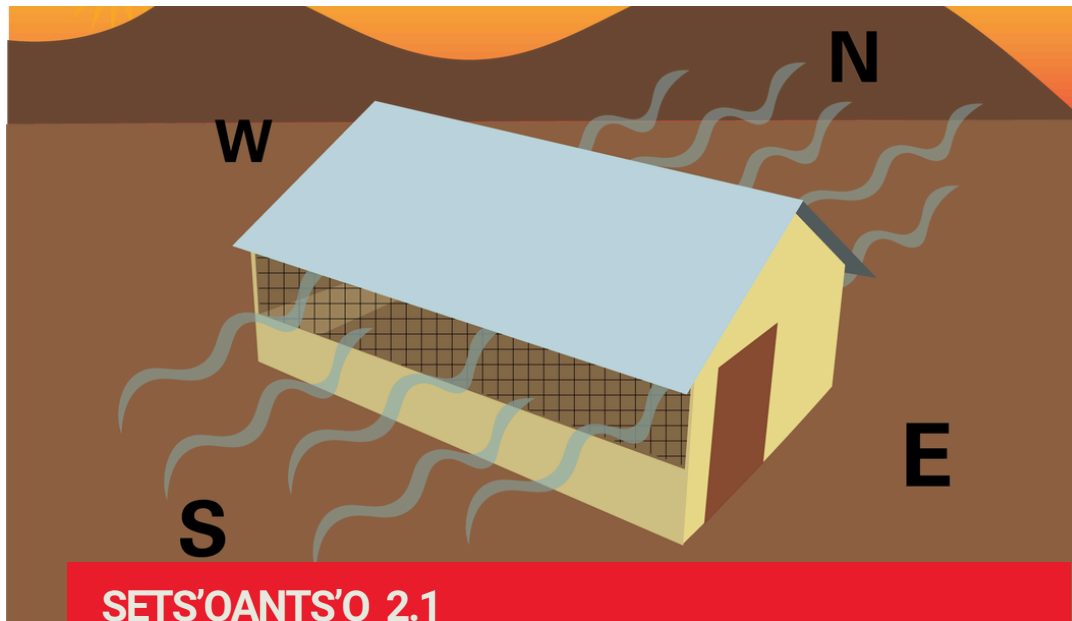
Likarolo tsa Mantlha tsa Ntlo ea Likhoho

Nako ea ho holisetsa litsuonyana ka hara sebaka se laolehileng se futhumetseng e nka libeke tse 4 ho isa ho tse 6 kamora hore litsuonyane li qhotsoe. Ka nako ena, litsuonyana hali khone ho laola mocheso oa 'mele ea tsona ka ho phethahala, ka hona li tlameha ho tšehetsoa ka lisebelisoa tsa ho futhumatsa le tikoloho e laolehileng haholo. Sepheo ke ho fana ka mofuthu le tšireletso e tšoanang le ha li ne li fuoangoe ke 'matsona. Hore ntlo ea likhoho tsa 'dual-purpose' e khone ho fan aka tšireletso ena e hlokalang ho likhoho, e hloka tse latelang:

1

Peho e Nepahetseng ea Ntlo

Khonthaletso ke hore ntlo ea likhoho e tlameha ho behoa ho ipapisitsoe le tšekamelo ea bochabela le bophirima. Sena se thusa ho qoba hore letsatsi le seke la chabela ka ntlong ka moo ka mokhoa o otlolohileng. Lesotho ke naha e bang le meea e matla, e batang ka linako tse ling tsa selemo, ntlo ea likhoho e tlameha ho ahoa ka mokhoa o ka fokotsang sekahla sa meea ena. Le hoja moea ole bohlokoa molemong oa potoloho ea moea ea tlhohleho ka hara ntlo ea likhoho, ho bohlokoa ho qoba hore ntlo e be ka lehlakoreng leo moea o fihlang ka sekahla. Ntlo e tlameha ho beoa ka kela-hloko ea hore na moea o foka o lebile kae ele ho sireletsa likhoho khahlanong le lifefo, marole le pula.



SETS'OANTS'O 2.1

Ponts'o ea mokhoa o nepahetseng oa ho beha ntlo

2

Khetho ea sebaka sa khaho ea ntlo ea Likhoho

Sebaka se sa batalletseng ho lumella phallo e nepahetseng ea metsi, le mobu o nepahetseng li bohlokoa khahong ea ntlo ea likhoho ele ho netefatsa hore ntlo e ea tsitsa, Ntlo ea likhoho e ba tikolohong e ommeng molemong oa bophelo bo botle ba likhoho. Ha phallo ea metsi e nepahetse, metsi a keke a likanyetsa ntlo le hona ho kena ka tlung, sena se fokotsa menyetla ea mongobo o ka lebisang mafung. Ntlo e tlameha e aho e setšeng se motheo ele ho lumella metsi ho phalla. Ka hara ntlo, fatše le teng ho be le motheo o monyane, bonyane ka 1% ho isa ho 2% ho leba monyako ele hore metsi a tle a phalle kante nakong eo ho hloekisoang.

Mobu o lehlathathe kapa o selokoe se lebisitseng lehlathatheng ke ona o nepahetseng kaha o sa boloke metsi nako e telele, o fokotsa menyetla ea hore metsi a kolletsehe empa o ntse o bile o fana ka metheo e tsitsitseng bakeng sa khaho ea ntlo. Mobu o letsopa o qojoe ka litsela tsohle kaha o boloka metsi ebile o ka nyehla kapa oa omella, sena seka senya metheho ea ntlo. Mobu o lehlathathe le bobebe ona o hloka ho tšehetsoa molemong oa hore moaho otle u tie. Setša se letsopa sona se hloka ho tšehetsoa ka majoe.

3

Marulelo

Bophahamo ba marulelo a ntlo ea likhoho bo tlameha hoba 2.5m ho isa ho 3m ele ho netefatsa potoloho e nepahetseng ea moea ka hara ntlo. Marulelo ana a tlameha ho tsoeella ka ntle ka mithara o le mong ho tloha leboteng. Molemo oa sena ke ho thibela metsi hoesa maboteng moo a ka etsang tšenyho, ho rulela tjena ho boetse ho sitisa metsi ho bokella haufi le motheo oa ntlo moo motheo oka sisinyehang kapa eaba ho eba mongobo ka tlung. Ho tsoeella ka thoko hona ho etsa moriti 'me ho sireletsa likhoho khahlanong le ho chabeloa ke letsatsi ka mokhoa o otlohileng, haholo-holo haele hlabula ho chesa haholo, mocheso o mongata o ka li beha likhoho tlokotsing (heat stress). Molemo oa lipheho tsena ke ho netefatsa boiketlo ba likhoho, tikeloho e hloekileng le hore ntlo e etle e tiisetse hoa nako e telele.



SETS'OANTS'O 2.2

Ho tsoeella ho nepahetseng hoa marulelo

Marulelo a tlameha ebe a entsoeng ka ntho e ka tsebang ho laola mocheso le serame ka hara ntlo. Le hoja boleng ba theko ele ntho ea matlha khethong ea marulelo ho lihoai tse ruang lipalo tse nyane, lihoai li khethe marulelo a ka tsebang ho laola mocheso le serame. Marulelo a behang mocheso le seramo taolong a khona ho boloka mofuthu ka tlung nakong ea mariha ebe a koalla mocheso kantle haele hlabula. Marulelo a ka sebelisoang e kaba a joang kapa masenke:

Melemo le liqholotso tsa marulo a fapaneng ke tsena:



SETS'OANTS'O 2.3

Marulelo a Masenke

Masenke

Maseke ke mofuta oa tšepe e bobebe e benyang e sebelisoang Lesotho ka bopharala ka lebaka la theko ea ona e tlase. Lesotho ke sebaka seo mariha a batang haholo ebe hlabula teng ho chesa haholo, ka hona bokahare ba marulelo a maseke bo tlameha ho tlatsetsoa ka se ka thibelang mocheso ho lahleha kapa hona ho lumella serame ho kena. Masenke a boetse a tlameha ho pentoa ka pente khanyang hore etle e thibe mocheso ose kene ka tlung ha ele hlabula. Masenke a ka sebelisoa ke Baholisi ba litsuonyana, ba li holisang ho tloha li le letsatsi ho isa ho libeke tse 'ne, le lihoai tse hlahisang ha nyane.

Makhabane a Masenke:

- A thata a tiisetse nako e telele.
- A thibela khanya ea letsatsi a be a boloko bokahare bo pholile ha a pentuoe.
- A hloekiseha ha bobebe.
- Ha a senyoe ha bobebe ke maemo a leholimo kapa liphoofole tse senyang.

Liqholotso tsa Masenke:

- Aka chesa haholo hlabula.
- A lerata haholo nakong tsa lipula le lifefo. Lerata le ha beha likhoho tlokotsing.
- Thepa e ka sebelisoang ho thibela mocheso o mongata le serame e ea tura.



SETS'OANTS'O 2.4

Marulelo a Joang

Joang

Marulelo a joang a etsoa ka joang bo ommeng. Joang bo botle haholo ho laoleng mocheso le ho thibeng serame, haholo ha joang boo bo topuoe. Bo ka koaheloa ka seili ele hore hotle ho hlatsoehe linakong tsa ho hlatsoa. Seili ha e kenele metsi ka hona e thusa kaho thibela metsi ho kena boemong boo e kabang joang ha bo ea topeha hantle. Ho ka boetse hoa sebelisoa le mekotla e sa tšelang ea lijo tsa liphoofole (lisarasara) ho koaela marulelo a entsoeng ka joang. Leha ho le joalo, mofuta ona oa morulelo o hloka ho nchafatsoa khafetsa kaha osa tiisetse haholo joaloka ka mofuta emeng. Ka lebaka lena, hoba bobebe ho sebelisa mofuta ona oa ho rulela mahaeng moo joang bo fumanehang haholo. Joang bo ka sebelisoa ke Baholisi ba litsuonyana, ba li holisang ho tloha li le letsatsi ho isa ho libeke tse 'ne, le lihoai tse hlahisang ha nyane.

Melemo ea Joang:

- Bo boloka ntlo e futhumetse mariha e pholile haele hlabula.
- Bo baballa tikoloho ebile bo litjeo li tlase, haholholo moo bo metseng ka bongata.

Liqholotso tsa Joang:

- Bo hloka ho fetoloa kamora nako e khutšoane.
- Bo ka cha, ba senngoa ke liphoofole kapa ba bola habo sa hloekisoa ka nepo.
- Bo hloekiseha ka thata.



Keletso

Mekotla ea lijo tsa liphoofole e sa tšelang eka sebelisoa ka ho rokelloa tlasa marulelo a joang

4

Mabota

Mosebetsi oa mabota ke ho tšehetsa methoho ea moaho, ho sireletsa likhoho khahlanong le libatana le maemo a leholimo a mabe, le ho netefatsa phallo ea moea e nepahetseng 'moho le khanya.



Ntlha ea bohlokoa:

Ka lebaka la serame mariha a Lesotho, lihoai tse ngata li aha mabota a holimo ka lifesetere tse nyane. Sena ha sea khothaleltsa kaha phallo ea moea esa be ntle.

Karolo e tlase ea lebota e seke ea phahama hofeta mithara o le mong (1 meter) ele ho lumella phallo ea moea. Ho ka sebelisoa konkoreiti, litene kapa lepolanka. Ha lisebelisoa li le teng, ho ka sebelisoa le lintho tse ka tlatselatsang kapa tsa koaela mabota ka hare molemong oa laola mofuthu le mohatsela ka ntlong, ho ka sebelisoa 'polyurethane spray foam', e fumaneha moo ho rekisoang thepa ea moaho. Ka holima lebota lena ho kenngoe sefe ea likhoho ho tloha moo lebota le fellang hoea holimo, ke molemong oa phallo ea moea. Sena se tla boela se thibela linonyana ho kena ka ntlong ea likhoho, ho sebelisoa seili e boima ho laola phallo ea moea.



SETS'OANTS'O 2.5

Mabota a khothalelitsong a sa feteng mithara o le mong (1 meter)

5

Fatše

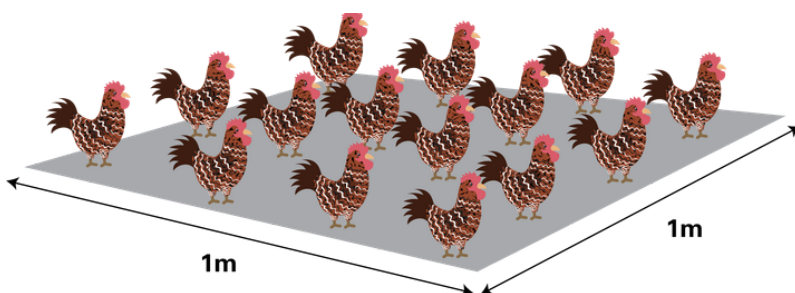
Fatše ho tlameha ho batalle ho sebe le maphao. Ho liloa fatše ka seka hloekisehang, se sa relleng ele fokotsa menyetla ea likotsi le ho boloka bohloeki. Ho lila fatše ka samente ho khothalelitsoe hobane samente eka hlatsuoa ka metsi le lisepa nakong ea ho hloekisa (Setšoantšo 2.6). Leha hole joalo, le ho lila ka mobu o katuoeng moo lisebelisoa li fokolang ho ntse ho lumellehile. Ho seke hoa eba le maphao kaha likokoana-hloko le mafu li ka ipata ka hara ona. Hape, fatše ka hara ntlo ea likhoho hobe ka holima bophahamo ba lefatše ka ntle, hobe motheo hoesa monyako ho lumella metsi ho phallela kantle ase etse letamo ka hare.



SETS'OANTS'O 2.6

Mokhoa oa ho lila fatše o khothalelitsoeng

Sebaka lekaneng fatše se bohlokoa molemong oa tlhahiso le Bophelo bo nepahetseng likhohong tse ruoang nama 'moho le mahe (dual purpose). Sebaka sa mithara ole mong ka mahlakore a mane o tlameha se ncoe likhoho tse 15 (Setšoantšo 2.7) Sebaka se fatše se tlameha ho lumella likhoho ho tsamaea. Tšubuhlellano eka beha likhoho tlokotsing, tsa hlahafala eaba le tlhahiso eba tlase, le mafu ea ata (Setšoantšo 2.8)



SETS'OANTS'O 2.7

Likhoho tse 15 li sebakeng sa 1m²(mithara ha 'ne)



SETS'OANTS'O 2.8

Mohlala oa tšubuhlellano ea likhoho

6

Sebaka sa ho beha lijo tsa likhoho

Lijo li tlameha ho beoa thoko ho moo likhoho li phelang. Sebakeng se pholileng, se ommeng ele ho netefatsa hore boleng ba tsona ha bo lahlehe. Ho bohlokoa hose behe lijo fatše-fatše ho qoba hore li ka senngoa ke metsi kapa mongobo (Setšoantšo 2.9). Lijo li tlameha ho bolokoa ka hara ntho e koelehang hantle ele hore liphooftsoana tseka li senyang li se li fihlele. Nkho kapa moqomo o koelehang ke tse ling tse ka sebelisoang.



SETS'OANTS'O 2.9

Mekotla ea lijo e behiloe holim'a li paete ho e qobisa mongobo

7

Tšireletso

Ntlo ea likhoho e tlameha ebe le lemati lele leng le notlelehang hantle. Lemati e seke ea eba le senyehileng kapa le nang le likhaello tse ka lumellang motho ea senang tokelo kapa tumello ho kena.

8

Samente e potileng ntlo fatše

Samente ea bophara bo ka etsang mithara ole mong (1 meter) eka tšelo a ho pota ntlo fatše ele ho nolofatsa hore metsi a phallele thoko ho mabota a ntlo (Setšoantšo 2.10). Haeba lisebelisoa li haella, mobu oa bophara ba mithara ho tloha ntlong, oka katoa oa sebetsa sebakeng sa samente hore metsi a phallele thoko ho mabota.



SETS'OANTS'O 2.10 Ntlo ea likhoho e potiloeng ka samente fatše

Tse ka Eloang Hloko Ntlong tsa Likhoho tse Libeke li 'Ne le Tse Kholo

Likhoho tse libeke li 'ne (nako e mahareng) le tse seng li le kholo tsa 'Dual Purpose' (DPP) li ruuo ka tsela/ mokhoa o li itsamaelang ka bolokolohi li sa koalloe. Le hoja meralo ea matlo e boletsoe pejana e ntse e nepahetse bakeng sa likhoho tsena, hona le phapang tsa mantlha.

Ea pele ke hore likhoho tse nako e mahareng le tse seng li le kholo li qeta bohobo ba nako ea tsona li ntse li fata li sela lijo. Le ha ho le joalo, mantsiboea li tlameha li ee ka tlung ho li sireletsa khahlanong le libatana le masholu bosiu. Ntlo ea likhoho e boetse e bohlokoa nakong eo boemo ba leholimo bo seng bottle. Ka ho fapana le litsuonyana, likhoho tse kholo li ka laola mofuthu oa 'mele oa tsona, ka hona libaka tse koetsoeng le ho li besetsa hase tlhoko.

Hobane likhoho tse kholo li 'mele o moholo ebile li haufi le ho behela, hona le lintha tse tlamehang ho eloa hloko ho hara litlhoko tsa tsona. Tse bohlokoa ka ho fetisisa ke tse latelang:

Litlhoko tse Akaretsang

Ha ho hahoa ntlo, sebaka sa mithara mahlakoreng a mane (1m²) se ncoe ke likhoho tse tšeletseng. Ntlo e tlameha ebe le marulelo, mabota le samente fatše kapa mobu o katuoeng, le lemati le koalehang. Lihlaha tse entsoeng ka hara mabokose, kapa likalana tse entsoeng ka lithupa kapa mapolanka, li ka ntlafatsa tšebeliso ea ntlo/ serobe sa likhoho.

Lirobe

Lirobe tse entsoeng ka joang ebe li beoa ka hara mabokose kapa ntho e mahlokore a tšerelitsong ka mathoko, tse beuoeng sebakeng se ikhutsitseng, se sireletsehileng ebile hole lerothonyana, li ka etsa hore likhoho li behele hantle ka boiketlo. Lirobe tsena li se beoe fatše, li beoe moo ho phahameng ele ho qoba hore mahe a ka choatleha kapa a angoa ke ho hong. Lebokose la serobe le tloaelehileng ke la bohobo ba 30cm×30cm 'me le ka fella lithole tse 4 ho isa ho tse 5. Ho ka sebelisoa le lintho tse fapaneng ho etsa lirobe, liSetšoantšo tse latelang ke mehlala ea mefuta e fapaneng ea lirobe.



Kalana

Ho hloella kalaneng ke tlhohleho ea khoho. Likhoho li batla sebaka se phahameng moo li ka tsa robalang bosiu, sena ke molemong oa tšireletseho khahlanong le libatana bosiu. Ho etsetsa likhoho Kalana ka tlung ho li thusa hore li phele ka mokhoa oa tsona oa tlhohleho. Likalana li be telele ho lekananela hore khoho ele nngoe e nke sebaka sa 15cm, 'me se phahame bonyane ka 40cm ho tloha fatše hoesa holimo (Setšoantšo 2.15).



SETS'OANTS'O 2.15
Mohlala oa Kalana

Mehlala ea matlo a likhoho tse libeke li 'ne hoesa holimo

Mehlala e latelang ke ea matlo a likhoho ao Lihoai li ruetseng likhoho tse nako e mahareng le tse seng li le khoho ka ho tsona ka katleho. Mohlala o mong le o mong oa ntlo o bontša lintlha tse tšohluoeng ho tse ka eloang-hloko hahoa ahoa ntlo ea likhoho tse libeke li 'ne le tse khoho.



SETS'OANTS'O 2.16
Mohlala oa ntlo



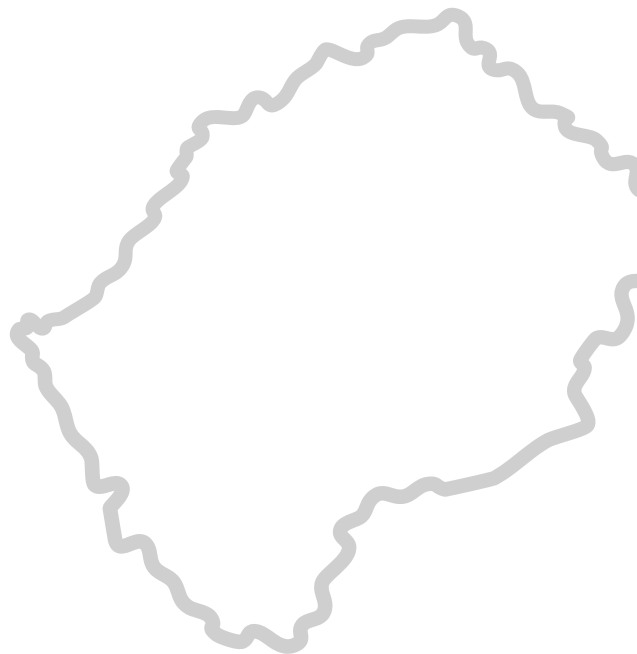
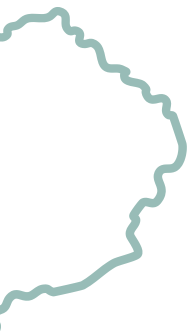
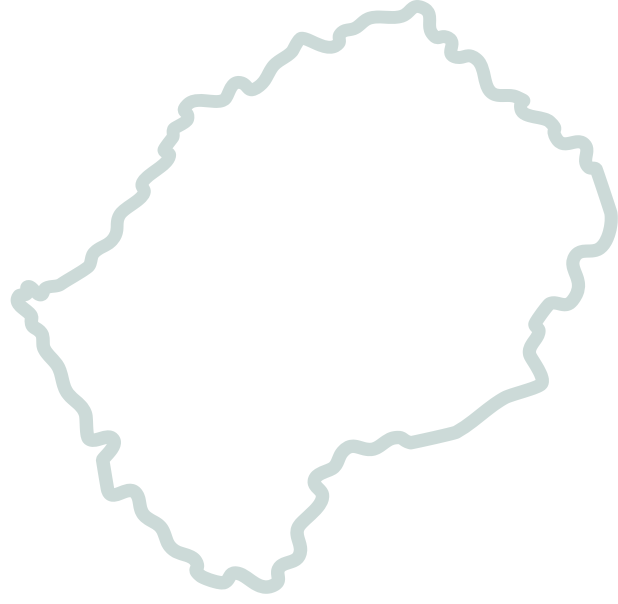
SETS'OANTS'O 2.18
Mohlala oa ntlo



SETS'OANTS'O 2.17
Mohlala oa ntlo



SETS'OANTS'O 2.19
Mohlala oa ntlo



3. Tlhokomelo ea Litsuonyana tsa DPP Nakong ea kholiso ea Litsuonyana

Selelekela

Nako ea khuliso ea litsuonyana (Brooding) ke ea libeke 'ne tsa pele ho isa ho tse tšeleletseng tsa bophelo ba khoho, nakong eo e hlokanang mofuthu le tlhokomelo e hlokolosi hore e phele. Litsuonyana ha li khone ho laola mofuthu oa 'mele ea tsona nakong ena e hlokolosi. Ka tlholeho, mofuthu o fanoa ke sethole seo eleng 'malitsuonyana kapa lifuthumatsi tse iketselisoeng. Nako ena ke ea bohloka ho bahlahisi ba likhoho tsa dual-purpose kaha ebile e leng nako eo likhoho li fuang liente/ente ho li lokisetsa liqholotso tse amahanngoang le mokhoa oa ho rua o litsuonyana li sa kalloeng, li itsamaela ka bolokolohi. Tlholehong mafu a mangata a hlaha ka eona nako ena, sena se bontša bohlokoa ba ho hlokomela litsuonyana hofihlela li se lika sela ka botsona.

Litsuonyana li hlokolosi haholo ho tloha ha li qeta ho qhotsoa. Khatello efe kapa efe ho tsona e na le litlamorao. Karolo e latelang e fana ka tataiso tlhokomelong ea tikoloho le litsuonyana ho fihleletse li se li holile ho lekana hore li ka sela ka botsona.

Tlhokomelo ea ntlo ea Litsuonyana

Pele litsuonyana li fihla, ntlo e tlameha eabe e hloekile ebile e lokisitsoe. Ntlo e loketseng litsuonyana ke e netefatsang hore litsuonyana li phuthuloa kapele sebakeng sa tsona se secha.

Sebaka sa ho amohela litsuonyana

Ke sebaka se hloaetsoeng ho amohela litsuonyana ka ntlong ea likhoho, seo maemo a sona a etsang hore tsuonyana e phuthulohe. Ke sebaka se bolokoang ho fihlela litsuonyana li se li khona ho laola mofuthu oa 'mele ea tsona. Sebaka sena se tlameha ho lokisoa lihora tse 48 pele litsuonyana li fihla. Tse latelang ke litlhophisano tse tlamehang ho etsoa pele litsuonyana li fihla:

1

Tokiso ea sebaka

Tokiso ea sebaka pele litsuonyana li kena, netefatsa sebaka seo litsuonyana li tlo se nka molemong oa ho qoba tšubuhlellano. Ts'ubuhlellano ea likhoho eka baka hore likhoho li selekane ka lebaka la ho tseka, sebaka, lijo le metsi. Lesotho, naha e phahameng, moo phallo ea moea matlong a likhoho e tloaelehileng, likhoho tse subuhlellaneng lika felloa ke moea o hloekileng, 'me sena sa baka mafu a kang ascites (khoho li tla metsi ka mpeng) ka lebaka la mokelikeli.

Ho nepa kabo ea sebaka seo likhoho li tlo lula ho sona, sebaka se teng fatše se tlameha ho hlahlojoa le ho netefatsa hore likhoho tse 15 li tla fella sebakeng sa 1m². ho tlameha ho hloa e libaka tseo hotla beoa lintho tse ling pele ho hloa uoa se tlo nkuoa ke litsuonyana ho netefatsa hore sebaka etla ba se lekaneng.

2

Litšireletso tsa sebaka sa leifo (Brooder guard)

Litšireletso tsena ke tse etsang hore tsuonyana e felle fela moo e lukiselitsoeng, moo maemo a teng a lumellanang le boemo ba litsuonyana (Setšoantšo 3.1). Litšireletso tse li ka etsoa ka mapolaka, mosenaete le mabokose joalo-joalo. Molemo oa tsona ke ho netefatsa hore likhoho ha li tsael hole le mohloli oa mocheso.



SETS'OANTS'O 3.1

Mohlala oa Lits'ireletso tsa sebaka sa leifo

Litšireletso tsa sebaka sa leifo (brooder) li lokela hore li be bonyane bofelele ba lisentimitara tse 30 hore li khone ho boloka mofuthu ka katleho. Li ka fetoloa kapa tsa tlosoa ka mora beke ea pele ha likhoho li ntse li hola. Molemong oa ho fumana liphetho tse ntle haholo, litšireletso tsa leifo (brooder) li lokela ho beoa ka sebopeliso sa selikalikoe ho thibela hore litsuonyana li qhobellane likhutlong, sena se ka baka hore

li bupetsane kapa tsa ntšana likotsi. Haeba ntlo/ kamore ea leifo (brooder) e ena le mahlakore a mane, koala likhutlo moo mahlakore a kopanang ka lebokose kapa eng kapa eng e sireletsehileng.

