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UAGASTI
2014

Ukuqala kahle ezigaxeni zokuqala!



Kubalulekile ukuba amasimu akho ozi-misele ukuwatshala ummbila kule sizini ezayo uwanikeze sonke isikhathi onaso kuselula. Yonke imihlabathi idinga ukuba ilungi-selelwé kahle kanti nokhula olusemasini nalo kumele lulawulwe.

Ukulungiselelwé komhlabathi

Lokhu kungadinga uhlöbo oluthize lokuthila. Kungahlukaniswa imikhakha embadlwana kuya ngendlela oyisebenzisayo uma ulima. Izindlela ezintathu ezivamile zokuthila yilezi:

Ukuthila okujwayelekile

Lena bekuyindlela evamile iminyaka eminingi. Amafama abesebenzisa ikhuba *lemouldboard* uma bethila okokuqala bese belandelisa ngezindlela ezimbalwa zokuthila, kubala kuko nokulima uma isilimo sesikhulile. Namhlanje amafama esiman-njemanje asewayekile amakhuba *emouldboard*. Ziningi izizathu zalokhu, kepha okuyisona esihamba phambili ukuthi le ndlela yokuthila ishiya izinsalela emhlabathini. Lokhu kunciphisa inani le-*organic matter* ebalulekile emhlabathini. Kutholwe ukuthi ngokunciphisa ukusetshenziswa kwekhuba *lemouldboard*, nokukhuphula izinga le-*organic matter* emhlabathini, umhlabathi ukhukhuleka kancane kanti nomhlabathi lona osuvunde nge-*organic matter* wona ukwazi ukubamba amanzi.

Ukuthila okuncishiwe

Lokhu kwensiwa imvama kusetshenziswa ikhuba lesixhoko kanti kuyindlela ejwayelekile yokuthila ngoba sekutholwe ukuba ishiya u-15% kuya ku-30% wezinsalela ezemboza umhlabathi.

Ukuthila okulondayo

Lokhu kubandakanya kuko ukuthila okuncane noma izindlela zokungathili nhlobo. Ekungathilini, akunazindlela eziwayelekile zokuthila kanti nembewu yesizini entsha ibekwa ngqo ngaphezu kwezinsalela zesilimo sesizini yangayizolo. Ezinye izindlela

*Incwadi yeGrain SA
yabalimi abasakhulayo*

Funda Ngaphakathi:

- 03** | **Ukuthenga ama-inputs kusenesikhathi ngale sizini lena yokutshala**
- 06** | **Ubuhle bokutshala izilimo ezenziwe ngcono ngokofuzo kumafama alima endaweni encane**
- 08** | **OMUSHA ONGUWENA – ukufinyelela emazingeni amasha!**





UGOGO JANE UTHI...

Amafama aba nje nesikhathi esincane sokuphumula. Enyageni edlule benimatasa nivuna isilimo esedlule, manje nakhu senilungiselela isilimo esilandelayo. Lona ngumjikelezo wempiolo okumele uqhubebe. Sibusiseke kanjani ukwazi ukuthi kulo nyaka lizonza futhi kanti thina sizokwazi ukutshala esinye isilimo!

Enye yezinto ezibaluleke kakhulu ngokulima okuqhubekayo ibandakanya ukusetshenziswa kohlelo oluhle lokujikelezisa kwezilimo okufaka kuko izindumba. Amafama amakhulu akwazi ukusebenzisa izilimo ezihlukene emjikelezweni wezilimo ngoba kunezimaketha cishe zanoma yini. Kepha amafama amancane kuhle ukuba abuye atshale izindumba ezifana nobhontshisi angazifa ka ohlelweni lokudla lwasekhaya. Inging lemndeni lidla ubhontshisi owomile kanti futhi wona ungamilia ngempumelelo enku lu ezingizimu Afrika. Izindumba ziwukhetho oluhle uma kuza ekujikelezisweni kwesilimo ngoba ana maqabunga abanzi kanti ummbila wona uwutshani okusho ukuthi ukhula okunzima ukululawula kuwona (njengotshani) kuba lula ukululawula obhontshisini. Izindumba zibuye zidale inayithrojini emhlabathini yona ezosetshenziswa yisilimo esilandelayo sommbila – ngale ndlela unganciphisa izidingo zikamanyolo okusho ukuthi unciphisa nezindleko zakho zokuhiqiza.

Uma ungenasiqiniseko ngokutshala ezinye isilimo (njengobhontshisi), zizame endaweni encane ukuze usazi isilimo futhi ufunde nokusilima ngokuqhubekayo nokufaka inzuzo.

Amafama aba sebungozini bokuba nemali eyanele nje idizili, imbewu kanye nomanyolo bese betshala isilimo ngaphandle kwamakhemikhali kanye nemali eyanele itop dressing. Kungcono kakhulu ukuba utshale indawo encanyana wazi ukuthi unemali eyanele ukuze uyenze ngendlela efanele kunokuba utshale indawo enku bese uthola isivuno esincane. Kuyadabukisa futhi ukubona ukuthi amafama angena esilingweni sokuba nomhlabo obukhulu bawo bungelingani amandla amatraki abanawo – lokhu nakho kuholela esilimeni esingesihle ngoba ugcine wenza konke usushiywe yisikhathi. Kungcono utshale indawo encanyana bese wenza konke kahle ukuze uthole isivuno esihle kona emhlabeni omncane sona esinikeza inzuzo enhle yona ezokupha ithuba lokukhulisa ibhizinisi lakho.

Sebenzisa lokhu onakho kahle ukuze ukhulise ipulazi lakho enzuwensi engenayo – lena yindlela egcinekayo.

Ukuqala kahle ezigaxeni zokuqala!

zokuthila okuncishisiwe zikhuluma ngokusetshe-nziswa okuncane kokuthila. Isibonelo ekuthileni komklayo, kuthilwa kuphela indawo encane engumklayo lapho isilimo sizotshalwa khona. Lezi zindlela zokulonda zingashiya okungenani u-30% wezinsalela ezimboze umhlabathi.

