



KOSTEGIDS | COST GUIDE



2015/16



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'n Spesiale woord van dank aan ons borge wat die druk van hierdie Kostegids, asook die gratis verspreiding daarvan aan alle VinPro-lede en rolspelers in die wynbedryf moontlik maak.

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Inhoud / Contents

| | |
|--|-----------|
| Voorwoord / Foreword | 5 |
| Doele / Purpose | 5 |
| | |
| Koste van wyndruifproduksie (2014-oes) / Cost of wine grape production (2014 harvest) | 6 |
| Inleiding en agtergrond / Introduction and background | 6 |
| Die koste van wyndruifproduksie / The cost of wine grape production | 7 |
| Kontantuitgawes / Cash expenditure | 8 |
| Voorsiening vir vervanging / Provision for renewal | 10 |
| Gelykbrek / Break-even | 12 |
| | |
| Kostestruktuur van top presteerders / Cost structure of top achievers | 16 |
| Wat doen top presteerders anders? / What sets top performers apart? | 18 |
| | |
| Teikeninkomste (2014-oes) / Target income (2014 harvest) | 20 |
| | |
| Arbeidsriglyne / Labour guidelines | 22 |
| Arbeidsnorme / Labour norms | 22 |
| Minimum loon / Minimum wage | 23 |
| | |
| Vestigingskoste / Establishment cost | 23 |
| Grondvoorbereiding / Soil preparation | 23 |
| Koste van prielstelsels / Cost of trellis systems | 26 |
| Besproeiing / Irrigation | 34 |
| Ander nuttige inligting / Other useful information | 35 |
| | |
| Koste van meganisasie / Cost of mechanisation | 35 |
| Metodiek / Methodology | 36 |
| Trekkers / Tractors | 37 |
| Parsmasjiene / Harvesters | 39 |
| Spuitpompe / Spraypumps | 39 |
| Sleepwaens / Trailers | 40 |
| Ander implemente / Other implements | 40 |
| Bakkies / Pick-ups | 41 |
| Vragmotors / Trucks | 42 |
| | |
| VinPro kontakbesonderhede / VinPro contact details | Agterblad |

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BOER VOORUIT

By Boshoff Visser verstaan ons die unieke uitdagings wat boere elke dag moet trotseer.

Daarom is dit vir ons 'n prioriteit om seker te maak dat jy vooruit boer. Klop vandag nog aan by een van ons kantore en vind uit hoe ons professionele, bekostigbare diens jou boerdery meer vooruitstrewend kan maak.

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Geoktoroereerde Rekenmeesters en Finansiële Dienste

LIMBIK

Voorwoord / Foreword

In die strewe na 'n volhoubare en deelnemende wynprodusentegemeenskap bly die VinPro Landbou-ekonomiese Diens verbind tot effektiewe en waardetoegvoegde ekonomiese dienslewering aan VinPro se lede en ander rolspelers in die bedryf.

Die Suid-Afrikaanse wyndruifprodusent is die afgelope paar jaar blootgestel aan stygende insetkoste en dalende winsmarges, wat daar toe lei dat die produsent se winsgewendheid onder geweldige druk verkeer. Met hierdie in ag geneem, openbaar die VinPro Landbou-ekonomiese Dienste jaarliks kritiese finansiële aanwysers wat regdeur die wynbedryf erken en gebruik word as 'n betroubare maatstaf. 'n Uitvleisel daarvan is die samestelling van hierdie meer gedetailleerde Kostegids – wat jaarliks in Mei opgedateer en beskikbaar gestel word – ter verdere ondersteuning van die produsent.

VinPro Landbou-ekonomiese Dienste

- Lewensvatbaarheidstudies, koste- en winsgewendheidsanalises, asook skadebepalings.
- Koördinering van finansiële studiegroepe/Produksieplan – finansiële geheelplaas- en bedryfstak-analises op plaasvlak.
- Ekonomiese en bedryfsverwante artikels en aanbiedings.
- Versameling en verspreiding van verteenwoordigende landbou-ekonomiese bedryfsinligting.

In the quest towards a sustainable and participating wine producer community, VinPro Agricultural Economic Services are committed to providing effective and value-added economic services to all members of VinPro, as well as other role players in the industry.

The South African wine producer's profitability has been under enormous pressure over the past few years due to rising input costs, as well as low and decreasing profit margins. With this in mind, VinPro Agricultural Economic Services annually reveal financial indicators that are accepted and used throughout the wine industry as a trusted benchmark. As an extension of its support to producers, VinPro compiled this more detailed Cost Guide, which is updated annually and available in May.

VinPro Agricultural Economic Services

- Feasibility studies, cost- and profitability analyses, as well as damage assessments.
- Coordinating financial study groups/Production Plan – financial analyses of total farm or operational enterprise.
- Economic and industry-related articles and presentations.
- Collecting and distributing relevant financial industry information.

Doel / Purpose

Die hoofdoel van hierdie Kostegids is om sekere noodsaklike ekonomiese aspekte in 'n eenvoudige formaat te verpak wat as hulpmiddel kan dien vir die opstel van begrotings deur wyndruifprodusente. Weens dramatiese pryskomelinge is dit baie moeilik om sinvol en akkuraat te begroot en kan hierdie gids as riglyn daarvoor aangewend word.

The main purpose of this guide is to provide wine grape producers with specific financial indicators to assist them in compiling a budget. Due to the fact that prices vary dramatically, it is difficult to compile a budget that is both meaningful and accurate. This guide is a useful aid in compiling a more accurate budget.

Koste van wyndruifproduksie (2014-oes) / Cost of wine grape production (2014 harvest)

Die 2014 rekord-oes en die impak op primêre wyndruifprodusente se finansiële volhoubaarheid

Inleiding / Introduction

VinPro Landbou-ekonomiese Dienste het met die ondersteuning van Winetech, die Nasionale Landboubemarkingsraad (NLBR), Standard Bank, Absa, Land Bank, ENB, Nedbank en Capital Harvest, in 2014 geheelplaas ontledings in al nege wyndistrikte uitgevoer. Die primêre doel bly steeds om die produksiestructuur, kostestruktuur en winsgewendheid per distrik te bepaal, om sodoende die finansiële welstand van die produsente te bepaal.

Altesaam 236 boerdery-eenhede uit nege wyndistrikte het aan die 2014 Produksieplan Opname deelgeneem. Die steekproef het in 2014 uit 22 117 ha (22% van die totale Suid-Afrikaanse wingerdstand in 2013) bestaan, wat 352 209 ton lewer (24% van die totale Suid-Afrikaanse oes in 2014). Hiervan was 63% wit en 37% rooi wyndruwe, en 59% van die tonne is mekanies gepars.

Die ontleding hanteer die wingerdvertakking in geheel (draende en nie-draende hektare) en daar word nie onderskeid tussen kultivars en sekere blokke tydens die koste-ontleding gemaak nie, die groter meerderheid van die deelnemers is gediversifieerd en verskil ten opsigte van plaasgrootte. Die verslag verteenwoordig bedryfsgemiddelde syfers, wat bereken word deur die geweegde gemiddelde van al die deelnemers te bepaal. Die Malmesbury-distrik word deurgaans apart geëvalueer en vorm nie deel van die bedryfsgemiddelde syfers nie, aangesien dié studiegroep 'n groot komponent droëlandwingerd verbou, wat 'n alternatiewe produksie-, koste- en kapitaalstruktuur benodig.

VinPro Agricultural Economic Services conducted comprehensive analyses in all nine wine districts with the support of Winetech, the National Agricultural Marketing Council (NAMC), Standard Bank, Absa, Land Bank, FNB, Nedbank and Capital Harvest. The primary objective remains to determine the production structure, cost structure and profitability per district, so as to determine the financial wellbeing of the producers.

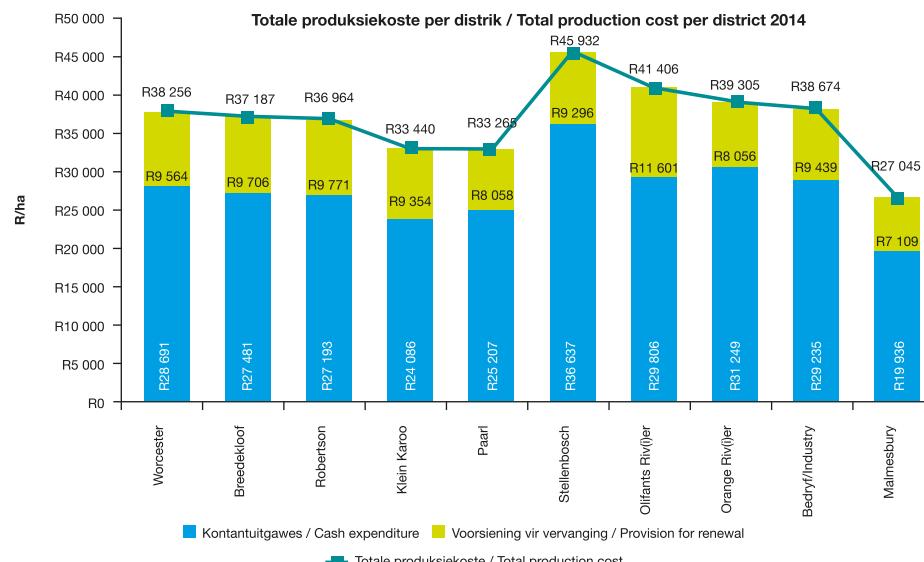
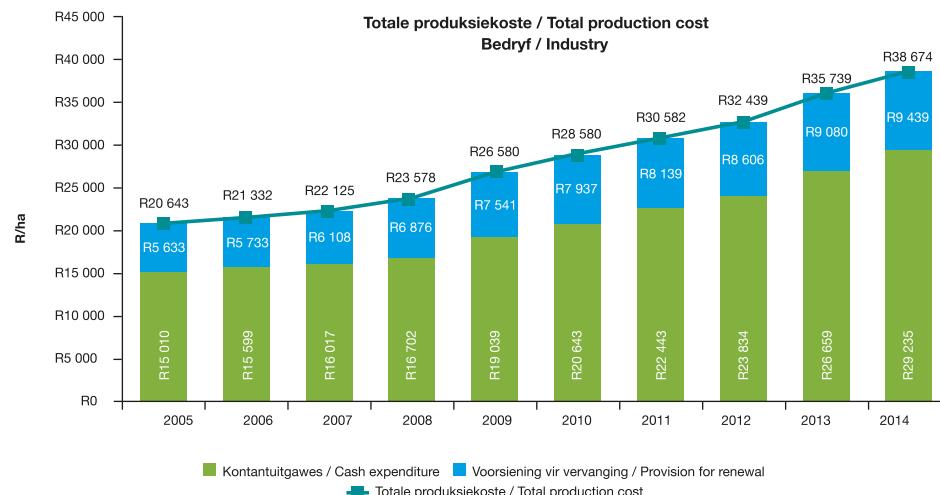
Altogether 236 farming units from nine wine districts participated in the 2014 Production Plan Survey. In 2014 the sample consisted of 22 117 ha (22% of the total South African surface planted to grapevines in 2013), which produced 352 209 tons (24% of the total South African crop in 2014). This consisted of 63% white and 37% red wine grapes, and 59% of the tons were mechanically harvested.

The analysis applies to overall grapevine production (bearing as well as non-bearing hectares) and the cost analysis makes no distinction between cultivars and specific blocks. The greater majority of participants are diversified and differ with regard to farm size. The report represents industry average figures, calculated by determining the weighted average of all participants. The Malmesbury district is always evaluated separately and does not form part of industry average figures, in view of the fact that this study group cultivates a large component of dryland vineyards, which require an alternative production, cost and capital structure.

Die koste van wyndruifproduksie / The cost of wine grape production

Die jaarlikse koste wat aangegaan is om die 2014-oes voor te berei, het uit kontantuitgawes en voorsiening vir vervanging bestaan, alle belasting, rente en ondernemersloon verpligte uitgesluit. Die bedryfsgemiddelde totale produksiekoste (Malmesbury uitgesluit) het sedert 2013 met 8% na R38 674/ha in 2014 toegeneem.

The annual cost incurred to prepare the 2014 crop comprised cash expenditure and provision for replacement, excluding all tax, interest and entrepreneurial remuneration. Compared to 2013 the industry average total production cost (excluding Malmesbury) increased by 8% to R38 674/ha in 2014.



Kontantuitgawes

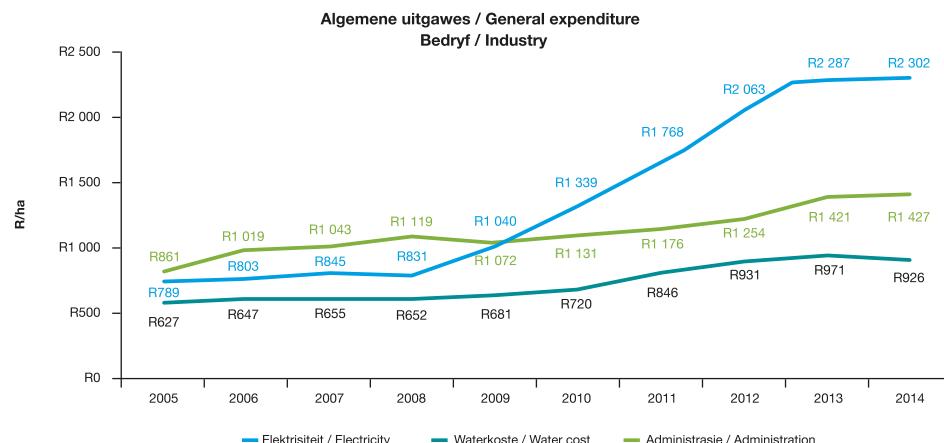
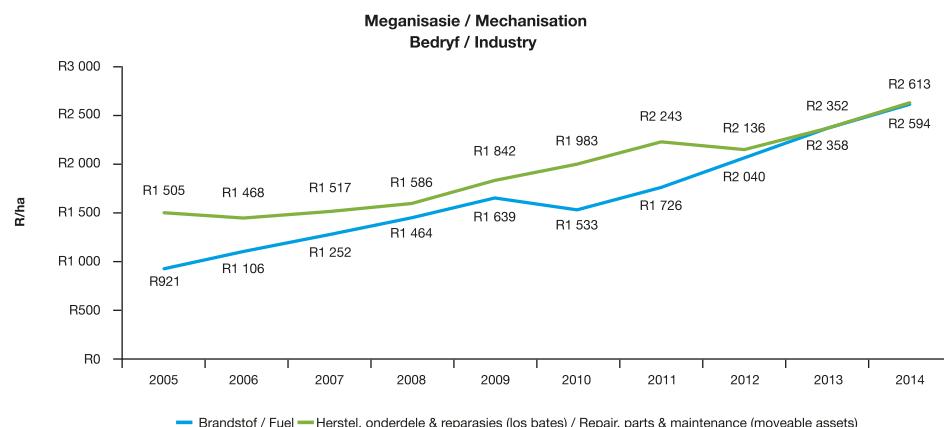
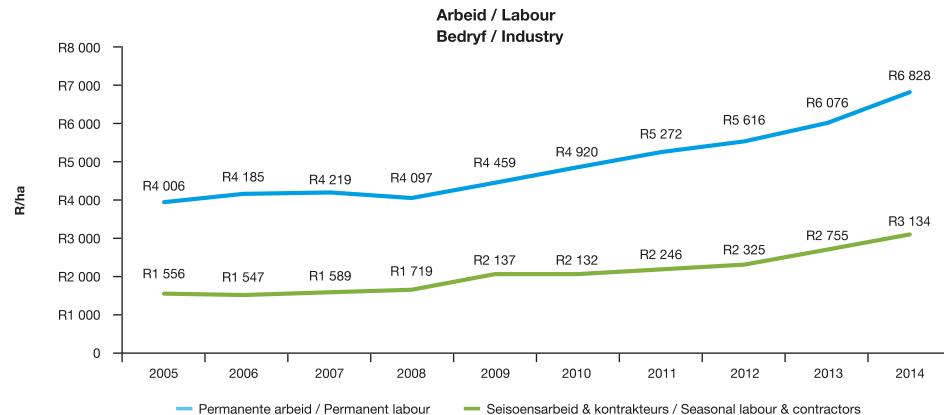
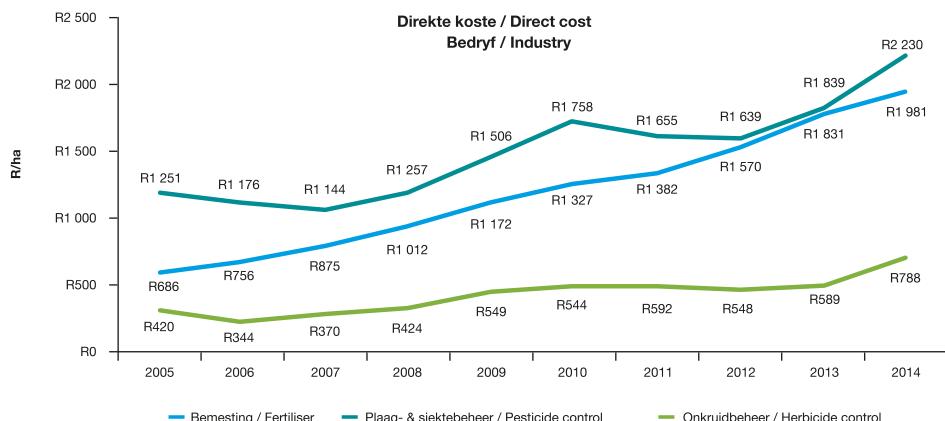
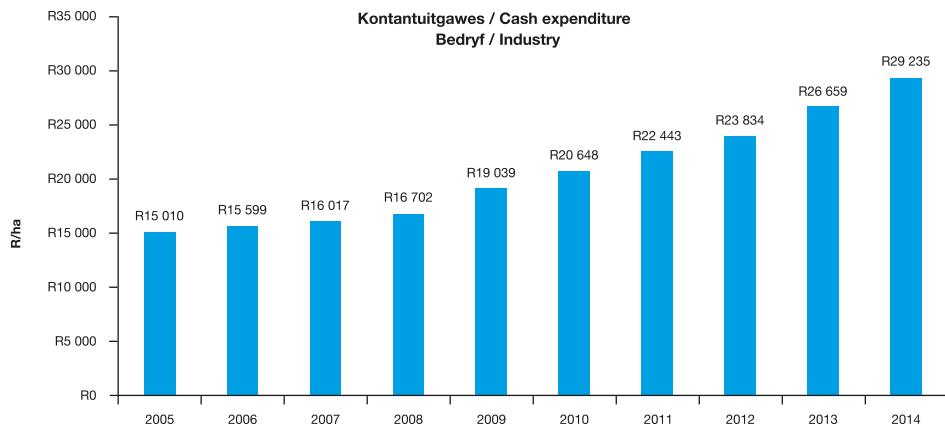
Kontantuitgawes word as direkte koste, arbeid, meganisasie, vaste verbeteringe en algemene uitgawes gespesifiseer. Totale kontantuitgawes toon 'n 10% styging sedert 2013 tot R29 235/ha in die 2014-oesjaar.