3

Moalo

Lihora tse 24 pele litsuonyana li fihla, ala moalo fatše hore likhoho li fumane sebaka se bonolo, se phuthulohileng ha li fihla. Moalo ona o boetse o monya mongobo o tsoang mantleng a litsuonyana, se boloka kamore ea leifo (brooder) e omme. Moalo o nepahetseng e kaba lipampiri tse tabotsoeng (Setšoantšo 3.2), litlhaka tsa patsi (Setšoantšo 3.3), joang, makhekhebu a phaene, kapa lehlabathe. Leha ho le joalo, lehlabathe ha le khotlaetsoe mariha hobane ha le boloke mofuthu. Moalo ona o lokela ho aloa ka ho lekana ho fihlela botebo ba lisentimitara tse leshome (10cm).



SETS'OANTS'O 3.2

Moalo oa lipampiri



SETS'OANTS'O 3.3

Moalo oa makhekhebu a phaena

4

Lifuthumatsi

Se seng sa lisosa tse ka sehloohong tsa ho shoelloa nakong ea ho holisa litsuonyana ke tlhokahalo ea mofuthu o lekaneng.

Mehloli e sireletsehileng ea mofuthu e lokela ho sebelisoa ho boloka mocheso o lokaneng sebakeng sa litsuonyana. Litsuonyana ha li khone ho laola mocheso oa 'mele oa tsona matsatsi a pele a 5–7. Ka lebaka la mapheo a sa ntseng a hola le boea bo fokolang bo sa sireletseng hantle, likhoho li hloka mocheso o ka bang 32°C ka letsatsi leo li keneng ka lona. Mocheso ona o lokela ho fokotsoa butle-butle ka 2–3°C ka beke ho fihlela litsuonyana li se li na le mapheo a felletseng. Hlahloba boitšoaro ba litsuonyana 'me u fetole mocheso ho latela boemo.

Lisebelisoa tsa ho futhumatsa li ka sebelisoa ka motlakase, mashala, patsi, parafini kapa khase. Ha u sebelisa mashala kapa patsi, besetsa mollo ka ntle ho ntlo ea likhoho ho qoba hore litsuonyana li heme mosi. Beha lifuthumatsi ka tsela e anetsang mofuthu ka ho lekana ka phaposeng ea leifo ho qoba ho se lekane hoa mocheso o fihlang litsuonyaneng.



Keletso

Beha mabone a futhumatsang likhoho (infra-red) haufi le likhoho hore mofuthu o li anele, fetola sebaka sa ona ho ipapisitsoe le boitšoaro ba tsona

Mehlala ea lifuthumatsi tse ka sebelisoang ho futhumatsa likhoho tsa dual-purpose:



SETS'OANTS'O 3.4

Moritšoana o choatlehileng o tšetseng mashala



SETS'OANTS'O 3.5

Setofo sa mashala se nang le chomela



SETS'OANTS'O 3.6

Moqomo o fetotsoeng paola



SETS'OANTS'O 3.7

Sefuthumatsi sa letsopa le mabone a infra-red

5

Mocheso

Sesebelisoa se methang mocheso ka hara ntlo nakong eo likhoho eleng litsuonyana molemong oa ho hlahloba mocheso. Haeba sesebelisoa se joalo se le sieo, oka hlahloba boitšoaro ba litsuonyana. Ho khobokana ho ka bolela hore li hatsetse, ha ho suthela thoko ho mohloli oa mochisa ho bolela hore ho oa chesa.



SETS'OANTS'O 3.8

Semetho sa mocheso

6

Ho Bonesa

Fana ka mohloli oa khanya ka hara sebaka sa ho holisa litsuonyana. Litsuonyana li ja le ho noa haholo-holo ha ele motšoare ho khanya, ka hona lefifi la nako e telele le ka fokotsa sekahla sa ho ja.

Mabone a motlakase oa letsatsi kapa a mashala (betiri) a ka sebelisoa libakeng tseo motlakase o leng sieo.



SETS'OANTS'O 3.9

Mohlala oa lebone la leshala (betiri)
Credit: Benwei Lighting



SETS'OANTS'O 3.10

Tšebeliso ea motlakase oa letsatsi

7

Sekala

Tšebeliso ea sekala se senyane ho hlahloba kholo ea litsuonyana beke le beke. Ho kala ho netefatsa hore likhoho li hola ka nepo.

**SETS'OANTS'O 3.11**

Mohlala oa sekala

8

Lijo

Lijo ke motheo oa tlhahiso e atlehileng bakeng sa likhoho tse sebelisoang ka mekhoa e 'meli. Pele likhoho li fihla, ho eletsoa hore lijo tsohle tse hlokalang ho qeta bolelele ba tlhahiso (matsatsi a 28) li rekoie ho morekisi ea tšepahalang. Lijo tsa boleng bo holimo li lokela ho ba le litekanyetso tse nepahetseng tsa limatlafatsi tse hlokalang bakeng sa kholo ea litsuonyana. Limatlafatsi tsena li thueha nakong ea tšilo ea lijo ho fana ka matla bakeng sa kholo le motsamao, liprotheine bakeng sa kholo ea mesifa (e tla kotuloa hamorao e le nama), le liminerale tse hlokalang bakeng sa kholo ea masapo le tlhahiso ea mahe.

Lihoai li lokela ho netefatsa ho lijo ke mofuta oa makumane a manyane, o loketseng litsuonyana. Lijo li ka ama ho ja le ho hola hoa litsuonyana. Lijo tse mathumisa haholo li ka fokotsa sekahla seo litsuonyana li jang ka sona 'me li ka baka ho se hole hantle. Lijo tsa likhoho li fumaneha ka mofuta e meraro: Phoofo (mash), makumane (Crumble), mathumisa (Pellet).

**SETS'OANTS'O 3.12**

Phoofo

**SETS'OANTS'O 3.13**

Makumane

**SETS'OANTS'O 3.14**

Mathumisa

Mefuta ea Lijo le Mesebetsi ea tsona

- ✓ **Phoofo:** e likaroloana li nyane, e ntle bakeng sa litsuonyana empa e senyeha ha bobebe.
- ✓ **Makumane:** a likaroloana li mahareng, a kothalelitsoe ka lebaka la ho se senyeha ha bobebe ebile litsuonyana li khona ho ja limatlafatsi tse lekaneng.
- ✓ **Mathumisa:** a likaroloana li kholo, a kothalelitse likhoho tse kholo **eseng litsuonyaneng**.

Nakong ea kholiso ea litsuonyana (brooding phase), fana ka phoofo ea setatara ea likhoho tsa mahe (layer starter mash) libeke tse peli tsa pele, ebe o fetela ho tse makumane (starter crumble) ho isa ho letsatsi la bo-28. Boloka lijo sebakeng se pholileng, se ommeng se senang likhoto. Beha lijo ka hara lijelo tsa litsuonyana le holima lipampiri/koranta tse aliloeng fatše lihora tse 24 pele ho kamohelo ea litsuonyana.

Polokelo e nepahetseng ea lijo e bohlokoa ho boloka boleng le limatlafatsi tsa tsona. Mekotla ea lijo e lokela ho beoa holima liphalete sebakeng se pholileng, se ommeng, se senang likhoto. Lihora tse 24 pele litsuonyana li fihla, lijo li lokela ho tšeloa ka hara lijelo tsa litsuonyana, le ho tseloa holima lipampiri tse beuoeng ho pota-pota le sebaka sa bohlokomeli ba litsuonyana ele ho lokisetša ho fihla hoa litsuonyana.



Malebela

Tsuonyana e nngoe le e nngoe e lokeloa ke boima 15-20 grams ha li qala ho ja lekhetlo la pele.

Moralo oa ho fepa Setatara (Layer Starter Feed) litsuonyaneng tse 100

Ka tlhokomelo e nepahetseng, tse latelang li kothalelitsoe ho ruoeng likhoho tse 100 tsa 'dual-purpose' nakong ea bohlokomeli ba litsuonyana:

Pele litsuonyana li fihla:

- Mokotla o le mong oa setatara se phoofo (layer starter mash).
- Mekotla e 'meli ea setatara se makumane (starter crumble).

Lipalo tse na tsa lijo li tla netefatsa kholo ea litsuonyana mothating ona oa pele oa kholo. Lijo tsohle tse sa sebelisoang li lokela ho bolokoa hantle ho boloka boleng hore li tle li sebelisoa mokhahlelong o hlhamang oa litsuonyana.



SETS'OANTS'O 3.15

Likhoho tsa Dual Purpose li jella ka sejelong

9

Lijelo

Lijelo li tlameha ho hloeka le hoba boholo bo lokelehang. Netefatsa hore lijelo li lekane lenane ho fokotsa tlholisano ea ho fihlela lijo. Qalong, sebelisa lijelo tse tlase ka seemo, ebe butle-butle o fetela lijelong tse kholo ha likhoho li ntse li hola. Lejelo tse tloaelehileng li kenyeletsa:

- **Sejelo sa terei sa litsuonyana (Matsatsi 1–5):** terei ele nngoe litsuonyaneng tse 50
- **Sejelo se sebilikoe (Matsatsi 1–7):** lijelo tse 3 litsuonyaneng tse 100
- **Sejelo sa se masoba a motopo (Matsatsi 1–7):** lijelo tse 4 litsuonyaneng tse 100
- **Sejelo sa bongata (Matsatsi 1–7):** lijelo tse 4 litsuonyaneng tse 100 (boholo ba 5kg)
- **Sejelo se hakoang holimo (Matsatsi a 7 hoesa holimo):** lijelo tse 3 litsuonyaneng tse 100 (boima ba 15kg)



SETS'OANTS'O 3.16

Sejelo sa terei



SETS'OANTS'O 3.17

Sejelo se sebilikoe



SETS'OANTS'O 3.18

Sejelo se masoba



SETS'OANTS'O 3.19

Sejelo sa bongata



SETS'OANTS'O 3.20

Sejelo se hakoang holimo

10

Linoelo

Listuonyana li ka se phele li sa noe metsi. Joalo ka lijelo, linoelo li tlameha ho nepahala ho ipapisitsoe le nako ea likhoho. Mohlala oa linoelo mabenkeleng ke tse latelang:

- **Linoelo tse nyane (Matsatsi 1–7):** Linoelo tse 3 litsunyaneng tse 100 (3L/4L) (Setšoantšo 3.21)
- **Linoelo tse sebopeo sa tšepe ea sekolo (Litsuonyana tse kholo):** senoelo se le seng litsuonyaneng tse 70-100 (boima ba 10L) (Setšoantšo 3.22)



SETS'OANTS'O 3.21

Senoelo sa litsuonyana



SETS'OANTS'O 3.22

Senoelo se bopelng joalo ka tšepe ea sekolo

11

Lintho tsa khale tse sebelisitsoeng bocha ho etsa linoelo le lijelo

Lisebelisoa tsa khale li ka sebelisoa ho etsa lijelo le linoelo tsa maiketsetso.



SETS'OANTS'O 3.23

Senoelo sa maiketsetso



SETS'OANTS'O 3.24

Sejelo sa maiketsetso



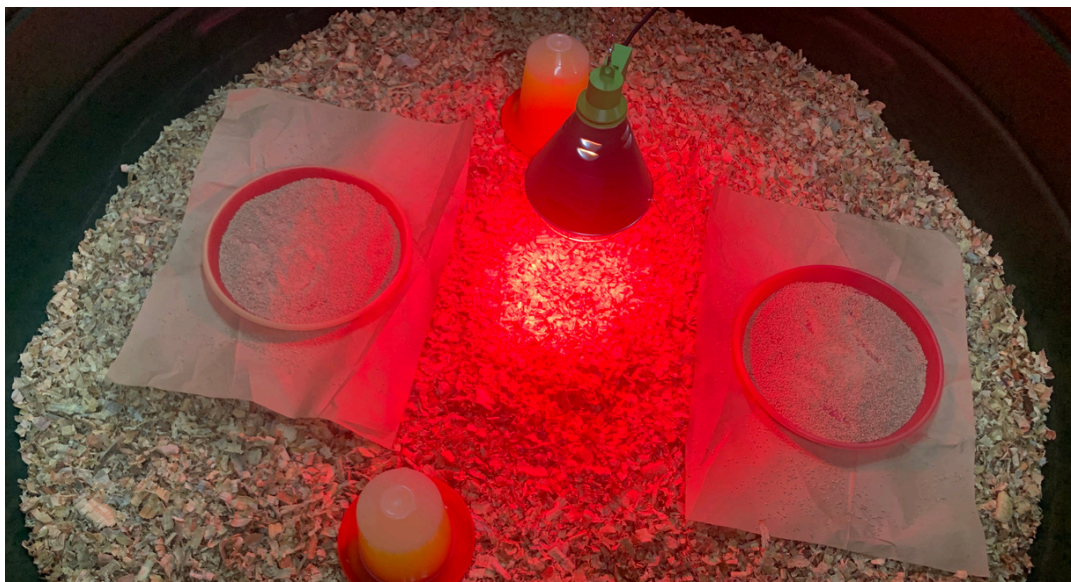
SETS'OANTS'O 3.25

Sehoai se tšella likhoho tsa sona tsa dual-purpose lijo ka letsoho

12

Pampiri

Pele likhoho li fihla, ala lipampiri holima moalo ebe u tšella lijo tsa likhoho holima tsona (setšoantšo 3.26). Sena se etsa hore litsuonyana li qalelle hoja. Hleka lipampiri kamora matsatsi a 2-3 ha litsuonyana li se li khona ho ja hantle.



SETS'OANTS'O 3.26

Pampiri tse beuoeng tlasa Lijelo

Tlhokomelo ea Litsuonyana

Ho Tsamaisa Likhoho ho Tloha sebakeng sa qhotsiso (Hatchery)

Leeto la ho tloha moo ho qhotsisoang kapa moo ho latoang litsuonyana ho ea ntlong ea likhoho le lokela ho tsamaea ka thello ka tsela e ikhethang. Ho rala esale nako ho bohlokoa, ho rereng litsela tseo ho tlang ho tsamaoa ka tsona. Likhoho li lokela ho latoa nakong ea letsatsi e pholileng. Ea amohelang o tlameha a hlape matsoho ka sesepa le metsi a phallang, a hlahlobe likhoho ho netefatsa hore li ea phela ebile li maemong a nepahetseng a bophelo. Le hoja litsuonyana tse tsoang sebakeng sa qhotsiso li hlahlobuoe, ho bohlokoa ho li hlahloba hape, ho netefatsa hore ke boleng bo holimo feela ba litsuonyana tse kenngoang polasing. Matšoao a bohlokoa a litsuonyana tse phetseng hantle ke ana a latelang::



SETS'OANTS'O 3.27

Mohlala oa ho tsamaisa litsuonyana



SETS'OANTS'O 3.28

Mohlala oa ho tsamaisa litsuonyana



Malebela

Qoba ho sebelisa likoloi tsa baeti ho tsamaisa litsuonyana

Matšoao	Karabo
E mafolo-folo	E tlameha e eme ka maoto ka metsotsoana e meraro ha e beuoe ka hara letsoho ka mokokotlo
E khanye le mahlo a hlake	Mahlo a lokela a khanye, a hlake, a seke a qhitsu kapa a ruruha.
E hloekile ebile e omme	Masiba a tsuonyana a lokela a hloeke abe a ome, a seke a eba le matšoao a litšila, maqapha-qapha, kapa mongobo. E seke ea eba le mantle 'meleng.
E etsa melumo	E tlameha e etse melumo, e lle hae nkoa ka letsoho kapa ka lebaka la tikoloho e e pota-potileng, ho bontša mafolo-folo a lekaneng.
Maoto le molomo a be boreleli, a be bonolo	Molomo le maoto li tlameha ho ba boreleli, li be bonolo, li seke tsa taboha kapa tsa eba le bokooa.
Mokhubu o koaelehe hantle	Mokhubu o lokela ho hloeka hape oa bo folile, o sena matšoao a tšoetso le ho ruruha. O seke a lutla mali kapa oa petla.

Kamora ho hlahloba sehlotšoana sa litsuonyana, netefatsa hore lebokose lena le moalo o lekaneng ho fa litsuonyana phuthuloho. Haho lebaka la ho fana ka lijo le metsi nakong ea leeto, kaha litsuonyana li ena le limatlafatsi tse hlahang mothoebeng. Leha ho le joalo, lijo le metsi li tlameha ho fumaneha hang-hang ha litsuonyana li fihla. Nakong ea leeto, litsuonyana li lokela ho fumana moea o lekaneng ka ho qoba ho beha mabokose a palamane moo ebang ho thotuo mabokose a 'maloa. Haeba ho ka etsahala hore kolo e robehe, beha litsuonyana sebakeng se enang le moea o lekaneng, se enang le moriti ho fihlela kolo e 'ngoe e fihla.



SETS'OANTS'O 3.29

Lihoai li lokela ho hlahloba litsuonyana hang ha li fihla ho netefatsa hore li maamong a matle a bophelo.

Ho Amohela litsuonyana tse Seng li Fetile Libeke tse 'Ne

Ntho ea pele e lokelang ho etsoa ha litsuonyana li fihla ke ho li bala, ebe li nkoa boima.



Ho Bekhoa Boima

Litsuonyana li lokela ho bekhoa boima hang ha li fihla le ka mora beke li fihlile. Boima ba pele ha li fihla ke motheo o tla sebelisoa ho etsa lipapiso tsa ka moso. Ka morao ho moo, boima bo bekhoeng hoseng pele lijelo, li tlatsoe ho netefatsa lipalo tse nepahetseng.

Qalong, sejelo se sa tšelang se ea bekhoa, ebe boima boo bo ea ngoloa. Karoloana ea litsuonyana e ea khethoa ho ipapisitsoe le boholo ba leruo. Boholo ba karoloane ena e khethiloeng bo hola ka mokhoa o latelang:

Leruo	Palo ea Likhoho
100 le ho ea tlase	10
150	15
200	20
250	25
300	30

Libekeng tse hlahlamang, karolo e khethoang e ncoe libakeng tse fapaneng tsa sebaka se holisetsoang ele ho netefatsa lipalo-palo tse batlang li akaretsa leruo. Likhoho tse khethiloeng li bekhoa ha 'moho li tšetsoe ka hara nkho, ebe boima ba tsona bo ea ngoloa, ebe ho tlosoa boima ba nkho esa tšelang. Boima bo fumanoang ba mapomela bo aroloa ka palo ea karoloana e bekhuoeng ele ho fumana boima bo lipakeng bakeng sa khoho ka 'ngoe.

Mehato ea Mantlha ea ho bekha

- ✓ Bekha nkho esa tšelang ebe u ngola boima
- ✓ Khetha karolo e itseng ea likhoho u ipapisitse le lenane la leruo
- ✓ Bekha karolo eo e khethuoeng ha 'moho ka hara nkho
- ✓ Tlosa boima ba nkho ho kakaretso
- ✓ Arola kakaretso eo u fumanang ka palo ea likhoho ho fumana boima ba khoho ka 'ngoe

2

Ho Fepa le ho Noa Metsi

Litsuonyane li tlameha ho qalella ho ja le ho noa hang-hang kamora hore li fihle. Beha litsunyana haufi le lijo tse tšetsoeng holima pampiri ele ho akufisa hore li hlaise tlholeho ea tsona ea ho kobola. Ho fana ka motsoako oa 'Stress Pack' o fupereng matsoai a hlokaalang, ho fukotsa litla-morao tsa khatello.

Ho hlahloba kilana: Hlahloba hore na litsunyana li ea ja le ho noa ka ho lekola kilana (Setšoantšo 3.30) ka hora tse 2, 8, 12, 24, 48 kamora kamohelo ea tsona. Phopholetsa ka hlokolosi ho utloa ho tšela hoa kilana (qetellong ea molala). Kilana e bonolo e tletseng ke sesupo sa ho ja le ho noa ho nepahetseng. Utloa kilana ea karolo ea litsunyana tse leshome libakeng tse fapaneng; kamora lihora tse 12, litsunyana tse 8 ho tse 10 li tlameha li be le kilana tse tletseng.



SETS'OANTS'O 3.30

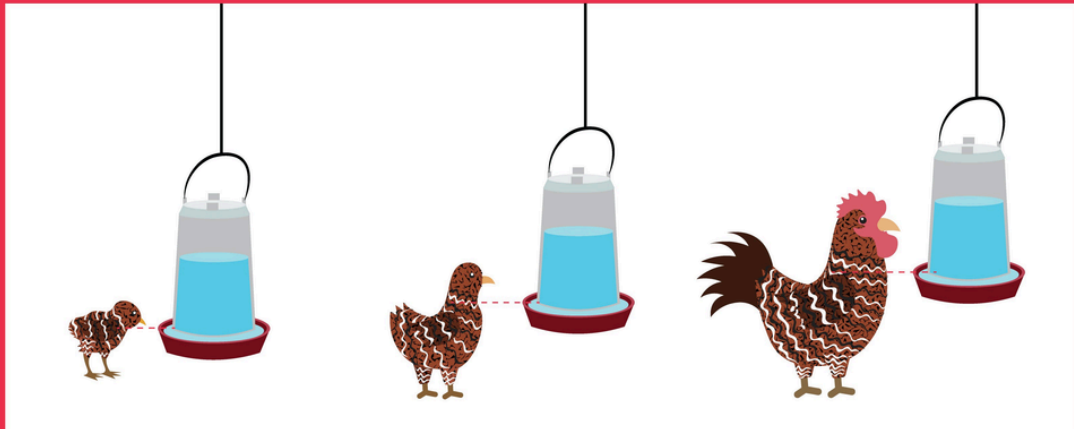
Ho hlahloba kilana

Nako/ Lihora Kamora Kamohelo	Karolo lekholong ea tse kilana e tletseng
2	75%
8	80%
12	85%
24	95%
48	100%

Ha kilana esa tšela, akofisa ho ja hoa litsunyana ka ho beha lijo haufi le tsona. Kilana e thata e hoashang e supa hore tsunyane ha e noe metsi hantle; qopetsa melomo ea tsona ka metsing ho li khotlaetsa ho noa.

Lijo le metsi li tlameha ho lula li le teng. Metsi a lokela ho hloeka hape e seke ea eba a khale, sena se bohlokoa tšilong ea lijo le bophelo bo lokileng ka kakaretso. Maemo a mocheso o amohelehang ka hara ntlo, a senang mafu, a bohlokoa haholo. Haele mariha, lifuthumatsi (heaters) li ka sebelisoa ho thibela litsunyana ho sebelisa matla a lijo ho ipoloka li futhumetse, 'me sena se theola litšenyehelo tsa lijo.

Boholo ba likarolo tsa lijo tseo likhoho li li jeleng bo tlameha ho siloa ke 'mele ea likhoho. . Lokisa bophahamo ba lijelo le linoelo ho thibela ho qhalana.



Tse letsatsi le leng ho isa ho a mahlano

Tse matsatsi a 6 ho isa ho a 28

Tse matsatsi a 29 ho ea holimo

SETS'OANTS'O 3.31
Bophahamo bo nepahetseng ba linoelo

Lijelo li seke tsa tlatsoa haholo kaha seo se ka etsa hore lijo li qhale. Lijelo tse lekaneng lenane li tlameha ho ajoa ka ho lekana ho pharalla le ntlo ele ho fokotsa menyetla ea tlholisano ea ho li fihlela. Ho fetola litsuonyana lijo ho tloha ho tse phofo ho tlameha ho etsoe ha nyane ka ha nyane ele ho li tloetsa tse makumane. Ka letsatsi la bo 12, li fe motsoako oa 25% makumane le 75% phofo. Ka letsatsi la bo 13, fetolela litekanyo ka 50% makumane le 50% phofo. Ka letsatsi la bo 14, litsuonyana li se li ka ja lijo tse makumane feela ka kotloloho.

Boleleleng ba methati ena, hlahloba tsela eo li jang ka eona. Haeba litsuonyana li bonahala li le leqe ho ja kapa li theola tsela eo li jang ka eona, fokotsa sekahla sa phetolelo ka ho eketsa phofo matsatsana a fokolang pele litsuonyana li ka tsa tloaela mofuta o mong oa lijo. Ka ho ela-hloko lintlha tsena, baholisi ba litsuonyana ba ka netefatsa hore ba sebelisa lijo tse lekaneng molemong oa tlhahiso e atlehileng empa ba sa fokotsa phaello tsa bona.


Phetolo ea Lijo ho Tloha ho Phofo Hoesa ho Makumane

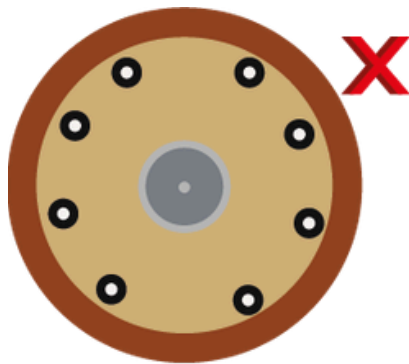
- ✓ Letsatsi la 12: 25% Makumane, 75% Phofo
- ✓ Letsatsi la 13: 50% Makumane, 50% Phofo
- ✓ Letsatsi la 14: 100% Makumane

3

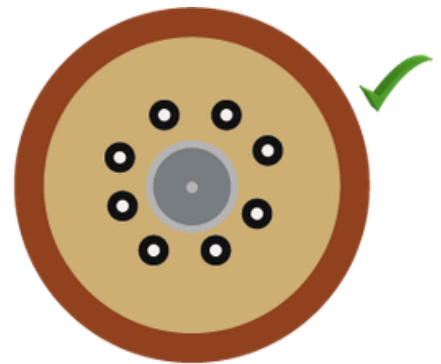
Mofuthu

Ha li fihla, ntlo e holisetsang litsuonyana e lokela eabe ele mofuthung oa 30-33°C. sebelisa sesebelisoa se hlahobang mocheso kapa oa sheba boitšoaro ba litsuonyana:

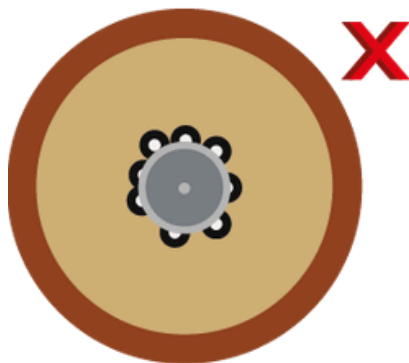
Maemo	Boitšoaro	Pheko
Ha ho bata haholo	Li tla khobokana haufi le sefuthumatsi.	<ul style="list-style-type: none"> Theola sefuthumatsi Eketsa mashala ka setofong
Ha ho chesa haholo	Litsuonyana li hema ka boima, li baleha mochesong	<ul style="list-style-type: none"> Nyolla mabone a infra-red Fokotsa masha ka setofong
Ha ho le moea	Li khobokane sekhutlong ka lehlakoreng leo moea osa fokeleng	<ul style="list-style-type: none"> K oala lesoba leo moea o kenang ka lona
Ha ho nepahetse	Li itjalile ka ho lekana ka tlung	



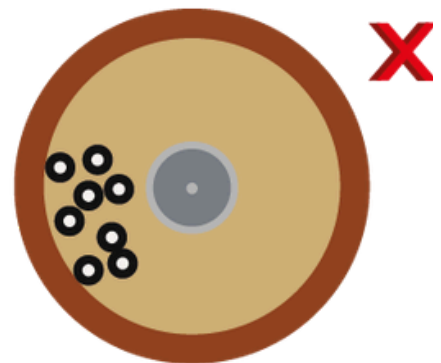
Mocheso o phahameng haholo



Mocheso o nepahetseng



Mocheso o tlase haholo



Moea o batang

SETS'OANTS'O 3.32

Mohlala oa boitšoaro ba litsuonyana ka tlung ea tlhokomelo

Ha likhoho li hola li mela masiba, fokotsa ho futhumatsa.