Ngaphambi kokuba uqalise ngokuthila okulondayo cabanga kuqala ngalokhu okulandelayo:

Kubalulekile ukuba amafama azwisisce ukuthi Izindlela ezishintshayo azenzeki nje masinyane, kepha kuthatha isikhathi. Enye yezinto ezibaleuke kakhulu okumele zicatshangwe ukuthi ngabe kube nokungwabelana kwepan emhlabeni emvakweminyaka yokusebenzisa indlela yokuthi-ula evamile uma kulinywa. Lokhu kungatholakala ngokuba kugujwe imigodi noma kusetschenziswe ipenetrometer. Uma kuhkona ileya elinjalo, kumele liqale liphulwe ngokukleklebula ekujuleni okufanele. Uma lokhu kungenziwa, ngeke wathola umvuso weqiniso wokulima okulondayo ngoba izimpande ngeke zafinyelela ekujuleni ngokulidelekile kanti nomhlabathi nawo ngeke wagcina inani lamanzu okumele liwugcine.

Amafama asezindaweni ezhilanganyelwe zomphakathi abhekana nenselelo yokuthi uma befudukela kule zindawo eziphuculiwe imfuyo yabo kumele ithole amadlelo. Le mfuyo yona idla i-organic matter ebalulekile emhlabathini. Le nkinga kuzomele ilawulwe kahle ngokuzayo ngoba impilo enhle yomhlabathi kanye nokugcinwa komswakama kuya ngokubaluleka kakhulu njengoba sifunda ukujwayela ushntsho esimweni sezulu kanye nesomiso kanye neamazinga anciphayo emvula lapha ezwenikazi lethu.

Ukukhathazeka ngomoya okuhlobene nokulungiselelwa komhlabathi

Ukuguguleka komhlabathi

Ababhalo bePula/lmvula sebebale ngokuphindelela ngale xhala elikhona ngendalo ikakhulu kazi ngoba iyinkinga enku lapha eNingizimu Afrika. Ayingcosana amafama abonayo ukuthi inkinga le inkulu ngoba kuwumhlabathi obalulekile ongaphezulu esiwudingayo ukukhulisa imikhqizo yethu lo oguguleka minyaka yonke. Ngempela, futhi yiwo wona amafama anesandala kule nhlekelele esibhekene nayo ngokuthila ngokungafanele kanye nezindlela ezingezinhle zokuphatha umhlabo! Ukuguguleka komhlabathi kwenzeka sidalo uma umoya noma amanzi esusa umhlabathi wangaphezulu uye ndaweni thize. Lokhu kuguguleka kungenzeka ngereyhi yamathani omhlabathi ihektha ngonyaka.

Ukuguguleka kwamanzi

Kwensiwa ukugijima noma amachaphazi emvula awela emhlabathini, ngakho-ke uma umhlabathi

ungavikelekile lokhu kuba kubi kakhulu kanti kubebukhona okumilayo emhlabathini bekungeke kwaba kubi ngaleyeyo ndlela.

Ukuguguleka komoya

Kuyinkinga ezindaweni ezinomoya – okuyiNingizimu Afrika cishe yonke. Noma kunjalo kubi kakhulu ezindaweni eziwuleleke kakhulu ezi-fundeni zaseFreystata kanye naseNyakathoneNtshona.

Umthelela wokuguguleka komhlabathi mubi kakhulu kepha mancane kabi amafama aye akhathazeke ngoba abakuboni kalula noma abakwazi ukukala ukunyamalala komhlabathi wangaphezulu. Kepha ngokuhamba kwesikhathi kuzoba nobufakazi obandile:

- Bamazinga ehlile okuthela;
- Bokuhula kwemikhwibi nezindonga khona phakathi noma eceleni namasimu;
- Bokungenelela okunciphayo kwamanzi emhlabathini;
- Bokwakheka kwezingqeque emhlabathini; kanye
- Nokubaleka okwandisele emvakwemvula.

Ukulonda yiyona ndlela enhle yokunciphisa ukuguguleka kanti njengendlela elula negabizi ingasiza kakhulu ukunciphisa ukuguguleka komhlabathi.

Ukulawulwa kakhula

Ngaphambi kokutshala, kumele kuphuthulwe ukushisa kusetschenziswa amakhemikhali ukuze kubulaweh ukhula embhedeni wembewu olungase lunqwabele isilimo bese luqophisana naso ngokuthola amanzi kanye namanyuthriyenti emhlabathini. Ukhula imvama lukhula masinya okusho ukuthi luqhawa isilimo esise-lula sesizini entsha uma lungalawulwa ngendlela. (kunemiphumela evela ocwaningweni olwenziwe nguJurie Mentz weGrain SA Kwa-Zulu-Natali ku-athikhili esekhasini 6 ebhalwe nguGavin Mathews kulePula/lmvula yamanje. Le athikhili inolwazi olunzulu ongaluthokozela.)

Khumbula njalo ukuthi uma ufuna ukugeda kahle ube ngumngobi ekugcineni, yenya njengoba umsubathi esebezenza kanzima ukulungi-selela umjaho nje omfushane ngokuba afake amahora ezelungiselela enkundleni nasejimini nangokubheka akudlayo; yilokho-ke nawe njengomfama okumele ukwenze ukulungiselela imihlabathi, ulwisane nokhula futhi unakekele ummbila wakho isizini yonke kuze kufike isikhathi sokuvuna. Kanjalo uzoba nesasasa eliphelele.