Hierdie verhoging word hoofsaaklik aangevuur deur die eerste jaar wat die verhoogde minimumloon ten volle in werking getree het, veral in die distrikte waar daar 'n groter afhanklikheid op seisoenale arbeid was. Dit het bygedra tot die verhoogde komponent wyndruwe wat meganies gepars word, asook al hoe meer praktiese, byvoorbeeld snoei wat meganies hanteer word. Die rekord-oes het ook tot die verhoging bygedra weens verhoogde insette wat verlang word, sodat wyndruwe winsgewend vir 'n spesifieke wyndoelwit geproduseer word.

Cash expenditure

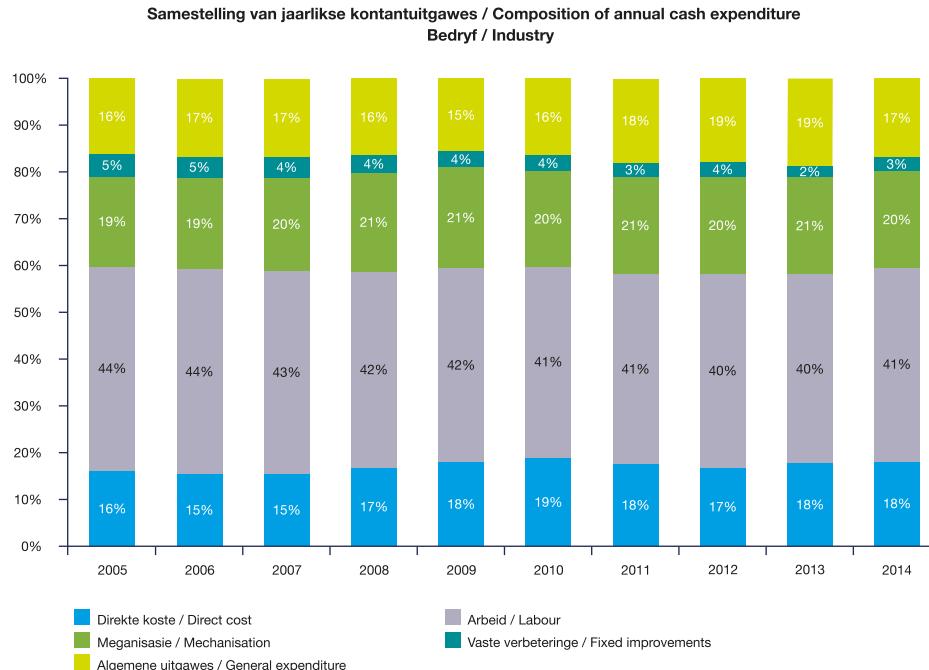
Cash expenditure is specified as direct cost, labour, mechanisation, fixed improvements and general expenses. Total cash expenditure indicates a 10% increase from 2013 to R29 235/ha in the 2014 production year.

The increase is driven mainly by the increased minimum wage – this being the first financial year when it was applied in full – especially in the districts that rely more heavily on seasonal labour. This contributed to the increased mechanisation component, including an increase in alternative practices such as mechanical pruning. The record crop also contributed to the increase, seeing that increased inputs are required to produce wine grapes profitably for a specific wine style objective.



Die kostesamestelling verskil egter tussen die onderskeie areas weens die mate van mekanisering, alhoewel die totale produksiekoste nie noemenswaardig tussen die areas verskil nie. Noukeurige kostebestuur, met die balans tussen wyndoelwit en insetbehoefte per blok, bly krities in siklusse van onder-inflasie inkomstestygings.

The cost component differs among the various areas due to the level of mechanisation, although the total production cost does not differ significantly from one area to the next. Stringent cost management, with a balance between wine style objective and input requirement for each block, remains critical in cycles of sub-inflationary increases in income.



Voorsiening vir vervanging

Produksiekoste word nie net tot kontantuitgawes beperk nie, maar kapitale items moet ook oor tyd vervang word, om sodoende die besigheid in stand te hou en dit sorg vir 'n volhoubare besigheidsmodel. Trekkers, gereedskap, ander produksiemiddelle, wingerde en geboue gaan agteruit en moet vervang word, dus moet die aankoopwaarde van die item oor 'n spesifieke leeftyd verhaal word. Deur die beginsel 'voorsiening vir vervanging' te gebruik, word 'n groter bedrag as in die geval van 'depresiasi' verhaal. Dit spreek die probleem van reglynige waardevermindering tot 'n mate aan.

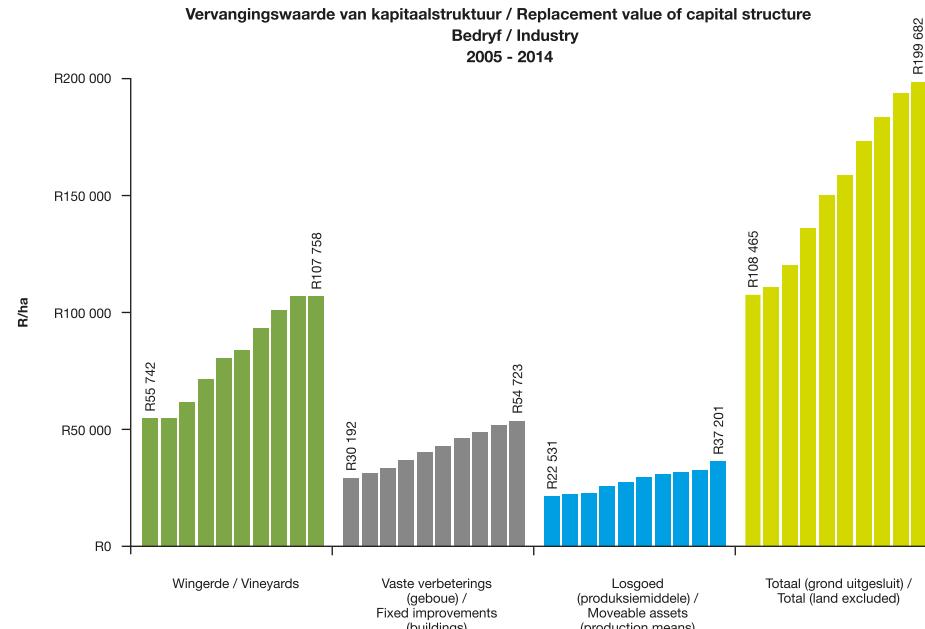
Provision for renewal

Production cost is not only limited to cash expenditure; capital items also have to be renewed in due course of time so as to maintain the business as a running concern and ensure a sustainable business model. Tractors, tools, other means of production, vineyards and buildings deteriorate and have to be renewed, therefore the purchase value of the item has to be recovered over a specific lifetime. By using the principle 'provision for renewal', a larger amount is recovered than in the case of 'depreciation'. To a certain extent this addresses the problem of rectilinear depreciation in value.

Met die berekening van voorsiening vir vervanging word items oor verskillende termyne teen vervangingswaarde afgeskryf:

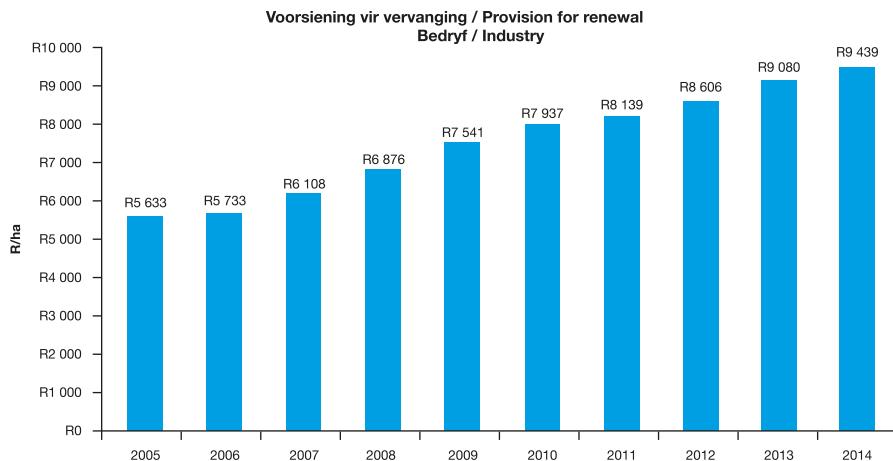
| | |
|-------------------------------|-------------|
| Geboue | 60 jaar |
| Wingerde | 20 jaar |
| Los bates / produksiemiddelle | 7 - 15 jaar |

| | |
|---------------------------------------|--------------|
| Buildings | 60 years |
| Grapevines | 20 years |
| Moveable assets / means of production | 7 - 15 years |



Totale voorsiening vir vervanging het in die 2014-oesjaar R9 439/ha beloop – 'n 4% styging sedert 2013.

Total provision for renewal amounted to R9 439/ha in the 2014 production year – a 4% increase from 2013.

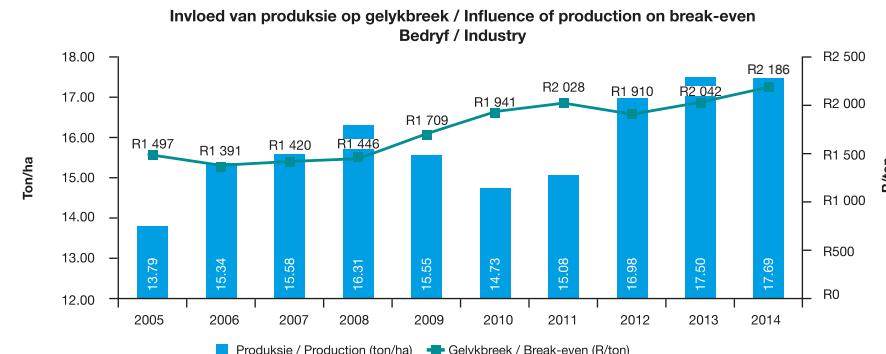


Gelykbreek

Die impak van verhoogde produksie is wesenlik op die gelykbreekprys van die totale produksiekoste in rand per ton. Totale produksiekoste per hektaar, wat met 8% sedert 2013 gestyg het, het daar toe gelei dat die gelykbreek in terme van rand per ton van R2 042/ton na R2 186/ton in 2014 toegeneem het. Anders gestel: die eerste R2 186 wat die produsent gedurende die 2014-oes vir 'n ton druiwe ontvang het, behoort vir totale produksiekoste aangewend te word – geen ondernemersloon, rente of belasting is nog in berekening gebring nie.

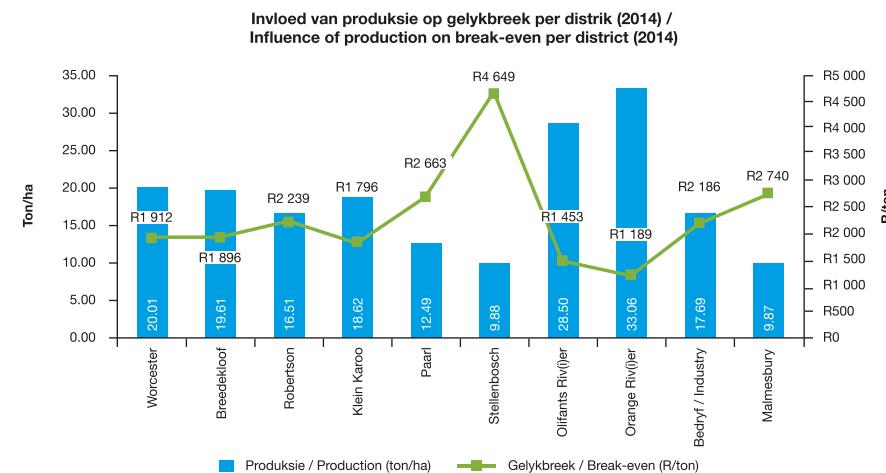
Break-even

The impact of increased production is significant on the break-even price of the total production cost in rand per ton. Total production cost per hectare, which increased by 8% from 2013, caused the break-even in terms of rand per ton to increase from R2 042/ton to R2 186/ton in 2014. In other words: the first R2 186 a producer received for a ton of grapes during the 2014 harvest, should be applied for total production cost – no entrepreneurial remuneration, interest or tax has been taken into account yet.



Die gemiddelde opbrengste verskil noemenswaardig tussen die distrikte, asook tussen die verskillende kultivars, terwyl die produksiekoste nie noemenswaardig verskil nie. Dit gee aanleiding tot groot verskille in gelykbreekprys ten opsigte van totale produksiekoste in die onderseekie distrikte en tussen die verskillende kultivars.

The average yields differ considerably among the districts, as well as among the various cultivars, while the production cost does not differ to the same extent. This gives rise to large differences in break-even price in terms of total production cost in the respective district and among the various cultivars.



PRODUKSIEKOSTE VIR WYNDRUIWE – KOSTE AS RAND PER HEKTAAR (2014-OES)
PRODUCTION COST FOR WINE GRAPES – COST AS RAND PER HECTARE (2014 HARVEST)

| DISTRIK / DISTRICT | Stellenbosch | Paarl |
|--|--------------|--------|
| KOSTESTRUKTUUR / COST STRUCTURE | | |
| DIREKTE KOSTE / DIRECT COST | 5 333 | 4 297 |
| SAAD / SEED | 126 | 32 |
| KUNSMIS / FERTILISER | 843 | 1 231 |
| ORGANIESE BEMESTING / ORGANIC MATERIAL | 45 | 118 |
| PLAAG- & SIEKTEBEHEER / PESTICIDE CONTROL | 2 903 | 2 042 |
| ONKRUIDBEHEER / HERBICIDE CONTROL | 960 | 571 |
| HERSTEL- & BINDMATERIAAL / REPAIR & BINDING MATERIAL | 457 | 302 |
| ARBEID/ LABOUR # | 18 660 | 11 239 |
| TOESIG & BESTUURSHULP / SUPERVISION | 3 435 | 1 182 |
| PERMANENTE ARBEID / PERMANENT LABOUR | 9 470 | 6 485 |
| SEISOENSARBEID & KONTRAKTEURS / SEASONAL & CONTRACT WORKERS | 5 755 | 3 572 |
| MEGANISASIE / MECHANISATION | 6 321 | 4 837 |
| BRANDSTOF / FUEL | 2 504 | 2 396 |
| HERSTEL, ONDERDELE & REPARASIES / REPAIR, PARTS & MAINTENANCE | 3 126 | 1 630 |
| LISENSIES & VERSEKERING / LICENCES & INSURANCE | 521 | 451 |
| VERVOER GEHUUR / TRANSPORT HIRED | 170 | 360 |
| VASTE VERBETERINGE / FIXED IMPROVEMENTS | 1 207 | 787 |
| HERSTEL & ONDERHOUD / REPAIR & MAINTENANCE | 1 032 | 604 |
| VERSEKERING / INSURANCE | 174 | 182 |
| ALGEMENE UITGAWES / GENERAL EXPENDITURE | 5 116 | 4 048 |
| ELEKTRISITEIT / ELECTRICITY | 1 796 | 1 710 |
| WATERKOSTE / WATER COST | 715 | 555 |
| GROND- EIENDOMS- & MUN BELASTINGS / LAND- PROPERTY- & MUN TAXES | 383 | 218 |
| ADMINISTRASIE / ADMINISTRATION * | 2 223 | 1 566 |
| TOTALE KONTANTUITGAWES / TOTAL CASH EXPENDITURE | 36 637 | 25 207 |
| VOORSIENING VIR VERVANGING / PROVISION FOR RENEWAL | 9 296 | 8 058 |
| WINGERDE / VINEYARDS | 5 379 | 5 398 |
| VASTE VERBETERINGS / FIXED IMPROVEMENTS | 1 148 | 666 |
| LOSGOED OF PRODUKSIEMIDDLE / MOVEABLE ASSETS OR PRODUCTION MEANS | 2 769 | 1 994 |
| TOTALE UITGAWES / TOTAL EXPENDITURE | 45 932 | 33 265 |
| GEMIDDELDE OPP GEPLANT / AREA PLANTED (HA) | 101 | 101 |
| AREA ONDER BESPROEIING / AREA UNDER IRRIGATION (%) | 92% | 95% |
| OUDERDOMSAMESTELLING / AGE COMPOSITION (%) | | |
| 3 JAAR & JONGER / 3 YEARS & YOUNGER | 7.83 | 10.74 |
| TUSSEN 4 & 7 JAAR / BETWEEN 4 & 7 YEARS | 16.80 | 11.61 |
| TUSSEN 8 & 15 JAAR / BETWEEN 8 & 15 YEARS | 38.58 | 50.08 |
| TUSSEN 16 & 20 JAAR / BETWEEN 16 & 20 YEARS | 18.32 | 18.48 |
| OUDER AS 20 JAAR / OLDER THAN 20 YEARS | 18.47 | 9.09 |
| GEMIDDELDE OPBRENGS / AVERAGE YIELD (TON/HA) | 9.88 | 12.49 |
| KONTANTUITGAWES / CASH EXPENDITURE (R/TON) | 3 708 | 2 018 |
| TOTALE UITGAWES / TOTAL EXPENDITURE (R/TON) | 4 649 | 2 663 |