4

Potoloho ea Moea

Ho potoloha ha moea ka nepo ho bohlokoa bakeng sa kholo e ntle ea likhoho, haholo-holo ka mor'a hore likhoho li be le masiba ka botlalo. Moea o kenang hantle o thusa ho omisa mongobo moalong oa likhoho, ebe o fokotsa khase ea ammonia, 'me o lumella moea o hloekileng hore e kene ka tlung ea likhoho, o ntše o sa hloekang o kotsi (carbon dioxide), ammonia, likokoana-hloko le marole. Leha ho le joalo, ka lebaka la mariha a batang a Lesotho, lihoai li khetha mofuthu ho feta potoloho ea moea o nepahetseng, 'me sena se lebisa ho boleng bo fokolang ba ntlo ea likhoho. Sena se beha bophelo ba leruo tlokotsing, ha ngata ho lebisa hose hole hantle, mafu a mangata le ho se tšoane hoa likhoho.

Leruo le sa tšoaneng le na le qholotso tse 'maloa. Likhoho tse kholo kapa tse matla ho feta tse ling eba tsona feela tse fihlellang lijo, metsi le sebaka hantle, ebe li siea tse nyane li sena phepo e nepahetseng. Kholo ena e sa tšoaneng e etsa hore ho be thata ho fihlela sepheo sa tlhahiso, e thatafatsa tlhokomelo ka lebaka la lithoko tse fapanang tsa phepo le sebaka, hape e nolofatsa hore likhoho tse fokolang li be le khatello le ho tšoaroa ke mafu ha bobebe. Qetellong, ho se tšoane hoa leruo ho lebisa ho tlhahiso e fokotsehileng, sekahla se phameng sa phetoho ea lijo 'meleng, 'moho le tahlehelo ea moruo kaha bareki le lilakhapane ba sa amohele ho reka likhoho tse sa tšoaneng.

Bothata bona bo boetse bo mpefatsoa ke bophahamo ba Lesotho, moo maemo a tlase a moea o hengoang (oxygen) a susumetsang hore potoloho e nepahetseng ea moea ebe tlhoko ea mantlha. Ho rarolla sena, matlo a likhoho a lokela ho buloa haholo ka mahlakoreng ho fapana le ho etsa mabota a malelele ebe ho buleha ha nyane. Mahlakore ana a bulehileng a ka koaheloa ka seili e boima, ea koaloe bosiu ho boloka mofuthu, eaba e ea buloa motšoare ho netefatsa potoloho ea moea. Mokhoa ona o netefatsa hore moalo o lula o omme, le hore moea o sa hloekang o tsoe, o lumella hore moea o hengoang (oxygen) o kene ka bongata ka hara ntlo, ebe o fokotsa menyetla ea lefu la 'water belly'. Ho leka-lekanya phallo ea moea ho ipapisitsoe le maemo a mocheso le serame ho bohlokoa ho netefatsa leruo le phetseng hantle, le tšoanang ebile le fihlela sepheo sa tlhahiso.



SETS'OANTS'O 3.33

Ntlo e nang le phallo e nepahetseng ea moea
Credit: Boschveld Farm, South Africa

5

Moalo

Moalo ka hara ntlo ea likhoho o ka fetoha sebaka seo likokoana-hloko li atang ha o sa hlokomeloe hantle. Moalo o metsi o eketsa pokello ea khase ea 'Amonia', e utloahalang ka monko o bohale. Moalo o metsi o boetse o etsa ntlo e batang, haholo ha ele mariha nakong eo lihoai li khethang mofuthu holima potoloho e nepahetseng ea moea.

Ho netefatsa tikoloho e hloekileng ho bohlokoa kaha ho boloka boleng ba moalo ho fihlella likhoho li rekisitsoe ha li se li qetile libeke tse 'ne. Sena se kenyelletsa ho fetola moalo khafetsa ho thibela hore o mamarellane le ho ntša karolo e moalo o metsi, e nang le mantle, ebe ho beoa o ommeng. Ha moalo oa khale, o ka tsoakoa le moalo o mocha o ommeng, hona ho matlafatsa tšebetso ea ona. Tlhokomelo e nepahetseng ea moalo e thusa ho fokotsa khase ea 'Ammonia', e boloka ntlo e omme, e futhumetse, 'me e netefatsa bophelo bo botle le boiketlo ba likhoho.

6

Ho Bonesa

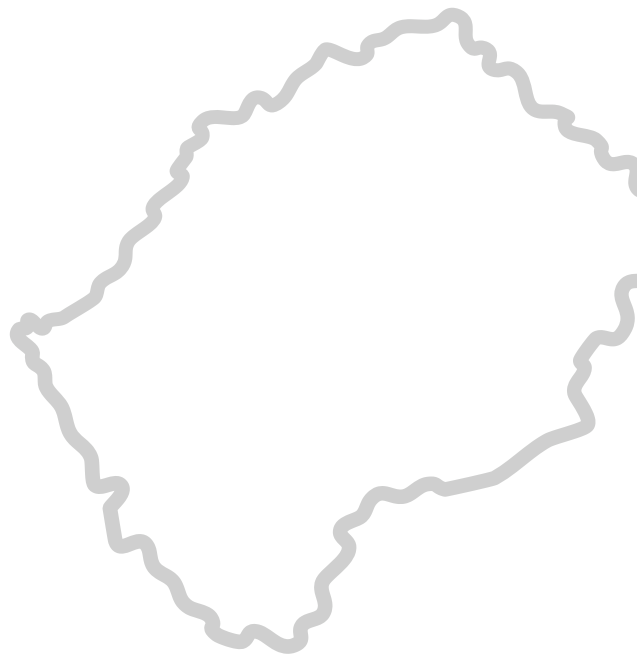
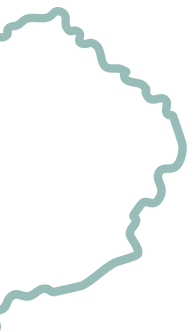
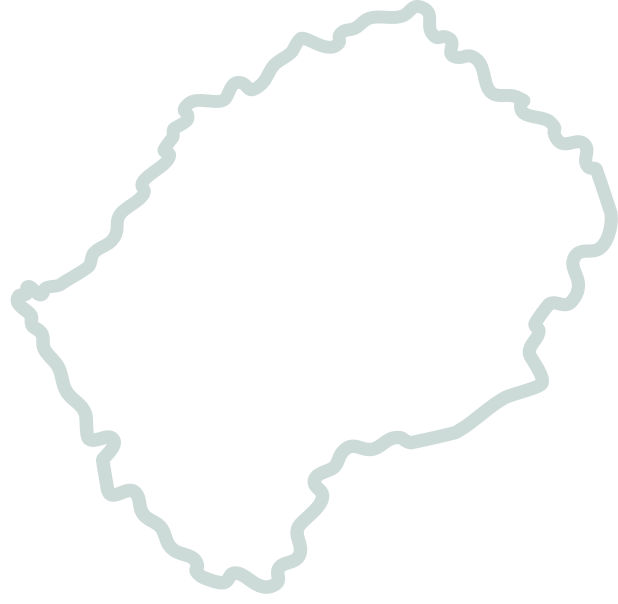
Bonesa lihora tse 23 letsatsi la pele, fokotsa ka hora ele 'ngoe letsatsi le letsatsi hofihlela letsatsi la bo-9 ho lokisetsa litsuonyana methati e hlahlamang. Moralo ona oa ho bonesa o netefatsa hore litsuonyana li tloaela lefifi e le ho li lokisetsa mothati o hlahlamang ha mokhoa oa tlhahiso o fetoha. Hora ena e le 'ngoe ea lefifi e li lumella ho phomola.

Nako	Nako ea khanya	Nako ea lefifi	Tima	Bonesa
Letsatsi 1	23h	1h	Khitla	1:00 AM
Letsatsi 2	22h	2h	Khitla	2:00 AM
Letsatsi 3	21h	3h	Khitla	3:00 AM
Letsatsi 4	20h	4h	Khitla	4:00 AM
Letsatsi 5	19 h	5h	11:00 PM	4:00 AM
Letsatsi 6	18 h	6h	10:00 PM	4:00 AM
Letsatsi 7	17 h	7h	9:00 PM	4:00 AM
Letsatsi 8	16 h	8h	8:00 PM	4:00 AM
Ho tloha ka letsatsi la 9	Khanya ea tlholeho + hora tse 2 tsa ho bonesa (11:00 PM - 1:00 AM)			

Ho Hloaea Bothata: Ho tloha ho litsunyana ho fihlela kamora libeke tse 4

Bothata	Sesosa seo e ka bang sona	Tharollo
Ho se hole	Lijo tse sa lekanag ka bongata le boleng	Netefatsa phepelo ea lijo tsa boleng kamehla
	Tsuonyana ea boleng bo tlase	Netefatsa ho kenya litsunyana tsa boleng ho hlaha moqhotsising ea tšepahalang, le ho tsamisa litsunyana ka boiketlo hali latuo
	Phano e fokolang ea metsi	netefatsa hore metsi a hloekile a macha a teng kamehla
	Ho petetsana	Boloka palo e lekaneng sebaka u ipapititse le meoloane e beuoeng
Ho se lekane le ho se tšoane	Phihlelo ea lijo le metsi e sa lekaneng	Netefatsa hore lijelo le linoelo li abuo e ka ho lekana ho pharalla le ntlo
	Ho petetsana	Ipapise le meoloane ea palo le sebaka ho thibela ho likholo li loanele litlhoko.
	Tikoloho e feto-fetohang (mocheso, potoloho ea moea)	Boloka tikoloho e tšoanang boleleleng thuo.
Moalo o metsi	Potoloho e fokolang ea moea	Netefatsa potoloho ea moea ka ho bula kharetene ea seili
	Linoelo tse lutlang	Lekola linoelo leho li lukisa khafetsa
	Mongobo o mongata	Fetola moalo, u tlose o metsi u behe o mocha o ommeng khafetsa
Serame	Tlhokahalo ea lifuthumatsi	Tsetela ho lisebelisoa tse khonang futhumatsa ntlo
	Thibelo ea serame le mocheso esa nepahalang	Sebelisa lintho tse lokelehang ho laola maemo a serame le mocheso
	Moea o hlabang	Koala masoba maboteng le marulelong.
Likhoho tse hatsetseng	Moalo o metsi	Fetola moalo o metsi ka o ommeng, feto-fetola moalo khafetsa
	Potoloho ea moea esa nepahalang	Eketsa potoloho ea moea ka ho bula seili ka mokhoa o nepahetseng

Bothata	Sesosa seo e ka bang sona	Tharollo
Ho kobolana le ho loana	Ho khobokana	Fana ka sebaka se lekaneng.
	Palo esa lekanang ea lijelo	Beha palo ea lekaneng ea lijelo ho thibela tsekisano.
	Phepo e fokolang	Fepa ka lijo tse tsoang libakeng tse tšepahalang tse khothalelitsoeng.
Phokolo ea metsi likhohong	Palo esa lekanang ea linoelo	Hlahloba linoelo le ho li hloekisa khafetsa; beha tse lakneng lenane la leruo
	Boleng bo fatše ba metsi	Sebelisa metsi a hloekile hape u hloekise linoelo khafetsa
Ho shoa ka sekahla hoa likhoho	Ho qhoma hoa lefu	Netefatsa phumantšo ea liente le liente ka nako e beuoeng, le ho boloka lipehelo tsa tšireletso khahlanong le mafu
	Mocheso o mongata kapa serame se sengata	Ela hloko le ho boloka maemo a mofuthu a nepahetseng



4. Tlhokomelo ea Likhoho tse Seng li Fetile Libeke tse 'Ne

Selelekela

Tlhokomelo ea likhoho tse nako e mahareng (tse qetileng beke tse 4) le tse kholo (tse qetileng libeke tse 12) ke mothati oa mantlha tlhahisong ea likhoho, kaha mothati ona o bontša maemo a bophelo ba likhoho ka kakaretso, tlhahiso, ha 'moho le phaello. Tlhokomelo e nepahetseng mothating ona e netefatsa kholo, tlhahiso ea mahe 'moho le ea nama. Nakong ea matsatsi a ka bang 28 ka mora ho qhotsoa, litsunyana li tsoa ka hara sebaka sa leifo 'Brooding Unit' (BU) moo li neng li ruoe ka mokhoa o hlokolosi, li fetala mokhahlelong oa ho tsamaea ka bolokolohi li sa koalooa. Mothati ona o kenyetse ho li isa sebakeng seo litla ruoa ka bolokolohi (free-range), o hlahlangoe ke nako ea hore li tloetsoe sebaka pele li ka lokolloa hoesa sela. Ho fapana le nakong eo li neng li hlokomeloa ka sebakeng sa BU, moo lijo le maemo li neng li laoloa ka botlalo, mothati of leruo le lokolohileng (free-range) o lumella likhoho li iketsetse phepo ka ho sela. Mekoko e rueloa tlhahiso ea nama, ha lithole tsona li hlahisa mahe ebe lia rekisoa li ea hlajoa ho hlahisa nama kamora hore li tlohele ho behela. Khaolo ena e fana ka tataiso mabapi le matlo, phepo le methati e meng bakeng sa likhoho tse mahareng le tse kholo.

Tokisetso ea ho Amohela Likhoho tse Qetileng Libeke tse 4

1

Serobe sa Likhoho

Serobe sa likhoho tse nako e mahareng (libeke tse 4-12) le tse kholo (libeke tse 12 hoesa holimo) tse rueloang nama le mahe, se lokela ho lokisoa hantle nako pele likhoho li fihla. Mosebetsi oa serobe sena ke ho fana ka tšireletso moo likhoho li ka phomolang, tsa behela mahe, tsa sireletseha khahlanong le tse ka bang kotsi le maemo a mabe a leholimo. Se tlameha se lumelle potoloho e nepahetseng ea moea le ho boloka maemo a boiketlo a likhoho. Sebaka se tlameha se li lekane hantle ho lumella likhoho ho hloella kalana le ho tsamaea ka bolokolohi nakong ea ho phomola, mabokose a lirobe a tlameha a be teng ho lumella likhoho ho behela mahe.

Pele likhoho li fihla, serobe sa tsona se lokela ho hloekisoa ka botlalo ho thibela mafu le liphoofotoana. Fatše eka etsoa ka samente kapa ea aloa mobu o katuoeng. Ho fihlellehe, ho be le monyako o fetelang ka kotloloho sebakeng seo likhoho li phelang ka bolokolohi. Serobe se lokela ho sireletsa likhoho khahlanong le maemo a mabe a leholimo ka ho fana ka mofuthu nakong eo ho batang le moriti nakong eo ho chesang. Mohlala, marulelo a joang aka thibela serame sa bosiu.

Hoka sebelisoa lisebelisoa tse fumanehang haufinyana tse sentse li le teng, li bile li le litjeo li amohelang. Ka ho fapana le nakong ea kholiso ea litsunyana, moo lifuthumatsi e leng tlhoko ea mantlha, likhoho tse mahareng le tse kholo li na le masiba a felletseng 'me li khona ho laola mochoso oa 'mele, ka hona mofuthu oa maiketsetso ha setlhoko.

2

Tikoloho

Bo-kantle ba serobe bo tlameha ho fa likhoho bolokolohi ba ho sela. Sebaka sena se tlameha se terateloe ka sefe etla thibela linonyana le likhoho tse ling ho kena eaba li eba tlokotsing ea mafu a tšoaetsanang. Tikoloho ena e lokela ho bolokoa e hloekile, e lukisoa khafetsa ho netefatsa bohloeki. Ho boloka sebaka se hloekileng bakeng sa likhoho, ho tlosoe tsohle tseo ebang li ka baka likhoto le liphohofotsoana tse ling.



SETS'OANTS'O 4.1

Mohlala oa sebaka sa ho sela, sa likhoho

3

Lijo le Metsi

Beke ea pele ka mora ho kenya likhoho e sebetsa ele nako ea ho tloetsa likhoho sebaka. Nakong ena, likhoho li koaltoa ka serobeng ele ho li tloetsa sebaka sa tsona se secha. Li tšelloa lijo le metsi ka hara serobe feela ho netefatsa phutholoho le ho tloaela. Ka beke ea bobeli likhoho tloetsoa bolokolohi, moo li fuoang monyetla oa ho sela ho fumana lijo. Khoho e 'ngoe le e 'ngoe e fue bonyane 'mithara tse leshome a mahlakoro a mane tsa sebaka, eleng sebaka se lekaneng ho fata liboko le likokonyana hore e iphepe.



SETS'OANTS'O 4.2

Poone e haitsoeng

Metsi a lokela ho fanoa le sebakeng se lokolohileng ho netefatsa hore likhoho li lula li enoa metsi ha li ntse li iphepa. Mantsiboea, likhoho li lokela ho bitsetsoa ho khutlela ka serobeng ka ho bea lijo-thollo haufi le monyako ho khothalletsa hore li khutle. Lijo-tlatsetso li fanoa ka hare ho serobe e le karolo ea koetliso ea ho amahanya serobe le polokeho 'moho le lijo. Ho fepa ka tlatsetso ho ka 'na ha hloka haholo nakong ea mariha ha lijo tsa tlholeho li fokotsehile.

Lijo-tlatsetso li ka tsoakua molemong oa ho fana ka phepo e nepahetseng, e fupereng matsoai a bohlokoa:

Ho tlatsetsa, likhoho li ka ja le masalla a lijo tsa ka lapeng joaloka makhapetla a meroho le lijo tse setseng. Seatla se tletseng sa lijo tse rekuoeng mabenkeleng se fanoe letsatsi le letsatsi ho netefatsa hore li fumana phepo e nepahetseng molemong oa bophelo bo botle, kholo le tlhahiso.

Matsoai	Molemo	Mohloli
Limatlafatsi	Se fana ka matla a kholo, motsamao le tlhahiso ea nama le mahe.	Poone e kothotsoeng, mabele, phoofo, nyalothe, koro
Lihaha-'mele	E ts'ehetsa ntlafatso ea mesifa, tlhahiso ea mahe, le kholo ea masiba.	Naoa ea soea, makotomane, Thotse tsa sonobolomo
Mafura le li oli	Li fana ka matla a loileng, mofuthu, hape li thusa ho monya matsoai a qhibilhang ka hara mafura (A, D, E, K).	Naoa ea soea, lithotse tsa sonobolomo
Livithamine	E tšehetsa masole a 'mele le bophelo bo botle ka kakaretso	Meroho e makhasi a matala (mohlala spinnache, kale, k'habeche)
Liminerale	Kholo ea masapo, tlhahiso ea khaketlana, le bophelo bo ntlafetseng.	Limestone or shell grit (calcium), bone meal (calcium and phosphorus)
Litlheferetsi	E thusa tšilo le bophelo bo botle ba qati	koro, litlheferetsi tsa oat, khaketlana tsa sonobolomo
Metsi	fana ka metsi a hlokahalang 'meleng, thusa tšilo ea lijo le mesebetsi ea litho tsa 'mele	Metsi a hloekileng a chenkoang khafetsa a be teng kamehla

4

Linoelo le Lijelo

Metsi a hloekileng a lule a le teng ka serobeng. Lisebelisoa tse 'maloa li ka fetoloa lijelo le linoelo, joaloka lintho tse tšelang tse entsoeng ka polasetiki, linkho tsa khale le makolokoti. Tsena tsohle li ka hloekisoa khafetsa ho qoba tšilafalo.

**SETS'OANTS'O 4.3**

Thaere ea khale e fetotsoeng sejelo

5

Karolo tse ling tsa tlhokomelo

Tsamaiso ea likhoho tse nako e mahareng le tse kholo

Ho tšoara le ho tsamaisa likhoho ho ka sokolisa, ka hona tšoaro e hlokolosi e bohlokoa ho qoba ho sokola. Lepolanka (masonite) le ka sebelisoa ho qobella likhoho sebakeng se senyane. Ho tlameha ho tšoaroe khoho ele 'ngoe ka nako, ka ho tšoara maotoana ka letsoho le leng le mapheo ka le leng.

**SETS'OANTS'O 4.4**

Mabokose

Likhoho li kenngoa ka hara mokoallo kapa lekereiti hore li tsamaisoe ho tloha ntlong eo litsuonyana li hlokomeloang (brooding house) hoesa moo li ruuoang ka bolokolohi. Mokoallo kapa lekereiti li tlameha li be le sebaka se lekaneng, moea o khona ho potoloha 'me li sitisa hore lihlooho, mapheo le maotoana a khoho ho hlahella kantle. Mabokose (setšoantšo 4.4), basekete ea joang le mekoallo e entsoeng ka terata li ka sebelisoa ho tšela likhoho ha li tsamaisoa. Ho latela Mokhatlo oa Lihoai tsa Likhoho Afrika-Boroa (South African Poultry Association) (SAPA, 2012), mokoallo oa litekanyo tsa 77cm bolelele, 50cm bophara, 30cm bophahamo o khothalelitsoe ho tšela likhoho tse tšeletseng tse kholo.

Pele likhoho li tsamaisoa, boemo ba leholimo bo lokela ho hlahlojoa ho netefatsa maemo a matle. Matsatsing ao pula e nang a lokela ho qojoa, haholo-holo ha likhoho li tsamaisoa ka baesekele kapa sethuthuthu. Ho molemo ho tsamaisa likhoho nakong ea lihora tse pholileng tsa letsatsi ho fokotsa khatello ea mocheso. Ho khetha tsela e potlakileng le e sa li khohlopeng ho ea moo li eang ho khothalelitsoe. Lisebelisoa tse nkang likhoho li lokela ho tlamisoa ka thata ho netefatsa leeto le sireletsehileng le tsitsitseng.

Likhoho li lokela ho tsamaisoa nakong ea lihora tse pholileng ho qoba khatello ea mocheso. Bakeng sa maeto a bolelele bo fetang lihora tse robeli, meroho e metala e kang cucumber, mahapu kapa k'habeche e ka sebetsa e le mehloli ea metsi. Ho bohlokoa ho ela-hloko matšoao a khatello a kang ho hema ka sekahla le ho lla haholo.



SETS'OANTS'O 4.5

Lekereiti la polasitiki le nkang likhoho tse phelang



SETS'OANTS'O 4.6

Likhoho tsa DPP tlasa moriti 'marakeng

Hang ha li fihla, litsuonyana li lokela ho fetisetsoa ka serobeng. Maemong ao likhoho tse kholo li tsamaisoang hoea rekisoa 'marakeng, li lokela ho behoa sebakeng se nang le moriti le moea o potolohang hantle, ha ho khoneha, hole le lerata. Ha li le 'marakeng li lokela ho fua lijo le metsi a lekaneng. Mekoallo/lisebelisoa tseo likhoho li tšetsoeng ka ho tsona li lokela ho ba le sebaka se seholo ho lekana hore likhoho le eme le ho tsamaea ka boiketlo (Setšoantšo 4.5).

6

Ho Tšoea

Hang ha li fihla, likhoho li lokela ho tšoaoua ka mebala, khoele kapa lesela e nang le 'mala e fasioeng leotong fela lesa tiisoa. Lemoha ho se thibele phallo ea mali (Setšoantšo 4.7)



SETS'OANTS'O 4.7

Mohlala oa ho tšoea

7

Ho Tloaela Tikoloho e ncha

Nakong ea ho tloaela tikoloho, ntle le ho boloka likhoho ka hare ho ntlo ea tsona nako ea beke, li lokela ho koetlisetsoa ho tseba pitso e ikhethang. Letsatsi le leng le leng nakong ena, mong'a tsona o lokela ho tlisa lijo ka nako e tšoanang, 'me pele a fepa likhoho, a sebelise pitso e tšoanang ka ho pheta-pheta. Mokhoa ona o thusa likhoho ho amahanya pitso le lijo le ntlo ea tsona.

Nako ea pitso e lokela ho tsoela pele le ka mor'a hore likhoho li lumelloe hoesela ka ntle. Ha nako e ntse eea, likhoho li tla ithuta ho khutlela ka tlang nako le nako ha li utloa pitso.

8

Tlhahiso ea Nama le Mahe

E 'ngoe ea lihlahisoa tsa mantlha ho tse peli tse hlahisoang ke mokhoa ona oa tlhahiso ke nama, ha tlhokomelo e nepahetse, nama eka hlahisoa ho tloha ka libeke tse 12. Mekoko e hola ka potlako ho feta lithole 'me ha ngata e fihlela boima boo hlokoang ke 'maraka pele. Mekoko e meng e hlabeloa ho jooa lapeng la sehoai, ha e meng e rekisoa molemong oa ho etsa lekeno

Lithole ka lehlakoreng le leng, li ruoa bakeng sa tlhahiso ea mahe, e qalang ha ngata kabo libeke tse 20 ho isa ho libeke tse 70-75 ha maemo a tlhokomelo ale matle. Nako e nepahetseng ea ho qala ho behela e fapana ho latela mofuta oa khoho le hore na li hlokometsoe hantle. Nakong ena, lithole litla qala ho sebelisa serobe ho behela mahe a tsona. Lirobe li lokela ho etsetsoa moalo o bonolo o fang khoho tikoloho e sireletsehileng e nang le boiketlo, e tla thibela le mahe ho choatleha. Hang hoba sethole se le seng se qale se sebelisa serobe ho behela mahe, tse ling li se li tla se latela li se li ikisa. Mahe a lokela ho phuthoa khafetsa e le ho khothaletsa likhoho ho behela ka mokhoa o tsitsitseng, ho thibela ho choatleha, le ho thibela likhoho ho fuoama mahe. Mahe a phuthuoeng a ka rekisoa ho hlahisa lekeno kapa a ka sebelisoa ke lelapa. Lekenole hlahisoang ka ho rekisa likhoho le mahe le tla hlahisoa ka botlalo khaolong ea khoebo.

9

Ho Nehela le ho Qhotsisa

Mokhoeng o sepheo sa sehoai eleng ho atisa leruo ka ho nehela likhoho tse rekisoang, tse nyalisitsoeng (hybrid), hona le qholotso ea hore boemo ba litsuonyana bo kaba tlase papisong le ba batsoaili ba tsona. Boholo ba mofuta e ntlafalitsoeng, ke tse nyalisitsoeng, sena se bolela hore li kopantse libopeho tse ntle ka ho fetisisa tsa likhoho tse peli kapa hofeta, joalo ka bokhoni ba ho hlokomela litsuonyana hantle, ho se hloloe ke mafu 'moho le kholo e potlakileng. Khafetsa ho nyalisa hona ho hlapolla lefutso, sena se baka tšebetso e theohileng le ho isa ho meloko e hlahlamang.

Ho tlatsetsa, maamong a metseng, ho na le qholotso e khoho ea hore likhoho tseo eleng litsuonyana tsa khoho ele 'ngoe li ka tlolelana. Ha ngata litlamorao tsa sena ke tlhahiso e theohileng le bophelo bo seng botle ba litsuonyana. Ka hona, ho itšetleha ka likhoho tse nyalisitsoeng ho atisa leruo ha ho sebetse ebile ha ho tiisetse nako e telele. Lihoai li khothaletsoa ho batla likhoho tse ncha ho hlaha baqhotsising ba tšepahalang ho netefatsa tšebetso e phahameng ea leruo.