I-athikhili ibhalwe nguJenny Mathews,
umbali wePula/lmvula. Uma ufun
iminingwane egcwele thumela i-imeyili
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Ukuthenga ama-inputs kusenesikhathi ngale sizini lena yokutshala

Ukuvuna kwesilimo sakho sekupothuliwe kepha noma kunjalo usubhekene futhi nenselele yokuthatha izinqumo mayela-na nama-imput azosetshenziswa ngesizini ezayo. Amanye amafama wona azobe ethole isilimo esihle kakhulu sommbila, ubhekilanga, isoya, amabele kanye nezinye izilimo ezifana namakinati, ubhontshisi wasemhlabeni owomile kanye nokudla kwemfuyo okuyimfuqulu.

Isivuno esitholiwe sezilimo zomhlaba owomile zizoveza imvula enile kanye nokuchelewa kukamanyolo, imbewu, *amaherbicides*, *ama-insecticides* kanye namanye ama-input asetshenzisiwe. Amafama achelelayo wona azodinga ukuba abuye ahlakiye okumele kulungiswe nomakuphuculwe ebuholini noma enkambisweni yokukhiqiza.

Kuwukuhlakanipha ukubheka *i-input* yokukhiqiza ngayinye ukuze ukwazu ukuhlaziya ukuthi kudingeka okuningi noma okuncane noma-ke mhlawumbe kudingeka umkhiqizo owhelukile ukuze ukukhiqizwa kwesilimo esilandelayo singalungiswa futhi sandiswe.

Ukuhlela kumele kupothulwe ekupheleni kwenyanga ka-Agasti ukuze boke abadayisi bama-inputs bazocelwa ukuba banike amanani nezindleko zokucheleta.

Ukuhlela okunemininingwane epelele

Ukuhlela okunemininingwane egcwele kungaqlawa ngo-Agasti ngokuba kubhekwe kuqala izinhlobo zemihlabathi kanye namandla omhlabathi kanye nezindawo lapho kuzotshalwa khona ummbila noma ezinye izilimo. Uma kudingeka ukuba uthathe amasampula omhlabathi kumele ukwenze lokhu ngaphambi kwenyanga ka-Agasti ukuze uthole imiphumela yakho kusenesikhathi. Amalebhu okuhlola imihlabathi ayagcwala ngamasampula ngealesi sikhathi sonyaka. Lolu lwazi lungasetshenziselwa ukulungiselela *gross margin analysis* yesilimo ngasinye. Kungabekiswa inzuso ezokwenziwa kuseshenziswa isivuno esilindelekile kanti namanani *efuture Safex* angabekiswa ukuze kwa-zive ukuthi isilimo sizoba nenzozo enhle noma cha.

Izindleko ezhilukile ezifana nembewu, umanyolo, *amaherbicide* kanye nama-*insecticide* kumele zihlolwe ngokucophelela okuhulu kubhekwa ikakhulukazi inani elidingekayo lo mkhiqizo ngamunye. Izindleko zama-input adingekayo ihektha ngalinye zingsuka ku-R5 000 ziye ku-R7 000 ihektha ngalinye noma ngaphezulu.

Konke lokhu kuLangana kube yimali enku-lu etshaliwe ebalelwu ku-R500 000 kuya ku-R700 000 ihektha ngalinye elitshaliwe.

Imbewu

Abakhiqizi bommbila kuzomele babheke emphakathini wesitshalo uma kuqhathaniswa namandla omhlabathi, nokuthi ngabe kungatshalwa uhlobo lommbila we-GM noma lowo ojwayelekile noma cha. Lolu khetho luzokubeka kube sobala ukuthi hlobo luni lwekhemikhali elidingekayo ukulawula ukhula kanye nezinambuzane. Izindlela zokuthila eziwayelekile noma lezo ezilondayo nazo ziziboa nomthelela kulokho okuzodingeka. Ummiba we-GM ubiza u-R0,04 uhlamu ngalunye. Isivuno sezimila ezithile epulazini lakho singasetshenziswa ukukhetha izimila ezifanelele. Ukuthenga imbewu kubadayisi kusenesikhathi kuzoqinisekisa ukuthi unembewu yesimila esithandwayo kanye nobukhulu bembewu efanele *mapplanters* akho. Kubalulekile ukuhlelela ukuthenga izimila zommbila *onon-Bt* zona okuzodingeka ukuthi ngaphansi kwenkontileka zitshalwe njengezindawo zokuphephela phakathi noma zizungeze izindawo zommbila *we-Bt*. Lokhu kunciphisa izinga izinambuzane ezimelana ngayo nezinhlobo ze-Bt.

Umanyolo nelime

Amasampula omhlabathi angahlolwa ngumfama, ama-agronomi kanye nabadayisi bakamanyolo ukuze bakwazi ukusebenzisa ingxube efanele yenayithrijini, amafosfethi kanye nephotheziyamu. Izinkampani ezidayisa umanyolo sezivame ukwenza izingxube ezifanele umhlabala ngamunye kanye nembewu ngayinye. Kubalulekile-ke ukuthenga ingxube yomkhiqizo okuyiwona ukuba uthole e pulazini lakho ngaphambi kwesikhathi esifanele sokutshala. Ama-oda anqwabelene angakadilivu lapho elindeleke khona angabiza kakhulu uma ungakwazi ukutshala isilimo sakho ngesikhathi esifanele. Izingxube ezhilukile kanye nokuhlelela *top dressing* yengxube yenayiothrojinuma kukhiqizwa ummbila kumele nako kucatshangwe.

Uma ukhetha ukuchelela *ilime* kweminye imihlabala, lo msebenzi kuzomele uphothulwe ngo-Agasti noma ngoSepthemba kuthathelwa ekhanda izimo zomhlabathi zamanje.

Ukulawulwa kokhula kanye nezinambuzane

Ngokunjalo ukuhlelela kokulawulwa kokhula kanye nezinambuzane kumele kwenziwe kuseshenziswa izinhlobo zembewu kanye nezindlela zokucheleta. Kubalulekile ukuhamba emihlabeni yakho nomdayisi wamakhemikhali ukuze nibone izinkinga zokhula ngqo. Uhlelo lokucheleta olukhethayo kuzomele lucabangele imijikeleziso yesilimo sakho yangakusasa ukuze kugwenywe ukulimala okudalwa yizinsalela zamakhemikhali ngenkathi kujikeleziswa izilimo.

