WINGERDVERBETERINGSVERENIGING
VINE IMPROVEMENT ASSOCIATION

ANNUAL REPORT 2019

Annual report of the Vine Improvement Association (VIA)

CONTENTS

1. COMPOSITION OF THE BOARD, THE EXECUTIVE COMMITTEE AND THE TECHNICAL COMMITTEE

1.1 Board Members 2019

Producers

Mr.	DJ vZ Smit	DFTS
Mr.	J Ferreira	SATI
Mr.	N Nel	Vinpro NPC
Mr.	F Viljoen	Vinpro NPC

PIO's

Mr.	JC Bosman	Bosman Adama
Ms.	R Carstens	SAPO Trust
Mr.	MH Prins	Stargrow
Mr.	F Botha	Techno-Grow
Mr.	S Amos	TopFruit
Mr.	NA Spreeth	Vititec
Mr.	J Wiese	Voor-Groenberg

Nursery Association

Mr.	W Laubscher	SA Vine Growers Association
Mr.	HJT Heydenrych	SA Vine Growers Association

Other members

Ms.	J Sadie	Department of Agriculture, Forestry and Fisheries
Mr.	NL Africander	Department of Agriculture, Forestry and Fisheries
Mr.	JH Booysen	Chairman – Vine Technical Committee
Prof.	F Halleen	Agricultural Research Council - Nietvoorbij

Secretary

Ms.	RM Kriel	Plant SA

1.2 Executive Committee 2019

Mr. NA Spreeth (Chairman)
Mr. W Laubscher

1.3 Technical Committee 2019

Mr.	JH Booysen	Consultant (Chairman)
Mr.	S Amos	TopFruit
Mr.	F Botha	Techno-Grow
Ms.	MC Louw	Bosman Adama
Mr.	T Oosthuizen	Vititec
Mr.	MH Prins	Stargrow
Mr.	A Teubes	Voor-Groenberg
Mr.	D Venter	SAPO Trust
Mr.	T Heydenrych	SA Vine Growers Association
Mr.	T Heydenrych (Jr)	SA Vine Growers Association
Mr.	J Ferreira	South African Table Grape Industry
*Ms.	S Malan	SA Dried Fruit
*Mr.	S Jordaan	Raisins SA
Mr.	H van Schalkwyk	Vinpro
Mr.	HP Gerber	BG Plantinspeksie Konsultante
Ms.	I du Toit	Department of Agriculture, Forestry and Fisheries
Ms.	L Frazenburg	Department of Agriculture, Forestry and Fisheries
Ms.	P Burger	Agricultural Research Council
Prof.	G Pietersen	University of Stellenbosch
Ms.	R Kriel	Secretary

*Mr Jordaan replaced Ms. Malan as representative on the Technical Committee during 2019.

2. DIRECTORS OF PLANT SA

The following VIA members served as Directors of Plant SA in 2019:
Mr. NA Spreeth (Chairman), Mr. HJT Heydenrych, Mr. D Nel, while Mr. JF Viljoen served as alternate director.

3. FINANANCIAL STATEMENTS AS ON 31 DECEMBER 2019

According to the preliminary audited Income and Expenditure Statement for the financial year 1 January 2019 to 31 December 2019, the year ended with a deficit of *R 427 712.

The deficit lead to a decrease in the accumulated funds from R1 035 669 on 1 January 2019 to R 607 957 on 31 December 2019.

***The deficit can be ascribed to a loss (see summary of activities) due to fraud as well as the fact that the income derived from service fees charged for issuances was budgeted for November 2019 but only realised in the new financial year.*

4. SUMMARY OF THE ACTIVITIES OF 2019

- The proposal to change the official name of the Scheme to “South African Plant Certification Scheme for *Vitis*” and in Afrikaans the Suid-Afrikaanse Plantsertifiseringskema vir Wingerd, is approved.
- The VIA lost an amount of R 253 136 in the 2019 financial year due to fraud.
- During the 2019 financial year, the VIA made a voluntary disclosure to SARS regarding a VAT amount of about R 200 000 that was overpaid. The outcome of the process is still pending.
- A validation of the prescribed Leaf roll ELISA test kits, recommended by the VIA, has been done.

- The use of hardwood indexing as a test for clone registration has been replaced by more effective PCR tests. The amendment of the prescribed tests will save time and cost without increasing risk.

5. MEMBERS OF THE VIA

5.1 Plant Improvement Organisations

The following Plant Improvement Organisations were members of the VIA in 2019;

Bosman Adama
SAPO Trust
Stargrow
Techno-Grow
TopFruit
Vititec
Voor-Groenberg.

5.2 Nurseries

There were 43 registered nurseries, of which 14 nurseries were registered as Foundation nurseries. The SA Vine Growers Association represented the nurserymen on the VIA Board and Technical Committee.