Haeba lihoai li ikemiselitse ho atisa leruo la bona, ho na le mekhoha e 'meli ea ho qhotsa mahe a nang le peo: ho qhotsa ka tlholeho kapa ka mochini. Ho qhotsa ka tlholeho ho bolela ho sebelisa lithole ho hlokomela mahe ho fihlela a qhotsa. Mokhoa ona o sebetse hantle ho mefuta e behelang mahe ka lihlopha. Leha ho le joalo, boholo ba likhoho tse ruoang mahe le nama (DPP) tse nyalisitsoeng ha li behele ka lihlopha. Ho qhotsisa hoa maiketsetso, ka lehlakoreng le leng, ho etsoa ka mochini o etsisang boitšoaroe ba khoho ha e hlokomela mahe. Ho qhotsa ka maiketsetso ho sebetse moo ho nang le phepele ea motlakase e tsitsitseng.

10

Ho hlaba

Ka tloaelo, mekoko e loka ho tloha ka mora libeke tse 12 hore eka hlajoa. Lithole lika hlajoa qetellong ea nako ea tsona ea ho behela ka mora libeke tse 75. Mosebetsi oa ho hlaba o etsoe ka mokhoa o nang le botho, o netefatsang hore ho sebetsoa hantle ka mokhoa o sa feng likhoho khatello. Ho hlaba ho lokela ho hlalisa nama e hloekileng e amohelang ho baji le 'marakeng moo nama ena e gothisanang le nama ea likhoho tsa nama.



SETS'OANTS'O 4.8

Hlabela khoho hole le ntlo ea likhoho.

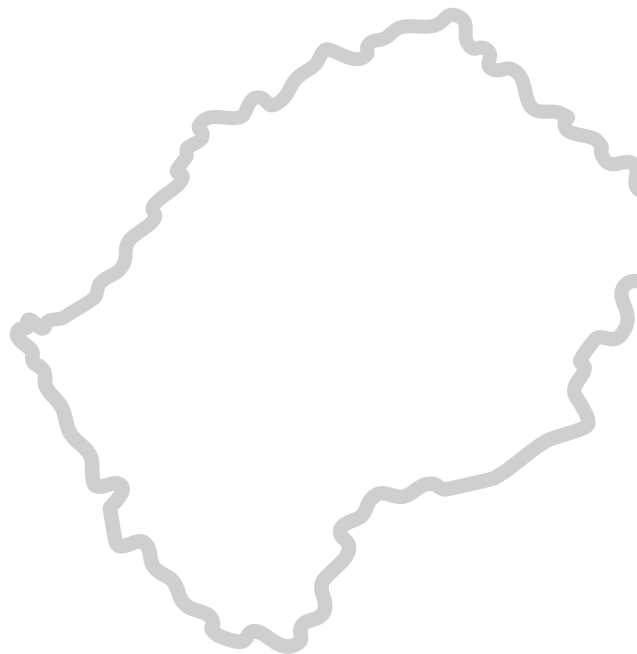
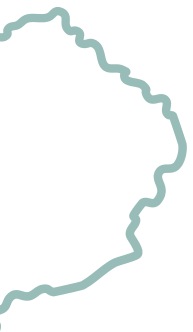
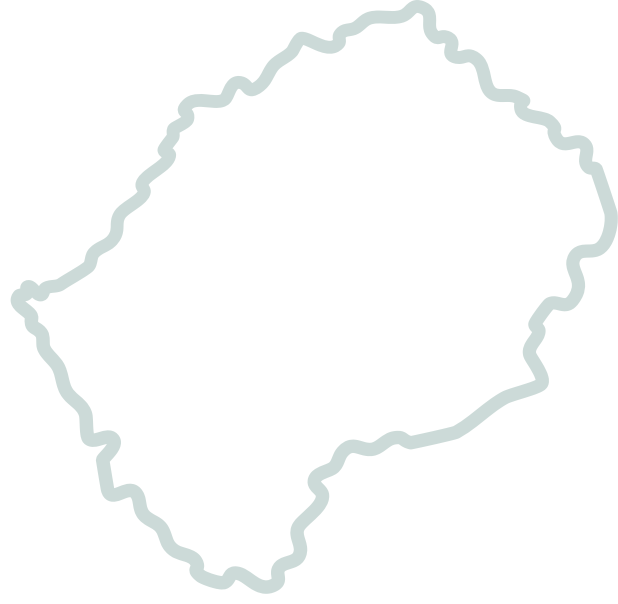
Tšebetso e qala ka ho lokisa khoho letsatsi pele e hlajoa ka ho se fepe lijo nako ea lihora tse ka bang 12 ho hloekisa mala a eona. Metsi a hloekileng a lokela ho tsoela pele ho fanoa ele ho thibela tlhokahalo ea metsi 'meleng. Mohato ona o etsoa ho netefatsa hore nama ha ena ho senyeha ka lebaka la ho qhalana hoa mantle.

Ka letsatsi la ho hlaba, khoho e tšoaroe hantle ka mokhoa o fokotsang menyetla ea ho e bakela khatello. Mosebetsi ona o lokela ho etsetsoa selakhapaneng se bolokang maemo a holimo a bohloeki le bophelo



Ela hloko

Ha ho ea khothaletseha ho hlabela likhoho sebakeng sa leruo kaha ho kaba le qholotso ea phetsetsano ea mafu.



5. Tšireletso khahlanong le Mafu Tlhoekiso le Phano ea Liente

Selelekela

Ho boloka bophelo bo botle le tlhahiso ea leruo la likhoho ho hloka mokhoa o chatsi oa ho thibela mafu. Khubung ea tšebetso ena, ke litšiea tsa tšireletso khahlanong le mafu, liente, le ho hloekisa—likarolo tse tharo tsa bohlokoa tse sebetsang ha 'moho ho sireletsa likhoho khahlanong le likokoana-hloko le ho fokotsa ho ata ha mafu.

Tšireletso khahlanong le likokoana-hloko ke mola oa pele oa tšireletso, e akha litloaelo tse etselitsoeng ho thibela ho ata hoa mafu. Ho tloha ka ho laola hore na ke mang kapa eng eka kenang polasing ea likhoho, ho isa ho netefatseng mehato ea bohloeki ea basebetsi le bohloeki ba thepa, methati ea tšireletso khahlanong le likokoana-hloko ke litšiea tsa ho sireletsa bophelo ba leruo.

Ho hloekisa le ho bolaea likokoana-hloko ke mehato e hlokahalang bakeng sa ho boloka tikoloho hloekile polasing. Sena se bolaea likokoana-hloko tse kotsi libakeng, holima lisebelisoa le mapatlelong a ntlo, se fokotsa kotsi ea tšoaetso le ho tšoaetsoa hape.

Phano ea liente, ka lehlakore le leng, ke leoa le sebetsanang le ho matlafatsa likhoho khahlanong le mafu a itseng. Ha litaello tsa tšebeliso ea liente le kentsoe tšebetsong ka nepo, phano ea liente eka fokotsa ho ata le bokotsi ba mafu a tšoaetsanoang. Ho fana ka liente ho tiisa boitsireletso ba likhoho khahlanong le mafu le litšoeletso.

Ha 'moho, maano ana a mararo a etsa tsamaiso ea tšireletso e sa sireletsang linonyana ka bonngoe feela, e tlatselletsa ho tšoarelleng ha nako e telele le phaellong ea leruo la likhoho. Khaolo ena e hlahloba melao-motheo, malebela le mekhoha e khothalelitsong e amanang le tšireletso khahlanong le likokoana-hloko, phano ea liente le ho hloekisa, e fa lihoai tsa likhoho tsebo mabapi le thibelo ea mafu.

| Tšireletso ea bophelo

'Bio' e bolela bophelo 'me tšireletso e bolela boemo ba ho bolokeha. Tšireletso ea bophelo (biosecurity) e bohlokoa haholo bakeng sa ho boloka botsitso ba likhoho tsa naha ea Lesotho. Ha se ketso e ikemetseng ele 'ngoe feela, empa ke methati e kopantsong, mehato e 'maloa e tlamehang ho sebelisoa mapolasing ho thibela ho kena le ho ata hoa mafu.

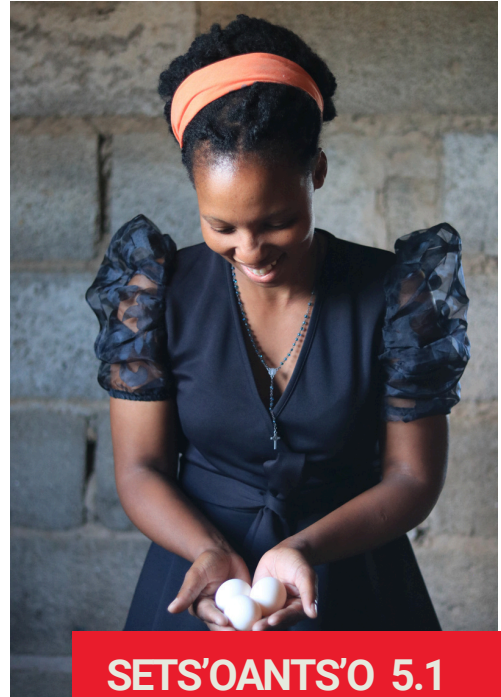


Tlhaloso

Biosecurity e bolela boemo ba ho sireletsa likhoho khahlanong le mafu

Le hoja likhoho DPP li mamella haholo khahlanong le mafu, ha li mamelle ka botlalo. Li ka ba le mafu ntle le ho bontša matšoao a ho kula, 'me sena se ka baka ho ata hoa mafu hoesa mefuteng e meng ea likhoho. Mafu a turu haholo ho lihoai, kaha a fokotsa tlhahiso, a eketsa litšenyehelo tsa tlhahiso, ebile a baka tahlehelo e phahameng ea likhoho. Mafu a mang a likhoho a ka ama bophelo ba batho, a tloha ho likhoho a tšoaetsa batho. Haeba mafu a sa laoloe hantle, a ka baka baka khaello ea limatlafatsi, tseo e leng karolo ea bohlokoa phepong ea malapa.

Ka September 2023, ho ile ha hlaha lefu la likhoho (bird flu) Afrika Boroa, 'me sena sa etsa hore ho thibeloe ho kena ho likhoho le mahe Lesotho. Sena se ile sa baka khaello e kholo ea lihlahisoa tsa likhoho ka hara naha, sa siea lihoai tse nyane, tse itšetlehileng ka leruo la likhoho ho iphilisa, li hloleha ho tsoela pele ka likhoebo tsa bona. Ka lebaka leo, khoebo ea likhoho e ile eaba le tahlehelo e kholo, 'me lihoai tsa sitoa ho khutlela temong. Sena se bontša bohlokoa ba ho thibela mafu ho sireletsa lekeno lihoai le phepo. Ho qoba tahlehelo e mpe e bakoang ke mafu a likhoho, ho bohlokoa ho boloka tikoloho e hloekileng bakeng sa likhoho, esita le tse ruuoang ka mokhoa oa ho tsamaea le ho sela ka bolokolohi.



SETS'OANTS'O 5.1

Khoebo e sireletsehileng ea DPP e netefatsa phepele e tsitsitseng ea likhoho le mahe molemong oa lelapa.



Hopola

Likhoho tsa Dual-Purpose li fana ka nama le mahe, tse khothalelitsong bakeng sa baimana, matsotse ba anyesang le bana. Tse salang lika rekisoa melemong oa ho etsa chelete eka patallang lithoko tse ling tsa lelapa.



Bohlokoa ba Tšireletso ea Bophelo ba Likhoho ho Lihoai tsa Dual-Purpose

Tšireletso ea bophelo e bohlokoa (Biosecurity) e bohlokoa ho lihoai tsa mahaeng tse ruileng likhoho tse ruoang melemo e 'meli (dual-purpose) hobane e tšireletsa bophelo ba leruo la bona ebile e netefatsa bohoai bo tiisetsang nako e telele. Mabaka ke ana:

1. Ho thibela ho ata hoa mafu

Mafu a kang 'Newcastle' kapa 'bird flu' a ka bolaea leruo kaofela, sena se lebisahlahelohong e tšabehang. Methati e metle ea tšireletso ea bophelo (biosecurity) joaloka ho boloka bohloeki ba matlo a likhoho, ho fokotsa baeti, ho sebelisa lisebelisoa tse tlosang likokoana-hloko, ho thibela mafu ho kena polasing.

2. E sireletsa maphelo a batho

Mafu a mang a likhoho, joaloka 'avian influenza' le salmonellosis (chefo ea lijo) a ka tšoaetsa batho. Mehato ea tšireletso ea bophelo (biosecurity) e fokotsa tlakotsi ea mafu a liphoofolo, e boloka maphelo a lihoai le ba malapa a tsona.

3. E nyolla tlhahiso

Likhoho tse phetseng hantle li hlahisa mahe a mangata 'me li hola hantle. Ka ho thibela mafu, lihoai li eketsa tlhahiso ea mahe le nama, li netefatsa mohlopi o tsitsitseng oa lijo le lekeno.

4. E theola litjeo

Ho oka likhoho tse kulang ho turu haholo, 'me tahlehelo ea likhoho ka lebaka la mafu e bolela tahlehelo ea matsete. Tšireletso ea bophelo (biosecurity) ke mokhoa o theko e tlaase oa ho qoba tahlehelo ena ea lichelete.

5. E tšehetsoa mokhoa boipheliso oa nako e telele

Malapa a mangata a mahaeng a itšetlehile ka likhoho bakeng sa bophelo ba 'ona. Ha mafu a laoloa, lihoai li khona ho tsoela pele ka mosebetsi ea ho rua, li boloka lekeno le tsitsitseng, le ho hlokomela malapa.

6. E lokisetsoa likoluo tsa mafu

Nakong eo ho nang le likoluo tsa mafu, joalo ka 'bird flu' ea 2023, lihoai tse nang le mehato e matla ea tšireletso ea bophelo (biosecurity) li ne li leng maemong a matle ho sireletsa leruo la tsona, 'me tsa tsoela pele ho rua.

Malebela a mantlha a tšireletso ea bophelo ba likhoho

- ✓ Fokotsa baeti ntlong ea likhoho, ka mehla hloekisa lieta le lisebelisoa ka lisepa tse bolaeang likokoana-hloko pele u kena ka likhohong.

2

Sesosa sa mafu

Mafu a mang a bakoa ke likokoana-hloko. Tsona ke lintho tse nyenyane tse sa bonahaleng ka mahlo empa li na le bokhoni ba ho hola, ho ikatisa le ho ata ha maemo a lumela. Ho na le likokoana-hloko tse ngata moeeng, holim'a lintho, ka tlung ea likhoho, holim'a lisebelisoa le libakeng tse ngata. Ha li fuoa monyetla oa ho ikatisa le ho hola, likokoana-hloko tse na li ka baka mafu. Likokoana-hloko li ka bolaoa ka lisepa tsa ho hloekisa (detergents) le liente ea ho bolaea likokoana-hloko (disinfectant).

Maemo a holisang le ho atisa likokoana-hloko

Likokoana-hloko li ka hola ha ho na le mohlopi oa lijo, mongobo, le mofuthu. Maemo a na ohle a ea fumaneha ka ntlong ea likhoho. Lijo e kaba ka mokhoa oa lijo tsa likhoho, moalo kapa likhoho ka botsona. Ka ntlong ea likhoho ho lula ho le mofuthu, hobane likhoho li hloka mofuthu hore li hole. Mongobo o fumanoa mosuoeleng kapa linoelong (drinkers) tse sebelisetsoang ho boloka metsi a ho noa bakeng sa likhoho. Ha nako e telele e feta ntle le ho hloekisa libaka, likokoana-hloko li ka ata 'me tsa tšoaetsa likhoho tse ling.



SETS'OANTS'O 5.2

Maemo a hlokoang ke likokoana-hloko ho hola- mofuthu, lijo le mongobo- tseo kaofela li fumanehang ka ntlong ea likhoho.

3

Litsela tseo mafu a atang

Ho na le litsela tse ngata tseo mafu a ka atang ka tsona. Likokoana-hloko li atisoa ke lintho tse fapaneng.

1. Kopano le likhoho tse kulang

Kopano e otlohileng lipang tsa likhoho tse phelang hantle le tse kulang ke e 'ngoe ea litsela tse potlakileng ka ho fetisisa eo mafu a atang. Ho kopanela lijelo, linoelo kapa lirobe li ka fetisa mahloko.

2. Lisebelisoa tse sa hloekang

Ho sebelisa lisebelisoa tse litšila (mohlala, lijelo, le lisebelisoa tse hloekisang) li ka fetisa likokoana-hloko ho tloha sebakeng se seng ho ea se seng.

3. Baeti le sehoai

Batho ba ka tsamaisa likokoana-hloko ka liaparo tsa bona, lieta kapa matsoho kamora ho etela mapolasi a mang kapa limmaraka. Lieta li ka hatikela mantle a nang le tšoaetso 'me tsa atisa tšoaetso. Matsoho a sa hlatsuoang a na le monyetla oa ho atisa mafu. Lliaparo le tsona li ka tsamaisa mafu.

4. Linonyana, litšintši, likatse, likhoto le linoha

Linonyana, likatse, likhoto le liphoofole tse ling li ka tsamaisa mafu a kang Avian Influenza le lefu la Newcastle. Linonyana tse fetang 350 tsa mefuta e fapaneng li fofela Lesotho selemo le selemo. Li kaba le bokhoni ba ho tliša mafu. Likhoho tse ruoeng ka mokhoa oa motsamao o lokolohileng hangata ke tsona tse nang le monyetla o mongata oa ho ka kopakopana le tsona.

5. Lijo tse sa hloekang le metsi a litšila

Lijo tse sa bolokoang hantle 'moho le metsi li ka boloka likokoana-hloko. Lijo tse beuoeng tikilohong e mongobo li ka ba le likokoana-hloko tse etsang chefo eka jeoang ke likhoho eaba li ea kula. Metsi a tsoang mehloling esa koaeloang le ona a ka boloka likokoana-hloko.

6. Tikoloho esa hloekang

Moalo o litšila, manyolo a bokellaneng, le matlo ao moea osa potoloheng hantle li etsa tikoloho eo likokoana-hloko li atang. Tikoloho eo ntlo ea likhoho e leng ho eona eka ba sentele sa likhoto, litšintši le menoang. 'Me tsona li ka tšoaetsa likhoho le batho. Lisebelisoa tse sebelisitsoeng ho rulela le tsona ekaba lehae la mafu le linoa-mali. Marulelo a joang ha a hloekisehe ha bonolo.



SETS'OANTS'O 5.3

Tikoloho e sa hloekang e ka baka likokoana-hloko

7. Ho tlisa likhoho tse ncha

Ho kenya likhoho tse ncha ntle le ho li arola le tse ling ho ka kenya mafu leruong. Lesotho le itšetlehile ka likhoho tse tsoang Afrika Boroa. Tse ling tsa likhoho li kenngoa ka mokhoa o seng molaong ke "li-agent" tse li tsamaisang ntle le ho latela melao ea ho kenya thepa ka hara naha le ntle le hoba le mangolo a tumello. Likhoho tsena li kotsing ea ho tlisa mafu Lesotho. Ho boetse ho na le litlaleho tsa lihoai tse rekang likhoho tse rueloang melemo e 'meli (dual-purpose birds) ho tsoa literekeng tse ling tsa Lesotho. Le tsona ha li hlahlojoe kapa ho netefatsoa hore ha li na mafu pele li isoa libakeng tse ncha.

8. Motsamao lipakeng tsa mapolasi a fapaneng

Likoloi, lisebelisoa, le batho ba tsamaeang pakeng tsa mapolasi ba ka tsamaisa likokoana-hloko. Metseng ea mahaeng, tlhokahalo ea terata e lumella likhoho ho tsamaea ka bolokolohi ebe li kopana le leruo le fapaneng, sena se tlisa tlokotsi ea hore li ka tšoaetsana.

9. Mafu a tsamaisoang ke moea

Mafu a mang, joalo ka avian influenza, a ka tsamaisoa ke moea, haholo-holo libakeng tse nang le batho ba bangata. Matlo a likhoho ao moea osa potoloheng hantle a akufisa ho ata hoa mafu leruong. Ho ata ka moea ke bothata hape leruong le lengata haholo moo melao ea sebaka e sa lateloang.



4

Mafu le Likokoana-hloko tse ka amang Likhoho Lesotho

Moo likhoho li hlokomeloang ka haholo, joaloka nakong ea ho holisa litsuonyana, mathata a mafu a ka hlaha. Mafu a likhoho ka kakaretso a ka hlalosoa ele:

1. Mafu a Amanang le Tšilo ea Lijo

Tšilo ea lijo e kenyelletsa molomo, kilana (crop), mpa, mala, ebile e sebetsana le ho choatla lijo hore li amoheloe ke 'mele. Mafu a tloaelehileng a baka letšollo, ka linako tse ling a baka lefu, joalo ka ha ho etsahala ka Coccidiosis kapa letšollo le nang le mali.

2. Mafu a amanang le ho Hema

Mafu ana a ama ho hema. Hangata a iponahatsa ka ho thimola, ho hema ka thata, ho koaleha hoa mohanana le ho tsoa ha mamina.

3. Mafu a bakoang ke Likokonyana tse noang mali

Kokonyana tse noang mali li phela kahar'a kapa holim'a lintho tse phelang. Likokonyana tsena li ja likhoho 'me li ka fumanoa bo-kahare ba 'mele oa khoho, kapa bo-kaholimo ba 'mele (external parasite). Likokonyana tse kahare e kaba liboko ha tse kantle e kaba tšoele le matsetse.

4. Mafu a amanang le Motsamao

Mafu a amanang le motsamao likhohong a ama bokhoni ba khoho ba ho tsitsinyeha, ho ema kapa ho tsamaea hantle. Maemo ana a ka bakoa ke tlhokahalo ea limatlafatsi lijong, litšoaetso, bokooa, le mekhoha ea tlhokomemelo. Mafu ana a tsebahala ka maoto a bokooa, masapo a sa tieang, manonyeletso a ruruhileng le ho se khone ho ema kapa ho tsamaea.

5. Mefetše

Ke mafu aka bakang lihlala. Lihlala tsena ha li tšoaetsane, ka hona li ka se tlohe khohong e 'ngoe ho fetela ho e 'ngoe.

6. Tseo Eseng Mafu empa li bakoa ke Tikoloho

Maemo a tikoloho a ka ama haholo bophelo le tlhahiso ea likhoho. Le hoja mathata ana a sa bakoe ke mafu, a ka baka kholo e fokolang, khatello, tlhahiso e theohileng ea mahe, esita le lefu haeba a sa laoloe hantle. Mathata a joalo a kenyelletsa khatello ea mocheso o phahameng kapa o tlase, khatello ea serame, moalo o mongobo kapa o nang le lerole, phepo e fokolang le ho boloka likhoho ka bongata bo feteletseng.



Malebela

Hloekisa leho bolaea likokoana-hloko lijelong, linoelong le lisebelisoeng khafetsa. Likokoana-hloko li ata tikilohong e bohlasoa!

Ke mafu a tlamehang ho tlalehela Litsi tsa 'Musu tse amehang. Mafu ana a ka ata ka potlako 'me a baka mathata a maholo, joaloka ho shoa hoa likhoho ka bongata ho amang bophelo ba batho, le ho sisinya khoebo ea leruo la likhoho hampe. Ho tlaleha ho thusa 'Musu ho nka mehato ea ho thibela hore lefu le se ke la ata.

Mafu a tlamehang ho tlaleoa Lesotho ke ana:

1. Newcastle Disease
2. Avian Influenza (Bird Flu)
3. Salmonellosis

Mehato ea ho Tlaleha Lefu

1. Lemoha matšoao:

- Ho shoelloa ka sekhahla.
- Ho hohlola haholo, ho thimola haholo kapa mathata a ho hema
- Bophere se kapa boputsoa maotong le holima tlopo.
- Letšollo le mali kapa boitšoaro bo sa tloaelehang.

2. Arola likhoho tse kulang:

- Arola likhoho tse nang le matšoao a ho kula le tse phelang hantle.

3. Hokahana le ba taolo ea mafu a liphoofole ba haufinyana:

- Tsebisa mosebeletsi oa tsa bophelo oa liphoofole seterekeng boemo.
- Fana ka tlhaloso ea matšoao, palo ea likhoho tse kulang, le lietsahala tsa morao-rao.

4. Sala litaelo tsa ba ikarabellang morao:

- Basupisi ba ka etsa tlathlombo ea polasi eaba ba etsa liteko
- Mahe, nama kapa likhoho tse phelang li ka thibela ho rekisoa

5. Ikamahanye le methati ea taolo ea mafu:

- Ho arola likhoho ho ka kenyoa tšebetsong
- Likhoho tse amehileng li ka hloka ho bolauoa.
- Polasi eka hloka ho hloekisoa ka lintho tse bolaeang likokoana-hloko.

6. Tlaleha litšoetso tse ncha:

- Tsoela pele ho tsebisa ba ikarabellang ka bokulo bo bocha kapa mafu nakong ea lipatlisiso.

Ho tlaleha ho sireletsa lipolasi tse ling khahlanong le ho tšoaetsoa. Ho thusa ho boloka khoebo ea leruo la likhoho e bolokehile ebile tsoela-pele ka thello. Ho boetse ho fokotsa kotsi lefu ho atela le bathong haeba ekaba lefu la 'Salmonellosis' le 'Avian Influenza' (Bird flu).

6

Mafu a Tloaelehileng

Ho lula ho le bohlokoa ho ea ngakeng ea liphoofole molemong oa ho fumana thlahlobo ea mafu e nepahetseng le likhothaletso tsa ho alafa tse nepahetseng (kenya sehokelo sa tlhaiso-leseling ea ho bona ngaka). Leha ho le joalo, matšoao a mafu a tšoarang likhoho a tloaelehileng a hlositsoe ka tlase:

Lefu la Newcastle

- E bakoa ke kokoana-hloko ea virus.
- Eka bolaea leruo kaofela hae sa alafuoe hantle
- E thibelo ka ente/moriana:
 - Liente ea Hitchner B1 le La Sota: E fanoa ka aerosol spray (senyanyatsi) metsi a nooang, kapa marotholi a leihlo.
 - Liente e entsoeng ka oli: e fanoa ka mokhoa oa ente ea mesifa.
- Matšoao a Methapo: ho liea mapheo, ho hloka
- tsamaiso e nepahetseng, ho oela, melala e sotheileng.
- Matšoao a ho hema: likhoho li hema ka thata.
- Likhoho li tlohela ho ja le ho noa.
- Ha ena pheko.



SETS'OANTS'O 5.4

Sethole se nang le Newcastle
Photo Credit: Hendrix Genetics

Lefu la Infectious Bronchitis

- E bakoa ke kokoana-hloko ea 'virus' e atang ka potlako.
- Matšoao a ho hema: Ho khohlela ka molomo, ho thimola, ho hema ka thata, mahlo a llang, ho sisinya hlooho, mamina.
- Ho shoa ho eketsehileng.
- Likhoho li hlaphoheloa ka mora libeke tse 1-2 haeba ho sena likokoana hloko tse ling.
- Ha ngata tšoaetso e latelang, e atisang ho hlaha eba ea bacteria e bitsoang E. coli.
- Ha ngata ho sebelisoa liente tse phelang ho e thibela.