| Robertson | Breedekloof | Olifants Riv(i)er | Worcester | Oranje Riv(i)er | Klein Karoo | Bedryf Industry | Malmesbury |
|-----------|-------------|-------------------|-----------|-----------------|-------------|-----------------|------------|
| R/ha | | | | | | | |
| 5 770 | 6 315 | 5 723 | 6 645 | 2 950 | 4 365 | 5 382 | 3 883 |
| 64 | 106 | 15 | 115 | 56 | 81 | 75 | 154 |
| 1 830 | 1 502 | 2 607 | 2 425 | 1 187 | 1 538 | 1 591 | 1 245 |
| 129 | 1 018 | 615 | 200 | 150 | 310 | 315 | 41 |
| 2 414 | 2 365 | 1 661 | 2 474 | 652 | 1 678 | 2 230 | 1 857 |
| 1 007 | 928 | 415 | 964 | 583 | 360 | 788 | 493 |
| 326 | 396 | 409 | 467 | 322 | 398 | 383 | 94 |
| 9 489 | 9 961 | 9 270 | 9 718 | 16 871 | 8 973 | 12 001 | 8 604 |
| 2 208 | 2 012 | 1 881 | 1 143 | 2 092 | 1 359 | 2 039 | 848 |
| 5 385 | 6 530 | 5 788 | 7 000 | 6 496 | 6 089 | 6 828 | 4 163 |
| 1 896 | 1 419 | 1 602 | 1 575 | 8 283 | 1 524 | 3 134 | 3 593 |
| 6 168 | 5 639 | 7 385 | 5 962 | 5 809 | 5 537 | 5 952 | 4 788 |
| 2 393 | 2 510 | 3 387 | 2 737 | 2 898 | 2 471 | 2 613 | 2 021 |
| 3 190 | 2 433 | 2 902 | 2 620 | 1 988 | 2 470 | 2 594 | 1 485 |
| 418 | 486 | 790 | 531 | 695 | 379 | 523 | 350 |
| 167 | 210 | 306 | 74 | 227 | 218 | 222 | 932 |
| 768 | 1 331 | 737 | 1 207 | 836 | 817 | 985 | 531 |
| 559 | 1 074 | 500 | 942 | 427 | 677 | 763 | 424 |
| 209 | 257 | 237 | 265 | 408 | 140 | 222 | 108 |
| 4 998 | 4 237 | 6 691 | 5 159 | 4 783 | 4 395 | 4 914 | 2 130 |
| 2 975 | 2 695 | 2 922 | 2 528 | 1 613 | 1 463 | 2 302 | 721 |
| 905 | 203 | 1 959 | 1 365 | 1 430 | 1 843 | 926 | 646 |
| 146 | 238 | 272 | 199 | 534 | 159 | 259 | 99 |
| 972 | 1 101 | 1 539 | 1 067 | 1 206 | 930 | 1 427 | 664 |
| 27 193 | 27 481 | 29 806 | 28 691 | 31 249 | 24 086 | 29 235 | 19 936 |
| 9 771 | 9 706 | 11 601 | 9 564 | 8 056 | 9 354 | 9 439 | 7 109 |
| 5 443 | 5 510 | 5 005 | 5 589 | 5 300 | 5 432 | 5 388 | 4 593 |
| 936 | 998 | 1 061 | 903 | 463 | 661 | 912 | 600 |
| 3 392 | 3 198 | 5 534 | 3 073 | 2 293 | 3 261 | 3 140 | 1 916 |
| 36 964 | 37 187 | 41 406 | 38 256 | 39 305 | 33 440 | 38 674 | 27 045 |
| 107 | 114 | 56 | 91 | 19 | 48 | 92 | 162 |
| 100% | 100% | 100% | 99% | 100% | 100% | 98% | 31% |
| 13.80 | 15.40 | 11.24 | 15.41 | 4.16 | 16.53 | 11.77 | 9.49 |
| 19.60 | 14.44 | 15.12 | 18.76 | 24.57 | 14.90 | 16.32 | 10.09 |
| 33.56 | 36.53 | 37.24 | 35.14 | 41.54 | 43.70 | 39.38 | 59.07 |
| 18.11 | 17.90 | 17.89 | 14.14 | 17.05 | 17.86 | 17.69 | 16.13 |
| 14.93 | 15.70 | 18.51 | 16.55 | 12.68 | 7.28 | 14.85 | 5.22 |
| 16.51 | 19.61 | 28.50 | 20.01 | 33.06 | 18.62 | 17.69 | 9.87 |
| 1 647 | 1 401 | 1 046 | 1 434 | 945 | 1 294 | 1 652 | 2 020 |
| 2 239 | 1 896 | 1 453 | 1 912 | 1 189 | 1 796 | 2 186 | 2 740 |

Ingeluit: Voorsorgfonds, WVF, medies, beskermdle klere, klerasie, bonusse, rantsoene, ongevalle / vergoeding kommisaris, ens.

Included: Provident fund, UIF, medical, protected clothes, clothing, bonus, rations, workman's compensation commission, etc.

* Ingeluit: Bankkoste, ouditeursgelde, lidmaatskappe, sekuriteit, rekenaaronderhoud, professionele dienste, kursus/opleiding, posgeld, telefoon, skrif/behoeftes, bespreeiingsmonitering en diverse uitgawes.

* Included: Banking costs, bookkeeping fees, membership fees, security, computer maintenance, professional fees, training/courses, postage, telephone, stationery, irrigation monitoring and sundries.

Kostestruktuur van top presteerders / Cost structure of top achievers

Die top presteerders word volgens beste netto boerdery inkomste (NBI) geselekteer. Top presteerders se jaarlikse kontantuitgawes (R27 334/ha) was gedurende die 2014-oesjaar minstens 7% laer as dié van die bedryf (R29 235/ha), terwyl die voorsiening vir vervanging van die top presteerders (R9 503/ha) 1% hoër was as die bedryfsgemiddeld (R9 439/ha). Totale produksiekoste van die top presteerders het R36 837/ha teenoor die bedryfsgemiddelde R38 674/ha beloop – 5% laer.

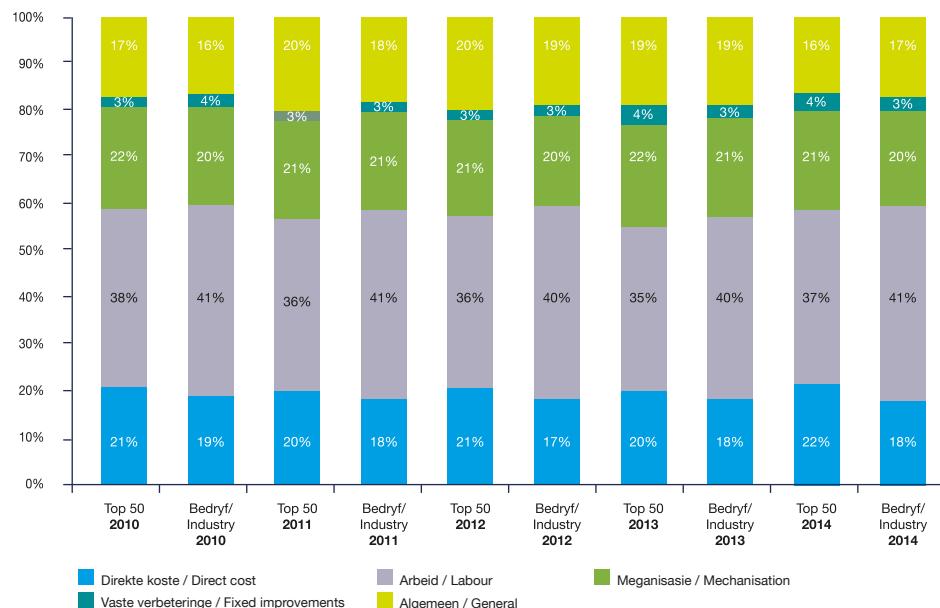
The top achievers are selected according to highest net farming income (NFI). Top achievers' annual cash expenditure (R27 334/ha) was at least 7% lower than that of the industry (R29 235/ha) during the 2014 production year, while the provision for replacement of the top achievers (R9 503/ha) was 1% higher than the industry average (R9 439/ha). Total production cost of the top achievers amounted to R36 837/ha compared to the industry average of R38 674/ha, which was 5% lower.

| PRODUKSIEKOSTE VIR WYNDRUIWE (R/HA) / PRODUCTION COST FOR WINE GRAPES (R/HA) | | | | | | |
|---|------------------------|------------------------------------|------------------------|------------------------------------|------------------------|------------------------------------|
| KOSTESTRUKTUUR / COST STRUCTURE | Top 50 2012 R/ha | Bedryf Industry 2012 R/ha | Top 50 2013 R/ha | Bedryf Industry 2013 R/ha | Top 50 2014 R/ha | Bedryf Industry 2014 R/ha |
| DIREKTE KOSTE / DIRECT COST | 4 530 | 4 150 | 5 063 | 4 670 | 6 080 | 5 382 |
| SAAD / SEED | 84 | 107 | 109 | 110 | 133 | 75 |
| KUNSMIS / FERTILISER | 1 393 | 1 221 | 1 327 | 1 405 | 1 577 | 1 591 |
| ORGANIESE BEMESTING / ORGANIC MATERIAL | 417 | 242 | 569 | 316 | 779 | 315 |
| PLAAG- & SIEKTEBEHEER / PESTICIDE CONTROL | 1 661 | 1 639 | 1 963 | 1 839 | 2 310 | 2 230 |
| ONKRUIDBEHEER / HERBICIDE CONTROL | 552 | 548 | 594 | 589 | 812 | 788 |
| HERSTEL- & BINDMATERIAAL / REPAIR & BINDING MATERIAL | 422 | 393 | 501 | 411 | 469 | 383 |
| ARBEID / LABOUR | 7 937 | 9 630 | 8 751 | 10 639 | 10 216 | 12 001 |
| TOESIG & BESTUURSHULP / SUPERVISION | 1 568 | 1 689 | 1 648 | 1 808 | 1 720 | 2 039 |
| PERMANENTE ARBEID / PERMANENT LABOUR | 5 092 | 5 616 | 5 668 | 6 076 | 6 590 | 6 828 |
| SEISOENSARBEID & KONTRAKTEURS / SEASONAL & CONTRACT WORKERS | 1 278 | 2 325 | 1 435 | 2 755 | 1 906 | 3 134 |
| MEGANISASIE / MECHANISATION | 4 543 | 4 868 | 5 369 | 5 501 | 5 680 | 5 952 |
| BRANDSTOF / FUEL | 1 820 | 2 040 | 2 350 | 2 358 | 2 629 | 2 613 |
| HERSTEL ONDERDELE & REPARASIES / REPAIR PARTS & MAINTENANCE | 2 059 | 2 136 | 2 208 | 2 352 | 2 334 | 2 594 |
| LISENSIES & VERSEKERING / LICENCES & INSURANCE | 464 | 460 | 522 | 497 | 532 | 523 |
| VERVOER GEHUUR / TRANSPORT HIRED | 199 | 232 | 289 | 294 | 185 | 222 |
| VASTE VERBETERINGE / FIXED IMPROVEMENTS | 715 | 720 | 953 | 913 | 1 095 | 985 |
| HERSTEL & ONDERHOUD / REPAIR & MAINTENANCE | 488 | 490 | 721 | 635 | 875 | 763 |
| VERSEKERING / INSURANCE | 227 | 230 | 231 | 278 | 220 | 222 |
| ALGEMENE UITGAWES / GENERAL EXPENDITURE | 4 328 | 4 466 | 4 670 | 4 936 | 4 263 | 4 914 |
| ELEKTRISITEIT / ELECTRICITY | 2 269 | 2 063 | 2 245 | 2 287 | 2 036 | 2 302 |
| WATERKOSTE / WATER COST | 861 | 931 | 963 | 971 | 803 | 926 |
| GROND- EIENDOMS- & MUN BELASTINGS / LAND- PROPERTY- & MUN TAXES | 172 | 218 | 222 | 257 | 224 | 259 |
| ADMINISTRASIE / ADMINISTRATION | 1 026 | 1 254 | 1 241 | 1 421 | 1 201 | 1 427 |
| TOTALE KONTANTUITGAWES / TOTAL CASH EXPENDITURE | 22 054 | 23 834 | 24 806 | 26 659 | 27 334 | 29 235 |
| VOORSIENING VIR VERVANGING / PROVISION FOR RENEWAL | 8 815 | 8 606 | 9 509 | 9 080 | 9 503 | 9 439 |
| WINGERDE / VINEYARDS | 5 143 | 5 082 | 5 509 | 5 408 | 5 449 | 5 388 |
| VASTE VERBETERINGS / FIXED IMPROVEMENTS | 910 | 832 | 936 | 880 | 888 | 912 |
| LOSGODE OF PRODUKSIEMIDDELE / MOVEABLE ASSETS OR PRODUCTION MEANS | 2 761 | 2 691 | 3 063 | 2 792 | 3 166 | 3 140 |
| TOTALE UITGAWES / TOTAL EXPENDITURE | 30 869 | 32 439 | 34 315 | 35 739 | 36 837 | 38 674 |

Die persentasie samestelling van top presteerders se kontantuitgawes verskil ook van die bedryfsgemiddeld. Direkte kostes by top presteerders was gedurende die drie oorsigjare ietwat hoër as dié van die bedryf, hoofsaaklik vanweë groter spandering aan bemesting. Die mekanisasie-komponent is by top presteerders groter en arbeid kleiner as die bedryfsgemiddeld. Totale arbeidskoste van top presteerders is ook laer as die bedryfsgemiddeld. Gesien in die lig hiervan wil dit voorkom of die top presteerders tot 'n mate meer gemeganiseerd is ten koste van arbeid, of arbeid word meer produktief aangewend. Die ander kostekomponente toon egter nie veel verskille nie.

The percentage composition of top achievers' cash expenditure also differs from the industry average. Top achievers' direct costs were slightly higher than that of the industry during the three years under review, mainly due to greater spending on fertiliser. Top achievers' mechanisation component is bigger, while the labour component is smaller than the industry average. Total labour cost of top achievers is also below the industry average. In view of the above it seems as though the top achievers are more mechanised at the expense of labour, or labour is applied more productively. The other cost components do not differ much.

Samestelling van jaarlikse kontantuitgawes (top presteerders teenoor bedryfsgemiddeld) /
Composition of annual cash expenditure (top achievers compared to industry average)



Hoewel die kostestruktuur van top presteerders van die bedryfsgemiddeld verskil wat betref samestelling en werklike randwaarde, was dit inkomste per hektaar – hoofsaaklik aangedryf deur produksie – wat in 2014 vir die vyfde agtereenvolgende jaar die aansienlike verbetering in NBI bewerkstellig het.

Die ouderdomssamestelling van wingerd oor die drie-jaar oorsigperiode toon nie wesentlike verskille nie. Beide groeperings beskik na regte oor 'n aanvaarbare ouderdomssamestelling.

Although the cost structure of top achievers differs from the industry average with regard to composition and actual rand value, it was income per hectare – mainly fuelled by production – that resulted in the considerable improvement in NFI for the fifth consecutive year in 2014.

The age composition of grapevines over the three year period under review does not differ much. For both groups the age composition is quite acceptable.

Wat doen top presteerders anders? / What sets top performers apart?

Die volgende korttermyn tegniese praktyke het oor die afgelope drie tot vyf jaar die winsgewendheid van individuele wynprodusente 'n hupstoot gegee.

Snoeimethodes

In 'n poging om produksie te verhoog, poog produsente om oogladings tydens snoei te verhoog deur die toepassing van verskillende snoeipraktyke. Die aantal oë word toegeken met inagneming van die groekrag – geiler stokke kry dus meer of langer draers en 'n hoër oogladings. Verskillende snoeimetodes/-stelsels word ook vir verskillende wyndoelwitte toegepas.

Lowerbestuurspraktyke

Lower word bestuur om vegetatiewe groei te akkommodeer sonder verlies aan vrugbaarheid en met behoud van kwaliteit. Groot fokus word geplaas op lig in die lower en suier-, top- en blaarbreek-aksies word uitgevoer om te verhoed dat stokke te dig en onvrugbaar raak. Produsente poog ook om op arbeid te bespaar deur sekere praktyke uit te skakel of af te skaal. Só word wingerde onder ander meer toegelaat om oop te lê (sprawl) om voldoende deurlugting en beligting te verseker. Voorheen is voorkeur gegee aan vertikale looptpositionering (VSP) waar al die late tussen die loofdrade ingedruk word en verdigting maklik kan plaasvind indien daar nie gesuier word nie.