Abadayisi bama-input okukhiqiza

Lesi futhi yisikhathi esihle sokuhlolwa ubudlelwane bakho nabadayisi, ubheka ukusebenza kwemikhqizo kanye namazinga ezinkonzo owatholayo. Qinisekisa ukuthi uthole amakhowuthi amabili noma ngaphezulu kuyo yonke imikhqizo oyidingayo. Ingxube efanele yezinhlelo zokucheleta kwamakhemikhali ingashintsha njalo ngesizini entsha.

Isiphetho

Isikhathi sokuhlela sizokuvumela ukuma ubeke ngomumo izimali ezidingekeyo ukuze kukhiqizwe isilimo ngesizini entsha nokuthi ube nawo wonke ama-inputs owadingayo eduze ngaphambi kokuba uqale ukutshala. ⚡

I-athikhilli ibhalwe ngumfama osethathe umhlapaphansi.



Ukuhlolwa kanye nokulungiswa kwamatraka namaplanters ngaphambi kwesizini yokutshala

Kungani kumele amatraki kanye nama-implements kulungiswe futhi kuhlolwe ngaphambi kwesizini yokutshala noma yokulima na?

Uma kwenzeka itraki yakho iphuka ngalesi sikhathi, uzoba nalezi zinkinga ezimbili:

1. Ulahlekelwa yisikhathi esibalulekile.
 2. Ukuphuka okunje kuzokudla imali eningi.
- Uma ungahloli ukungasheshi kwekilashi, ikilishi ingaqala ukushelela. Itraki yona-ke kuzomele livulwe ukuze ilungiswe.

Lokhu kusho ukuthi itraki lakho lizobe lingasebenzi Izinsuku ezintathu noma ezine ngenkathi lilungiswa. Ngaleso sikhathi ngabe usutshale noma ulime okuningi kabi. Kuyabiza ukulungisa noma ukufaka iklashi elisha.

Uma ifan belt yetraki ingahlolwa, ingaphuka bese idala umonakalo omkhulu. Injini ingashisa kakhulu, kanti uma ungamisi masinya ngokwanele,

inganqamuka. Ukulungisa le njini enje kuyabiza, kanti nomshini wakho uzoma zinsuku ezimbalwa.

Isibonelo sokulungisa kanye nokuhlola

Uma ngabe itraki isifikele esikhathini lapho kumele ilungiswe, iyalungiswa kanti akumelwe ulinde kuze kube yisikhathi sokutshala, ngoba isikhathi ungalahlekelwa yisikhathi esibalulekile.

Amatraki kumele aseviswe kibili: isevisi okuvamile eyenziwa emvakwamahora ama-200 kuya ku-300, kanti lena enkulu yona kumele ye-nziwe njalo emvakwamahora angama-1 000.

Isevisi yamahora ama-200-kuya ku-300

Le sevisi ifaka kuyo ukushintshwa kuka-oyela wenjini. Uwoyela wegearbox, umehluko, ukushayela kokugcina kanye noshintsho lwangaphambili nakho kuyahlowa.

1. Faka uwoyela wenjini omusha kanye nama-filter.
2. Faka amadiesel filters amasha.
3. Geza ama-air filters. Uma unokungabaza, ashintshe.
4. Hlola amanzi ebhethri, geza amapali ngokucophelela uqinisekise nokuthi ibhethri liboshelwe laqina.
5. Irediyetha kumele ihlanzeke, okungenjalo itraki izoshisa ngokweqile.
6. Illeveli yamanzi kurediyetha kumele ibe se-budeni obufanele kanti futhi kumele kube nenani elifanele le-antifreeze.
7. Ifan belt kumele ibe sesimeni esihle.
8. Qinisekisa ukuthi ifan belt iqine ngo-kwanele, uma kungenjalo ingashelela bese injini ishisa ngokweqile.
9. Amapayipi onke enjoloba kumele abe sesimeni esihle futhi namakilampu nawo avikeleke.



Ukungasheshi kwekilashi.



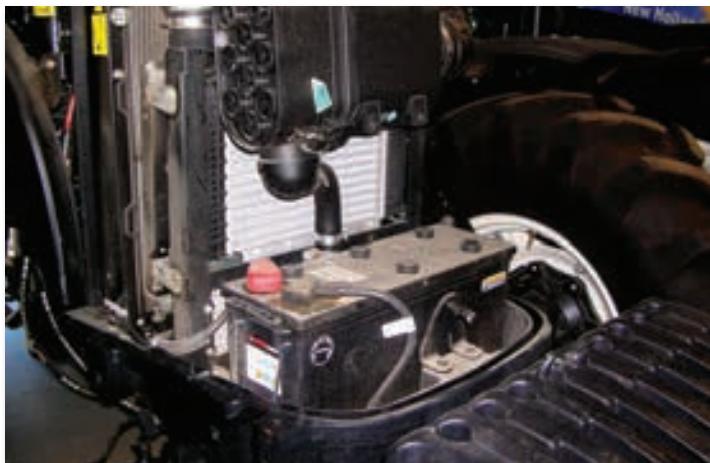
Umphephe wokuvikela esondweni lokugijimisa indophi elenzelwe ukuphakamisa okusindayo.



Irediyetha kumele ihlanzeke.



Kumele ufake idiesel filter entsha uma ulungisa inqola sakho.



Amapali ebhethri kumele ahlanzeke futhi aqine.



Amaphedali amabhriki kumele afanelaniswe bese eyaxhunywa.