Lefu la Coryza

- Le bakoana ke kokoana-hloko ea bacterium
- Le qala ka tšohanyetso, le qhotsa ka matsatsi a 2-3.
- le ata ka potlako
- Matšoao a tšoana le sefuba se tloaelehileng ho batho: ho ruruha ho pota-pota mahlo le nko, mamina.
- Ho ka entoa likhoho tsa mahe (lithole) le tse nehelang (breeders).
- Kalafo e etsoa ka lithibela-mafu (antibiotics).



SETS'OANTS'O 5.5

Sethole se nang le Coryza

Photo Credit: Hendrix Genetics



SETS'OANTS'O 5.6

Sethole e tšoerong ke Gumboro bontšang ho hloka matla masiba a sa hlophehang, le seemo Se tšoekameng

SETS'OANTS'O Credit: Hendrix Genetics

Lefu la Gumboro (Infectious Bursal Disease; IBD)

- Le bakoana ke kokoana-hloko e bolaeang ka thata ka lintho tse bolaeang likokoana-hloko.
- Ha ngata le tšoara likhoho tsa nama tse nyane.
- E qala ka tšohanyetso.
- E senya sesole sa 'mele ka ho hlasela se bitsoang 'bursa of Fabricius'.
- Matšoao: likhoho tse shoang ka sekhahla, tahlehelo ea takatso ea lijo, ho hola butle, ho tepella, ho khobokellaana, masiba a sa hlophehang hantle, ho kobolana ka morao, letšollo, ho thothomela le ho lahlehela ke tsamaiso.
- Le ka thibela ka ente le ho noa metsi.
- Tšoaetso tse latelang li ka phekoloa ka lithibela mafu (antibiotics).

Lefu la Fowl pox

- Le bakoana ke virus
- Mofuta o 'cutaneous' o ama letlalo, o baka maqeba letlalong, ha ngata ho shoa khoho tse nyane ka palo.
- Mofuta o 'diphtheritic' ama karolo e ka holimo ea mala le mocha o tsamaisang moea palo ea likhoho tse shoang e holimo haholo ho mofuta ona.
- Likhoho li nka nako e telele ho fola, ka hona tlhahiso ea mahe e tla fokotseha. Likhoho li fuoa ente ho le thibela.



SETS'OANTS'O 5.7

Sethole se tšoerong

ke le Fowl Pox

Photo Credit: Hendrix Genetics

Lefu la Egg peritonitis

- Nakong ea ho etseha hoa lehe, ka linako tse ling mothoebe o ka fella ka hare ho 'mele oa khoho ho ena le ho kena mocheng oa popo.
- Sena se ka baka ho ruruha ha lera le mpa (peritoneum)
- Mothoebe ke mohloli o motle oa lijo bakeng sa kokoana-hloko ea baktheria, e leng se bakang tšoaetso 'me hangata lithibela-mafu (antibiotics) ha li sebetse.
- Ho lokela ho qojoe ho eketsa khanya haeba likhoho tse nyane (pullets) li sa fihlele boima bo loketseng, hobane sena se etsa hore li be kotsing ea egg peritonitis.

Ho kobolana ka morao

- Hase lefu le tšoaetsanang empa ho ka baka mathata leruong.
- Ho kobolana ho bobebe ke ntho tloelehileng likhohong.
- Ha ho ea tloaeleha haho ba matla haholo ebile ho ntšha likotsi
- Hangata e amahanngoa le maemo a tikoloho a sa lokang le khatello lithole, joalo ka mabone a khanyang haholo kapa ho petetsana.
- E ka boela ea bakoa ke ho kobola likokoana tse khomarelang likhoho.

Likokonyana

Le hoja likokoanyana (parasites) li ka 'na tsa se ke tsa fetisa lefu ka kotloloho, li ka baka ho lahlehelo ke lisele tse tsamaisang moea 'meleng (anemia) le ho hlokisa khoho botsitso. Lithole li tlokotsing ea likokoanyana tse ka hare (liboko/nematodes) le tse ka ntle (matsetse le linta).

Lithole tse ruuoeng ka mokhoa oa ho tsamaea ka bolokolohi le tlokotsing e kholo ea ho hlaseloa ke manyooa (helminthiasis, 'me li ka hloka ho fuaa liente ea ho bolaea manyooa (deworming).

Likokoana tsa kante ho 'mele li a le ho noa mali a khoho, sena se baka hore likhoho li be botsikinyane li be li hloke botsitso. Ho hlaseloa ke linoa-mali tse ngata hoka ba tahlehelo ea mali le tahlehelo ea moea maling (anemia). Likhoho li ka ikobola masibeng 'me tsa lematsa letlalo.

Matsetse a mafubelu a atisa ho hlaha ha likhoho li beuo fatše fatše. Matsetse a qeta letsatsi a ipatile likhutlong le mapatsong a lefifi ka hara ntlo. Bosiu a ba mafolofolo ebe a loma likhoho. Matsetse a likhoho (Northern fowl mites) a lula holima likhoho 'me ha ngata a bokellana bo-kamoraong ba khoho.



Thibelo ea Mafu

Le hoja mafu a mang a ka phekoheha, a na le litlamorao tse ngata. Kamehla ho molemo ho thibela ho kena le ho atahoa mafu. Tšireletso ea bophelo ba likhoho (Biosecurity) e netefatsa hore mafu a thibeloe ho kena leruong ka khoho hoea khohong e 'ngoe kapa leruo hoea ho le leng.

Lefu	Le atisoa	Mats'oa	Kalafo	Le ea tlaehoa	Ho enta
Lefu la New Castle	Ho kopana le likhohe tse hahlametsoeng ke lefu; mantle; lisebelisoa tse hahlametsoeng; a tsamaeang moeeng	Ho hema ka thata; lets'ollo le letala, molala o sothehileng; ho thefuleha hoa tlhahiso ea mahe, lefu la sekhahla	Ha ho pheko	E	E
Lefu la Avian Influenza (Flu ea likhohe)	Ho kopana le likhohe tse hahlametsoeng ke mafu; metsi a hahlametsoeng; mafu a tsamaeang moeeng kahar'a sebaka se koetsoeng	Hlooho e ruruhileng; maoto a pheres; ho khohlela; ho tsoa mamina ka linkong; ho thefuleha hoa tlhahiso ea mahe, lefu la sekhahla	Kalafo hae eo. Behella ka theko likhohe tse hahlametsoeng ke lefu. Mehato e matla ea ts'ireletso khahlanong le mafu	E	E
Lefu la Fowl Pox	Ho longoa ke monoang; ho kopana le likhohe tse hahlametsoeng ke mafu	Makhekhebu holim'a tolo le letloepe; bosehla qoqothong, mokhathala; ho theoaha hoa takatso ea lijo	Maqeba a hlokomeloe	Che	E
Lefu la Coccidiosis	Ho ja mantle a nang le mafu; lijo kapa metsi a hahlametsoeng ke mafu	Lets'ollo le nang le mali, tolo e fifetseng; ho theoaha ha boima ba 'mele; mokhathala o matla; ho thefuleha hoa tlhahiso ea mahe	Meriana ea Anticoccidial (mohlala, amprolium); boloka ntle e omme e bile e hloekile.	Che	Che
Lefu la Salmonellosis (Lefu la chefo ea lijo)	Lijo kapa metsi a hahlametsoeng ke mafu kapa ho kopana le likhohe tse hahlametsoeng ke mafu	Lets'ollo, ho silafala hoa masiba a pela setono; ho hloka metsi 'meleng, tlhokahalo ea takatso ea lijo; maemong a mpefetseng ho ba le lefu la sekhahla	Meriana e loants'ang mafu (antibiotics) e khotallelitsoeng ke ngaka ea liphoofofo; ho boloka makhethe ka matla	E	
Lefu la Marek's le Lefu la Avian Leucosis	Le tsamaea moeeng; litikoloho tse nang le mafu	Kholofalo ea mapheo/maoto; tahlehelo ea boima ba 'mele; hlala; masoba a maholo letaleng moo masiba a melang	Ha ho pheko. Behella ka theko likhohe tse hahlametsoeng ke lefu	Che	E
Lefu la Infectious Bronchitis	Le tsamaea moeeng kahar'a matlo ao ho se nang potoloho e nepahetseng ea moea; lisebelisoa kapa lijo tse hahlametsoeng ke mafu	Ho khohlela; ho thimola; mamina a metsi ho tsoa linkong; ho thefuleha hoa tlhahiso ea mahe, boleng bo tlaase ba mahe	Hlokomela likhohe	Che	E
Lefu la Infectious coryza	Le tsamaea moeeng, lijo le metsi a hahlametsoeng ke mafu	Sefahleho se ruruhileng, ho qhitso maro ka linkong le ka mahlong, ho shoa	Pholiso ka meriana e loants'ang mafu	Che	E
Likokonyana (tse ka hare le tse kantle)	Ho ba le kopano e haufi le likhohe tse hahlametsoeng ke mafu, litikoloho tse nang le mafu	Kahare: Lets'ollo; ho theoaha hoa boima ba 'mele Kantle: Ho hlotheha masiba, makhekhebu, ho hlohona, ho thefuleha hoa tlhahiso ea mahe	Kahare: Meriana e bolaeang liboko (mohlala, fenbendazole). Kantle: Meriana e bolaeang likokonyana/ phofohoana e bolaeang likokonyana tse holim'a likhohe	Che	Che

***Mafu a ngoitsoeng ka botenya ke mafu a tlaehoa

8

Mehato ea tšireletso ea bophelo ba likhoho

Tšireletso ea bophelo ba likhoho e ka atameloa ka ho beha lisebelisoa tse thusang ka ho thibela mafu ho ata kapa hore a kena. Ho latseletsa, methati e meng e ka beoa ho sireletsa likhoho tse ruoang melomo e 'meli. Tse latelang ke tse ka sebelisoang ho netefatsa tšireletso ea likhoho:

1. Ntlo ea likhoho

Terata e nang le heke/mokoallo oka ntleloang etla netefatsa hore ha ho motho ea kenang ka ntle ho tumello ea ho kena ka hara ntlo e holisetsang litsunyana (Setšoantšo 5.8)



SETS'OANTS'O 5.8
Mohlala oa ho teratela

2. Sebaka sa ho hlatsoa maoto (Footbath)

Sebaka sa ho hlatsoa maoto se beoa monyako oa ntlo ea likhoho, e netefatsa hore motho e mong le e mong o kenya maoto ka hara eona ho hloekisa lieta pele a kena ka hara ntlo ea likhoho. Se thusa ho thibela ho kenngoa le ho atisoa hoa mafu ka ho tlosa likokoana-hloko tseo eka bang li nkuoe ke lieta.

Sebaka sena se ka ahoa ka samente. E be sebaka se sehlo ho lekana hore se lekanele lisoli tsa lieta, se na le mahlakore a phahameng ho lekana hore se ka tšela moriana o bolaeang likokoana-hloko, se ka sebelisoa. 'Mete osa thelleng kapa joang bo ka tšelo ka hare ho ntlafatsa ho hloekisa. Moriana ona o bolaeang likokoana-hloko, ka mehla o sebelisoa ho latela litaello tsa bahlahisi ba ona.



SETS'OANTS'O 5.9
Sebaka sa ho hlatsoa maoto sa samente



SETS'OANTS'O 5.10
Sebaka sa ho hlatsoa maoto sa polastiki



SETS'OANTS'O 5.11
Sebaka sa ho hlatsoa maoto sa matlakala

Sebaka sa ho hlatsoa maoto se lokela ho hlokomeloa hantle hore se khone ho sebetsa hantle. Moriana o bolaeang likokoana-hloko o fetoloe khafetsa, kaha litšila, seretse le manyolo li ka fokotsa matla a ona. Sebaka sa ho hlatsoa maoto se tlame ha ho hloekisoa letsatsi le letsatsi, mang kapa mang ea kenang ka ntlong ea likhoho ho lokela ho khotalletsoa ho e sebelisa. Sebaka sa ho hlatsoa maoto se sa hloekisoeng se kaba kotsi.

3. Sebaka sa ho Hlatsoetsa Matsoho

Matsoho a lokela ho hlatsua pele le kamora ho tšoara likhoho. Pompo e nang le metsi a mathang e tlameha ho etsoa pela ntlo ea likhoho ele ho akofisa tlhatsuo ea matsoho. Sesepa se tlameha ho ba teng molemong oa ho sebelisoa ho hlatsoa matsoho.(Setšoantšo 5.12).

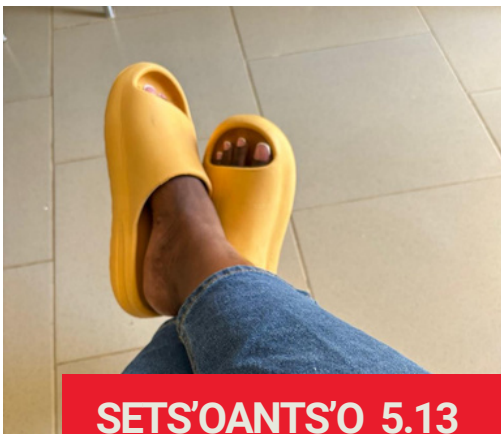
4. Ntlo ea Likhoho e Buleileng Mahloko enang le Likharetene

Se seng sa lisosa tse ka sehloohong tsa ho ata hoa mafu ke potoloho ea moea e mpe. Potoloho ea moea e nepahetseng e bohlokoa molemong oa ho tlosa lerole, khase ea ammonia le likokoana-hloko. Ho boloka moea o hloekile ho fokotsa menyetla ea mafu. Le mariha likharetene li lokela ho buloa ho lumella moea ho potoloha.



SETS'OANTS'O 5.12

Sebaka sa ho hlatsoa matsoho



SETS'OANTS'O 5.13

Lieta tsa polasetiki tse sa tureng, tse ka sebelisoang ka likhohong.

6. Polokelo ea Lijo

Lijo li lokela ho bolokoa sebakeng se pholileng, se ommeng. Mekotla ea lijo e lokela ho beoa holima phaete (setšoantšo 5.14). Lijo li lokela ho bolokoa ka hara mekotla e koetsoeng. Moo hoka hoa ebang le ho qhalana, ho phuthoe ele hore ho tle ho seke hoa mema likhoto.

5. Lieta tse Sebelisoang ka Ntlong ea Likhoho

Lieta tse sa tureng, tse entsoeng ka polasetiki li ka beoa monyako oa ntlo ea likhoho molemong oa ho sebelisoa ka kotloloho ka hara ntlo ea likhoho (setšoantšo 5.13). Lieta li lokela ho hlatsua ka sesepa le metsi kamora ho sebelisoa.



SETS'OANTS'O 5.14

Polokelo ea lijo

7. Maraba Khahlanong le Lintho tse Phelang tse Jereng Likokoana-hloko

Litšintši, likhoto, linoha le menoang li lokela ho tsoasua molemong oa hore li se ke tsa kopana le likhoho. Maraba a likhoto a lokela ho behoa ho potoloha le ntlo ea likhoho, ka sebaka sa limithara tse 15 pakeng tsa ona. Maraba a litšintši a lokela ho fanyehoa ka ntle ho ntlo ea likhoho. Linoha le linonyana li ka bolokoa ka ntle ka ho beha terata e thibelang linoha mahlakoreng a bulehileng a ntlo ea likhoho. Matangoana a metsi a lokela ho tlosoa hobane a hlahisa menoang. Joang bo lokela ho kutoa kamehla.



SETS'OANTS'O 5.15

Leraba la likhoto



SETS'OANTS'O 5.16

Leraba la litšintši

8. Tšoaro ea Likhoho tse Shoeleng

Likhoho tse shoeleng li lokela ho tlosoa ka tlung ea likhoho kapa tikolohong e potolohileng hang-hang. Li lokela ho tseteloa kapa ho chesoa kapele kamoo ho ka khonehang.

9. Ho Qhala Moalo

Moalo o lokela ho tlosoa ka tlung ea likhoho ka mekotla 'me o beoe hole le ntlo le serobe sa. Moalo o ka boloka likokoana-hloko, 'me haeba li bolokiloe haufi le ntlo, li ka baka ho ata hoa mafu hape.

10. Reka Litsuonyana Moqhotsising ea Tšepahalang

Mafu a mang a ka fetisoa ho tloha leheng ho ea ho tsuonyana, ebe a fetela ho likhoho tse kholo. Ho reka mahe a nang le peo ho bahlahisi ba sa tsejoeng hantle ho ka beha likhoho tlokotsing ea mafu a kang Salmonellosis, eka fetisoang ke mahe. Litsuonyana tsa letsatsi le le leng li lokela ho rekoa ho baqhotsisi ba ikamahanyang le melao ea bophelo bo botle. Ho khothaletsoa hore lihoai li reke likhoho tse letsatsi le le leng tse entuoeng.

11. Sebelisa Lijelo le Linoelo tse Hloekileng, Ntlong e tšoanang kamehla

Lijelo tsohle le linoelo tse sebelisoang ke likhoho, li lokela ho hloekisoa khafetsa. Linoelo li lokela ho hloekisoa letsatsi le letsatsi pele ho ka tšeloa metsi a macha, ha lijelo tsona li lokela ho hlatsua bonyane habeli ka beke. Haeba matlo a likhoho a le mangata, lisebelisoa tse ling le tse ling li sebelisoa ntlong ea tsona fela.

12. Tlhoekiso ea Matlo a Likhoho le Tikoloho e Potileng

Bakeng sa Baholisi ba Litsuonyana (Brooder-Units), ntlo e lokela ho hloekisoa ka mor'a sehlopha se seng le se seng. Bakeng sa Lihoai tse Hlahisang ka Lipalo tse tlase (Small-Scale Producers), serobe se lokela ho hloekisoa ha se silafetse. Mantle a likhoho a ka hara jarete a lokela ho tlosoa.

Ho Hloekisa le ho Bolaea Likokoana-hloko

Ho hloekisa ho etsetsoa ho fokotsa palo ea likokoana-hloko tikolohong ea likhoho. Haeba likokoana-hloko li lumelloa ho ikatisa le ho ata, li ka baka mafu. Ho hloekisa ka katleho ho bohlokoa bakeng sa litsuonyana le tse kholo. Ho khothaletsoa ho sebelisa mokhoa oa hore tsohle tse keneng ebe tsohle tse tsoang (all-in, all-out) ho baholisi ba litsuonyana. Mokhoeng ona, nako ea tlhahiso e nka matsatsi a 28, e lateloa ke nako ea ho hloekisa le nako ea phomolo. Nako ea ho hloekisa le ea phomolo li etselitsoe ho fokotsa likokoana-hloko polasing, ho e lokisetsa sehlopha se latelang sa litsuonyana.



SETS'OANTS'O 5.17

Methati ea Tlhoekiso le ho bolaea likokoana-hloko

1

Ho Hloekisa ka Ho Ommeng

Nako ea ho hloekisa e qala ka ho tlosa moalo le lisebelisoa tse ka phahamang tse kang lifuthumatsi, lijelo li linoelo. Moalo o tšelo ka hara mekotla e tlanngoeng ebe li isoa hole le polasi. Moalo o tlosoa ka lefielo pele, ebe likarolo tse nyenyane tse setseng li khiriloa ka kharafu. Lijo tsa khale tse setseng lijelong li tlosoa ka ntlong ebe li ea qhaloa. Tokiso e ea etsoa nakong ena, ho boetse ho hlahlojoa fatše, mabota, marulelo, terata e le tse ling.

2

Ho Hloekisa ka Metsi

Ho hloekisa ka metsi ho qala ka ho hasa ka metsi ka ntlong ho tlosa lerole le litepu tse bokellaneng nakong ea tlhahiso. Sena se lateloa ke ho hlatsoa ka sesepa. Metsi a nang le sesepa a sebelisoa ho hlatsoa ntlo, ho qaloa ka marulelo, mabota, ho qaloa ka lehlakore le ka morao ho hlatsuoa ho ea tsoa monyako. Ntlo e boela e hlatsoa hape ka metsi, ho latela mokhoa o tšoanang: ho tloha marulelong ho ea maboteng, ho ea monyako. Kaha lisepe tse 'maloa li ka ama letlalo hampe, liaparo tse sireletsang tse kang li-overall le liatlana li bohlokoa. Ntlo e tlohela hore e ome. Ka nako eo, lisebelisoa le tsona li hlatsoa ka mokhoa o tšoanang: ho hasoa ka metsi, ho hlatsuoa ka sesepa, le ho pulitsa ka metsi.

3

Phomolo

Nako ea phomolo e nka pakeng tsa matsatsi a 10 ho isa ho a 14. Ntlo ea likhoho e tlohetsoe e se na likhoho le lisebelisoa. Sena se etsetsoa ho tlosa potoloho ea likokoana-hloko le likokoanyana tsa linoa-mali.

Ho Enta

Ho enta ke mokhoa o kenyelletsang ho fa 'mele mofuta o fokolang oa likokoana-hloko tse itseng ho o lokisetsa ha likokoana-hloko tse kotsi tse ka hlaselang 'mele ha morao. Ho enta ho hlahisa masole a 'mele (antibodies) nako e telele, a itokiselitse ho sireletsa khahlanong le kotsi ea 'nete. Ka hona, katleho ea ente e lekanyetsoa ka palo ea masole a 'mele a hlahisoang. Ka linako tse ling, ente e hloka ho etsoa ho feta hang (boosters) hore 'mele o fihlelle tšireletso e felletseng. Ho enta ke mokhoa o mong oa ho thibela ho kena le ho ata hoa likokoana-hloko likhohong.

i

Lemoha

Liente ha se meriana. Liente li sebelisetsoa ho thibela litšoaetso eseng ho phekola mafu

Liente li etselitsoe mafu a itseng feela. Ente ea Newcastle hae sireletse khahlanong le Infectious Bronchitis. Hore ente e be le katleho, boleng ba ente bo lokela ho bolokoa ho tloha ha e etsoa ho fihlela ha e kenngoa 'meleng. Hore ente e lule e sebetse, e lokela ho:

1. Li tlameha ho bolokoa serameng sa 2 – 8°C

Nakong ea ho li tsamaisa, Liente li tlameha ho tšelo ka hara sehatsetsi (cooler box) e nang le maqhoa. Leha hole joalo, leqhoa le seke la thetsa setšelo sa ente (vial). Ha li ka tsa thetsana, leqhoa lena le ka etsa serame sa setšelo se thehele ka tlase ho 2°C 'me ea bolaea ente. Setšeetso seo eka bang pampiri kapa lesela kapa polasitiki e entsoeng liboluloana tsa moea, e beoa lipakeng tsa leqhoa le ente. Ha e li fihla polasing, liente li beoe ka hara sehatsetsi. Mocheso o ka holimo ho 8°C o kotsi.

2. Seke oa Beha Ente Khanyeng ea Letsatsi.

Botlolo tsa ente li se beoe khanyeng ea letsatsi kaha sena se ka bolaea ente eka hare.



SETS'OANTS'O 5.18

Liente li thusana khahlanong le mafu

3. Liente tse felletsoeng ke nako li se sebelisoa

4. Liente li se sebelisoa le metsi a nang le chlorine

Chlorine e etsa ente e ipope ebe e e sitisa ho sebetsa

5. Liente li tsoakeloe ka hara setšelo sa entsoeng ka polasitiki

Setšelo sa tšepe se ka ama ente. khaba ea patsi le nkho ea polasitiki li se sebelisoa ho tsoaka ente.

C.H.E.S.T Eka u thusa ho hopola methati ea ho netefatsa hore ente e lula e nepahetsee:

- ✓ C – Cool Storage (sebaka se pholileng): E boloke lipakeng tsa 2°C and 8°C. Sebelisa cooler box ho tsamaisa ente.
- ✓ H - Handle Carefully (tšoara ka hloko): Qoba hore ente le leqhoa li thetsane
- ✓ E - Expiry Check (hlahloba ho felloa ke nako): Qoba ho sebelisa ente e felletsoeng ke nako
- ✓ S - Sunlight Protection (tšireletso ho khanya ea letsatsi): boloka ente hole le khanya ea letsatsi
- ✓ T - Tools Matter (lisebelisoa li bohlokoa): sebelisa litšelo le likhaba tsa polasitiki, u qobe tšepe Le metsi a nang le chlorine

Lintlha Tse Ling Tse Tšehetsang Tšebetso ea Liente

1. Enta Likhoho Tse Phetseng Hantle

Ho enta ho lokela ho etsoa feela likhohong tse se nang matšoa a mafu.

2. Enta Likhoho ka Nako e Khothalelitsong

Lenaneo la liente le lokela ho fanoa ke litšebeletso tsa bongaka ba liphoofole tsa lehae 'me le etsetsoe mafu a atileng sebakeng seo. Kaha likotsi tsa mafu lia fapana ho tloha sebakeng se seng ho ea ho se seng, lenaneo la liente le loketseng naha e 'ngoe (mohlala, Malawi) le ka 'na la se ke la sebetsa ho naha e 'ngoe (mohlala, Lesotho). Ho feta moo, mananeo a ente a ka fetoha ha nako e ntse e ea ka lebaka la liphetofo tsa mafu, kahoo lihoai li lokela ho lula li hlahloba lintlafatso ho tsoa ho litsi tsa taolo tse amehang. Hore ente e sebetse, e lokela ho fanoa ka linako tse khothalletsoang. Ho feta moo, keletso ka lenaneo la ente la lehae e fanoa litsi tsa lisebelisoa naheng ka bophara.



SETS'OANTS'O 5.19

Sala mehato ea C.H.E.S.T morao ho netefatsa tšebetso ea ente

3. Sebelisa Mokhoa o Khothalelitsoeng oa Ts'ebeliso

Liente li ka sebelisoa ka metsi a nooang, ente, senyanyatsi, marotholi a mahlo kapa ho hlaba lepheo. Ente ka 'ngoe ena le mokhoa o khothalelitsoeng oa ts'ebeliso. Mokhoa oa ts'ebeliso o hlalositsoe pampiring e kenngoeng ka har'a sephutheloana sa ente. Pampiri ena e na le litaelo tse qaqileng, ho kenyeletsa:

- a. Mokhoa oa Tšebeliso: Etle bontša hore na ente e lokela ho sebelisoa ka metsi a seno, ente, senyanyatsi, marotholi a mahlo kapa ka mokhoa o mong.
- b. Tekanyetso: Palo e nepahetseng ea ente e lokelang ho fuaa likhoho ho ipapisitsoe le tekanyo. Ente ea tekanyo ea 1000 ke eona e nyenyane ka ho fetisisa e fumanehang. Haeba palo ea likhoho e le ka tlase ho 1000, ente eohle e lokela ho sebelisoa. Ha ho kotsi ea ho feta tekanyo ea ente. Leha ho le joalo, ente ea tekanyo ea 1000 e keke ea sebelisoa ho likhohong tse 1500.
- c. Makhetlo: Hore na ente e lokela ho fanoa hang feela kapa ka makhetlo a 'maloa.
- d. Litemoso: Litaello tse khethehileng mabapi le polokelo, ts'ebetso le litla-morao tse ka bang teng.
- e. Litlhoko tsa Poloko: Tlhahiso-leseling ka mocheso le mokhoa oa ho boloka ente hore e lule e sebetsa.

4. Likhoho li lokela ho Khothalelisoa ho Noa Ente

Bakeng sa liente tse sebelisoang ka metsi a nooang, metsi a lokela ho tlosoa hora haele mariha le metsotso e 30 hlabula, ele ho khothalelisoa likhoho ho noa metsi a nang le ente hang ha a beoa.