Bemesting en besproeiing

Groeikrag het 'n groot impak op produksie en produsente pas hul bemestings- en besproeiingspraktyke volgens spesifieke wyndoelwitte toe. Premium-blokke het matige groei en drag wat in balans is, terwyl bulkwynblokke sterker groekrag het wat 'n groter lower en drag kan akkommodeer. Besproeiing en bemesting word hierby aangepas.

Blokke met hoër produksies word dikwels geassosieer met:

- Goed gedreineerde grond
- Diep grondvoorbereiding
- Meer stikstof (N)
- Luukse watervoorsiening (nie te veel nie – risiko van versuiping).

Tekortbesproeiing ("RDI") word slegs toegepas indien die wynprys dit regverdig.

The following short-term technical practices improved the profitability of individual wine producers over the past three to five years.

Pruning methods

In an attempt to increase production, producers attempt to increase bud load during pruning by means of various pruning practices. The number of buds allocated depends on vigour – grapevines that are more vigorous have more spurs or longer bearers – in other words, a higher bud load. Moreover, different pruning methods/systems are used for different wine objectives.

Canopy management practices

Canopies are managed to accommodate vegetative growth without loss of fertility, while retaining quality. There is considerable focus on sunlight penetration within the canopy, and suckering techniques, topping and leaf removal are performed to prevent grapevine canopies from becoming too dense and infertile. Producers also attempt to save on labour by eliminating or downscaling certain practices. By allowing certain grapevines to sprawl in order to ensure sufficient aeration and light penetration, shoots do not need to be tucked into wires as required with vertical shoot positioning systems. The latter practice could be responsible for too dense canopies unless proper suckering takes place.

Fertilisation and irrigation

Vigour has a great impact on yield; therefore producers apply their fertilisation and irrigation practices according to specific wine objectives. The growth and yield in premium blocks are moderate and in balance, whereas bulk wine blocks are more vigorous in order to accommodate larger canopies and yields. Irrigation and fertilisation are adjusted accordingly.

Blocks with high yield are often associated with:

- Well-drained soil
- Deep soil preparation
- More nitrogen (N)
- Abundant water provision (not too much – risk of drowning).

Deficit irrigation ("RDI") is applied only if it is justified by the price of the wine.

Belyn praktyke met die wyndoelwit

Wingerdbestuur het tot 'n groot mate verskuif vanaf slegs gehalte teen alle koste na winsgewendheid teen die regte gehalte. Produsente belyn dus hul praktyke met die uiteindelike wyndoelwit en druiweprys. 'n Langtermynpraktyk wat vorentoe 'n groot rol gaan speel, is die gebruik van nouer plantwydtes, en spesifiek nouer rywydte, wat meer rye per hektaar gee.

Alternatiewe prieelstelsels

Die keuse van prieelstelsel het 'n baie groot impak op winsgewendheid, en hoewel nog in die beginfase, gebruik á meer produsente alternatiewe prieelstelsels of bestuur hul bestaande stelsel(s) anders.

Alternatiewe prieelstelsels kan:

- Produksie (ton/ha) verhoog deurdat verhoogde effektiewe blaaroppervlak 'n groter oes kan ryptaak
- Arbeidskostes verlaag, byvoorbeeld ooplèstelsels teenoor VSP
- Sonligpenetrasié verbeter
- Tot meer gebalanseerde groekrag lei
- Tot beter gehalte teen 'n hoër produksie aanleiding gee, vanweë groter effektiewe lowers.

Uitkap van nie-winsgewende blokke

Laer-produserende blokke of dié waarvan die druwe nie meer in aanvraag is nie, word uitgekap.

Doeltreffende arbeidsbestuur

As deel van beter algemene kostebestuur, word arbeid meer doeltreffend bestuur deur onder ander te mekaniseer waar moontlik en gebruik te maak van meer opgeleide arbeiders waar hande-arbeid wel benodig word.

Plant nuwe wingerde aan

Slegs winsgewende produsente plant tans nuwe wingerde aan, maar doen fyn beplanning vir beter produksies met betrekking tot die grond, kultivar, onderstok, klone, prieel, besproeiing, bemesting, snoei en lowerbestuur.

Tydsberekening van aksies

Die korrekte tydsberekening van verskillende wingerdaksies is baie belangrik – dit kan kostes bespaar en effektiwiteit verbeter. Feitlik alle aksies vereis 'n bepaalde tyd; verbeur dit en betaal die gevolge.

Align practices with the wine objective

Viticultural management has shifted to a large extent from quality alone at all costs, to profitability combined with the right quality. Producers are therefore aligning their practices with the eventual wine objective and grape price. A long-term practice that is set to play a significant role in the future, is the use of narrower plant widths, and specifically narrower row width, which gives more rows per hectare.

Alternative trellising systems

The choice of trellis system has an enormous impact on profitability, and although it is early days yet, more and more producers are using alternative trellis systems, or manage their existing system(s) differently.

Alternative trellis systems can:

- Increase yield (ton/ha), as a larger effective leaf surface area is able to ripen a larger crop
- Reduce labour costs, for example sprawling systems versus vertical positioning
- Improve sunlight penetration
- Result in more balanced vigour
- Result in improved quality and higher yield, due to bigger effective canopies.

Uprooting of non-profitable blocks

Blocks with low yields, or blocks with grapes that are no longer in demand, are uprooted.

Efficient labour management

As part of improved general cost management, labour is managed more efficiently by means of mechanisation, inter alia, where possible, and where manual labour is required, by making use of more skilled labourers.

Plant new vineyards

Only producers who make a profit are currently planting new vineyards, following meticulous planning for improved yields with regard to the soil, cultivar, rootstock, clones, trellis, irrigation, fertilisation, pruning and canopy management.

Timing of actions

Correct timing of various vineyard activities can go a long way to reducing costs and increasing the effectiveness of operations, where late action often comes with extra costs. Just about every activity has its time; miss it and it will cost you.

Teikeninkomste (2014-oes) / Target income (2014 harvest)

Dit is van uiterste belang dat produsente en ander rolspelers in die wynbedryf weet wat die teikeninkomste per hektaar moet wees om te verseker dat redelike en aanvaarbare ekonomiese opbrengste gerealiseer word. Om die teikeninkomste te bepaal word die totale produksiekoste, 'n aanvaarbare ondernemersloon, asook 'n realistiese opbrengs op kapitaalbelegging in berekening gebring. Sodoende word die teikeninkomste per hektaar bepaal, wat na gelang van verskillende produksies aangepas moet word om teikenpryse vir spesifieke produkte te bepaal. Hierdie syfers is slegs 'n gemiddelde teikeninkomste per distrik ten opsigte van Produksieplan-deelnemers en die ideaal is dat elke produsent sy eie individuele teikeninkomste bepaal na gelang van sy plaasgrootte, koststruktuur, ens.

It is important that producers and other role players are informed of what their target income per hectare should be to ensure that reasonable and acceptable economic yields are obtained. Total production cost, entrepreneurial remuneration and a realistic return on capital investment are all taken into account to determine the total target income. After the target income per hectare has been calculated, it should be divided according to varying levels of production in order to determine target prices for specific products. The target income guidelines shown here represent the average for all the participants of the Production Plan per district and producers should ideally calculate their individual target income according to their own cost structure, farm size, etc.

TEIKENINKOMSTE RIGLYNE PER HEKTAAR (2014) / TARGET INCOME GUIDELINES PER HECTARE (2014)

| DISTRIK / DISTRICT | Stellenbosch | Paarl | Robertson | Breedekloof | Olifants Rivier | Worcester | Orange Rivier | Klein Karoo | Bedryf / Industry | Malmesbury | R/ha |
|---|--------------|--------|-----------|-------------|-----------------|-----------|---------------|-------------|-------------------|------------|--------------------------------|
| | | | | | | | | | | | Plaag grootte / Farm size (ha) |
| Totale kontantuitgawes | | | | | | | | | | | |
| Total cash expenditures | 36 637 | 25 207 | 27 193 | 27 481 | 29 806 | 28 691 | 31 249 | 24 086 | 29 235 | 19 936 | |
| Vorsiening vir vervanging | 9 296 | 8 058 | 9 771 | 9 706 | 11 601 | 9 564 | 8 056 | 9 354 | 9 439 | 7 109 | |
| Provision for replacement | | | | | | | | | | | |
| Teikeninkomste na produksiekoste | 45 933 | 33 265 | 36 984 | 37 187 | 41 406 | 38 255 | 39 305 | 33 440 | 38 674 | 27 045 | |
| Target income after production cost: | | | | | | | | | | | |
| Rente op belegging (vestigingskoste – R138 000/ha) | 11 040 | 11 040 | 11 040 | 11 040 | 11 040 | 11 040 | 11 040 | 11 040 | 11 040 | 8 480 | |
| Interest on investment (establishment cost – R138 000/ha) | | | | | | | | | | | |
| Teikeninkomste voor ondernemingsloon | 56 973 | 44 305 | 48 004 | 48 227 | 52 446 | 49 285 | 50 345 | 44 480 | 49 714 | 35 525 | |
| Target income before entrepreneurial remuneration | | | | | | | | | | | |
| Ondernemingsloon (R34 000/maand) | 10 200 | 10 200 | 10 200 | 10 200 | 10 200 | 10 200 | 10 200 | 10 200 | 10 200 | 5 815 | |
| Entrepreneurial remuneration (R34 000/month) | | | | | | | | | | | |
| Teikeninkomste per ha | 67 173 | 54 505 | 58 204 | 58 427 | 62 646 | 59 495 | 60 545 | 56 680 | 59 914 | 41 339 | |
| Target income per ha | | | | | | | | | | | |

TEIKENINKOMSTE RIGLYNE PER TON (2014) / TARGET INCOME GUIDELINES PER TON (2014)

| Produksie per hektaar / Yield per hectare | R/ton | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | 5 | 8 | 10 | 12 | 15 | 20 | 25 | 30 | 35 | 40 |
| Produksie per hektaar / Yield per hectare | 13 435 | 10 901 | 11 641 | 11 685 | 12 529 | 11 899 | 12 109 | 10 936 | 11 983 | 8 268 |
| 5 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Arbeidsriglyne / Labour guidelines

Arbeidsnorme / Labour norms

Arbeid is verreweg die grootste komponent van die wyndruifprodusent se jaarlikse kostes. Daarom is die effektiewe bestuur van die arbeidsmag op die plaas baie belangrik. In die volgende tabel is arbeidsnorme vir sekere aksies saamgevat wat die wyndruifprodusent sal help met die beplanning, bestuur van, en begroting vir arbeid – beide permanent en seisoenaal – deur die jaar.

| ARBEIDSNORME / LABOUR NORMS | | |
|--|---|-------------------------------|
| Tipe aksie / Type of action | Man-ure per hektaar / Man hours per hectare | Vir eie gebruik / For own use |
| Wingerd uittrek / Vineyard uproot | | |
| Bosstok / Bush vines | 40 - 55 | |
| Opleiwingerd / Trellised vineyards | 1100 - 1400 | |
| Skoonmaak van grond / Field clearing | 23 - 30 | |
| Skoonmaak van grond (trekker) / Field clearing (tractor) | 25 - 35 | |
| Verwyder van stokke / Uproot old vines | 23 - 30 | |
| Wegry van stokke / Remove vines from site | 25 - 35 | |
| Wingerdvestiging (alle aktiwiteite) / Establishment (all activities) | | |
| Jaar 1 / Year 1 | 900 - 1300 | |
| Jaar 2 / Year 2 | 1000 - 2400 | |
| Jaar 3 / Year 3 | 1000 - 1500 | |
| Wingerdvestiging (gespesifieerde aktiwiteite) / Establishment (specified activities) | | |
| Pale plant / Plant posts | 320 - 380 | |
| Draadspan / Strain wires | 70 - 90 | |
| Besproeiing installeer / Install irrigation | 170 - 200 | |
| Opleistelsel oprig (medium tot groot) / Erect trellis systems (medium to large) | 1200 - 1700 | |
| Saaie van dekgewas / Sow cover crop seed | 3 - 5 | |
| Plant van stokke / Plant vines | 160 - 185 | |
| Lê van dekplastiek / Lay plastic covering | 24 - 30 | |
| Groenlootontwikkeling / Green shoot development | 230 - 300 | |
| Winterloot op raamwerk / Winter cane on framework | 110 - 125 | |
| Oesbeheer / Crop control | 65 - 80 | |
| Ander aktiwiteite / Other activities | | |
| Voorsnoei vir oplei / Pre-prune for trellising | 30 - 37 | |
| Skoonsnoei vir bosstok / Clear pruning for bush vines | 86 - 160 | |
| Skoonsnoei vir oplei / Clear pruning for trellising | 105 - 120 | |
| Stompsnoei vir bosstok / Blunt pruning for bush vines | 45 - 55 | |
| Stompsnoei vir oplei / Blunt pruning for trellising | 42 - 62 | |
| Gesamentlike snoei (skoon en stomp) / Collective pruning (blunt and clear) | 90 - 145 | |
| Suier intensief / Intensive offset | 45 - 80 | |
| Suier ekstensief / Extensive offset | 24 - 45 | |
| Lote deursteek / Plant shoots | 20 - 36 | |
| Top van lote / Top shoots | 15 - 25 | |
| Blare uitbreek / Remove leaves | 20 - 30 | |
| Oesbeheer / Crop control | 65 - 80 | |
| Oes van bosstok (man-ure per ton) / Harvest of bush vines (man hours per ton) | 11 - 15 | |
| Oes van oplei (man-ure per ton) / Harvest of trellis (man hours per ton) | 9 - 11 | |

Labour is by far the largest component of wine grape producers' annual expenditure. Therefore efficient management of the labour corps on the farm is of utmost importance. The following table includes labour norms for specific actions that will assist the wine grape producer to plan, manage and budget for labour – both permanent and seasonal – throughout the year.

| ARBEIDSNORME / LABOUR NORMS | | |
|--|---|-------------------------------|
| Tipe aksie / Type of action | Man-ure per hektaar / Man hours per hectare | Vir eie gebruik / For own use |
| Besproeiing in seisoen / Irrigation in season | 20 - 35 | |
| Plaagbeheer (trekker) / Pest control (tractor) | 60 - 75 | |
| Somerloofaksie / Summer foliage action | 230 - 320 | |
| Skoffel / Hand cultivate | 25 - 40 | |

Minimum loon / Minimum wage

Minimumloonkoers vanaf 1 Maart 2015 tot 29 Februarie 2016 is soos volg:

The minimum wage from 1 March 2015 until 29 February 2016 is as follows:

| | |
|---------------------------------|---------------------------------|
| Uurlikse loon / Hourly wage | R13.37 per uur / per hour |
| Daaglike loon / Daily wage | R120.32 per dag / per day |
| Weeklikse loon / Weekly wage | R601.61 per week |
| Maandelikse loon / Monthly wage | R2 606.78 per maand / per month |

Vestigingskoste / Establishment cost

Die vestiging van wingerd is 'n langtermyn, kapitaal-intensieve besluit waarmee die produsent vir meer as 20 jaar moet saamleef. Dit is dus krities dat alle aspekte rondom so 'n besluit deeglik besin moet word alvorens dit geneem of uitgevoer word.

The establishment of vineyard is a long-term, capital-intensive decision, which will have an effect on the producer for the next 20 years or more. It is therefore critical that all aspects surrounding the matter are thoroughly considered before the decision is made or implemented.

Grondvoorbereiding / Soil preparation

Dit is wenslik om die volgende prosedures te volg ten einde 'n eenmalige, korrekte voorbereiding vir die meerjarige wingerd daar te stel.

(In samewerking met Braham Oberholzer, VinPro grondkundige).

Grondontledings

Chemiese regstellings, soos die uitstrooi van die regte hoeveelheid kalk vir die regstel van die grond se pH en fosforstatus, gaan gepaard met grondvoorbereiding. In die meeste gevalle lei grond wat bekalk is tot 'n pH van 6 tot 'n betekenisvolle verhoging in wortelmassas van onderstokke.

Grondprofiel-inspeksie

Die maak van profielgate vir grondklassifikasie is nodig sodat beoordeel kan word watter bewerkingsmetode nodig sal wees. Grondverskuiwingsmaatskappye werk vandag baie nou saam met grondkundiges en dring dikwels aan by produsente dat grondkundiges eers gronde moet besigtig of klassifiseer. Netjiese profielgate wat strek tot 1 500 mm en selfs dieper bied goeie aanwysers vir besluitneming.

The following procedures are recommended to ensure once-off, correct soil preparation for the perennial grapevine.

(In collaboration with Braham Oberholzer, VinPro soil scientist).

Soil analyses

Chemical adjustments such as the application of the right amount of lime to adjust the soil's pH and phosphorus status, go hand in hand with soil preparation. In most instances soil that had been limed to a pH of 6 led to a significant increase in the root mass of rootstocks.

Soil profile inspection

It is necessary to create profile pits for soil classification, in order to determine the required cultivation method. Nowadays there is excellent collaboration between earthmovers and soil scientists, the former often urging producers to have a soil scientist view or classify the soil beforehand. Neat profile pits up to a depth of 1 500 mm and deeper are very good indicators in decision-making.