10. Qinisekisa ukuthi konke ukulinganisela *kwamawheel bearing* kulungile futhi nama-*bearing* anamafutha anele.
 11. Uma ikilashi ingasheshi kakhulu, uma kunjalo kumele kulungiswe ubude bufike ezingeni elifanele.
 12. Linganisela amabhireki alingane ukuze akwazi ukubamba ngesikhathi esiso-dwa. Amaphedali kumele axhunyaniswe omabili.
 13. Qinisekisa ukuthi *i handbrake* isebeza ngokufanele.
 14. Amavili nawo kumele abe sesimeni esihle sokusebenza futhi nomoya emavilini angaphambili nawasemuva ube sezingeni elifanele.
 15. Qinisekisa ukuthi onke amanathi amavili afakiwe kuthi afaselwe aqina kahle.
 16. Qinisekisa ukuthi amalambu aphambili nasemuva asebenza kahle ukuze itraki ibonakale kahle.
 17. Faka amafutha kuzo zonke izingono zamafutha.
 18. Qinisekisa ukuthi onke *amadrawbar bolts* afaselwe aqina kahle.
 19. Gcwalisa itraki ngedizili ntambama, lokhu kuzovimbela ikhondenseshini etankini, ukuvimbela ukugcwala kwamanzi emgudwini kaphehloli.
 20. Bheka uqaphele ukuvuza kukawoyela, idizili noma amanzi bese uyalungisa lapho kunesidingo khona.
- Isevisi enkulu kumele yensiwe emahorenai-1 000 yensiwa umdayisi wetraki.**

Inkambiso yansukuzonke kanye neviki
Izinto ezithize etrakini yakho kumele zihlolwe nsukuzonke nanjalo ngeviki.

Nsukuzonke

1. Hlola ileveli kawoyela.
2. Hlola ileveli yamanzi kurediyetha.
3. Qinisekisa ukuthi irediyetha ihlanzekile

nokuthi akunakungcola okuvimba ukudoswa kwamanzi.

4. Hlola ukuvuza kukawoyela.
5. Hlola ukuvuza kwedizili.
6. Hlola isimo sefan *belt* nokuthi iqine kahle na.

Njalo evikini

1. Hlola konke okusohlwini Iwansukuzonke.
2. Hlola amatheminali ebhethri uqinisekise ukuthi ahlanzekile futhi aqinile.
3. Hlola ileveli yamanzi ngaphakathi kwebhetri.
4. Qinisekisa ukuthi *ama-air filters* asesimeni esihle futhi ahlanzekile.
5. Hlola amabhireki ubona ukuthi ngabe asebenza kahle yini.
6. Hlola *amabearing* amavili angaphambili bese uwalinganisela ngokufanele uma kunesidingo.
7. Hlola umoya kuwo wonke amavili.
8. Hlola ukungasheshi kwekilashi.
9. Faka amafutha lapho kudingeka khona.
10. Geza itraki.

Amasu okuvikeleka Kumshayeli wetraki

1. Umshayeli wetraki kumele abe nezimpepha zokushayela ezsenthethweni.
2. Akumele kulayishwe abagibeli, ngaphandle-ke uma itraki inendawo yokulayisha umgibeli.
3. Yonke imipheme yokuvikeleka kumele ibe sendaweni efanele etrakini naku-*implement*. Qinisekisa ukuthi izembozo zeshaffi le-*PTO* zisendaweni efanele.
4. Kumele kuthotshelwe yonke imithetho yomgwaqqo.
5. Umshayeli akumele ashayele itraki uma ethinte amponjwana noma edle izidakamizwa.
6. Hlala njalo uqaphile futhi unakekele. Khumbula futhi ukuthi: itraki alakhelwanga ukugijima, kepha lakhelwe amandla.

Ukuholwa nokulungiswa kwamaplanter/imishini yokulima

1. Qinisekisa ukuthi amabholthi *etow bar* axhunywe kufremu aqinile.
2. Uma kuyiplanter ehamba ngomoya, *ibl* lower kumele ihlolwe ngokuphelele.
3. Uma kuuhlobo *Iwegravity-box*, ibhokisi kumele lihlolwe ngokuphelele ukuqinisekisa ukuthi konke kusesimeni esihle sokusebenza.
4. Hlanza ibhokisi kahle ngaphambi nase-mvakulisebenzia.
5. Hlola wonke amapayipi embewu nakamanyolo ukuthi akunalapho kuvuza khona na, bese uqinisa lapho kunesidingo khona.
6. *Idistribution tower* kumele ihlolwe futhi ihlanzwe.
7. Lungisa loku okugugayo nokuphelayo *kumashare points* wonke uma kunesidingo.
8. Qinisekisa ukuthi *amapressure wheels* kanye namatines alandelana ngokufanele, kungenjalo kungavela izinkinga embhedeni wembewu.
9. Khumbula ukuphakamisa *iplanter* emhabathini uma uguqula, kungenjalo amatines azojijeka.
10. Wonke amaketango kumele ahlolwe bese kufakwa amasha uma kunokumosheka okukhulu.
11. Hlola *amawheel bearings* bese ufaka amasha uma unezinsolo.
12. Hlola futhi *amapressure-wheel bearings* uwafanelanise uma kunesidingo.
13. Faka amafutha kuzo zonke izingono zamafutha nsuku zonke, ngoba lezi zingxenyenisebenza endaweni enothuli oluningi. ●

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Ubuhle bokutshala izilimo ezenziwe ngcono ngokofuzo kumafama alima endaweni encane



Uhlolo IwaseDukuza – amafama asekhana asebenza nienqeco-operative.



Uhlobo JwaseDukuza – indawo engachelelwanga.



Uhlolo IwaseDukuza – imihlaba engathilwa ne-hlanzekile.



Uhlolo IwasEmangweni – uPatrick Nxumalo emisezeni somhlaba wakhe



Uhlolo IwaseMhlungweni – umonakalo odalwe visichotheo



Uhlolo IwaseMhlungweni – ukushoba kommbila ngaphambi kwasichotho esacekela phansi lesi silimo.