5. Tsoaka Ente ka Nepo

Ente e buleloa ka metsing ho thibela hore ente e se lahleheloe ke boleng ka lebaka la ho buleloa moeng, hape le ho e tsosolosa. Metsi a lokela ho hloekisoa ka khaba ea patsi kapa ea polasetiki. Ntho e fokotsang chlorine, joalo ka lebese le se nang mafura, le sesupo li ka eketsoa metsing pele li fuaa likhoho.

6. Efa Likhoho Lihora Tse Peli ho Noa Metsi a nang le Ente



SETS'OANTS'O 5.20

Ente ea lepheo la khoho ea sethole.

6. Litsebo tsa Khoebo Molemong oa Likhoho tse Ruhetsoeng Mahe le Nama

Maemo le Liqholotso tsa Lefapha la Lesotho la Likhoho

Lefapha la khoebo ea likhoho la Lesotho le tobane le liphephetso tse 'maloa tse ka fumanang litharollo ka ho matlafatsa litsebo tsa khoebo har'a lihoai tsa leruo la likhoho tse ruheloang mahe le nama. Boholo ba lihoai ha li etse poloko ea libuka tsa khoebo kapa ho sebetsa lipalo tsa phaello; lihoai li sebelisa chelete eo ba e fumaneng thekisong ea nama le mahe ho litlhoko tsa lelapa ho na le ho e sebelisa ho holisa likhoebo. Se etsoang ke boholo ba lihoai ke ho reka litsunyana le lisebelisoa feela. Ha lihoai tsa likhoho tse ruheloang mahe le nama li ka sebelisa mekhoha ea khoebo, ba na le monyetla oa ho etsa mohloli oa chelete molemong oa malapa a bona.

Litsebo tse ntlafetseng tsa khoebo li ka thusa lihoai ho ba le taolo e nepahetseng holim'a lichelete, ho bale kutloisiso ea bohlokoa ba ho tsetela hape khoebong, le ho etsa meralo ea katleho ea nako e telele. Mekhoa e sa nepahalang ea tlhokomelo ea leruo e kang tlhahiso e tlase ea mahe le sekahla se holimo sa ho shoa hoa likhoho ke lintho tse ka rarolloang ka ho boloka lirekoto le ho hlahloba lintho tsohe tsa khoebo. Hona ho fa lihoai monyetla oa ho eelloa le ho lokisa mathata a teng tšebetsong ea bona. Ho sebelisa mekhoha ea khoebo leruong la likhoho ho ka thusa lihoai ho hohela botseteli likhoebong tsa bona, ho nka liqeto tse iphihletseng tsa ho etsa matsete le ho fetola litsenyehelo tsa tlhahiso. Liqholotso tseo e kang mehaho e fokolang li ka rarolleha ha hona le meralo e nepahetseng ea lichelete le botseteli holim'a thepa tse hlokalang tsa mahlale.



SETS'OANTS'O 6.1

Litsebo tsa khoebo li ka thusa lihoai ho laola lichelete ka nepo

Ho hlahisa bokhoni ba taba ena ka botlalo, lihoai li lokela li tlohe mekhoeng ea temo ea boipheliso 'me ba nke tlhahiso ea likhoho e le khoebo e ka bang le bokhoni ba ho hlahisa phaello. Taba ena e tla thusa lihoai ho eketsa chelete e kenang, ho ba le taolo likotsing, le ho nka liqeto tse nang le tsebo ho tliša kholo ea moshoelella khoebong. Sepheo sa khaolo ena ke ho fa lihoai malebela a bohlokoa a khoebo a kenyelletsang taolo ea lichhelete le mekhoha ea ho bapatsa. Ena ke mehato e reretsoeng ho ba thusa ho atleha leruong la likhoho tse ruheloang mahe le nama.

1

Karolo e Bapalong ke Likhoho tsa DPP Lefapheng la Likhoho Lesotho

Likhoho tsa DPP li fana ka litharollo mathateng a mangata a lefapha la khoebo ea likhoho. Ho fapana le likhoho tsa nama kapa likhoho tsa mahe tse hlokanang lisebelisoa tse turu li bile li itšetlehile haholo ka lisebelisoa tse tsoang kantle ho naha, likhoho tsa DPP li khona ho phela ka katleho maemong a lehae. Mokhatlo oa Rural Self-Development Association (RSDA) o thehile sebaka sa thekiso ea mahe a qhotsisoang ho hlahisa likhoho tsa DPP, sena se thusa ho netefatsa tlhahiso ea nako le nako ea litsunyana tse fumanehang ho lihoai tse ka har'a naha. Lihoai tse nyane li matlafatsoa ke mehato ena hore ba hlahise likhoho tse ikamahanyang le tikoloho ba bile ba sa itšetlehe ka lihlahisoa tsa kantle ho naha. Nama ea DPP e tsejoe ka ho hloka mafura a mangata le boleng bo holimo, ka hona bareki ba bangata ba Basotho ba se ba tseba ka eona. Ho sa le joalo, mahe a likhoho tsa DPP a fana ka mohloli o khonehang ka theko, o nang le phepo ea lihaha-mele molemong oa malapa. Melemo ena e boletsoeng e theha menyetla ea hore lihoai li fumane phaello

Ho ruha likhoho tsa DPP ho boloka litjeho hobane likhoho tse na li khona ho mamella maemo 'ohle a tikoloho le leholimo, hape ha li hloke lisebelisoa tse ngata joalo ka likhoho tsa nama le likhoho tsa mahe. Likhoho tsa DPP li khona ho phela maemong a Lesotho moo ho batang ho bile ho phahame, ka hona ke khetho e mamellang maemo a leholimo. Ha lihoai li sebelisa mekhoha e nepahetseng ea ho rua, li ka fokotsa likotsi 'me tsa fumana khutliso e ntle leruong. Ha lero la DPP le tsamaisoa ka mekhoha ea khoebo, hona ho thusa lihoai ho eketsa mehloli ea bona ea chelete ka ho rekisa nama, mahe le likhoho tse phelang. Ha lihoai li matlafatsa boleng ba tlhahiso le ho sebelisa mekhoha ea khoebo, li ka fihlela litlhoko tsa 'maraka o ntseng o hola le ho khakola lero la DPP e le mokhoa o ka tlišang chelete, o matlafatsa phumaneho ea lijo le ho matlafatsa khoebo ea lehae ea likhoho.

2

Menyetla ea Kholo

Naheng ea Lesotho, lefapha la likhoho tsa DPP le na le menyetla e pharalletseng ea kholo. Ho matlafatsoa hoa boleng ba nama le mahe ha 'moho le latela lipehelo tsa tlhahiso ho ka thusa hore lihlahisoa li rekisoe haholo li be li etse phaello. Hape, ntlafatso ea litsebo ka tsela ea koetliso ho ka thusa bahoebi ba ba nyane ho eketsa bokhoni ba bona ba ho hlahisa ka katleho. Ho holisa tšebetso ena ho ka fokotsa ho itšetleha hoa Lesotho holim'a thepa ea kantle ho naha, 'me hoa hahoa khoebo e itšematletseng.

Mokhatlo oa Rural Self-Help Development Association (RSDA) o thehile polasi eo e leng eona feela Lesotho e hlahisang likhoho tse ruheloang ho hlahisa nama le mahe—dual-purpose (DPP). Sebakeng sena ho sebelisoa mekhoha e nepahetseng ea taolo ho netefatsa tlhahiso ea litsuonyana tsa boleng bo phahameng. Likhoho tse ruhiloeng ke RSDA ho hlahisa mahe a litsuonyana li fumana tlhokomelo e batsi ka tsela ea hore ho lateloa mehato ea ho tširelletsa maphelo a likhoho. Ho boela ho lateloa litsela tsa phepo e raliloeng ka nepo ho boloka boleng le bokhabane ba mofuta oo ba o ruhileng oa likhoho. Mohato o mong o nkuoang ke ho beha tlasa leihlo tšebetso ea letsatsi ka leng ho netefatsa tlhahiso le kabo ea litsuonyana tsa DPP tsa boleng bo holimo. Litsuonyana tse hlahisoang li tširelletitsoe, li entiloe khahlanong le mafu a maholo joalo ka lefu la Newcastle, Lefu la Marek's, Infectious Bursal Disease (IBD) le Infectious Bronchiitis. Hona ho netefatsa hore li fihlela lipehelo tse phahameng tsa bophelo ka hona li monyetleng oa ho phela halelele le maemong a ha li fula lijo tseo li li jang.

3

Lihoai tsa Baholisi ba Litsuonyana

Litsuonyana tsa boleng bo holimo li rekisetsoa lihoai tsa baholisi ba litsuonyana, 'me bona ba hlokomela litsuonyana tsena ho fihlela nako ea libeke tse 4–6. Litsuonyana tsena li holisoa ka tlhokomelo e phahameng li fuoa litlhoko tsohle tsa tsona. Tsela eo lihoai tsa baholisi ba litsuonyana li etsang phaello ka eona e ipapisitse le ho rekisa litsuonyana ka nako e khothallelitsoeng. Ho boloka likhoho nako e telele ho baka hore litšenyehelo tsa ho fepa li phahame, hona ho fokotsa phaello. Ha likhoho li rekisoa li le libeke li 4, lihoai tsa baholisi ba litsuonyana li khona ho ba le mekhahlelo ea ho ruha e 8 ka selemo papisong le mekhahlelo e 6 ea likhoho tsa nama.

Nakong ea likhoeli tsa mariha Lesotho, likhoho tsa nama hangata li nka libeke tse 10 ho fihlela boima bo hlokoang ke 'maraka, maemo a na a beha likhoho tsa DPP monyetleng oa hore li etse phaello e fetang ea likhoho tsa nama. Ho bohlokoa hore lihoai tsa baholisi ba litsuonyana li lule li hlokomela litsuonyana ka boemo bo phahameng e le hore likhoho li be boemong ba thekiso ha li fihlela libeke tse 4 ho netefatsa hore ho ba le phaello.

BOLELE BA NAKO	LIKHOHO TSA DPP	LIKHOHO TSA NAMA
Matsatsi a mokhahlelo	28	42
Nako ea ho phomola (matsatsi)	14	14
Matsatsi 'ohle a mokhahlelo [matsatsi + nako ea ho phomola]	42	56
Palo ea matsatsi selemong	365	365
Palo ea mekhahlelo selemong	8	6

SETS'OANTS'O 6.2

Papiso ea mekhahlelo ea ho ruha pakeng tsa likhoho tsa nama le mahe le tsa nama

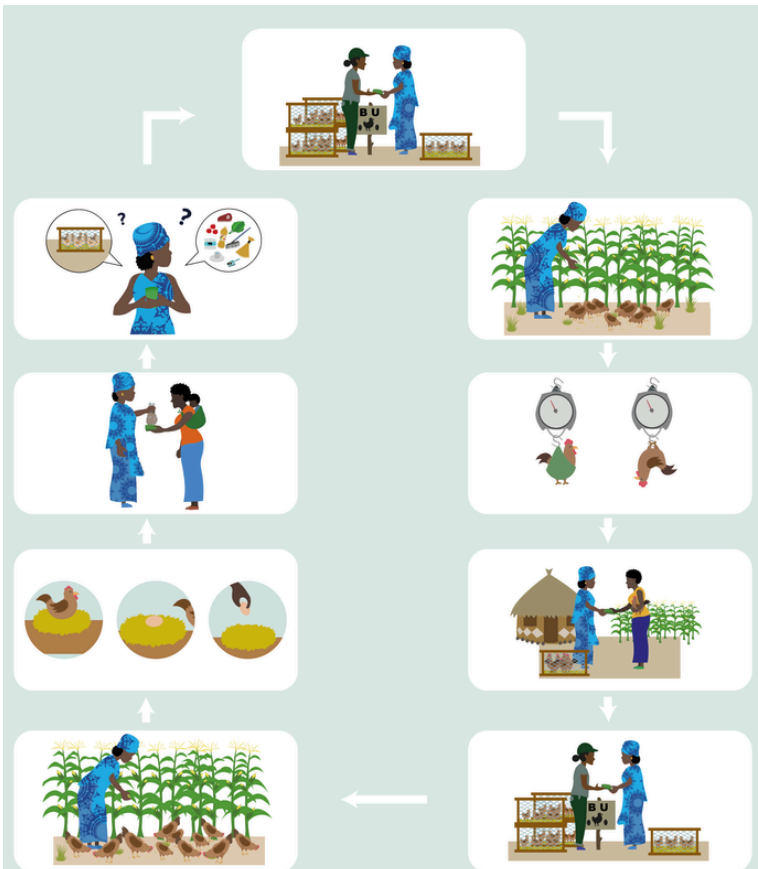
4

Sehoai se ruhang ka lipalo tse tlase

Ha likhoho li le lipakeng tsa libeke tse 4 le 6, li rekisetsoa sehoai se ruhang ka lipalo tse tlase, sona se tla li holisa ho fihlela li le kholo. Nakong ena, likhoho li qalella ho fula le ho

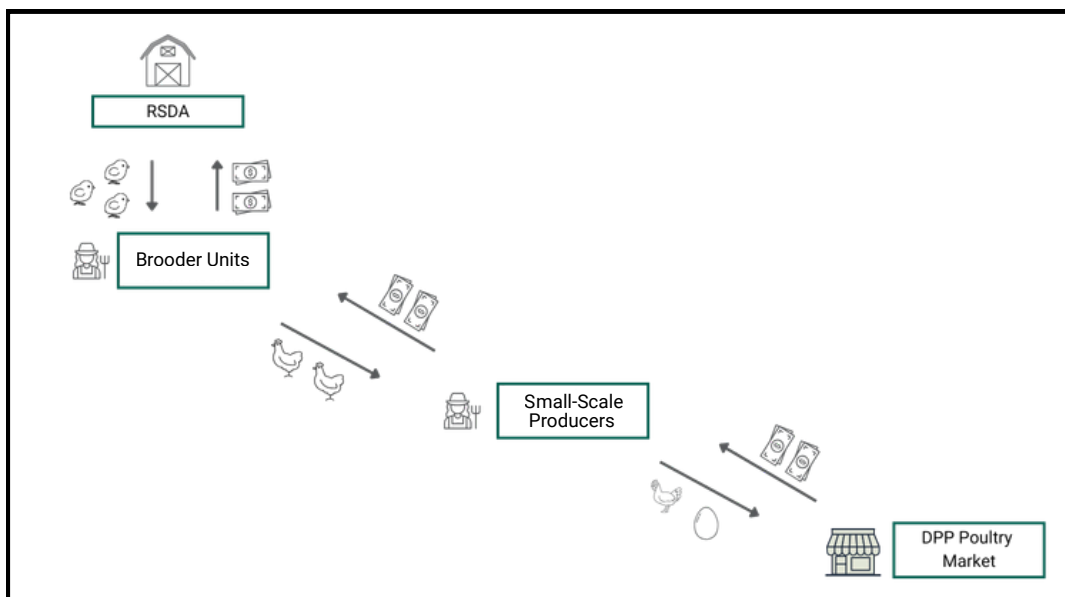
iphumanela lijo. Empa ho ho kothalletsoa ho li fepa karolo e fokolang ea lijo thollo ka letsatsi e le lijo tlatsetso. Ha ho rekoa ho tsoa ho lihoai tsa baholisi ba litsuonyana, kothalletso ke hore ho rekoe palo e lekanang lipakeng tsa mekoko le lithole. Libekeng tse 12, mekoko e tlabe e lokela ho rekisoa kapa ho hlajoa, chelete e kenang ho tsoa thekisong ea eona e lokela ho reka likhoho tse ling.

Libekeng tse 20, lithole li tla qalella ho behela mahe. Mahe a na a ka sebelisoa molemong oa phepo ea lelapa, a mang a ka rekisoa molemong oa ho etsa chelete. Kothalletso ke hore chelete e fumanoang thekisong ea mahe e sebelisoa ho reka likhoho tse ling. Boleleleng ba nako, leruo le tla eketseha ha thekiso ea mekoko e tsoelapele ho fana ka chelete ha 'moho le thekiso ea mahe.



SETS'OANTS'O 6.3

Pontšo ea tšebetso e potolohang ea sehoai se ruhang ka lipalo tse tlase



SETS'OANTS'O 6.4

Ketane e potolohang ea tlhahiso ea likhoho tsa DPP

Katleho ea nako e telele ea tšebetso ena e holim'a hore lihoai tse ruhang ka lipalo tse tlase li lula li reka likhoho tse libeke li 4 ho lihoai tsa baholisi ba litsuonyana, bao bona ba rekang litsuonyana tse letsatsi le leng mokhatlong oa RSDA. Mokhoa o na oa tšebetso o arabela liphephetso tseo lihoai li thulanang le tsona ha li qhotsisa mahe a tsona kaha litsuonyana tse hlahisitsoeng ka likhoho tse kopantseng mefuta li na le boleng bo tlase papisong le tse sa tsoakoang. Boholo ba likhoho tsa DPP ke likhoho tse kopantseng mefuta, ka hona litsuonyana tseo li li etsang e ba tsa boleng bo tlase. Ho sa le joalo, ha ho kopanyoa lithole le mekoko ea sebaka se le seng, ho ba le ho ikatisa hoa likhoho tsa mali a le mang; sena se baka litsuonyana tse se nang matla a kholo. **RSDA e bapala karolo ea mantlha ea ho ba le phepelo e tšepahalang ea litsuonyana tsa DPP molemong oa ho tšehetsa moralo o na ka katleho.**

Ho Utloisisa Moralo: Mohlala ka Peo

Nahana ho ruha likhoho tsa DPP e le tšebetso e tšoanang le ho lema poone. Lihoai tsa temo li reka peo ea poone e tsoakiloeng likhoebong tse rekisang peo nakong tsohle tsa temo hobane li hlahisa chai e holimo le lijalo tsa boleng bo phahameng. Ho boloka peo ea kotulo e fetileng hangata ho hlahisa lijalo tsa boleng bo tlase le chai e seng ntle. Ka tsela e tšoanang, likhoho tsa DPP ke likhoho tse tsoakiloeng. Litsuonyana tse hlahisitsoeng ho tloha ho likhoho tse holiselitsoeng hae li hola butle hape li hlahisa palo e tlase ea mahe papisong le litsuonyana tse tsoang RSDA. Ho reka litsuonyana tsa boleng bo phahameng khafetsa ho netefatsa tlhahiso e atlehileng, phaello e holimo le leruo le phetseng hantle

5

Poloko ea Libuka

Ho tsamaisa leruo la likhoho tsa DPP ka mekhoha ea khoebo ho qala ka poloko e nepahetseng ea likuka. Lirekoto li thusa lihoai ho latellisa tšebetso ea leruo, mehlala e ka ba chelete e kenang ho tsoa thekisong ea mahe le nama, phepo ea lelapa, le litšenyehelo tsa lijo tsa likhoho le meriana. Lirekoto tse nepahetseng li thusa lihoai ho hlahloba hore na leruo la bona le etsa phaello kapa tahlehelo; hona ho bohlokoa molemong oa meralo le ntlafatso ea tšebetso. Ka hoo, ho boloka lirekoto tse hlakileng li bile li felletse ho thusa lihoai ho etsa liqeto tse qaqileng tse holilising likhoebo tsa tsona.

1. Mabaka a ho boloka libuka

Ho lihoai tsa likhoho tsa DPP, lihoai tsa baholisi ba litsuonyana le lihoai tse ruhang ka lipalo tse tlase, ho bohlokoa ho boloka libuka molemong oa tsamaiso le kholiso ea likhoebo. A mang a mabaka ke a na:

2. Ho thusa ho etsa liqeto tsa meralo ea lichelete

Lirekoto li thusa lihoai ho etsa tšalo-morao holim'a chelete e kenang le litšenyehelo tse kang lijo, meriana le meputso ea basebetsi. Lirekoto li boela li thusa lihoai ho sebetsa lipalo tsa phaello e entsoeng thekisong ea nama le mahe. Hona ho bohlokoa molemong oa ho thusa ho etsa liqeto tse nang le tsebo tsa meralo ea lichelete

3. Ho thusa ho etsa liqeto tsa tšebeliso ea sebaka

Lirekoto li thusa lihoai ho etsa meralo le ho laola tšebeliso ea sebaka seo ho ruheloang likhoho ho sona. Lihoai li ka etsa liqeto tsa meralo e nepahetseng ea matlo a likhoho li boele li etse meralo ea bokamoso ea ho eketsa matlo.

4. Ho thusa ho etsa liqeto tse nepahetseng tsamaisong ea leruo la likhoho

Lirekoto tsa likhoho ka bo mong, ho kenyelletsoa bophelo, kholo, le tšebeliso ea lijo li thusa lihoai ho lekola tšebetso le ho hlokomela libaka tse hloakang ho matlafatsoa. Lirekoto tsena li ka boela tsa thusa taolong ea mafu le ho a tlaleha.

5. Ho hlahloba tšebetso e fetileng

Lirekoto li thusa lihoai ho etsa tšalo-morao holim'a chelete e kenang le litšenyehelo tse kang lijo, meriana le meputso ea basebetsi. Lirekoto li boela li thusa lihoai ho sebetsa lipalo tsa phaello e entsoeng thekising ea nama le mahe. Hona ho bohlokoa molemong oa ho thusa ho etsa liqeto tse nang le tsebo tsa meralo ea lichelete

6. Ho sebetsa e le tataiso ea meralo bakeng sa liqeto tsa kamoso

Lirekoto tse bolokiloeng ka nepo li tataisa lihoai ho etsa meralo ea matsete a nako e tlang joalo ka ho reka lisebelisoa tse ncha tsa kholiso ea litsuonyana kapa ho eketsa leruo. Lirekoto li boela li thusa ho beha lipheo, ho etsa tekanyetso ea lichelete, le ho itokisetsa kholo, ena ke mehato ea ho netefatsa katleho ea nako e telele ea khoebo.



Mefuta ea Lirekoto

Hona le mefuta e 'meli ea lirekoto e ka bolokoang, ke lirekoto tsa lichelete le tsa tlhahiso.

1. Lirekoto tsa Lichelete

Lirekoto tsena li bohlokoa molemong oa ho hlahloba tšebetso ea khoebo licheleteng e le ho bona hore na khoebo e etsa chelete kapa che. Lirekoto tsena li sebelisoa ho boloka litaba tsa hore khoebo e na le litšenyehelo li fe le lichelete tse kae. Phaello e sebetsoa ka ho tlosa litšenyehelo ho chelete e kenang.

MOFUTA OA SEHOAI SA DPP	MOHLALA OA LITŠENYEHÉLO	THEKISO
Sehoai se holisang litsuonyana	Litsuonyana tse letsatsi le leng	Likhoho tse libeke li 4 - 6
	Khase/Mashala/Patsi/Motlakase	Manyolo
	Liente le Meriana	
	Meputso ea basebetsi	
	Lihlahisoa tse hloekisang	
	Libolaea-likokoana-hloko	
	Lijo tsa likhoho	
	Moalo	
	Litjeo tsa ho tsamaisa likhoho	
Sehoai se ruhang lipalo tse tlase	Likhoho tse libeke li 4 - 6	Mahe
	Lisebelisoa tsa ho tšela mahe le nama	Lithole tse sebelisitsoeng
	Lijo tsa likhoho	Mekoko e phelang

Litšenyehelo le Chelete e kenang

- ✓ **Litšenyehelo:** Ke chelete e sebelisoang ke khoebo ho reka lisebelisoa
- ✓ **Chelete e kenang:** Ke chelete eo sehoai se e fumanang ha ho rekisoa mahe, nama kapa likhoho tse phelang

E 'ngoe ea mefuta ea lirekoto tsa lichelete tse bohlokoa khoebong ea lihoai tsa baholisi ba litsuonyana ke khakanyo ea lichelete (budget). Khakanyo ea lichelete ke sesebelisoa se thusang ho etsa meralo ea nako e tlang le ho thusa khoebo ho nka liqeto tsa bokhoni ba ho etsa ntho tse itseng. Khakanyo ea lichelete e etsoa ka ho thathamisa litjeo tsohle tse bileng teng nakong e itseng. Ho sehoai se secha, khakanyo ea lichelete e ka thusa ho bona hore litšenyehelo tseo e kang lisebelisoa le matlo li ba teng. Ho sehoai se seng se qalile khoebo, khakanyo ea lichelete e ka kenyelletsa litjeo tse kang lijo tsa likhoho, litsuonyana le lintlafatso. Ha khakanyo ea lichelete e sebelisoa ka nepo, e ka thusa lihoai ho nka liqeto tse nang le tsebo ka likhoho pele li kenngoa sebakeng, sena se fokotsa tahlehelo.

Litšenyehelo	Theko	Palo	Kakaretso
Litsuonyana tse letsatsi le leng			
Khase/Mashala/Patsi/Motlakase			
Liente le Meriana			
Meputso ea basebetsi			
Lisebelisoa tse hloekisoang			
Libolaea-likokoana-hloko			
Lijo tsa likhoho (starter)			
Moalo			
Litjeo tsa ho tsamaisa likhoho			



Litlhaloso tsa Mantlha

Litšenyehelo tse sa fetoheng – Ke litšenyehelo tse sa fetoheng ho sa natsoe palo ea likhoho.

Mehlala: Matlo, thepa, mangolo a khoebo, meputso.

Litšenyehelo tse fetohang – Ke litšenyehelo tse fetohang ho latela palo ea likhoho.

Mehlala: Lijo, liente, litjeo tsa ho tsamaisa khoho ka 'ngoe

Theko e lekanang le litšenyehelo - Ke theko e tlase ka ho fetisisa e lokelang ho lefiisoa khoho ka 'ngoe hore chelete e kenang e lekane le litšenyehelo tsohle ho sa be le phaello kapa tahlehelo.

Ha theko e lekana le litšenyehelo (break-even), ke ha chelete e kenang khoebong e lekana le litšenyehelo, ho bolellang hore ha hobe le phaello kapa tahlehelo. Seoai se tlameha ho khona ho rekisa ka holim'a ntlha ena hore ho be le phaello. Ho tseba mothati oa ha theko e lekana le litšenyehelo ho thusa lihoai tsa baholisi ba litsuonyana ho beha theko e ka bang tlase ea likhoho tsa bona. Ho boela ho fana ka leseli la hore na liphetoho tsa litšenyehelo kapa boholo ba tlhahiso ho ka ama thekiso joang. Ho tseba ha theko e lekana le litšenyehelo ho boetse ho thusa ho rera phaello le ho tsitsa hoa khoebo ea likhoho.

Ho etsa hore theko e lekane le litšenyehelo (break-even) khoebong ea kholiso ea litsuonyana, ho lokela ho tsejoe palo ea litšenyehelo tse sa fetoheng le ea litšenyehelo tse fetohang. Litšenyehelo tse sa fetoheng li kenyelletsa litšenyehelo tse kang meputso, empa litšenyehelo tse fetohang li chenchela ha ho ipapisoa le palo ea likhoho, 'me li kenyelletsa lijo le litsuonyana. Mokhoa o ka sebelisoang ke khoebo ea kholiso ea litsuonyana ho etsa lipalo tsa ho fumana palo ea ha theko e lekana le litšenyehelo ke o na:

Tsela ea lipalo ea ho fumana ntlha ea ha theko e lekana le litšenyehelo

Theko e lekanang le litšenyehelo ea khoho ka 'ngoe = (Litšenyehelo tse sa fetoheng ÷ palo ea likhoho tse rekisitsoeng) + Litšenyehelo tse fetohang khoho ka 'ngoe

Mokhoa o na o thusa ho tseba theko e tlase ka ho fetisisa eo ho lokeloang ho rekisoa khoho ka 'ngoe hore e fihlele litšenyehelo tse sa fetoheng le litšenyehelo tse fetohang.