Implementkeuse / Implement selection

Wieltrekkers is lankal nie meer die oplossing vir diep grondbewerking nie, omdat kontak met die grondoppervlak te min is, genoegsame krag op die grond ontbreek en die wielgrip moontlik grondkompaksië bevorder. Kruipbrekkers is die enigste kragbron wat suksesvol gebruik kan word, aangesien dit meer krag na die grond verplaas met minder kompaksië weens groter kontak tussen die rusperbande en die grondoppervlak.

Tipe vermening

Tans is die gebruik van sloopgrawers, bekend as spitdol, 'n gemaklike opsie om te oorweeg. Daar is egter min gronde wat uitstekend gepas is tot die gebruik van die spitdol; daarom word groot masjiene eerder aanbeveel. Indien lae voorkom, weens onder andere drastiese tekstuurskille (dupleksgronde), moet versigtig omgegaan word met 'n sloopgrawer wat lae vermening, en sal 'n skuifmengdol wat lae in posisie hou, beter gepas wees.

'n Skeurploeg en skuifmengdol se aanvoorwydte – die wydte tussen die implement se skare – moet ook voor die tyd bepaal word, hoofsaaklik weens koste-implikasies en die nodigheid daarvan. Indien groot lense onversteurde grond tussen die aanvoorwydtes vermy wil word, sal hierdie keuse ordeelkundig gemaak moet word. Die lense kan gewoonlik met 'n kruisaksie verklein word. Indien daar tot dieptes van 900 mm bewerk word, moet die aanvoer twee-derdes opneem – dus 600 mm.

Tydperk van grondvoorbereiding

Die tydperk van grondvoorbereiding is baie belangrik. In té droë grond sal groot kluite, veral op die oppervlakte, breek wat 'n ongewenste situasie skep wanneer ingewerk word met dolaksies. Die grondklimaat is byvoorbeeld geskik vir bewerking wanneer 'n balletjie grond gerol kan word en met geringe druk uitmekaa kan val. Klimaat en kalkbehoefte sal dan bepaal of die grond gekruisdol moet word of anders net 'n enkele aksie sal benodig. Die vorming van groot kluite kan beperk word deur benetting van die grond vir vier ure met sprinkelbesproeiing in die orde van ± 25 mm water en 'n toelating van 48 - 72 uur daarna vir uitdroging.

Implement selection

Tractors are no longer suitable for deep soil preparation, as their soil surface contact is insufficient, there is not sufficient power available on the soil and if used, slipping wheels could add to soil compaction. Bulldozers are the only source of power that can be used successfully, as they displace more power to the soil with less compaction due to the larger contact area of the caterpillar tyres on the soil's surface.

Type of mix

Currently the use of digger loaders, known as "spit" delve, is a good option to consider. However, there are not many soils that are totally suited to the use of the "spit" delve; therefore large machines are preferred. If layers occur due to, inter alia, drastic differences in texture (duplex soils), a digger loader should be used with caution, since it mixes layers, and one would prefer a finger mix delve plough, which keeps layers in position.

The furrow width – the width between the plough-shares – of a ripper and finger mix delve plough needs to be determined well in advance, mainly due to cost implications and the necessity thereof. If you want to avoid large lenses of undisturbed soil between the furrow widths, this will have to be a carefully considered decision. Lenses can usually be reduced with a cross action. If vines are planted up to a depth of 900 mm, the furrow should be take up two-thirds – in other words 600 mm.

Period of soil preparation

The period of soil preparation is of utmost importance. In excessively dry soils, large clods will break, especially on the surface, which creates an undesirable situation when the soil is trenched. The soil climate is, for example, most optimal for cultivation when a ball of soil can be rolled and falls apart with the slightest of pressure. Climate and lime requirements will determine whether the soil should be cross-delved or alternatively require a single action. The formation of large clods can be limited if the soil is wetted for four hours with sprinkler irrigation at ± 25 mm water, followed by a drying period of 48 - 72 hours.

Opsomming

Die volgende moet in gedagte gehou word:

- Oormatige bewerking kan lei tot struktuurvernietiging en die grond, wanneer droog, sal tot poeierstof bewerk wees.
- Té wye aanvoorwydtes lei tot swak vermenging met groot onaangeraakte grondbanke/lense.
- Die bewerksrigting moet korrek gekies word met die oog op ondergrondse dreinering.
- Die grondklimaat moet korrek wees – 'n té droë klimaat lei tot groot kluite en 'n té nat klimaat smeer die ondergrond.

Gereeld evaluering van grondvoorbereiding is onontbeerlik. Profielgate moet gereeld gemaak word (hou sloopgrawer byderhand), sodat vordering en kwaliteit deur kundiges beoordeel kan word.

Die koste van grondvoorbereiding

Die moontlike kostes van verskillende grondvoorbereidingsaksies word in die volgende tabel opgesom. Let wel dat hierdie slegs riglyne is en dat die kostes sal wissel afhangende van grondtipe, implement-tipe en die spesifieke aksies wat deur die produsent verlang word. Die produsent moet verder self vervoerkostes in berekening bring volgens sy/haar eie situasie.

| TIPE BEWERKING TYPE OF ACTION | DROË KOSTE DRY COSTS (R/Ha) | | DIESELVERBRIUK DIESEL USAGE | |
|---|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| | Caterpillar D8 / Komatsu D155 | Caterpillar D9 / Komatsu D275 | Caterpillar D8 / Komatsu D155 | Caterpillar D9 / Komatsu D275 |
| Rip maklike grond (wye aanvoorwydtes) Rip easy soil (wide furrow width) | R6 300 | R7 350 | 37% | 45% |
| Rip moeilike grond (nou aanvoorwydtes) Rip difficult terrain and soil (narrow furrow widths) | R8 400 | R9 450 | 48% | 62% |
| Rip en kruis maklike grond (wye aanvoorwydtes) Rip and cross easy soil (wide furrow width) | R10 500 | R14 700 | 44% | 40% |
| Rip en kruis moeilike grond (nou aanvoorwydtes) Rip and cross difficult terrain and soil (narrow furrow width) | R14 700 | R19 950 | 43% | 40% |
| Diep meng- en skuifdolploeg (sonder rip) Deep mix and delve plough (without rip) | R14 175 | R17 325 | 44% | 40% |
| Rip en kruisdol (nou aanvoorwydte) Rip and cross delve (narrow furrow width) | R16 800 | R23 100 | 45% | 40% |
| Enkeltoon rip en 3 toon kruis-mengrip Single blade rip and 3 blade cross-mix rip | R7 875 | R6 300 | 50% | 55% |
| Spitdol vol oppervlakte (25 ton sloopgrawer) Spit delve full area (25 ton excavator) | | R17 850/ha | | 35% |
| Spitdol net op rye en opert (25 ton sloopgrawer) Spit delve only on rows and ridging (25 ton excavator) | | R9 450/ha | | 40% |
| Rye opert met bulldozer (D5-D6 Cat) Ridging of rows with bulldozer (D5-D6 Cat) | | R4 200/ha | | 26% |
| Oribossing (D8 Cat) Deforestation (D8 Cat) | | R4 200 - 6 300/ha | | 30% |
| Wingerd uitrip met vlerk (D8 Cat) Remove vines with wing (D8 Cat) | | R3 150/ha | | 40% |
| Sloopgrawer (CAT 22 ton) – werktempo afhangend van grondtipe Diggerloader (Cat 22 ton) – work tempo dependent on soil type | | R525/h | | 45/h |

Summary

The following should be kept in mind at all times:

- Excessive tillage can result in destruction of the structure and the soil, when dry, will have been tilled to a powdery matter.
- Excessively wide furrow widths result in poor mixing with large untouched soil banks/lenses.
- Cultivation row should be selected correctly with a view to drain the subsoil.
- The soil climate should be correct – a too dry climate will lead to large clods and a too wet climate will smear the subsoil.

Regular evaluation of soil preparation is essential. That means creating regular profile pits (keep trencher handy), so that progress and quality may be judged by the experts.

Cost of soil preparation

The potential costs of certain soil preparation actions are summarised in the following table. Please note that these are only guidelines and that the actual costs will differ depending on soil type, implement type and the specific actions required by the producer. Furthermore, the producer must calculate the transport cost according to his/her own situation.

Koste van prieelstelsels / Cost of trellis systems

Die koste van prieelstelsels word bereken deur die nuutste pryse (BTW uitgesluit) vanaf verskeie verskaffers van pale, draad en ander materiaal te verkry. Die gemiddelde pryse word in 'n teoretiese model ingevoeg om die koste van verskillende prieelstelsels met verskillende paallengtes, paalspasierings, ens te bepaal. Dit bly dus teoretiese bedrae en kan van werklike kostes verskil. Vir 'n meer akkurate kosteberekening van prieelstelselkoste, kontak die samestellers.

Vir vertikale prieelstelsels is die pale in 6 m-vakte geplant en vir die alternatiewe stelsels is die vakke 7.5 m. Kontak die samestellers gerus om u unieke prieelstelselkoste te bepaal met verskillende vaklengtes, paallengtes en -diktes.

The cost of a trellis system is calculated by obtaining the latest prices (VAT excluded) for the poles, wire and other materials from a number of suppliers. These prices are entered into a theoretical model to calculate the cost of various trellis systems with different pole lengths, pole spacings, etc. These are therefore theoretical costs and may differ from actual costs. For a more accurate cost calculation of different trellis systems, please contact the compilers.

For the vertical trellis systems a pole spacing of 6 m is used and 7.5 m for alternative trellis systems. Feel free to contact the compilers to calculate your unique trellis system cost with different pole types and spacing.

| ALTERNATIEWE PRIEELSTELSELS / ALTERNATIVE TRELLIS SYSTEMS | | | | | | |
|---|-------------------|--------------------------------|--------|--------|--------|--------|
| Type stelsel Type of system | Paal Pole | Ryspasiëring / Row spacing (m) | | | | |
| | | 2.1 | 2.5 | 2.75 | 3 | 3.3 |
| Skuinskap – 1.5 m kappaal Slanting trellis – 1.5 m slanting pole | 2.4 m (50 - 75) | – | – | 50 040 | 44 662 | 40 614 |
| Skuinskap – 1.8 m kappaal Slanting trellis – 1.8 m slanting pole | 2.4 m (50 - 75) | – | – | 58 652 | 53 775 | 48 898 |
| Gewelstelsel – 2.1 m paal Gable system – 2.1 m pole | 2.1 m (75 - 100) | – | – | 88 374 | 81 228 | 73 793 |
| Fabrieksdak – 2.1 m paal Factory roof – 2.1 m pole | 2.1 m (75 - 100) | – | – | 69 926 | 63 497 | 59 438 |
| U-stelsel U-system | 2.1 m (75 - 100) | – | – | | 82 801 | 73 291 |
| Draadgewel Wire gable | 2.1 m (50 - 75) | – | – | 59 393 | | |
| Lierstelsel Lyre system | 2.4 m (100 - 125) | – | – | – | 99 395 | – |
| Scott Henry | 2.7 m (75 - 100) | 65 592 | 55 865 | 50 284 | 46 105 | 41 925 |
| Grobbaal | 2.1 m (75 - 100) | | 76 385 | 70 684 | 64 983 | 62 211 |
| T-kap T-system | 2.4 m (75 - 100) | | 68 911 | 63 770 | 58 628 | 56 127 |

Daar mag soms verwarring voorkom tussen die benamings en konstruksies van verskillende vertikale prieelstelsels. Ten einde enige verwarring uit te skakel word 'n skematiese voorstelling van die stelsels voorsien met die voorgestelde benamings en afkortings.

There may be some confusion regarding the names and constructions of different vertical trellis systems. To eliminate any confusion, a schematic representation of the systems is provided, with their names and abbreviations.

| VERTIKALE PRIEELSTELSELS / VERTICAL TRELLIS SYSTEMS | | | | | | | | | | |
|---|--------------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| Prieelstelsel / Trellis system | Binne Paal Inner Pole | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 |
| Eendraad heining One strand hedge | 1.2 m (50 - 75) | 22 866 | 21 620 | 20 795 | 19 548 | 18 723 | 17 881 | 17 056 | 16 635 | 15 810 |
| Tweedraad heining Two strand hedge | 1.2 m (50 - 75) | 24 682 | 23 336 | 22 445 | 21 100 | 20 209 | 19 301 | 18 410 | 17 956 | 17 065 |
| Driedraad heining Three strand hedge | 2.1 m (75 - 100) | 66 754 | 63 115 | 60 707 | 57 067 | 54 659 | 52 196 | 49 788 | 48 556 | 46 148 |
| Vierdraad heining Four strand hedge | 2.1 m (75 - 100) | 68 570 | 64 831 | 62 358 | 58 619 | 56 145 | 53 615 | 51 142 | 49 877 | 47 403 |
| Vydraad heining Five strand hedge | 2.4 m (50 - 75) | 58 064 | 54 903 | 52 808 | 49 646 | 47 551 | 45 418 | 43 323 | 42 257 | 40 162 |
| Perold | 1.8 m (100 - 125) | 71 752 | 67 839 | 65 251 | 61 339 | 58 751 | 56 102 | 53 514 | 52 189 | 49 602 |
| Dubbel Perold Double Perold | 1.8 m (100 - 125) | 74 460 | 70 399 | 67 713 | 63 653 | 60 967 | 58 219 | 55 533 | 54 159 | 51 473 |
| Skuithare Perold Movable Perold | 2.1 m (100 - 125) | 83 884 | 79 309 | 76 284 | 71 709 | 68 684 | 65 585 | 62 560 | 61 011 | 57 985 |
| Vierdraad verlengde Perold Four strand extended Perold | 2.1 m (125 - 150) | 104 955 | 99 230 | 95 447 | 89 722 | 85 939 | 82 055 | 78 272 | 76 330 | 72 547 |
| Vierdraad verlengde Perold Five strand extended Perold | 2.1 m (125 - 150) | 103 806 | 98 145 | 94 405 | 88 745 | 85 006 | 81 164 | 77 424 | 75 503 | 71 763 |
| Vierdraad skuithare verlengde Perold Movable five strand extended Perold | 2.1 m (100 - 125) | 84 840 | 80 215 | 77 156 | 72 531 | 69 472 | 66 340 | 63 281 | 61 715 | 58 656 |
| Sesdraad verlengde Perold Six strand extended Perold | 2.4 m (100 - 125) | 94 512 | 89 359 | 85 852 | 80 799 | 77 392 | 73 900 | 70 483 | 68 747 | 65 340 |
| Vydraad verlengde dubbel Perold Five strand extended double Perold | 2.1 m (100 - 125) | 85 732 | 81 058 | 77 967 | 73 293 | 70 202 | 67 037 | 63 946 | 62 364 | 59 272 |
| Sesdraad dubbel verlengde Perold Six strand double extended Perold | 2.4 m (100 - 125) | 98 112 | 92 763 | 89 226 | 83 876 | 80 338 | 76 715 | 73 177 | 71 365 | 67 828 |
| Vydraad dubbel verlengde Perold Five strand double extended Perold | 2.4 m (100 - 125) | 96 297 | 91 046 | 87 575 | 82 324 | 78 853 | 75 295 | 71 824 | 70 045 | 66 573 |
| Sesdraad verlengde dubbel Perold Six strand extended double Perold | 2.4 m (100 - 125) | 99 005 | 93 607 | 90 036 | 84 638 | 81 068 | 77 412 | 73 842 | 72 014 | 68 444 |
| Sesdraad verlengde dubbel Perold Seven strand extended double Perold | 2.7 m (100 - 125) | 112 823 | 106 671 | 102 602 | 96 450 | 92 381 | 88 214 | 84 145 | 82 062 | 77 993 |
| Sesdraad dubbel verlengde Perold Seven strand double extended Perold | 2.7 m (100 - 125) | 111 931 | 105 827 | 101 791 | 95 687 | 91 651 | 87 516 | 83 480 | 81 413 | 77 376 |
| Smart Dyson | 2.4 m (100 - 125) | – | – | – | – | – | – | 73 177 | 71 365 | 67 828 |
| Meganese stelsel (High Wire) Mechanical trellis (High Wire) | 1.8 m (100 - 125) | – | – | – | – | – | – | 48 967 | 47 753 | 45 388 |