Ngokusungulwa kwamaqembu okufunda ezweni lonke, ahanjiswa wuHlelo IweGrain SA lokuThuthukiswa kwaMafama, sesibona inqubekelaphambili esheshayo ngezindilela kanye namasu assetshenziswa nga-mafama alima kancane.

Kuyathokozisa futhi kunika ugqozi ukubona amafama asafufusa esebebenzisa izindlela zesimanje zokulima. Kule-athikhili sizobheka imiphumela kanye nokutholakele ohlolweni olwenziwe kumafama alima kancane esifundeni sakwaZulu-Natali. Bekunezinhlelo eziyishumi zohlolo ebeziphethwe nguJurie Mentz wakwaGrain SA, zona ebezixgile ebuhleni bokusebenzisa ummbila oRound-up Ready kanye nezinkambiso zokuthila kancane nokulawulwa okuhle kokusetshenziswa kwa-makhemikhali.

Uhloolo IwakwaDukuza eduzane naseBerqville, KwaZulu-Natali

Lolu hlolo Iwenziwa kusetshenziswa izinkambiso zokungathili. Ngaphambili kokutshala, bekunotshani obuningi obaziwa ngekweek. Kulandelwa izinhlosozalolu hlolo kwatshala ummbila o*Roundup Ready* ereyithini yokuhlwanyelwa kwembewu ka-45 000 wezitshalo ihektha ngalinye. Ngenkathi kutsha-lwa kwahlwanyelwa u-1,7 wamalitha e*Roundup Powamax* ihektha ngalinye. Lokhu kwasebenza kahle ngokushisa ukhula okwaholela ekutheni ngesikhathi sokuvela kommbila wawumncane kakhulu umncintiswano phakathi kwezilimo nokhula. Ummbilawenza kahle kakhulu ngesigabasa sokuqala sokukhula. Sithe lapho isilimo sesifika emadolweni kwabuye kwachelelwa u-1,7 omunye wamalitha e*Roundup* ihektha ngalinye. Lokhu kwensiwa kanyeckanye ngesikhathi kuchelelwa i-200 kg *LAN wetop dressing* kamanyolo ihektha ngalinye.

Emvakwezinsuku ezingama-60 besekuphi-nde kwamila icrab grass kanye nolunye ukhula olwaziwa nge-'morning glory'. Ngakho-ke kuyekwamele ukuba kuchelelw omunye u-1,7 wama-litha we*Roundup* ihektha ngalinye kanye ne-*24D* eyaxutshwa khona lapho. Umphumela wohlolowawumuhle ikakhulukazi uma sibheka ukuthi lwaluluningi ukhula ngenkathi kutshalwa. Umasesibheka emuva kubonakele ukuthi ngabe kubengcono ukube bekuye kwachelelw nge*Roundup* amaviki amabili ngaphambi kokuba kutshalwe.

Okubalulekile:

- Uhlolo lolu lufakazele ukuthi akudingeki mishini emikhulu nebizayo ukuze kutshalwe imbewu ye-GM ezimeni zokungathili.
 - Kwatshalwa kusetshenziswa amageja. Le mishini

inesikhwama esilenga ehlombe sembewu. Nge-nkathi igeja lingenelela emhlabathini imbewu iwela emhlabathini onobunzulu obukaliwe.

- Kuchelelwengesandla kusetshenziswa izifafazi ezinesikhwama esithwalwa ehlombe.
 - Akungenanga traki emhlabenikulinywa ku-wona, kanti noma kunjalo kutholwe isilimo esihle ngoba kusetshenziswe imikhiziso yesimanje-manie.

Uhlolo IwasEmangweni eduzane ne-Est-court, KwaZulu-Natali

Lolu hlolo lwensiwe esizindeni sikaPatrick Nxumalo osebe yilunga leqembu lokufunda lasErmangweni Grain SA iminyaka emihlanu manje, kanti futhi usethuthukise nendlela alima ngayo eminyakeni edule.

Isiza lesi silungiselelw futhi sathilwa kuse-tshenziswa idiski kuphela. Kube sekuhlwanyelwa-ke kusetshenziswa amakhuba kanye nembewu yommbila eRoundup ngereyithi yezitshalo ezinga-ma-45 000 ihektha ngalinye. Ngoba umhlaba uye wadiskwa akubanga nasidingo sokuba kuchelelw ikehnikhali elishisayo. Kuthe ukuba kumile ukhula kwase kuchelelw u-1,7 wamalitha eRoundup Powamax kanye neKarare pesticide. Ezinsukwini ezingama-40 ezilandelayo, kuchelelw futhi omu-nye u-1,7 wamalitha eRoundup kanye nephesenti elincane nje le-24D engezelelw engxubeni. Ukhula bolungenamandla kakhulu kepha bolubonakala esizeni. Okulandelayo, u-200 kg weLAN uye wachelelw njengetop dressing ngenkathi ummbila ungubude obungama-30 cm. Konke ukufafaza kwensiwe ngesandla kulesiza lesi kusetshenziswa isifafazi esinesikhwama esiqaxwa ehломбе.

Izithasiselelo:

- UMnu. Nxumalo uthole isilimo esihle ohlolweni.
 - Amakhemkhali *eRoundup* kanye nembewu *yeRoundup* kusebenze kahle kakhuлу.
 - Amalunga egembu lokufunda lasEmangweni nawo asemi ngomumo, azimisele ukuqala asebenzise imikhiqizo lena emihlabeni yabi ngale sizini ezayo.

Uhlolo IwaseMhlungweni eduze nase- White Mountain, KwaZulu-Natali

Lolu hlolo Iwatshalwa kwesinye seziza ezinkulu eziphethwe nguMnu. Mtshali weqembu lokufunda laseNtabamhlope. Lutshalwe kusetshenziswa ummbila o*Roundup Ready* ngetraki encane kanye nelift ejwayelekile *yetthree point planter*. Ukulungiselelwa komhlaba kwensiwe ngetraki kanye nediski kepha kucheelwe ngesandla.