Mohlala:

Ha re re u ruile likhoho tsa DPP tse 500

Litšenyehelo tse sa fetoheng (matlo, ho bonesa, ho felloa ke boleng hoa thepa, etc.) = 2600

Litšenyehelo tse fetohang khoho ka 'ngoe (lijo, meriana, ho tsamaisa khoho ka lipalangoang) = 33

Leha ho le joalo, tebello ke hore ho tla rekisoa likhoho tse 485 (ho kenyelletsoa tahlehelo)

Joale ha re sebetse lipalo:

Theko e lekanang le litšenyehelo ea khoho ka 'ngoe = $2,600 \div 485 + 33$
= $5.36 + 33$
= 38.36 per bird

Hona ho bolela hore:

U lokela ho rekisa khoho ka 'ngoe bonyane 38.36 molemong oa hore u fihlele theko e lekanang le litšenyehelo

- Haeba u rekisa khoho 45, u fumana phaello ea 6.64 khoho ka 'ngoe.
- Haeba u rekisa khoho 35, u lahlehela ke 3.36 khoho ka 'ngoe

Liphoso tse bakang tahlehelo ea Lichelete Likhoebong tsa Likhoho tsa DPP

a. Ho boloka likhoho nako e telele haholo ho fokotsa monyetla oa ho etsa phaello

Katleho ea lihoai tsa baholisi ba litsuonyana e itšetlehile ka ho phetha mekhahlelo e mengata ea ho ruha likhoho selemong. Tlase maemo a lokileng a tlhokomelo, lihoai li ka fihlela mekhahlelo e 8 ea matsatsi a 28 selemong. Le ha hole joalo, ha likhoho li bolokoa ho feta matsatsi a kothallelitsoeng a 28, ho ba le phokotseho mekhahlelong ka selemo, 'me hona ho fokotsa chelete e tlang ho kena. Ho sa le joalo, ho boloka likhoho nako e telele ho baka ho be keketseho ho lijo tse jeoang ke likhoho. Ka lebaka la hore lijo ke tšenyehelo e kholo haholo tlhahisong ea likhoho, hona ho fokotsa phaello haholo.

b. Mekhoa e sa nepahalang ea tlhokomelo e eketsa litsenyehelo tsa tlhahiso.

Mathata a kenyelletsang moea o sa lekanang, mocheso o phahameng haholo kapa serame, ho petetsana, khaello ea phepo le mafu a ka ama bophelo le kholo e nepahetseng ea likhoho. Ha likhoho li sa atlehe ho fihlela boima ba 'maraka ka nako e reriloeng, sehoai se lokela ho li boloka nako e telele. Sena ha se eketse litsenyehelo tsa lijo feela empa se boela se baka tšitiso ho moralo oa tlhahiso, 'me ho baka ho fokotseha hoa mekhahlelo ea ho rua. Ka lebaka le na eba phaello e ba tlase.

c. Ho se boloke libuka ka nepo ho baka ho nka liqeto tse hlohang tsebo

Ho boloka libuka ka tsela e nepahetseng ho bohlokoa molemong oa ho hlahloba tšebeliso ea chelete le likarolo tsa tlhahiso khoebong ea likhoho. Ha lihoai li sa e le hloko lisebelisoa, thekiso, sekahla sa kholo le litsenyehelo, ho ba thata ho hlahloba tšebetso ea khoebo kapa ho lemoha tahlehelo. Poloko e nepahetseng ea libuka e thusa ho nka liqeto tse nang le motheo ka nako tse thusang ho fokotsa sekahla sa tahlehelo, ho akofisa katleho ea khoebo le fana ka tšebetso botsitsong ba nako e telele ba khoebo.

d. Ho sebelisa chelete ea khoebo bakeng sa litlhoko tsa botho

Boholo ba lihoai tse ruhang lipalo tse tlase tsa likhoho ba sebelisa chelete e kenang ho tsoa thekisong ea likhoho le mahe molemong oa litlhoko tsa bona tsa botho e be ha ba arole lichelete tsa bona. Ka hona, ba hloleha ho khutlisetsa karolo e 'ngoe ea chelete khoebong. Taba e na e etsa hore ho be thata ho reka lijo, litsuonyana kapa ho etsa lintlafatso mehahong e le ho lokisetsa mokhahlelo o mong. Ha ho sa boeloe ho tseteloa chelete, khoebo e ke ke ea hola 'me e kaba ea khaotsa ho tsoelapele. Kholo e tsoellang-pele ea khoebo e hloka boitšoaro taolong ea lichelete, sena se ka fihleloa ka ho sebelisa phaello hoane le hoane ho siuoa chelete e 'ngoe kahar'a khoebo e tla sebetsa ho matlafatsa le ho holisa khoebo

Likhoebo tsa baholisi ba litsuonyana le tsa lihoai tse ruhang lipalo tse tlase li lokela ho boloka lirekoto tsa thekiso tse kang:

a. Lirekoto tsa behelletsa theko le thomello ea sehlahisoa

Date ordered	Price per chick (LSL)	Number of chicks ordered	Total paid (LSL)	Expected Date of Delivery	Expected Time of Delivery
10 March	12.50	200	2500	12 March	0830am
15 May	13.00	150	1950	17 May	9 am
22 July	12.75	180	2295	27 July	7 am
30 Sept	12.75	250	2550	7 Oct	8 am

SETS'OANTS'O 6.5
Rekoto ea thomello ea sehlahisoa

b Rekoto ea lenane la bareki (mabitso le linomoro tsa mohala)

Customer Name	Contact Number
Thabo Mofokeng	5801 1234
Lerato Moshoeshe	5812 5678
Palesa Ramathe	5823 9101
Teboho Ntshaki	5834 8765
Nthabiseng Seutloali	5845 4321
Mpho Lekhanya	5856 6789
Khotso Mohapi	5867 3456
Bochumelo Mohlatsi	5878 9876

SETS'OANTS'O 6.6

Rekoto ea bareki

c. Matsatsi a thekiso

Matsatsi a thekiso ea mahe le likhoho, nako ea khoho hae rekisoa, botona kapa botšehali ba likhoho tse rekisitsoeng le theko ea khoho

Date of Sale	Product Sold	Age of birds (Weeks)	Number of birds sold	Price per bird (LSL)	Total (LSL)	Number of eggs sold	Price per egg (LSL)	Total from eggs (LSL)
5 March	Birds	18	20	90	1800	-	-	-
5 March	Eggs	-	-	-	-	30	4	120
2 April	Egg	-	-	-	-	18	4	72
14 April	Birds	25	3	90	270	-	-	-
15 April	Birds	25	4	90	360	12	4	48

SETS'OANTS'O 6.7

Rekoto ea thekiso

d. Rekoto ea Limpho

Etsa rekoto ea likhoho kapa mahe a fanoeng e le limpho, ho kenyelletsoe matsatsi, likhoho le mahe a jeloeng ke lelapa 'moho le matsatsi, ho kenyelletsoe le likhoho tse utsoitsoeng.

Date	Product (Live birds/eggs)	Quantity	Reason (Gift/Stolen/Consumed)	Estimated value (LSL)	Notes
10 March	Birds	3	Gift	270	Given to relative as gift
17 March	Birds	1	Consumed	90	Slaughtered for family
28 April	Eggs	6	Consumed	18	Consumed
20 May	Birds	3	Stolen	270	Stolen from the coop
21 May	Eggs	6	Consumed	18	Consumed

SETS'OANTS'O 6.8

Rekoto ea limpho

2. Lirekoto tsa Tlhahiso

Lirekoto tsena li totobatsa hore na likhoho li hola joang. Lirekoto tse latelang li ka bolokoa:

a. Rekoto ea thomello

Ha litsuonyana li qeta ho romelloa, etsa rekote ea lintlha tsena: palo ea litsuonyana tse romelletsoeng papisong le tse neng li lebelletsoe, tse shoeleng (li fihlile li shoele) li kae—haeba li le teng, tse nang le bokooa (maoto a sothehileng, melomo e tšekalletseng).

Letsatsi la thomello	Palo ea litsuonyana tse lebelletsoeng	Palo ea litsuonyana tse romelletsoeng	Lefu (Tse fihlileng li shoele)	Litsuonyana tse nang le bokooa	Maikutlo
25/10/2020	100	100	5	0	Thomello e liehile
10/12/2020	150	150	0	0	Litsuonyana tsohle li phetse hantle

Rekoto ena e tla thusa lihoai tsa baholisi ba litsuonyana ho kenya tletlebo ho morekisi haeba ho na le mathata ka litsuonyana tse romelletsoeng. E ka boela ea sebelisoa ho hlahloba na litsuonyana tse neng li lebelletsoe li tšoana le tse romelletsoeng.

b. Kamor'a ho kenya likhoho: Lirekoto tsa Letsatsi le Beke

Lirekoto tsa letsatsi tse bontšang ho shoa hoa litsuonyana li lokela ho bolokoa ho kenyelletsoa le mabaka a ho shoa. Ho etsa likoto tsa mafu ho thusa ho fumana sesosa sa mafu. Mohlala, haeba mafu a etsahala kamor'a hore litsuonyana li fihle, e kaba sesupo sa hore li bile le khatello ea maikutlo ha li tsamaisoa ka koloi. Mafu a hlahang kamor'a matsatsi a mararo e kaba sesupo sa hore hona le mathata ka sefuthumatsi, lijo kapa metsi.

Hopola: Lirekoto li lokela ho ba C.L.E.A.R

- ✓ **C: Clarity (Ho hlaka)** – Ho be bobebe ho utloisisa le ho sebelisa lirekoto
- ✓ **L: Legibility (Ho baleha)** – Lirekoto li balehe li be li hlophisoe na nepo
- ✓ **E: Efficiency (Ho sebetsa ka katleho)** – Tšebetso e be e hlakileng e sa senyeng nako
- ✓ **A: Actionable (Phethahatso)** – Netefatsa hore lirekoto li thusa ho nka liqeto le ho tlisa liphetoho
- ✓ **R: Reviewable – (Hlahlobehe)** – Sebelisa lirekoto ho hlahloba tšebetso e fetileng le ho tataisa meralo ea nako e tlang

7

Mekhoa ea ho Bapatsa

Ho tsamaisa khoebo ea likhoho e nang le katleho, sehoai se lokela ho ba le bareki. Ha ho hoheloa bareki, ho bohlokoa ho hopola meoloane ena ea mantlha e 'meli: 1) ha ho motho ea tlo reka sehlahisoa seo a so utloele ka sona, 2) ho bobebe ho boloka moreki ea teng ho na le ho fumana moreki ea mocha.

Ho na le litsela tse ngata tsa ho bapatsa le ho rekisa nama ea khoho le mahe, empa ha batho ba sa tsebe ka khoebo, ha hona na ba le thekiso. Ho tloha nakong eo ho kenngoang likhoho, ho bohlokoa ho ba le leseli la batho bao ho reriloeng hore ba tla rekisetsoa, 'me ho hloka hore ho etsoe mekhoa ea ho ba fihlela ka katleho.



SETS'OANTS'O 6.9
Kopano ea baahi ea ho bapatsa

Mekhoa e latelang e ka sebelisoa ho hohela bareki:

- Ho ka thehoa sehlopha sa WhatsApp moo bareki ba fuoang litsebiso tsa bo teng ba likhoho tse libeke li 4 – 6 kapa bo teng ba mahe le lithole tse seng li sebelisitsoe.
- Ho bohlokoa ho bapatsa likhoho tse libeke li 4 – 6 pele li fihlela nako ea thekiso. Keletso ke hore likhoebo tsa baholisi ba litsuonyana li fumane boitlamo ba likhoebo tse ruhang likhoho hore li tla reka litsuonyana. Hona ho netefatsa likhoho tsohle li rekisoa ka nako, ho fokotsa ho ba le litsuonyana tse sa rekisoang.
- Likopano tsa ho bapatsa ho litho tsa sechaba ho fana ka monyetla o nepahetseng oa ho tsebisa batho ka likhoho tsa DPP le ho araba lipotso. Likopano tsena li ka boela tsa sebelisoa e le lithala tsa ho koetlisa lihoai ka leruo la likhoho tsa DPP le ho etsa lipontšo tsa mahe le likhoho ho bareki ba ka bang teng
- Lipapatso tse lebisitsoeng ho bareki ho sebelisoa liposter, liflyer le liea-le-moea tsa sechaba li ka thusa ho hasa molaetsa ka likhoho tsa DPP le melemo ea tsona. Mekhoa e na e boloka litjeo ebile e fihlela sechaba ka bongata le libakeng tsa mahaeng.
- Lihoai tsa baholisi ba litsuonyana 'moho le mokhatlo oa RSDA ba ka ea li'marakeng tsa lihoai, lipontšong tsa temo le lipontšong tsa metse ho bapatsa lihlahisoa tsa likhoho tsa DPP. Libakeng tsena hoba le menyetla ea ho kopana le bareki le ho thusa likhoebo ho tsebahala.



Liteboho

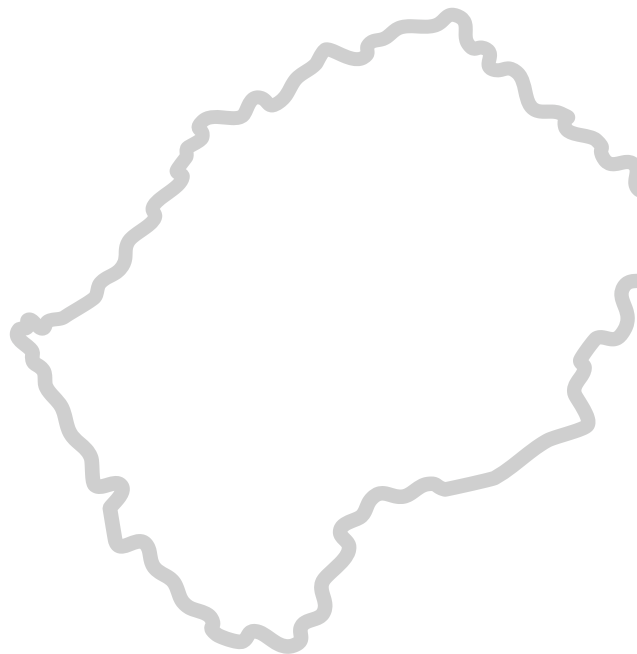
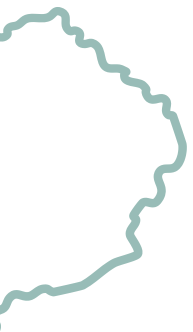
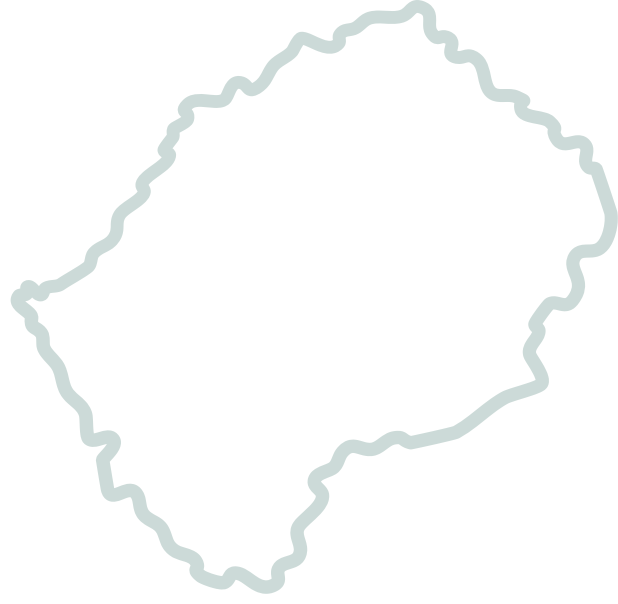
Re lakatsa ho isa teboho ea rona e tsoang boteng ba pelo ho boohle ba nkileng karolo ho etseng buka e na ea tataiso.

Re lebisa teboho e khethehileng ho Lehotetsa Visuals ka litšoantšo tsa bona tse nang le bokhabane, tseo ka tsona litaba tsa buka ena li bileng le bophelo. Re boela re lebisa liteboho ho mekhatlo e meng e mengata, ka ho khetholloha World Poultry Foundation le KwaZulu-Natal Poultry Institute. Re leboha le batho ka bo mong ba tlatseliseng bukeng ena ea tataiso ka litšoantšo.

Re boetse re leboha botšehetsi ba Ufulu ka thuso ea bona ea ho ntlafatsa chebahalo ea buka ena ea tataiso.

Re leboha ho tsoa boteng ba pelo lihoai tse faneng ka tumello ea ho hlahisoa litšoantšong, 'me ba re fa monyetla oa ho bontša mekhoha e nepahetseng kahar'a buka ena ea tataiso

Ha re phethela, re leboha boohle ba nkileng karolo tlhahisong ea buka ena ea tataiso. Boitelo ba lona bo bile bohlokoa haholo.



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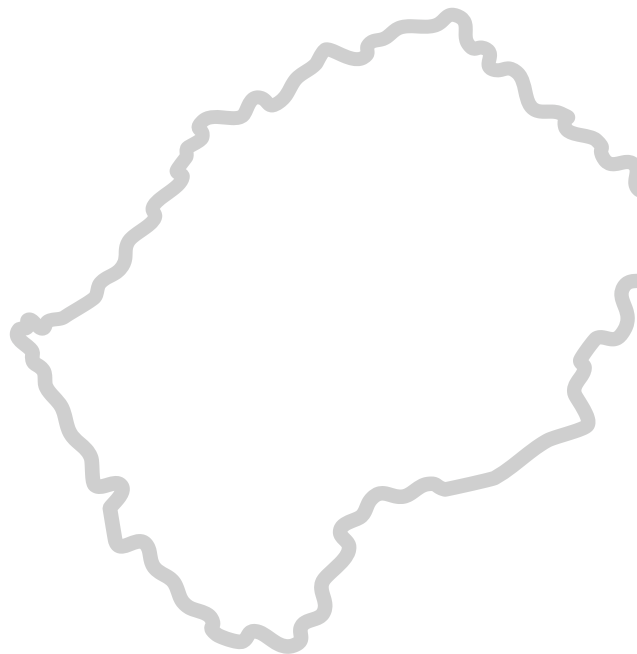
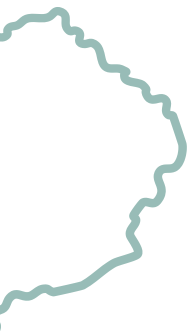
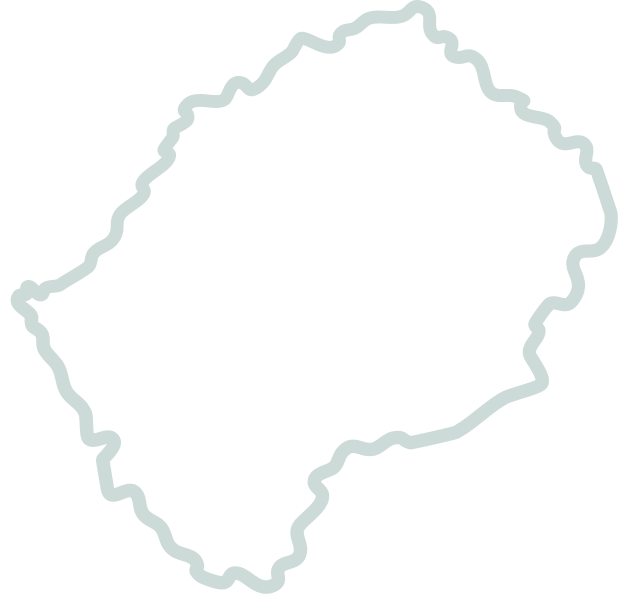
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Qhoaello i

Maikutlo a Sebelisoang ke Mohlokomeli oa Likhoho

1

Kutlo

Mohlokomeli ea lokileng ke ea khonang ho mamela melumo e ka tlung ea likhoho, ebang e tsoa ho likhoho kapa tikolohong e potolohileng. Bokhoni ba ho mamela bo lumella mohlokomeli ho lemoha mathata a ho hema a ka bonatšang lefu. Matšoao ho se ferekana ka lebaka la kotsi, le melumo eka fanang ka likateng mabapi le bophelo ba likhoho.

2

Pono

Mookameli o lokela ho sebelisa mahlo ho bona likhoho le tikoloho. Sena se kenyelletsa ho lemoha maemo joaloka boleng ba moalo, phetoho ea 'mala le boleng ba mantle, leroele, litepu likokonyana le likokoana, linoelo tse lutlang le tšenyeho ea lijo. Pono e lumella mohlokomeli ho lekola boitšoaro ba likhoho molemong oa ho nka liqeto tse nepahetseng. E lumella hore mafu a bonahale kapele ka lebaka la ho eelloa matšoao a pele.

3

Monko

Mohlokomeli o lokela ho sebelisa linko ho utloa monko o sa thabiseng kapa o sa tloaelehang ka tlung ea likhoho. Mohlala, monko o matla oa ammonia o bontša hore moea ha o potolohe hantle 'me o hloka ho hlokomeloa hang-hang.

4

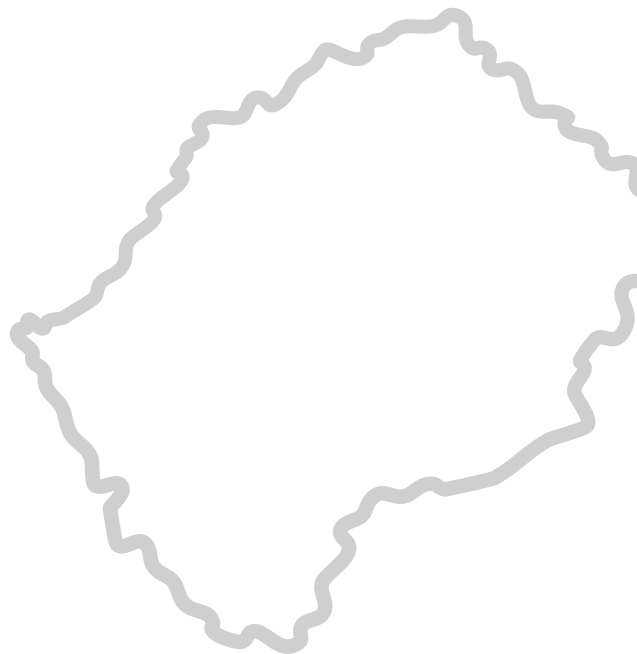
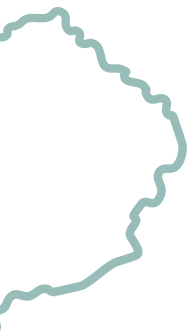
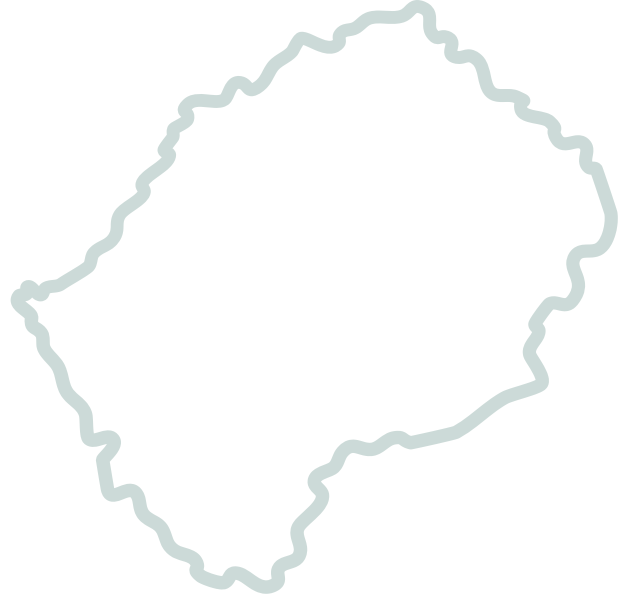
Ho Ts'oara

Ho tšoara ho bohlokoa molemong oa ho lekola maemo a fapaneng ka tlung ea likhoho. Mohlokomeli a ka etsa tlhahlobo ea kilana ho bona hore na tsuonyana e jele le ho noa hantle. Ho tšoara ho boetse ho sebelisoa ho hlahloba mocheso oa metsi a nooang le ho lekola maemo a moalo le libaka tse ka tlung.

5

Tatso

Mookameli o lokela ho latsoa lijo le metsi. Sena se thusa ho lemoha liphoso, joalo ka tšilafalo ea lijo kapa mathata a metsi, a ka amang bophelo bo bophelo le ts'ebetso ea likhoho.



Qhoaelo ii

Mosebetsi oa ho Fumana Palo ea Likhoho ho Ipapisitsoe le Sebaka

Mohlala oa ketsahalo: ho fumana palo ea likhoho tse ka fellang ka ntlong

Lebohang o lokisetsa ho rua likhoho tse rueloang nama le mahe (Dual Purpose) 'me o hloka ho tseba na ke likhoho tse kae tse ka fellang ka ntlong ea hae ea likhoho. Ntlo ena le litekanyetso tsa **20m²** empa **2m²** e sebetsa ele polokelo, ho sala fela **18m²** eka sebelisoang fatše.

Bongata bo khothalelitsoeng ho ipapisitsoe le sebaka ke hore likhoho tse **15 li nke 1m²**.

Lemohang o sebelisa mokhoa ona ho fumana na a ka kenya likhoho tse kae:

Palo ea Likhoho = Sebaka se ka sebelisehang fatše × Palo eka kenngoang.

$$= 18 \text{ m}^2 \times 15 \text{ likhoho/m}^2$$

$$= 270 \text{ (Likhoho)}$$

Sepheho

Lebohang a ka kenya likhoho tse 270 ka ntlong ea hae ka boiketlo. Sena se netefatsa hore likhoho li na le sebaka se lekaneng, se fokotsang khatello le tlholisano ea ho fihlela lijo le metsi. Sena se tla etsa leruo le ntlafetseng.

Ke nako ea hau!