PRIEELSTELSENS / TRELLIS SYSTEMS

Kordondraad/
Cordon wire Loofdraad/
Canopy wire

BOSSTOK (GOBLET)
BUSH VINE



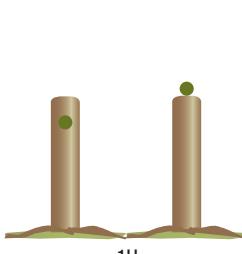
BOS / BV

STOK-BY-PAALTJE
POSTED VINE



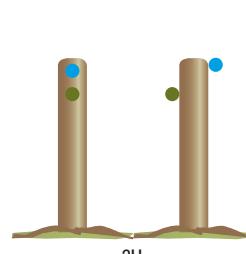
SBP / PV

EENDRAAD HEINING
ONE-STRAND HEDGE



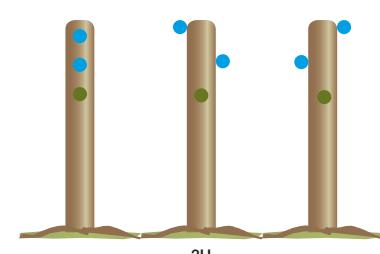
1H

TWEEDRAAD HEINING
TWO-STRAND HEDGE



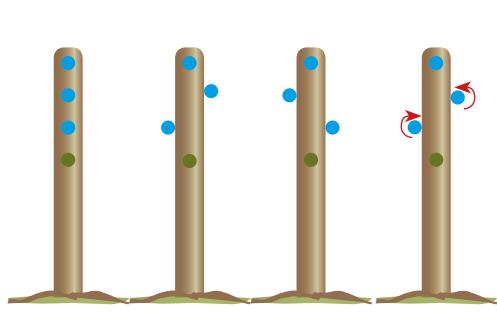
2H

DRIEDRAAD HEINING
THREE-STRAND HEDGE



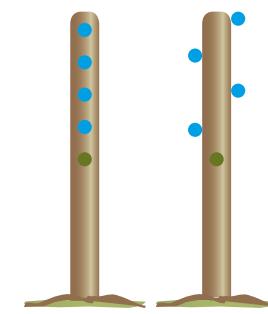
3H

VIERDRAAD HEINING
FOUR-STRAND HEDGE



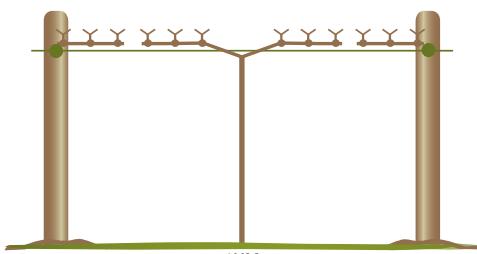
4H

VYFDRAAD HEINING
FIVE-STRAND HEDGE



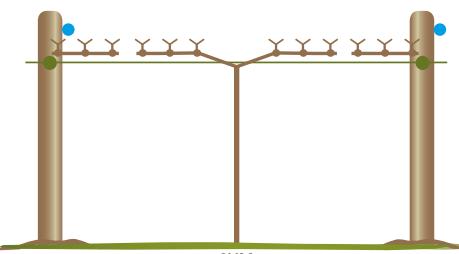
5H

EENDRAAD HEINING (MEGANIES SNOE)
ONE-STRAND HEDGE (MECHANICAL PRUNING) "HIGH WIRE"



1HM

TWEEDRAAD HEINING (MEGANIES SNOE)
TWO-STRAND HEDGE (MECHANICAL PRUNING)

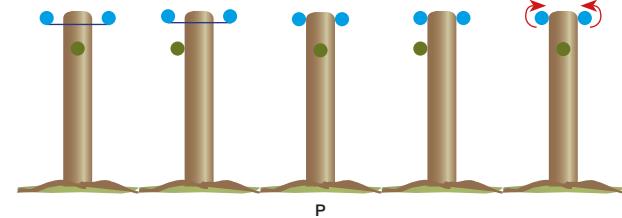


2HM

KORDONDRAAD/
CORDON WIRE

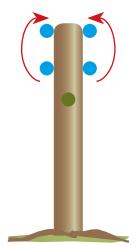
LOOFDRAAD/
CANOPY WIRE

PEROLD



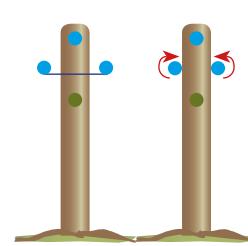
P

SKUIFBARE PEROLD
MOVEABLE PEROLD



SP / MP

VIERDRAAD VERLENGDE PEROLD
FOUR-STRAND LENGTHENED PEROLD



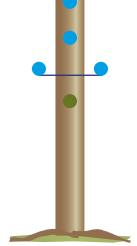
4VP / 4LP

OMGEKEERDE VERLENGDE PEROLD
INVERTED LENGTHENED PEROLD



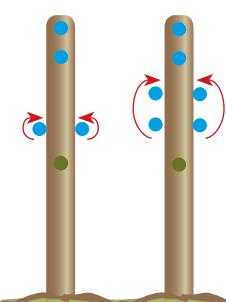
OVP / ILP

VYFDRAAD VERLENGDE PEROLD
FIVE-STRAND LENGTHENED PEROLD



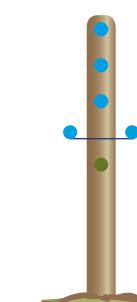
5VP / 5LP

SKUIFBARE VYFDRAAD VERLENGDE
PEROLD
MOVEABLE FIVE-STRAND LENGTHENED
PEROLD



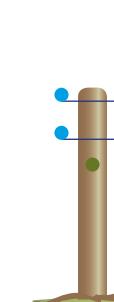
S5VP / M5LP

SESDRAAD VERLENGDE PEROLD
SIX-STRAND LENGTHENED
PEROLD



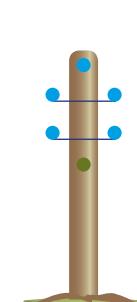
6VP / 6LP

VYFDRAAD DUBBEL VERLENGDE
PEROLD
FIVE-STRAND DOUBLE LENGTHENED
PEROLD



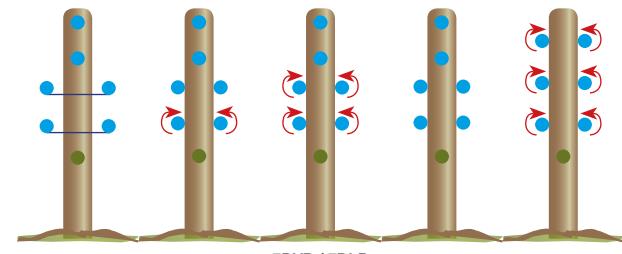
5DVP / 5DLP

SESDRAAD DUBBEL VERLENGDE
PEROLD
SIX-STRAND DOUBLE LENGTHENED
PEROLD



6DVP / 6DLP

SEWEDRAAD DUBBEL VERLENGDE PEROLD
SEVEN-STRAND DOUBLE LENGTHENED PEROLD



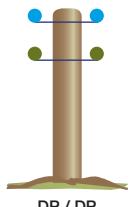
7DVP / 7DLP

PRIEELSTELSELS / TRELLIS SYSTEMS

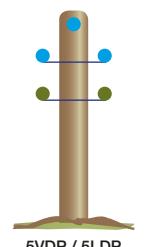
Kordondraad/
Cordon wire

Loofdraad/
Canopy wire

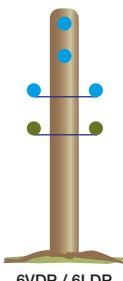
DUBBEL PEROLD
DOUBLE PEROLD



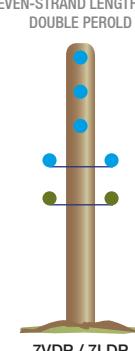
VYFDRAAD VERLENGDE
DUBBEL PEROLD
FIVE-STRAND LENGTHENED
DOUBLE PEROLD



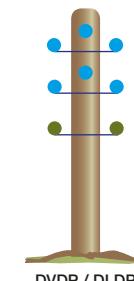
SESDRAAD VERLENGDE
DUBBEL PEROLD
SIX-STRAND LENGTHENED
DOUBLE PEROLD



SEWEDRAAD VERLENGDE
DUBBEL PEROLD
SEVEN-STRAND LENGTHENED
DOUBLE PEROLD



DUBBEL VERLENGDE
DUBBEL PEROLD
DOUBLE LENGTHENED
DOUBLE PEROLD



DP / DP

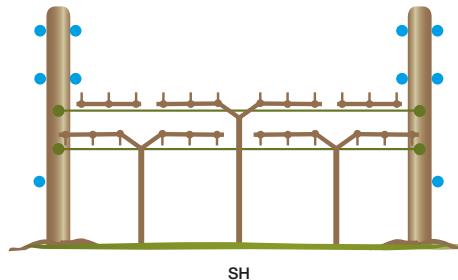
5VDP / 5LDP

6VDP / 6LDP

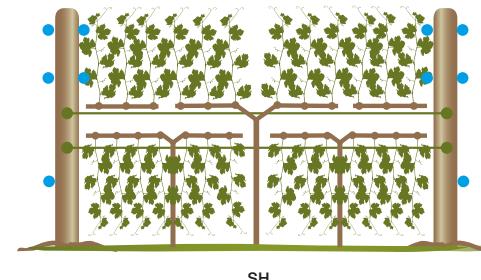
7VDP / 7LDP

DVDP / DLDP

SCOTT-HENRY
SCOTT-HENRY

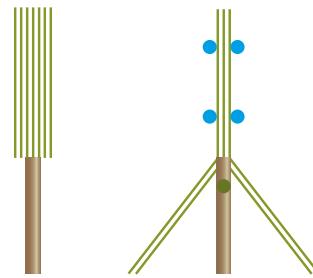


SH



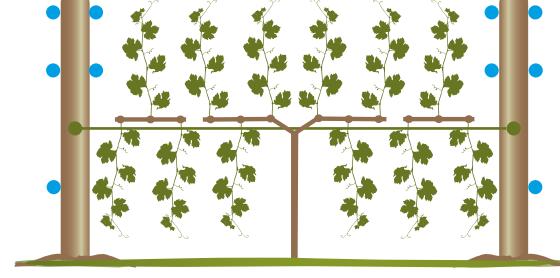
SH

BALLETROK
BALLERINA



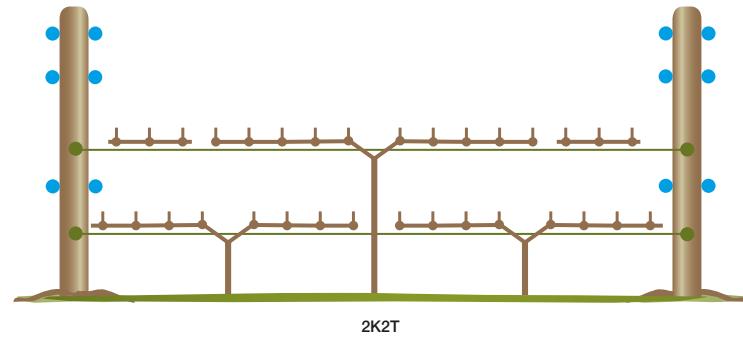
BAL

SMART-DYSON
SMART-DYSON



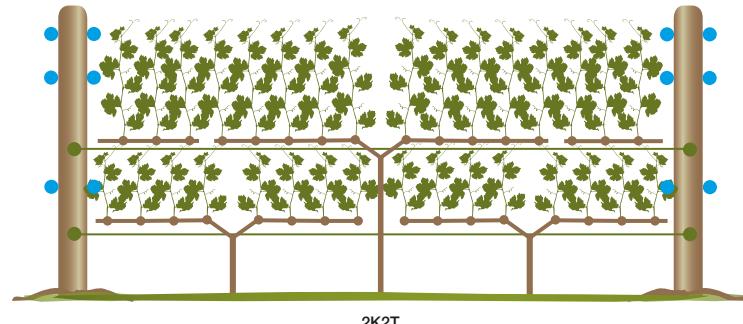
SD

RUAKURA DUBBEL VLAK PRIEEL
RUAKURA TWO TIER TRELLIS



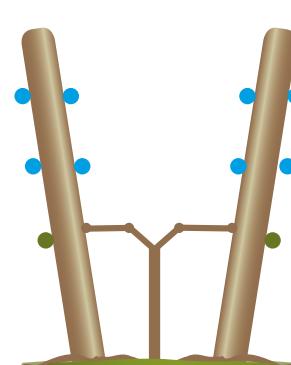
2K2T

RUAKURA DUBBEL VLAK PRIEEL
RUAKURA TWO TIER TRELLIS

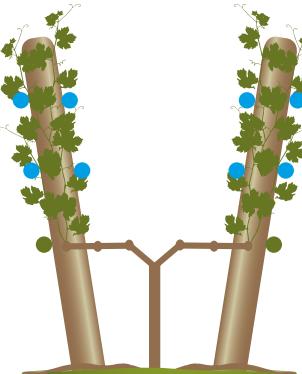


2K2T

LIER-STELSEL
LYRE TRELLIS



LYR

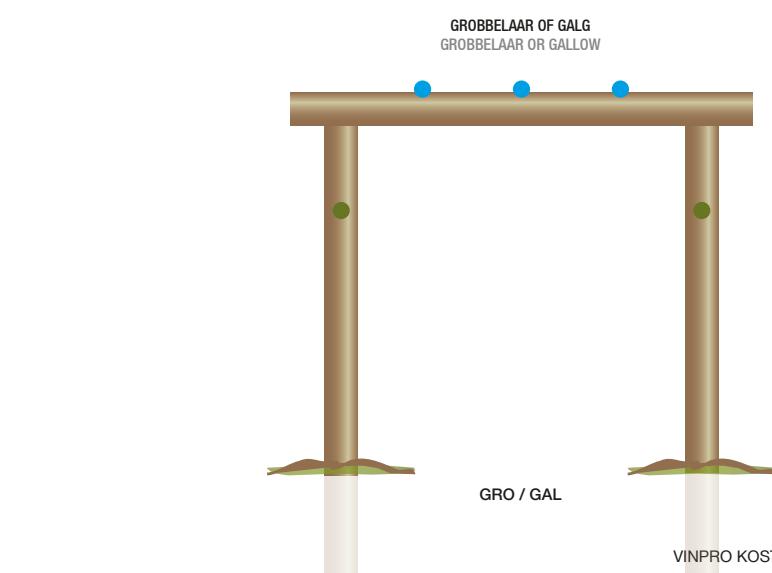
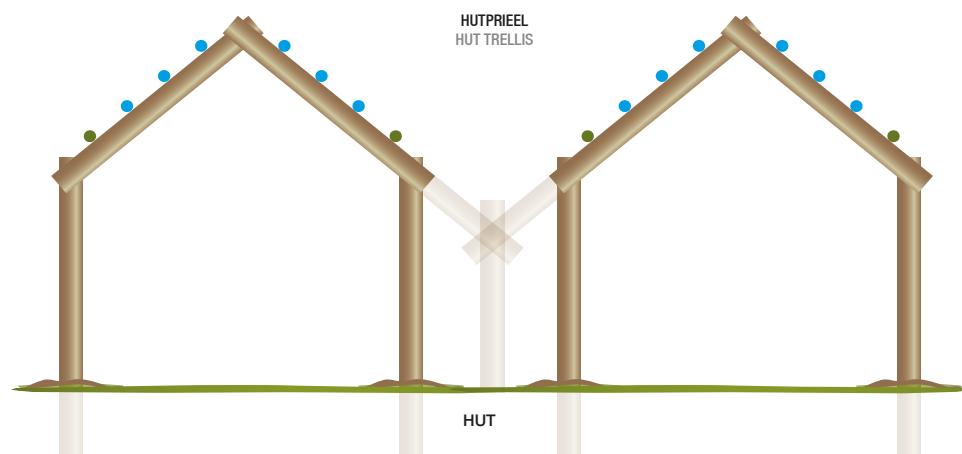
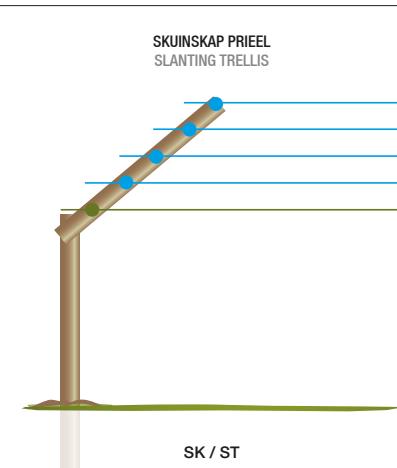
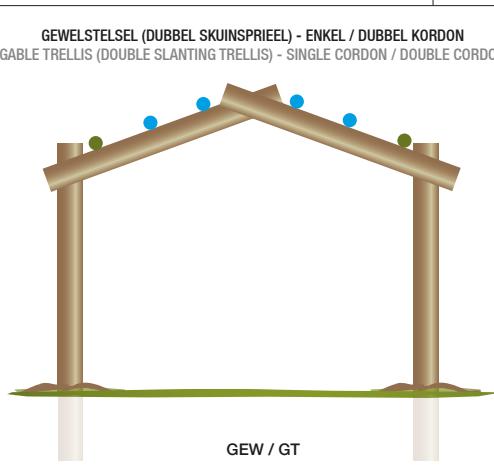
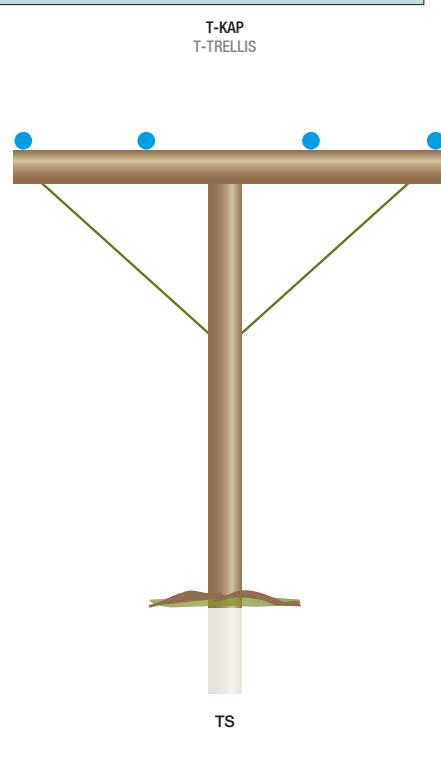
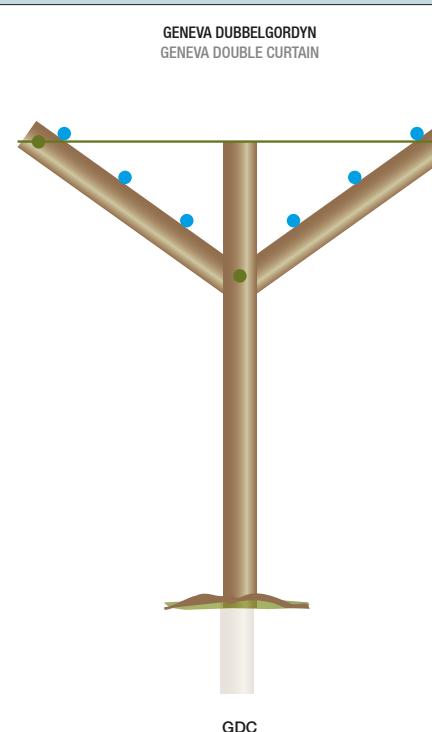
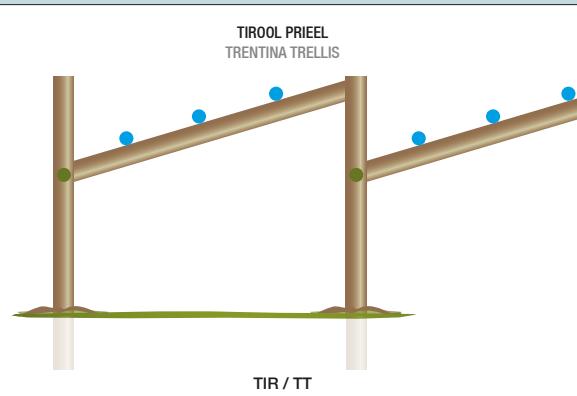
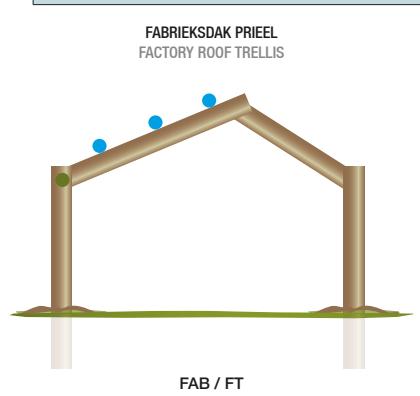