Ngenkathi kutshalwa kuye kwachelelwa
u-1.7 wamalitha eRoundup Powamax ihektha

ngalinye kanye no-100 ml weKarare ihektha ngalinye. Isilimo siye sakhula kahle kakhulu kanti nokhula nalo bolucindezelwa ngendlela enelisayo. Emvakwezinsuku ezingama-35 kube khona ukhula olumilayo, ikakhulukazi iwater grass kanye necrab grass. Ngalesi sizathu-ke, kuye kwaphinde kwachelelwa omunye u-1,7 wamalitha engxube yeRoundup kanye neCervion ihektha ngalinye.

Okuphawuliwe:

Amakhemikhali asebenze kahle kakhulu kanti nesilimo naso besibukeka sithembisa kwaze kwavela isichotho sona ngeshwa esadala umonakalo omkhulu ngesigaba sokugwala kohlamvu. Okubike ukuthi isilimo esasithembisa sashabalala kanti akunahlolo olutheni olungenziwa manje.

Isithasiselo sakho konke

- Kulo lonke uhlolo bekunezinkomba ezinika ithembu futhi nezigqugquzelayo kulezi zinkambiso.
- Iningi lalezi ziza eziyishumi zohlolo zibe nomphumela omuhle ngonyaka wokuqala.
- Umphumela obuthembisa kunayo yonke kube yindlela amalunga eqembu lokufunda athakasele ngayo le ndlela yokusebenza kanye namandla amapulazi amancane uma kusetshenziswa imikhiqizo yesimanje efana neRoundup.

Uma usebenzisa amakhemikhali eRoundup kubalulekile ukukhumbula:

- Chelela kuphela amakhemikhali eRoundup kumbewu yeRoundup esemthethweni.
- Isikhathi nje kuphela lapho kuvikelekile ukusebenzisa amakhemikhali eRoundup ngaphandle kokutshala imbewu yeRoundup yima isetshenziswa njengekhambi elisha ukhula emavikini ambalwa ngaphambi kokuba kutshalwe imbewu.
- Isikhathi esihle sokucheleta iRoundup yima ukhula lusesigaben Sokuhula futhi luyi-10 cm ubude.
- Isebenza kahle kakhulu futhi uma ukhula kuseluhaza futhi lungenangcindezi.
- Iroundup yikhemikhali elingakhethi ngakho-ke lizosebenza eningini, uma kungesilo lonke ukhula emhlaben olinywayo.
- Kubalulekile kakhulu ukuba kusetshenziswse amanzi ahlanzekile kanye nebuffer additive ngenkathi kuxutshwa amakhemikhali ngoba ingapelelwa ngamandla uma amazinga epH engalunganga ngenxa yamanzi angcolile.
- Khumbula:
 - Phatha amakhemikhali ngokucophelela;
 - Abeke lapho angeke atholwa khona yizengane; futhi
 - Geza izandla zakho emvakokuwasebenzisa.

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IGrain SA i-inthavyuwa... uDaliwonga Nombewu



Yazana noDaliwonga Nombewu, umfama osemncane ozimisele nokhuthele wa-seTsolo Mpumalanga neKapa. UDaliwonga uzimisele ukuba ngumfama wenzuzo eminyakeni emihlanu ezayo kanti ufuna nokudala amathuba omsebenzi kulabo abangasebenzi ngenhoso yokuphucula umnotho wezwe lethu.

Ngabe ulima kuphi futhi mangaki amahektha ovalimayo na? Ulima ngani na?

Ngilima eGungululu endaweni yaseTsolo (ngaphansi kukaMasipala wasekhaya wase-Mhlontlo, esifundeni saseMpumalanga neKapa). Kule sizini ngitshale amahektha ayi-8 ommbila kanti kule sizini ezayo ngizokhiqiza amahektha ayi-58 ommbila. Lokhu konke ngosizo lwenduna yasendaweni kanye nomphakathi bona abangabele amahektha angama-50 omhlaba obunga-setshenziswa eminyakeni engama-25 edlule.

Ngabe yini ekugqugquzelayo/ekunika ugqozi?

Umama wami nguyenya ongiggugquzelayo. Uphila ngokukhiqiza imifino kanye nommbila kumahektha ama-2,5 omhlaba. Ngikhule ngimelekelela ngokutshala kanye nokunisela (ngesandla) nsuku zonke uma ngibuya esikoleni.

Chaza amandla kanye nobuthakathaka bakh

Amandla ami: Ukuzinikela kanye nokuzimisela ebhizinisini lokulima kanti nokukhiqizela inzuzzo yikona okungamandla ami. Ngiba namagoli engiwabekela isikhathi.

Ubuthakathaka bami: Ubuthakathaka bami obukhulu ukungabi namali kanye namakhono okuhambisa ibhizinisi.

Besingakanani isivuno sesilimo sakho ngenkathi uqala ukulima? Singakanani isivuno sakho manje?

Ngenkathi ngiqala ukulima ngangikhqiqa amathani ama-3 ihektha ngalinye kanti

manje sengikhqiqa 5 amathani ihektha ngalinye.

Ucabanga ukuthi ngabe yini ebe nomthelela omkhulu enqubekeleni-phambili kanye nesasasa lakho?

Ukuthenga imishini kanye nama-implements wonke adingekayo ukukhiqiza kanye nokuba ngibizwe ngezinkontilleka yikona okungiphe ulwazi olunzulu. Izeluleko engizithole kwa-Grain SA kanye nezingqequeso nazo zibe nomthelela omkhulu empumelelweni yami.

Ngabe uthole ngqequeso yini kuze kuge yinamhlanje. Ungathanda ukuqhubeke uqequeselwe ini?

Ngiqede i-Introduction to Maize Production Course, i-Tractor Maintenance Course kanye ne-Contractors Course. Ngingathanda ukwenza i-Farm Management and Bookkeeping Course.