Boikoetliso ba ketsahalo: ho fumana palo ea likhoho tse ka fellang ka ntlong

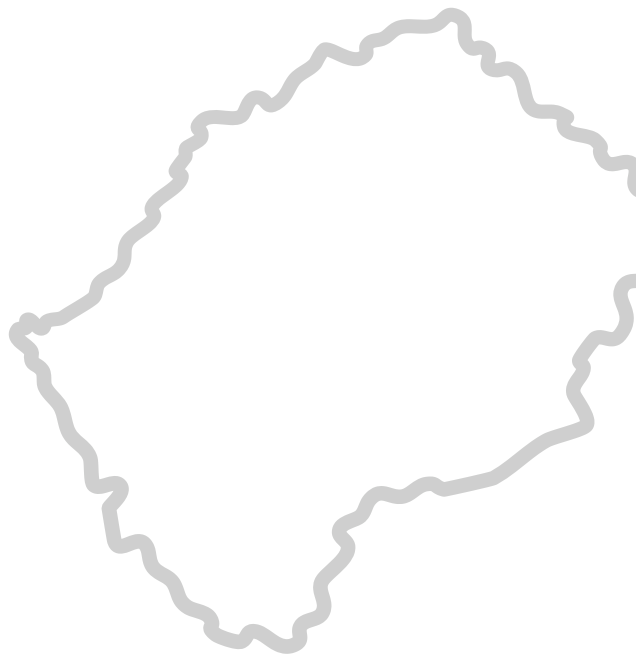
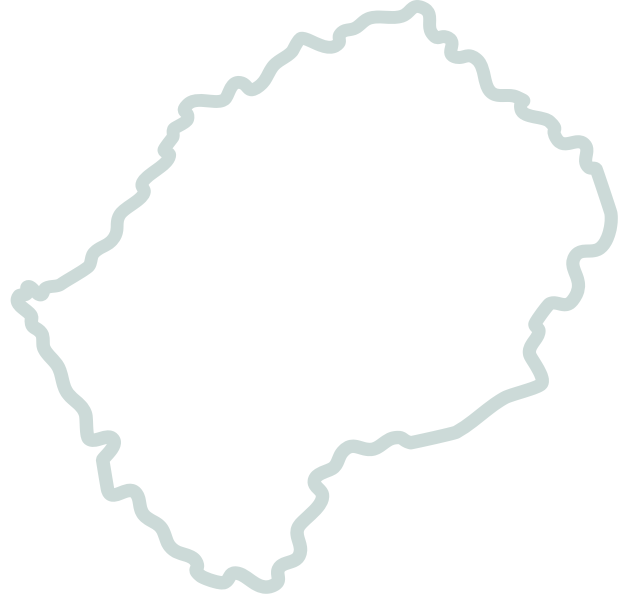
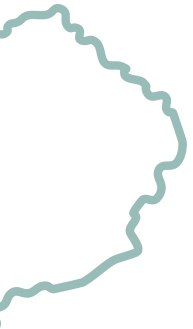
Rethabile o itukisetsa ho kenya litsuonyana tse ncha. Ntlo ea hae ke **30m²** ka kakaretso, empa **5m²** e sebelisoa ele polokelo. Sebaka se khothalelitsoeng ho ipapisitsoe le palo ea likhoho ke ea likhoho tse **15 li nka sebaka sa 1m²**.

Ana u ka sebetsa na Rethabile o hloka ho kenya likhoho tse kae ka boiketlo?

Lebohang o sebelisa mokhoa ona ho fumana palo ea likhoho:

Sebelisa sebaka sena ho fumana tataiso

Sebaka sa ho ikoetlisa	Karabo
1. Kakaretso ea sebaka fatše (m ²):	
2. Sebaka sa polokelo (m ²):	
3. Sebaka se ka sebelisoang (m ²): (Mokhoa: kakaretso ea sebaka fatše – polokelo)	
4. Likhoho khahlanong le sebaka (birds/m ²):	
5. Palo ea likhoho: (Mokhoa: Sebaka se sebelisehang × likhoho khahlanong le sebaka)	



Qhoaelo iii

Mosebetsi oa ho bekha

Mohlala oa ketsahalo: Ho bekha

Thabo, Sehoai se ruoang ka lipalo tse nyane (small-scale farmer) se nang le litsuonyana tse 50 tsa Boschveld, o hloka ho bekha lekhetlo la pele ele ho lekola kholo:

1. **Lukisa Lisebelisoa:** Thabo o beha nkho esa tšelang holima sekala, o ngola boima ba eona ba 2.0 kg. weight as 2.0 kg.
2. **Khetha karoloana/sehlopha:** Kaha Thabo ona le likhoho tse 50, O khetha tse 10 bakeng sa ho bekha
3. **Bekha Likhoho:** Thabo o nka likhoho tse 10 ka hloko o li beha ka nkhang ebe o li bekha ha 'moho. Sekala se fana ka palo ea 5.35 kg (5350 g).
4. **Sebetsa Boima ba Litsuonyana:** Thabo o tlosa boima ba nkho ho kakaretso eo a e fumaneng: 350 g nkho + litsuonyana) - 2000g (nkho) = 3350g (litsuonyana).
5. **Fumana boima bo lipakeng:** o arola kakaretso ea boima ka palo ea sehlopha sa likhoho: 3350 g ÷ 10 litsuonyana = 335 g tsuonyana ka 'ngoe.
6. **Ngola boima bo qalang:** Kaha ke boima ba pele bo nkuoang kamora hore litsuonyana li kene, Thabo o ngola 335g ele boima bo qalang, bo atla bapisa ka bona ka moso ha a bekha beke le beke.

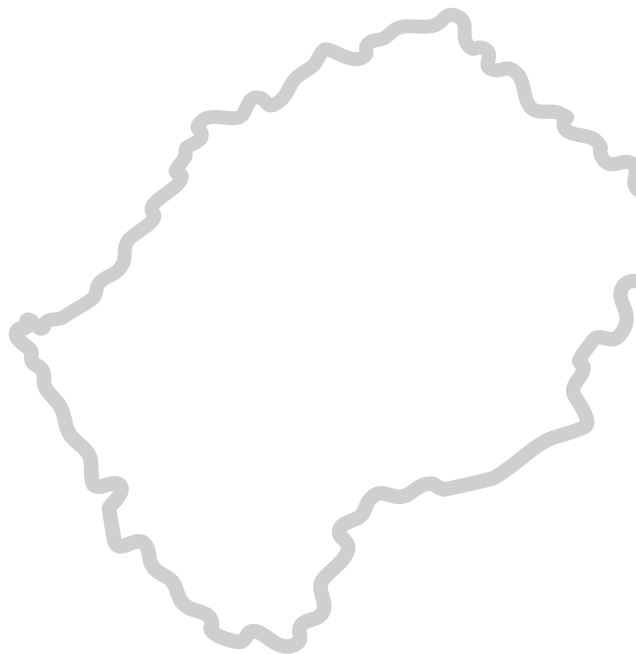
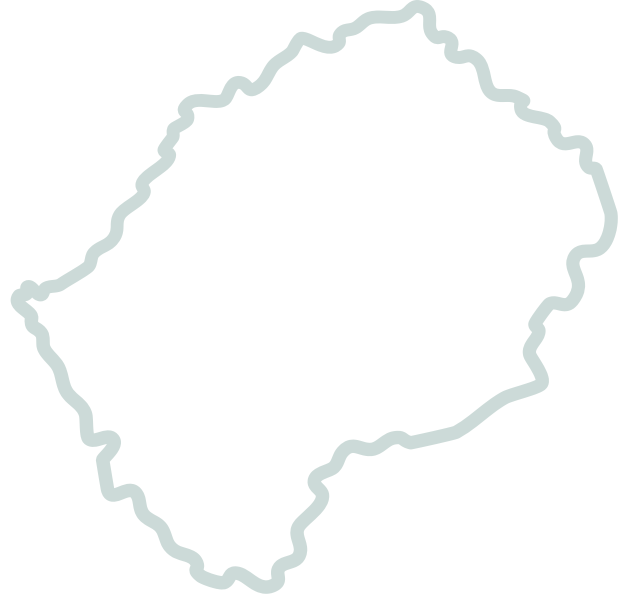
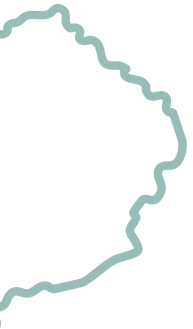
Joale ke nako ea hau!

Boikoetliso ba ketsahalo : Ho bekha

Sebelisa lintlha tse fanoeng ho tlatsa tafole e latelang: Sebetsa kakaretso ea boima ba litsuonyana le boima bo mahareng ba khoho ka 'ngoe.

1. **Kakaretso ea likhoho ka ntlong:** 200
2. **Sehlopha se khethuoeng bakeng sa ho bekha:**
3. **Boima ba nkho e sa tšelang :** 2.5 kg (2500 g)
4. **Kakaretso ea boima ba nkho e tšetseng likhoho:** 7.3 kg (7300 g)

Mohato	Mohato	Karabo
Kakaretso ea leruo		200g
Palo ea sehlopha se khethuoeng		
Boima ba nkho esa tšelang (g)		2500 g
Kakaretso ea nkho + litsuonyana (g)		7300 g
Boima ba litsuonyana (g)	7300 g - 2500 g	
Boima bo mahareng ba khoho ka 'ngoe (g)	boima ba likhoho ÷ palo ea litsuonyana	



Qhoaello iv

Mohlala oa Lenaneo la Liente

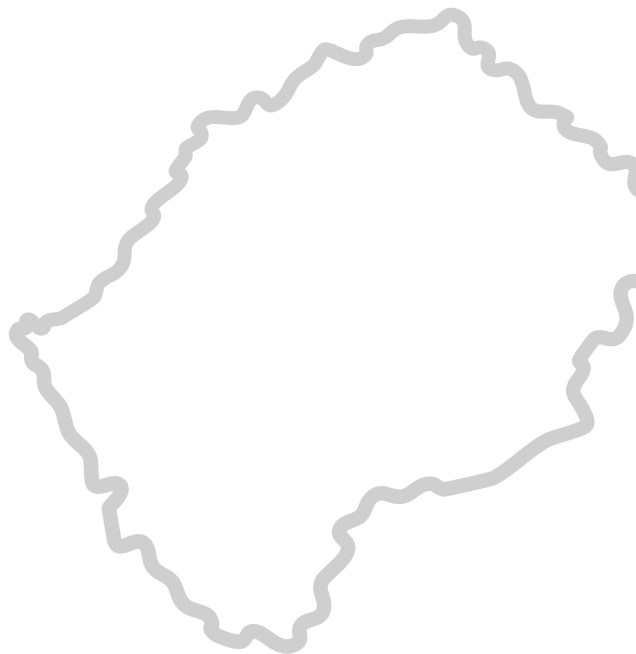
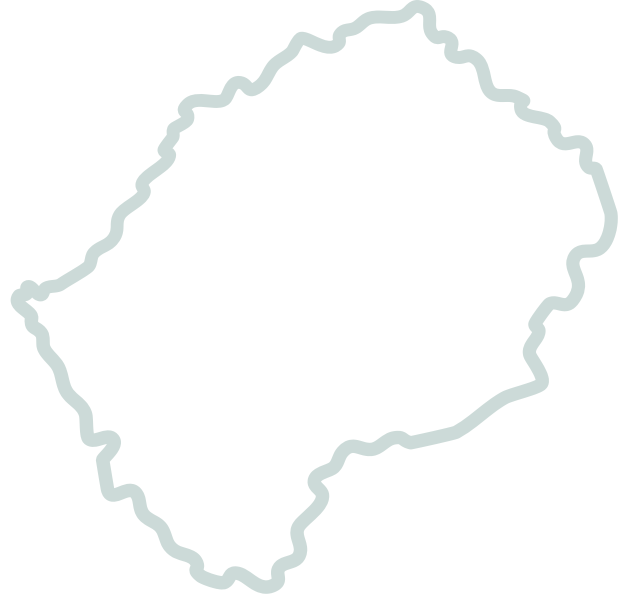
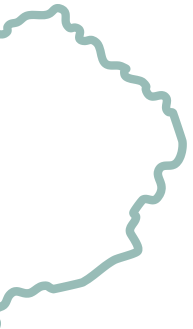
(kopana le ngaka ea liphoofole malebana le sebaka sa hau)

Age	Disease	Method
Letsatsi 0	Marek's NCD	Subcutaneous Injection Rothetsa Mahlo / Metsi
Letsatsi 10	NCD/IB	Metsi a Nooang
Letsatsi 17	Gumboro/IBD	Metsi a Nooang
Letsatsi 24	Gumboro/IBD NCD/IB	Metsi a Nooang Metsi a Nooang
Letsatsi 28	ILT Primer NCD	Subcutaneous Injection Rothetsa Mahlo
Beke 4	NCD	Metsi a Nooang
Beke 7	Coccidia* Worms	Metsi a Nooang Metsi a Nooang
Beke 8	NCD/IB ILT Strong Vaccine ND, IB, Gumboro/IBD** Fowl Box + AE	Metsi a Nooang Rothetsa Mahlo Ente Enta Lepheo
Beke 12	ND, IB MG** EDS + Coryza	Ente Ente
Beke 15	NCD/IB	Metsi a Nooang
Beke 16	Coccidia* Worms	Metsi a Nooang Metsi a Nooang
Beke 17	Respiratory, Intestinal, and Systemic Infections	Lijo
Beke 19	NCD/IB	Metsi a Nooang
Beke 21	Worms	Metsi a Nooang
Beke 23	NCD	Metsi a Nooang

E nkiloe ho tsoa ho Boschveld Ranching (Pvt) Limited

*Alafa hau bona mali holima mantle, seke oa emela beke ea ho fana ka ente

**ke ente e sa pheleng



Qhoaelo v

Mohlala oa tlaleho ea Phaello le Tahlehelo (Profit and Loss Statement)

Molemong oa ho thusana ho utloisisa lekeno le lebelletsoeng ka ho ba sehoai se holisang litsuoanyana, Mokhatlo oa Lefatše oa Likhoho (World Poultry Foundation) e entse mohlala o bonahalang oa Tlaleho ea Phaello le Tahlehelo (Profit and Loss statement).

Mohlala 1, khakanyo:

- Leruo la likhoho tse 500 ka nako (3000 ka selemo)
- Nako ea ho ruoa ea matsatsi a 30-35 kamora ho fumana litsuoanyana tse letsatsi le - litsuoanyana tse holisitsoeng.
- Sekhahla sa ho shoelloa sa 5% (leruo kang)
- U tla lokela ho entela Newcastle le Fwol Pox
- U hlahisa ha 6 ka Selemo
- Lichelete li beuoe ka USD (litjeo kaofela ke likhakanyo)

Ka likhoho tse 500 leruo kang, mohlala ona o tla etsa kakaretso ea chelete (phaello) ea \$148.50 US leruo ka 'ngoe, kapa \$891 ka selemo. Haeba leruo le sa etse phaello, hlahloba litlaleho ho fumana sesosa. Mohlala, ho shoelloa ho ne ho phahame? Litjeo tsa thekiso li ne ele tlase? U ile ua tlameha ho eketsa litšenyehelo joalo ka lijo tse ling? Sebelisa lintlha tseena ho intlafatsa leruong le latelang.

Khakanyo e bohlokoa ka ho fetisisa ke hore u ka khona ho rekisa likhoho kaofela ka matsatsi a 35. Bolelele bo likhoho li bo nkang le ka mora matsatsi a 35, ke ho eketseha hoa litšenyehelo tse kang lijo ka hona kuno ea hau e tlo ba tlase.

Lekeno le Litšenyehelo tsa Baholisi ba Litsuoanyana (li ipapisitse le manollo ea 1,079 ea Litlaleho tsa Khale tsa Baholisi ba Litsuoanyana)

	Item	Detail	Quantity	Cost/Price	Kakaretso	Ngola kakaretso ea hau mona
Chelete e kenang kahar'a khoebo	Likhoho	Thekiso ea likhoho tse phelang/ likahare/khoho e hlabiloeng ea ba ea hatsetsoa	485	45	21,825	
Chelete e kenang kahar'a khoebo	Thekiso ea lintho tse ling	Manyolo	-	-	-	
Kakaretso ea thekiso					21,825	

Tse fetohang	Mosuoela	Mosuoela oa patsi	60	35	2,100	
Tse fetohang	Tsuonyana e letsatsi le leng ea khoho ea nama		15	500	7,500	
Tse fetohang	Lijo	Lijo tsa starter (50kg)	390	10	3,900	
Tse fetohang		Lijo tsa grower (50 kg)	385	2	770	
Tse fetohang						
Tse fetohang	Ho futhumatsa	Litjeo tsa ho futhumatsa matsatsi a 14	1,176	1	1,176	
Tse fetohang	Metsi	E sebelisoang linthong tsohle	60	2	120	
Tse fetohang						
Tse fetohang	Meriana	Moriana o loans'ang likokoana-hloko oa Fosbac (pakete ea 25g)	60	2	120	
Tse fetohang		Motsoako oa li vitamin tse fapaneng (pakete ea 100g)	47	2	94	
Tse fetohang		Moriana oa cossioat (ESB3) oa 100g	50	2	100	
Tse fetohang	Ho tsamaisa lihlahisoa tse rekisoang ka koloi	Koloi ea van	150	2	300	
Tse fetohang	Lekhetho la thekiso	Haeba ho hlokahala				
Kakaretso ea litjeo tse fetohang					16,180	

Phaello (lihlahisoa tse rekisitsoeng - litjeo tse fetohang)	5,645
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Semi Tse fetohang	Ho khants'a	Motlakase oa li uniti tse 50 @ 105	105	4	420	
Semi Tse fetohang	Lisebelisoa tse hloekisang	Sesepa se hlatsoang sa 2kg	70	1	70	
Semi Tse fetohang		Sebolaea likokoana-hloko sa madubula sa 200ml	18	2	36	
Semi Tse fetohang	Sets'oasi sa litoeba	Superkill sa 100g	130	1	130	
Tse sa fetoheng	Liphahlo tse ts'irelletsang	Phahlo ea overall/lieta tsa likhohlopo	950	1	950	
Tse sa fetoheng	Basebetsi	Basebetsi ba hiriloeng nako eohle	500	1	500	
Tse sa fetoheng	Litokiso le lintlafatso	Mela le thepa le tse ling	500	1	500	
Kakaretso ea lits'enyehelo (litjeo tse sa fetoheng le litjeo tse kenyelletsang tse fetohang le tse sa fetoheng)					2,606	

Chelete e keneng khoebong pele ho tlosoa litsoala, lekhetho kapa ho fokotseha hoa boleng ba thepa (Phaello - Litjeo tse fetohang)	3,039
--	--------------

	Ho fokotseha hoa boleng ba thepa	Thepa le matlo				
	Ho fokotseha hoa boleng ba thepa	Birds				
	Tsoala	Tsoala, mohlala 15% ea chelete e kalinngoeng				
	Lekhetho le sa amaneng le thekiso					
Kakaretso						
Phaello					3,039	

Elelloa hore hona ke mohlala, lichelete li ka fetoha ho ipapisitsoe le maemo a fapaneng.

Boleng ba thekiso ka 'ngoe

A		Kakaretso ea thekiso	48,500
B		Bongata ba thekiso	485
C		Boleng ba thekiso	100
D		Litjeo tse fetohang	34,840
E		Litjeo tse sa fetoheng	4,766
F		Tsoala, lekhetho le ho fokotseha hoa boleng ba thepa	-
G	A-D	Phaello e akaretsang	48.015
H	G-E	Chelete ea khoebo pele ho tlosoa litsoala, lekhetho, ho fokotseha hoa boleng ba thepa le tefo ea sekoloto	43,249
I	H-F	Phaello e setseng ha ho nts'oa lits'enyehelo kaofela	43,249
Theko e lekanang le lits'enyehelo (Ha palo e sa fetohle)			
L	B/D	Litjeo tse fetohang	72
M	$((E+F)/B)+L$	Thekiso ea lihlahisoa e sa bakeng phaello kapa tahlehelo	82
Palo e hlokoang ea thekiso ea lihlahisoa hore ho lekanngoe le lits'enyehelo (ka theko e sa fetoheng)			
N	C-L	Pokello	28
O	$(E+F)/N$	Theko e sa bakeng phaello kapa ts'enyehelo	169

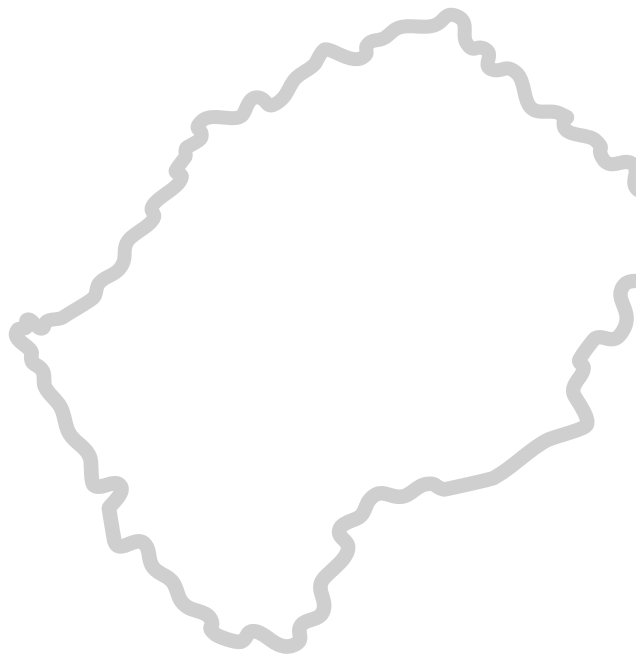
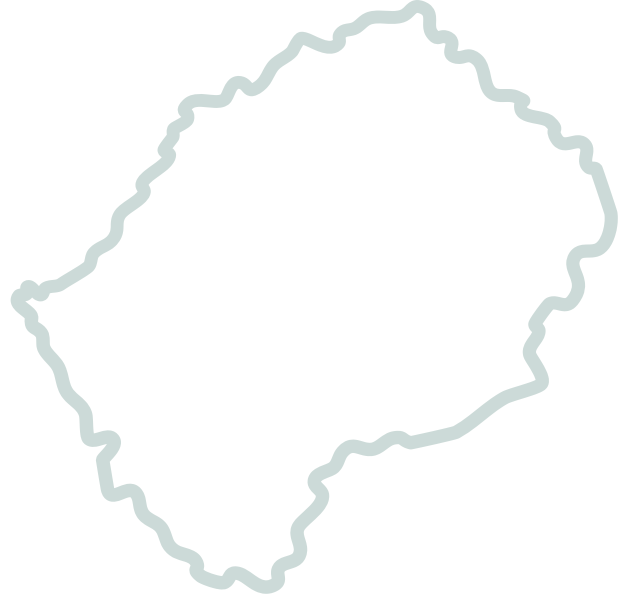
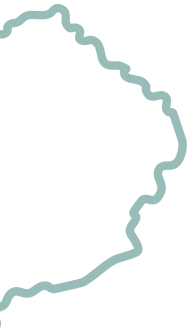
Chelete e setseng ha ho ntšoa lits'enyehelo tsa tlhahiso (Gross margin) Ke phapang pakeng tsa chelete e keneng khoepong le lits'enyehelo tsa tlhahiso kapa kakaretso ea litjeo. E bontša chelete e setseng khoepong kamor'a ho lefella lits'enyehelo tse e tobileng tsa tlhahiso.

EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization) Ke mokhoa oa ho etsa tlhahloho ea lichelete tsa khoebo o bontšang phaello ea khoebo pele ho tlosoa litsoala tsa lits'enyehelo, lekhetho, ho fokotseha hoa boleng ba thepa

Phaello (Net profit) (e boela e bitsoa phaello e ntšitseng tsohle) ke phaello e setseng kamora hore lits'enyehelo tsohle li tlosoe ho lekeno lohle. Tsona ke tse kenyelletsang lits'enyehelo tsa ts'ebetso, seabo, lekhetho, ho fokotseha hoa boleng ba thepa, le phokotso ea mokoloto

Tsoala (Interest) ke tefiso e lefuoang ke khoebo hobane e ile ea alima chelete. Tsoala ke lits'enyehelo tseo khoebo e li lefang holim'a mekoloto kapa likalimo tse ling tsa lichelete tse sebelisoang ke khoebo.

Ho fokotseha hoa boleng ba thepa (Depreciation) ke kabo ea lits'enyehelo tsa thepa e sa fetoheng nakong ea ts'ebeliso ea eona, thepa e na eona e kenyelletsa mechini, mehaho le makoloi. E bontša ho fokotseha hoa boleng ba thepa ka mabaka a ho sebelisoa, ho senyeha le ho felloa ke nako.

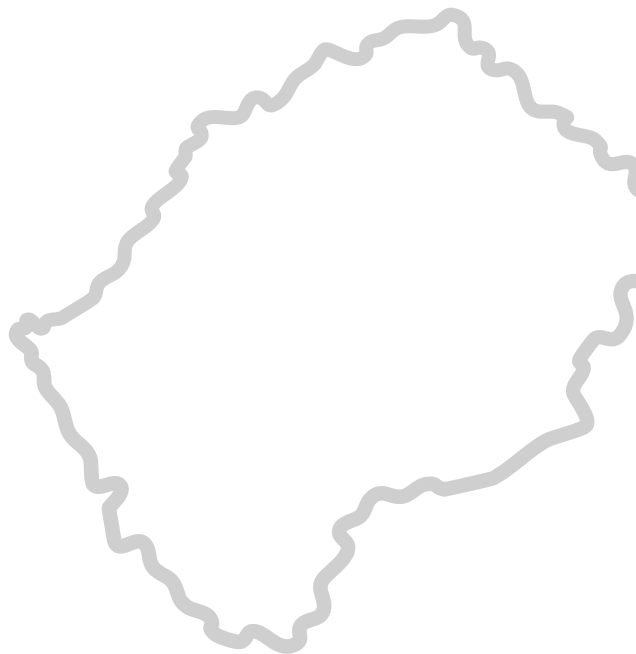
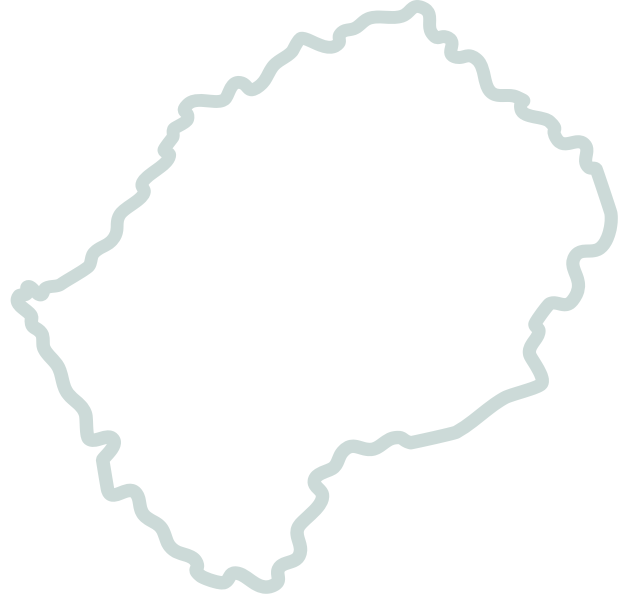
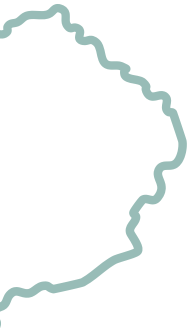


Qhoaelo vi

Rekoto ea Tlhaliso molemong oa BU: Mafu le Tse behelletsoeng ka theko

Beke	Letsatsi bekeng							Kakaretso ea lenane la likhoh
	1	2	3	4	5	6	7	
1								
2								
3								
4								
5								
6								
7								
Kakaretso ea lenane la likhoho								

Lintlha (ngola hoo e ka bang sesosa sa mafu/eng kapa eng e sa tloaelehang):



Qhoaelo vii

Rekoto ea tihahiso bakeng sa BU: Lijo

Palo ea mekotla e rekiloeng _____

Lijo tse setseng mokhahlelong o fetileng: _____

Kakaretso ea mekotla e teng bakeng sa mokhahlelo oa hona joale: _____

Palo ea likhoho tse teng mokhahlelong oa hona joale _____

Beke	Lijo tse jeloeng ke likhoho							Kakaretso
	1	2	3	4	5	6	7	
1								
2								
3								
4								
5								
6								
Kakaretso ea lenane la likhoho								