Saamgestel in
samewerking met


PRIEELSTELSENS / TRELLIS SYSTEMS

Kordondraad/
Cordon wire

Loofdraad/
Canopy wire



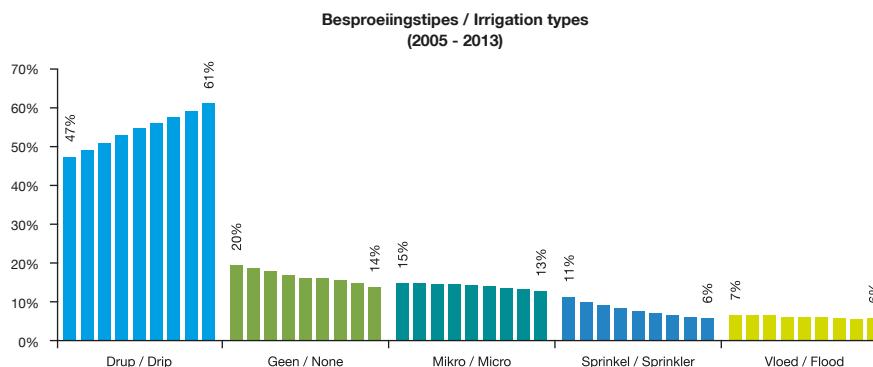
Besproeiing / Irrigation

Ongeveer 61% van die totale wyndruif wingerdstand van Suid-Afrika word tans deur middel van drupbesproeiing besproei. Ander vorme van besproeiing (droëland ingesluit) het drasties afgeneem sedert 2005.

Die koste van verskillende besproeiingstelsels word saamgevat in die meegaande tabel. Hierdie algemene riglyne sluit slegs die bograndse materiaal en sublyne – wat sal wissel na gelang van verskillende blokuitlegte – in die blok in.

Approximately 61% of the total area under wine grape vineyards in South Africa currently receives drip irrigation. Other forms of irrigation (dryland included) have decreased drastically since 2005.

The cost of various irrigation systems are seen in the accompanying table. These general guidelines only include the material installed above the soil, as well as sub-pipelines – which will differ according to various block layouts – in the block.



KOSTE VAN BESPROEIINGSTELSELS / COST OF IRRIGATION SYSTEMS

| Stelsel / System | Ryspasiëring / Row spacing (m) | | | | | | | | | | | |
|---|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 | 2.75 | 3.00 | 3.30 |
| Drup 0.6 m Gekompenseerd Drip 0.6 m Compensated | 37 575 | 35 525 | 34 159 | 32 109 | 30 743 | 29 377 | 28 010 | 27 327 | 25 961 | 24 594 | 22 545 | 20 495 |
| Drup 0.6 m Nie-gekompenseerd Drip 0.6 m Non-compensated | 26 208 | 24 778 | 23 825 | 22 396 | 21 443 | 20 490 | 19 537 | 19 060 | 18 107 | 17 154 | 15 725 | 14 295 |
| Drup 0.75 m Gekompenseerd Drip 0.75 m Compensated | 33 807 | 31 963 | 30 733 | 28 889 | 27 660 | 26 431 | 25 201 | 24 587 | 23 357 | 22 128 | 20 284 | 18 440 |
| Drup 0.75 m Nie-gekompenseerd Drip 0.75 m Non-compensated | 24 382 | 23 052 | 22 165 | 20 835 | 19 949 | 19 062 | 18 175 | 17 732 | 16 846 | 15 959 | 14 629 | 13 299 |
| Drup 1.0 m Gekompenseerd Drip 1.0 m Compensated | 30 038 | 28 400 | 27 308 | 25 669 | 24 577 | 23 485 | 22 392 | 21 846 | 20 754 | 19 662 | 18 023 | 16 385 |
| Drup 1.0 m Nie-gekompenseerd Drip 1.0 m Non-compensated | 23 469 | 22 188 | 21 335 | 20 055 | 19 202 | 18 348 | 17 495 | 17 068 | 16 215 | 15 361 | 14 081 | 12 801 |
| Mikro (straalspuit) – direk op poli-pyp Micro (jet spray) – directly on poly-pipe | 36 903 | 34 890 | 33 548 | 31 535 | 30 193 | 28 852 | 27 510 | 26 839 | 25 497 | 24 155 | 22 142 | 20 129 |
| Mikro (roteerdeer) – op pen met sagte pypie Micro (rotate) – on pen with soft pipe | 42 507 | 40 188 | 38 642 | 36 324 | 34 778 | 33 232 | 31 687 | 30 914 | 29 368 | 27 822 | 25 504 | 23 185 |
| Permanente sprinkel (12 m x 12.5 m) Permanent sprinklers (12 m x 12.5 m) | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 | 23 272 |

Ander nuttige inligting / Other useful information

| Plantafstand in ry (m) Plant distance in row (m) | Ryspasiëring / Row spacing (m) | | | | | | | | | |
|---|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1.80 | 1.90 | 2.00 | 2.10 | 2.40 | 2.50 | 2.75 | 2.80 | 3.00 | 3.30 |
| 1.00 | 5 500 | 5 200 | 5 000 | 4 700 | 4 100 | 4 000 | 3 600 | 3 500 | 3 300 | 3 000 |
| 1.20 | 4 583 | 4 333 | 4 167 | 3 917 | 3 417 | 3 333 | 3 000 | 2 917 | 2 750 | 2 500 |
| 1.50 | 3 667 | 3 467 | 3 333 | 3 133 | 2 733 | 2 667 | 2 400 | 2 333 | 2 200 | 2 000 |
| 1.80 | 3 056 | 2 889 | 2 778 | 2 611 | 2 278 | 2 222 | 2 000 | 1 944 | 1 833 | 1 667 |
| 2.00 | 2 750 | 2 600 | 2 500 | 2 350 | 2 050 | 2 000 | 1 800 | 1 750 | 1 650 | 1 500 |

| Ryspasiëring (m) Row spacing (m) | Aantal rye/ha Rows/ha |
|-------------------------------------|--------------------------|
| 1.80 | 55 |
| 1.90 | 52 |
| 2.00 | 50 |
| 2.10 | 47 |
| 2.40 | 41 |
| 2.50 | 40 |
| 2.75 | 36 |
| 2.80 | 35 |
| 3.00 | 33 |
| 3.30 | 30 |

| STOKKIEPRYSE (SLEGS RIGLYNE) / VINE PRICES (ONLY GUIDELINES) | (Per stokkie / Per vine) |
|--|-----------------------------|
| Standaard wit en rooi op P1103, R110, R99 Standard white and red on P1103, R110, R99 | R11,79 |
| Standaard wit en rooi op 101-14, SO4, Rug140 Standard white and red on 101-14, SO4, Rug140 | R11,90 |
| Colombar, Chardonnay, Sémillon, SA Riesling, Shiraz, Pinot Noir, Muscadel op Ramsey, 101/14 Colombar, Chardonnay, Sémillon, SA Riesling, Shiraz, Pinot Noir, Muscadel on Ramsey, 101/14 | R13,76 |
| Standaard wit en rooi op Ramsey, 143B Standard white and red on Ramsey, 143B | R13,65 |
| Standaard wit en rooi op USB8-7 Standard white and red on US8-7 | R13,76 |
| Sultana op Ramsey Sultana on Ramsey | R19,11 |
| Makstok Rooted scion | R8,95 |

Koste van mechanisasie / Cost of mechanisation

Hierdie kosteriglyne help produsente om die loopkostes van sekere wingerdmaasjinerie te bepaal. Dit kan ook gebruik word om te bepaal of sekere implemente vervang moet word al dan nie.

Die besit en gebruik van enige implement gaan gepaard met 'n koste. Hierdie koste bestaan uit twee komponente, naamlik veranderlike koste en vaste koste. Die vaste koste bly onveranderd, of die masjien gebruik word al dan nie. Vaste koste sluit rente (geleenheidskoste), waardevermindering, versekerings en lisensiëring in.

Die veranderlike koste word bepaal deur die aantal ure wat die masjien/implement gebruik word deur die jaar. Dit sluit brandstof, herstelwerk, onderhoud en bande in.

These guidelines assist producers in determining the running costs of specific vineyard machinery. It can also be used to determine whether implements need to be replaced.

The ownership and use of any implement or machine involves a cost to the producer. This cost consists of two components, namely fixed cost and variable cost. The fixed cost relates to ownership of the machine, whether it is used or not. This includes depreciation, licensing and insurance, as well as an interest component (opportunity cost).

The variable cost is mainly determined by the total number of hours the implement is used throughout the year. This includes fuel, repair, maintenance and tyres.

Metodiek / Methodology

Die onmoontlik om die loopkoste 100% akkuur te bepaal, maar die volgende metodiek word redelik algemeen gebruik. Dit sluit sekere aanname in wat in samewerking met handelaars aangepas is en die loopkoste meer toepaslik maak tot die wynbedryf.

Operateurs word nie in berekening gebring nie en produsente moet self daardie komponent bybring. Alle kostes is uitgedruk in rand per uur (uitgesluit bakkies en vragmotors). Indien die koste per hektaar benodig word, kan die volgende formule gebruik word:

$$\text{rand per hektaar} = \frac{(\text{koste in rand per uur})}{(\text{hoeveelheid hektaar per uur bewerk})}$$

It is not possible to calculate the running cost of implements 100% accurately; however the following methodology is commonly used. It includes certain assumptions which have been modified, in collaboration with dealerships, to be more suited to the wine industry.

Operators are not included in the running cost and should be included by producers. All costs are in rand per hour (except trucks and pickups). If the cost per hectare is required, the following equation can be used:

$$\text{rand per hektaar} = \frac{(\text{cost in rand per hour})}{(\text{hectares per hour cultivated})}$$

| | |
|--|--|
| Waardevermindering: Depreciation: | (Aankoopwaarde – skrootwaarde) ÷ leeftyd (Purchase value – salvage value) ÷ lifetime |
| Versekerings & lisensie: Licence & insurance: | 1 % van gemiddelde belegging ÷ ure per jaar 1 % of average investment ÷ hours per annum |
| Rentekoste: Interest cost: | 8 % van gemiddelde belegging 8 % of average investment |
| Herstel & onderhoud: Repair & maintenance: | Spesifieke % van aankoopprys ÷ leeftyd Specific % of purchase value ÷ lifetime |
| Brandstof: Fuel: | Bereken met dieselprys van R13,00 Calculated with diesel price of R13,00 |

| 4 X 2 TREKKER / TRACTOR | | | | | | | | | | Totale loopkoste / Total running cost | | | | | | |
|-------------------------|----------|----------------------------------|-----------------------------|---|-------------------|--|---|------------------|--|---------------------------------------|---------------------------|-----|-----|-----|-----|-----|
| PK hp | kW kW | Aankoopprys Purchase value | Depreciasie Depreciation | Versekerings & lisensie Insurance & insurance | Rente Interest | Totale vaste total fixed cost | Herstel & onderhoud Repair & maintenance | Brandstof / Fuel | Totale veranderlike koste / Total variable cost | | | | | | | |
| | | | | | | | | | Lae krag R/h | Med krag Med power | Hog krag High power | R/h | R/h | | | |
| 43 | 32 | 174 903 | 13 | 1 | 9 | 23 | 12 | 58 | 66 | 75 | 70 | 77 | 87 | 93 | 100 | 109 |
| 52 | 39 | 213 163 | 16 | 1 | 11 | 28 | 14 | 71 | 80 | 91 | 85 | 94 | 105 | 113 | 122 | 133 |
| 55 | 41 | 269 412 | 20 | 1 | 13 | 35 | 18 | 75 | 84 | 96 | 93 | 102 | 114 | 128 | 137 | 149 |
| 60 | 45 | 360 258 | 27 | 2 | 18 | 47 | 24 | 82 | 92 | 105 | 106 | 116 | 129 | 153 | 163 | 176 |
| 63 | 47 | 376 270 | 28 | 2 | 19 | 49 | 25 | 86 | 96 | 110 | 111 | 121 | 135 | 160 | 170 | 184 |
| 68 | 51 | 386 638 | 25 | 2 | 17 | 44 | 22 | 93 | 104 | 119 | 115 | 127 | 142 | 159 | 171 | 186 |
| 71 | 53 | 349 840 | 26 | 2 | 17 | 45 | 23 | 96 | 109 | 124 | 120 | 132 | 147 | 165 | 177 | 193 |
| 75 | 56 | 390 350 | 29 | 2 | 19 | 51 | 26 | 102 | 115 | 131 | 128 | 141 | 157 | 179 | 191 | 208 |
| 82 | 61 | 425 203 | 32 | 2 | 21 | 55 | 28 | 111 | 125 | 143 | 139 | 153 | 171 | 195 | 209 | 226 |
| 84 | 63 | 463 981 | 36 | 3 | 24 | 63 | 32 | 115 | 129 | 147 | 147 | 161 | 180 | 210 | 224 | 243 |
| 92 | 69 | 530 075 | 40 | 3 | 26 | 69 | 35 | 126 | 141 | 161 | 177 | 197 | 230 | 246 | 266 | 286 |
| 95 | 71 | 545 439 | 41 | 3 | 27 | 71 | 36 | 129 | 145 | 166 | 166 | 182 | 203 | 236 | 253 | 273 |