Ngabe uzipona ukuphi eminyakeni emihlanu ezayo? Ungathanda ukuzuza ntoni na?

Eminyakeni emihlanu ezayo ngingathanda ukuzibona ngingumfama wenzuzo okhiqiza ngaphezu kwamathani ama-5 ommbila.

Seluleko sini ongasinika amafama amancane asafufusa?

Njengoba ngimncane nginje, ngiyafisa ukuthi abanye ontanga nabo bangalandela ezinyathelweni zami ngoba bazimele bese futhi bedala amathuba emisebenzi ngenhoso yokuqasha laba abangasebenzi ukuze sikwazi ukuphucula umnotho wezwakazi lethu.

I-athikhili ibhalwe nguLawrence Luthango, Umqondisi wezeNthuthuko oHlelweni IwakwaGrain SA lokuThuthukiswa kwaMafama. Uma ufuna imininingwane egcwele thumela i-imeyili ku-lawrence@grainsa.co.za.

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IsiZulu,
IsiBhunu, isiNgisi, IsiTswna, IsiSuthu,
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EZOKUPHATHWA KANYE NOKUQASHWA KWABASEBENZI

OMUSHA ONGUWENA - ukufinyelela emazingeni amasha!

Ngabe uziwa unengcindezi? Ubindekile? Ukhathazekile? Uyayileyileka? Awuna-mdlandla? Sonke isnokuzizelwa singale ndlela ngezinye izikhathi. Ucwaningo lukhombise ukuthi abasebenzi abakhathazekile badla inkampani u-20% - 25% wenzuso yonyaka ngomkhi-qizo olahlekayo.

Sisho ukuthini na uma sikhulumu ngokuphatheka kahle ngokwemizwa futhi kungani kumele kube yinto ebalulekile kuwena na?

Iningilabantu licabanga ukuthi "Yindlela engidalwe ngayo le" noma "Mhlawumbe kuzomele ngiphile nayo ngoba akukho okunye okudlula loku". Abanye abantu bacabanga ukuthi ukuphila kahle ngokwemizwa akusyo into engenzeka nakancane nje, abaningi bayayifisa kepha bambalwa kakhulu abayitholayo!

Ukuphila kahle ngokwemizwa noma ukuphatheka kakhe kusho ukuba nokuthula okuphele-lisiwe ngalokhu oyiko, lokhu okwenzayo, nalapho uya khona, wena qobo lwakho kanye nasebulde-lwaneni bakho nalabo ophilisana nabo – nase-msebenzini imbal!

Kuwukuzizwela unokuthula ngalapho uqhamuka khona, lapho ukhona manje nalapho uya khona ngempilo yakho.

Impilo akumelanga ibe umunyu wemizwa. Kunalokho abantu abaningi abakucabangayo, ukuphila kahle ngokwemizwa kuyakhonakala njengoba kwenzeka ngokomzimba. Ngokomoaya, okwemzwu kanye nangokwengondo, umuntu kumele "ondliwe" futhi anakekelwe kahle.

Ukungaphili kahle ngokwemizwa (ungazizweli ukujabula) kuholela kulokhu okulandelayo:

- Ukulova emsebenzini;
- Ukwenza umsebenzi ongagculisi;
- Ukuphelelwu usinga;
- Ukungabi nagqozu kanye namandla;
- Ukukhathala nokungakhathali;
- Imiphumela embi ekuxhumaneni kanye nobudlelwano emsebenzini;
- Ukuantshtsha kanye nokukhwabanisa;
- Ukuhluthuka kwemzwu kanye nokungaziphathi ngendlela eyamukelekile; futhi
- Nokuxoshwa okungapheli kwabasebenzi

bese kuqashwa abanye esikhundleni salabo abaxoshiwe.

Kuma-athikhili alandelayo sizothatha uhambo nawe lapho uzofinyelela emazingeni amasha empilweni enhle yemizwa yakho. Thina sizoba yithikithi lakho lempilo enhle ngokwemizwa.

Uhambo lwethu ekufinyeleleni kuwena omusha ngokwemphilo enhle yemizwa lusoqala ngokubheka indlela obhekana ngayo nezingxabano empilweni yakho kanye nomthelela eba nawo empilweni yakho – ekhaya kanye nasemsebenzini. Ukuxhumana kuqala futhi kugcina ngawe.

Okwesibili sizobhekana nokusetshenziswa kwezidakamizwa nezizathu ezenza siziwele singcono uma siqeda ukuphuza ugologo noma ngabe ekuseni uma sivuka izinkinga zethu zisenkulu njengakuqala. Sizokupha amasu amasha ongawasebenzisa ukuze uziwele ungcono uma kuba sekwenyukela.

Okwesithathu sizobhekwa ubudlelwane obuhle phakathi emindenini nokuthi isimo sakho sengqondo sinomthelela emndenini wakho, kanjalo nomndeni nawo unomthelela esimeni sakho sengqondo.

Okwesine sizobhekwa indlela ophatha ngayo amazinga okucindezeleka empilweni yakho...yebo ingcindezi ingalawuleka!

Okokugcina, ukuqinisekisa impilo enhle ngokwemizwa kusho ukuthi kumele ucabange ngezezimali empilweni yakho. Kaningi uma uziwele ungenamsebenzi lokho kubonakala ngisho nasendleleni ophatha ngayo izimali zakho.

**Hlanganyela kanye nathi kulolu hambo
lokufinyelela amazinga amasha...ungaphila
kahle ngokwemizwa – masikwenze kwenzeke!**

IPROCARE yinhlangano yochwepheshe be-psycho-social lapho bezisebenza khona. Ithimba lePROCARE linika indlela epheleliwi ekubhekaneni nezinkinga ezipsycho-social. IPROCARE inezinkonzo ezinngi ezinhlikile zokukhansela, ukuqequesha kanye nezinhlelo zamakhono empilo.

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