4x4 TREKKER / TRACTOR

| PK hp | kW kW | Aankoopprys Purchase value | Depresiacie Depreciation | Versetking & lisenzie Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Maintenance | Brandstof / Fuel | Totale veranderlike koste / Total variable cost | | | Totale loopkoste / Total running cost | | | | |
|----------|----------|----------------------------------|-----------------------------|--|-------------------|---|---------------------------------------|------------------|--|-----------------------|------------------------|--|-----------------------|------------------------|-----|-----|
| | | | | | | | | | Lae krag Low power | Med krag Med power | Hog krag High power | Lae krag Low power | Med krag Med power | Hog krag High power | | |
| 43 | 32 | 218 338 | 16 | 1 | 11 | 28 | 15 | 58 | 66 | 75 | 73 | 80 | 89 | 101 | 108 | 118 |
| 52 | 39 | 266 099 | 20 | 1 | 13 | 35 | 18 | 71 | 80 | 91 | 89 | 98 | 109 | 123 | 132 | 144 |
| 55 | 41 | 314 735 | 24 | 2 | 16 | 41 | 21 | 75 | 84 | 96 | 96 | 105 | 117 | 137 | 146 | 158 |
| 60 | 45 | 336 219 | 25 | 2 | 17 | 44 | 22 | 82 | 92 | 105 | 104 | 115 | 128 | 148 | 158 | 171 |
| 63 | 47 | 351 162 | 26 | 2 | 17 | 46 | 23 | 86 | 96 | 110 | 109 | 120 | 133 | 155 | 165 | 179 |
| 68 | 51 | 404 079 | 30 | 2 | 20 | 53 | 27 | 93 | 104 | 119 | 120 | 131 | 146 | 172 | 184 | 199 |
| 71 | 53 | 419 926 | 31 | 2 | 21 | 55 | 28 | 96 | 109 | 124 | 124 | 137 | 152 | 179 | 191 | 207 |
| 75 | 56 | 426 719 | 32 | 2 | 21 | 55 | 28 | 102 | 115 | 131 | 130 | 143 | 159 | 186 | 199 | 215 |
| 82 | 61 | 464 819 | 35 | 3 | 23 | 60 | 31 | 111 | 125 | 143 | 142 | 156 | 174 | 202 | 216 | 234 |
| 84 | 63 | 474 752 | 36 | 3 | 24 | 62 | 32 | 115 | 129 | 147 | 146 | 161 | 179 | 208 | 222 | 241 |
| 92 | 69 | 519 966 | 39 | 3 | 26 | 68 | 35 | 126 | 141 | 161 | 160 | 176 | 196 | 228 | 244 | 264 |
| 95 | 71 | 535 038 | 40 | 3 | 26 | 70 | 36 | 129 | 145 | 166 | 165 | 181 | 202 | 234 | 251 | 271 |

| SELFAANGEDREWE PARSMASJIEN / SELF-PROPelled HARVESTER | | | | | | | | | | |
|---|---|---|--|-------------------|--|---|-------------------|---|----------------------------------|--|
| Aankoopprys / Purchase price: R3 400 000 | | | | | | | | | | |
| Tonne gepars Tons harvest | Jaarlikse gebruik Annual usage | Waarde- vermindering Depreciation | Versetking & lisenzie Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Brandstof Fuel | Veranderlike koste Variable cost | Totale koste Total cost | |
| 1 000 | 91 | 612 | 206 | 1 851 | 2 669 | 238 | 169 | 407 | 3 076 | |
| 1 250 | 114 | 612 | 165 | 1 481 | 2 258 | 238 | 169 | 407 | 2 665 | |
| 1 500 | 136 | 612 | 137 | 1 234 | 1 983 | 238 | 169 | 407 | 2 390 | |
| 1 750 | 159 | 612 | 118 | 1 058 | 1 787 | 238 | 169 | 407 | 2 194 | |
| 2 000 | 182 | 612 | 103 | 926 | 1 641 | 238 | 169 | 407 | 2 048 | |
| 2 250 | 205 | 612 | 91 | 823 | 1 526 | 238 | 169 | 407 | 1 933 | |
| 2 500 | 227 | 612 | 82 | 741 | 1 435 | 238 | 169 | 407 | 1 842 | |
| 2 750 | 250 | 612 | 75 | 673 | 1 360 | 238 | 169 | 407 | 1 767 | |
| 3 500 | 318 | 612 | 59 | 529 | 1 200 | 238 | 169 | 407 | 1 607 | |
| 4 000 | 364 | 612 | 51 | 463 | 1 126 | 238 | 169 | 407 | 1 533 | |

| SLEEP PARSMASJIEN / TRAILED HARVESTER | | | | | | | | | |
|---------------------------------------|---|---|--|-------------------|--|---|---|----------------------------------|--|
| Purchase value: R1 400 000 | | | | | | | | | |
| Tonne gepars Tons harvest | Jaarlikse gebruik Annual usage | Waarde- vermindering Depreciation | Versetking & lisenzie Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Veranderlike koste Variable cost | Totale koste Total cost | |
| 500 | 71 | 252 | 108 | 970 | 1 330 | 98 | 98 | 1 428 | |
| 750 | 107 | 252 | 72 | 647 | 971 | 98 | 98 | 1 069 | |
| 1 000 | 143 | 252 | 54 | 485 | 791 | 98 | 98 | 889 | |
| 1 250 | 179 | 252 | 43 | 388 | 683 | 98 | 98 | 781 | |
| 1 500 | 214 | 252 | 36 | 323 | 611 | 98 | 98 | 709 | |
| 1 750 | 250 | 252 | 31 | 277 | 560 | 98 | 98 | 658 | |
| 2 000 | 286 | 252 | 27 | 243 | 522 | 98 | 98 | 620 | |
| 2 200 | 314 | 252 | 25 | 221 | 497 | 98 | 98 | 595 | |
| 2 400 | 343 | 252 | 22 | 202 | 477 | 98 | 98 | 575 | |
| 3 000 | 429 | 252 | 18 | 162 | 432 | 98 | 98 | 530 | |

| SUITPOMPE / SPRAYPUMPS | | | | | | | | | |
|---|---------------------------------------|--|---|-------------------|--|---|---|----------------------------------|--|
| Model | Aankoop- prys Purchase value | Jaarlijkse gebruik Annual usage | Waarde- vermindering Depreciation | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Totale koste sonder rente Total cost excl interest | Totale koste Total cost | |
| | | | | | | | | | |
| Bankspuit / Berm sprayer | 46 269 | 280 | 28 | 8 | 36 | 11 | 39 | 47 | |
| Onkruidspuit / Weed sprayer | 31 050 | 280 | 19 | 5 | 24 | 7 | 26 | 31 | |
| Blower 1 ry / row (Hoë volume / High volume) | 101 667 | 280 | 61 | 18 | 79 | 24 | 85 | 103 | |
| Nozzle 1 ry / row (Lae volume / Low volume) | 149 333 | 280 | 90 | 26 | 116 | 35 | 124 | 151 | |
| Nozzle 2 ry / row (Lae volume / Low volume) | 229 500 | 280 | 138 | 41 | 178 | 54 | 191 | 232 | |
| Nozzle 3 ry / row (Lae volume / Low volume) | 293 000 | 280 | 176 | 52 | 228 | 68 | 244 | 296 | |

SLEEPWAENS / TRAILERS

| Model | Aankoopsprys Purchase value | Jaarlike gebruik Annual usage | Waardevermindering Depreciation | Rente Interest | Versekerings & lisensië Licence & insurance | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Bande Tyres | Veranderlike koste Variable cost | Totale koste Total cost |
|------------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|--|--|---|-------------|-------------------------------------|----------------------------|
| | R | h | R/h | R/h | R/h | R/h | R/h | R/h | R/h | R/h |
| 2-wiel / 2-wheel 2.5 ton | 45 000 | 500 | 4.05 | 4.46 | 3.01 | 11.51 | 1.80 | 0.41 | 2.21 | 13.72 |
| 2-wiel / 2-wheel 4 ton | 41 750 | 500 | 3.76 | 4.13 | 2.94 | 10.83 | 1.67 | 0.66 | 2.33 | 13.16 |
| 2-wiel / 2-wheel 6 ton | 62 500 | 500 | 5.63 | 6.19 | 3.36 | 15.17 | 2.50 | 0.66 | 3.16 | 18.33 |
| 4-wiel / 4-wheel 6 ton | 92 000 | 500 | 8.28 | 9.11 | 3.95 | 21.33 | 3.68 | 1.33 | 5.01 | 26.34 |
| 4-wiel / 4-wheel 8 ton | 101 000 | 500 | 9.09 | 10.00 | 4.13 | 23.21 | 4.04 | 1.33 | 5.37 | 28.58 |
| 4-wiel / 4-wheel 10 ton | 110 000 | 500 | 9.90 | 10.89 | 4.31 | 25.10 | 4.40 | 3.15 | 7.55 | 32.65 |
| Lugremme / Air brakes 10 ton | 178 000 | 500 | 16.02 | 17.62 | 5.67 | 39.31 | 7.12 | 4.26 | 11.38 | 50.69 |
| Lugremme / Air brakes 15 ton | 185 000 | 500 | 16.65 | 18.32 | 5.81 | 40.77 | 7.40 | 4.26 | 11.66 | 52.43 |

ANDER IMPLEMENTE / OTHER IMPLEMENTS

| Model | Aankoopsprys Purchase value | Jaarlike gebruik Annual usage | Waardevermindering Depreciation | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Totale koste sonder rente Total cost excl interest | Totale koste Total cost |
|---|--------------------------------|----------------------------------|------------------------------------|-------------------|--|---|---|----------------------------|
| | R | h | R/h | R/h | R/h | R/h | R/h | R/h |
| Topmasjien (1 ry) / Trimmer (1 row) | 186 000 | 200 | 112 | 46 | 158 | 43 | 155 | 201 |
| Ontblaarder / Leaf remover | 199 000 | 200 | 119 | 49 | 169 | 46 | 166 | 215 |
| Mulching | 72 200 | 200 | 43 | 18 | 61 | 17 | 60 | 78 |
| Bankieskoffel / Mechanical weeders | 189 720 | 200 | 114 | 47 | 161 | 44 | 158 | 205 |
| Krag eg / Power plow | 98 430 | 200 | 89 | 24 | 113 | 34 | 123 | 147 |
| Bossieslaner / Slasher | 24 773 | 200 | 22 | 6 | 28 | 9 | 31 | 37 |
| Snoeimasjien (1 ry) / Pruner (1 row) | 261 397 | 200 | 235 | 65 | 300 | 91 | 327 | 391 |
| Snoeimasjien (halwe ry) / Pruner (half row) | 212 000 | 200 | 191 | 52 | 243 | 74 | 265 | 317 |

BAKKIES / PICK-UPS

| Model | Aankoopsprys BTW uitgesluit Purchase price VAT excluded | Jaarlike gebruik Annual usage | Leeftyd Lifetime | Waardevermindering Depreciation | Versekerings & lisensië Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Totale koste uitgesluit (fuel excluded) |
|-----------------------------------|---|-------------------------------|------------------|---------------------------------|---|----------------|-------------------------------------|--|---|
| | R | km | km | R/km | R/km | R/km | R/km | R/km | R/km |
| Isuzu | | | | | | | | | |
| KB 250 Fleetside | 202 530 | 30 000 | 210 000 | 0.87 | 0.22 | 0.33 | 1.42 | 0.82 | 2.24 |
| KB 250 D-TEQ Fleetside | 221 622 | 30 000 | 210 000 | 0.95 | 0.24 | 0.37 | 1.56 | 0.90 | 2.46 |
| KE 250 D-TEQ LE 4X4 | 300 226 | 30 000 | 210 000 | 1.29 | 0.33 | 0.50 | 2.11 | 1.22 | 3.33 |
| KE 300 D-TEQ LX | 294 292 | 30 000 | 210 000 | 1.26 | 0.32 | 0.49 | 2.07 | 1.19 | 3.26 |
| KE 300 D-TEQ Extended cab LX | 331 788 | 30 000 | 210 000 | 1.42 | 0.36 | 0.55 | 2.33 | 1.34 | 3.68 |
| Toyota | | | | | | | | | |
| 2.5 D-4D | 205 110 | 30 000 | 210 000 | 0.88 | 0.23 | 0.34 | 1.44 | 0.83 | 2.27 |
| 2.5 D-4D SRX | 250 948 | 30 000 | 210 000 | 1.08 | 0.28 | 0.41 | 1.77 | 1.02 | 2.78 |
| 2.5 D-4D SRX 4X4 | 300 140 | 30 000 | 210 000 | 1.29 | 0.33 | 0.50 | 2.11 | 1.21 | 3.33 |
| 3.0 D-4D Raider | 302 720 | 30 000 | 210 000 | 1.30 | 0.33 | 0.50 | 2.13 | 1.23 | 3.36 |
| 3.0 D-4D Xtra cab Raider | 328 176 | 30 000 | 210 000 | 1.41 | 0.36 | 0.54 | 2.31 | 1.33 | 3.64 |
| Land Cruiser 4.2D Bakkie | 433 182 | 30 000 | 210 000 | 1.86 | 0.48 | 0.71 | 3.05 | 1.75 | 4.80 |
| Ford | | | | | | | | | |
| Ranger 2.2 High Rider XL | 214 914 | 30 000 | 210 000 | 0.92 | 0.24 | 0.35 | 1.51 | 0.87 | 2.38 |
| Ranger 2.2 4x4 XL | 269 954 | 30 000 | 210 000 | 1.16 | 0.30 | 0.45 | 1.90 | 1.09 | 2.99 |
| Ranger 2.2 High Rider XLS | 270 814 | 30 000 | 210 000 | 1.16 | 0.30 | 0.45 | 1.91 | 1.10 | 3.00 |
| Ranger 2.2 4x4 XLS | 318 114 | 30 000 | 210 000 | 1.36 | 0.35 | 0.52 | 2.24 | 1.29 | 3.53 |
| Ranger 3.2 SuperCab Hi-Raider XLS | 332 734 | 30 000 | 210 000 | 1.43 | 0.37 | 0.55 | 2.34 | 1.35 | 3.69 |
| Nissan | | | | | | | | | |
| NP300 2.5 TDI FLEET | 186 792 | 30 000 | 210 000 | 0.80 | 0.21 | 0.31 | 1.31 | 0.76 | 2.07 |
| NP300 2.5 TDI 4x4 | 251 034 | 30 000 | 210 000 | 1.08 | 0.28 | 0.41 | 1.77 | 1.02 | 2.78 |
| NP300 Hi-Rider 2.5TDi 4x2 | 222 396 | 30 000 | 210 000 | 0.95 | 0.24 | 0.37 | 1.56 | 0.90 | 2.46 |
| Navara 2.5dCi KingCab XE | 303 752 | 30 000 | 210 000 | 1.30 | 0.33 | 0.50 | 2.14 | 1.23 | 3.37 |
| Patriot 4.2TD Bakkie | 426 818 | 30 000 | 210 000 | 1.83 | 0.47 | 0.70 | 3.00 | 1.73 | 4.73 |

| Model | Aankoop prys BTW uitgesluit Purchase price VAT excluded | Jaarlikse gebruik Annual usage | Leeftyd Lifetime | Waarde- vermindering Depreciation | Versekering & lisensie Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Herstel & onderhoud Repair & maintenance | Totale koste (brandstof uitgesluit) Total cost (fuel excluded) |
|---------------------------|--|---|---------------------|---|---|-------------------|--|---|---|
| | R | km | km | R/km | R/km | R/km | R/km | R/km | R/km |
| Mitsubishi | | | | | | | | | |
| Triton 2.5DI-D GL | 176 214 | 30 000 | 210 000 | 0.76 | 0.19 | 0.29 | 1.24 | 0.71 | 1.95 |
| Triton 2.5DI-D GLX | 210 614 | 30 000 | 210 000 | 0.90 | 0.23 | 0.35 | 1.48 | 0.85 | 2.33 |
| Triton 3.2DI-D Clubcab | 257 914 | 30 000 | 210 000 | 1.11 | 0.28 | 0.43 | 1.81 | 1.04 | 2.86 |
| Volkswagen | | | | | | | | | |
| Anarok 2.0TDI | 236 242 | 30 000 | 210 000 | 1.01 | 0.26 | 0.39 | 1.66 | 0.96 | 2.62 |
| Anarok 2.0TDI 4-Motion | 282 682 | 30 000 | 210 000 | 1.21 | 0.31 | 0.47 | 1.99 | 1.14 | 3.13 |
| Anarok 2.0BITDI Trendline | 317 000 | 30 000 | 210 000 | 1.36 | 0.35 | 0.52 | 2.23 | 1.28 | 3.51 |

VRAGMOTORS / TRUCKS

| Model | Aankoop prys Purchase price | Jaarlikse gebruik Annual usage | Leeftyd Lifetime | Waarde- vermindering Depreciation | Versekering & lisensie Licence & insurance | Rente Interest | Totale vaste koste Total fixed cost | Brandstof / Fuel Consumption | Herstel & onderhoud Repair & maintenance | Veranderlike koste Variable cost | Totale koste Total cost |
|---|--------------------------------------|---|---------------------|---|---|-------------------|--|---------------------------------|---|---|----------------------------------|
| | R | km | km | R/km | R/km | R/km | R/km | km/L | R/km | R/km | R/km |
| Enkel dryf-as/ Single differential | | | | | | | | | | | |
| 3 Ton | 308 000 | 35 000 | 300 000 | 0.92 | 0.29 | 0.44 | 1.65 | 6.67 | 1.95 | 0.87 | 2.82 |
| 4 Ton | 337 500 | 35 000 | 300 000 | 1.01 | 0.32 | 0.48 | 1.81 | 6.67 | 1.95 | 0.96 | 2.91 |
| 6 Ton | 452 500 | 40 000 | 300 000 | 1.36 | 0.37 | 0.56 | 2.29 | 4.00 | 3.25 | 1.28 | 4.53 |
| 7 Ton | 533 500 | 60 000 | 300 000 | 1.60 | 0.29 | 0.44 | 2.33 | 3.57 | 3.64 | 1.51 | 5.15 |
| 8 Ton | 599 500 | 60 000 | 300 000 | 1.80 | 0.33 | 0.49 | 2.62 | 3.33 | 3.90 | 1.70 | 5.60 |
| Dubbel dryf-as/ Double differential | | | | | | | | | | | |
| 14 Ton | 980 000 | 70 000 | 300 000 | 2.94 | 0.46 | 0.69 | 4.10 | 2.50 | 5.20 | 2.78 | 7.98 |
| Dubbel dryf-perd / Double differential/horse | | | | | | | | | | | |
| 25 Ton | 1 144 000 | 70 000 | 700 000 | 1.47 | 0.54 | 0.81 | 2.82 | 2.08 | 6.25 | 1.39 | 7.64 |
| | | | | | | | | | | | 10.46 |

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Villa Crop Protection en Terason is ondersteuners van die Vinpro blokkompetisie wat sedert 1976 plaasvind. Jaarliks word sowat 50 wyndruifblokke in sewe wingerdareas ingeskryf vir die kompetisie. Beoordeling vind net voor oestyd plaas, wanneer die blokke op hul piek te sien is.

Die doelwitte van die kompetisie is:

- Demonstrering van voorpunt-tegnologie en korrekte praktykvoering aan produsente asook werkerskorps.
- Oordrag van nuutste navorsingsbevindinge van navors na wynprodusent.
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- Blootstelling van wingerdkundiges en navorsers aan verbouingstoestande in die verskillende wynstreke.
- Identifiseering van wingerdkundige probleme/ knelpunte in onderskeie streke.
- Fokus van navorsingsprojekte en tegnologie-oordrag na aanleiding van die bogenoemde.
- Erkenning aan wingerdprodusente vir goeie praktykvoering per tipe wynstyl.



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Notas / Notes



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