5.3 Producer organisations

The following producer organisations were registered members of the VIA during 2019:

Vinpro (wine producers)
SATI (table grape producers)
*DFTS / Raisins SA (drying grape producers)

* *Raisins SA replaced the DFTS as members of the VIA during 2019.*

6. STATE OF THE CLONES

The state of the registered clones as on 31 December 2019 is summarized in **Table 1**. The varieties with the most registered clones are: wine grapes – Chardonnay (67), table/drying grapes – Sultanina (6) and rootstock – R99 (23).

TABLE 1 Number of varieties and clones listed by status

		TOTAL	GROSS LIST	CANDIDATE	REGISTERED
TABLE- AND DRYING GRAPES	**VARIETIES**	243	129	98	34
	CLONES	290	71	163	56
WINE GRAPES	**VARIETIES**	151	117	104	90
	CLONES	3 006	1 957	419	630
ROOTSTOCKS	**VARIETIES**	92	75	59	20
	CLONES	604	278	215	111

7. STATE OF THE BLOCK UNITS

The state of the rootstock block units as recorded on 31 December 2019, are summarized in **Table 2**. The rootstock block units without status are mainly due to new blocks added where the fan leaf test results are still outstanding.

TABLE 2 Number of rootstock varieties by category and unit type

TYPE	STATUS	VARIETIES	CLONES	BLOCK UNITS
FOUNDATION	NONE	11	12	16
	CANDIDATE	29	134	157
	CERTIFIED	10	57	185
	TOTAL	36	196	358
MOTHER UNITS	NONE	4	5	9
	CANDIDATE	5	6	8
	CERTIFIED	9	21	211
	TOTAL	9	22	228
	GRAND TOTAL	**45**	**218**	**586**

In **Table 3** the number of scion vines planted in foundation- and mother block units are summarized according to the stage of certification.

TABLE 3 Number of scion vines according to unit type and status

	TYPE	STATUS	VARIETIES	CLONES	BLOCKS	VINES
TABLE AND DRYING GRAPES	FOUNDATION	NONE	74	78	94	1 526
		CANDIDATE	77	105	209	28 761
		CERTIFIED	26	24	97	69 247
		TOTAL	157	211	400	99 534
	MOTHER UNITS	NONE	18	18	27	48 568
		CANDIDATE	19	19	59	121 538
		CERTIFIED	20	27	219	689 518
		TOTAL	45	53	305	859 624
		GRAND TOTAL	**165**	**225**	**705**	**959 158**
	TYPE	**STATUS**	**VARIETIES**	**CLONES**	**BLOCKS**	**VINES**
WINE GRAPES	FOUNDATION	NONE	12	12	12	477
		CANDIDATE	78	181	430	103 714
		CERTIFIED	77	372	2 268	1 323 928
		TOTAL	115	534	2 710	1 428 119
	MOTTHER UNITS	NONE				
		CANDIDATE	27	81	166	640 590
		CERTIFIED	40	137	469	2 207 537
		TOTAL	45	166	635	2 848 127
		GRAND TOTAL	**116**	**541**	**3 345**	**4 276 246**

8. PLANT MATERIAL ISSUED AND UTILISED

8.1 Rootstocks

There were 45.5 mill, rootstocks issued by PIOs in 2019 (40.26 mill in 2018), of which 98.77% were certified. There were 46.5 million rootstocks budded in 2019, of which just under 96.6% were certified (43.7 million in 2018). The total number of rootstocks used has therefore increased by about 6%.

The rootstocks issued and utilised (**Table 4**) come from 17 different varieties (in 2018 there were 13) and 39 different clones (in 2018 there were 28).

TABLE 4 Rootstocks issued in 2019

VARIETY	NUMBER OF CLONES	NUMBER OF SHOOTS
RAMSEY	8	26 842 158
PAULSEN 1103	4	6 114 946
RICHTER 110	4	4 487 331
US 8-7	3	3 634 638
143 B MGT	3	1 934 103
RICHTER 99	4	1 908 009
101-14 MGT	2	709 468
RUGGERI 140	3	533 872
SO 4	2	209 990
OTHER (8 VAR)	9	154 443

Ramsey is still the most widely used rootstock, with 57.7% of all vines budded on Ramsey. **Graph 1** shows the utilisation of the different Ramsey clones for the last five years.

For wine grapes, the second most utilised rootstock is Richter 110, followed by US 8-7. For table and drying grapes, Paulsen 1103 is the second most used followed by 143 B.

	2015	2016	2017	2018	2019
SC 18 AE	12,157,729	11,574,920	11,009,447	10,777,020	11,927,033
SC 18 AB	8,848,779	10,211,576	10,542,764	11,857,333	11,203,661
SC 19 E	1,499,792	1,396,212	1,642,211	1,844,846	1,735,256
SC	405,700	52,177	128,342	155,700	1,110,770
SC 18 AH	293	134,698	430,520	438,100	825,338
SC 18 A	301,200	295,700	94,063	124,300	100
SC 18 S	468,450	224,200			
SC 19 B	162,300	129,700	136,900	20,700	4,200
SC 3 C	111,000				
SC 18 B	30,400	4,700	3,000		
SC 18 E					35,800
SC 3	12,400	8,000	1,900		

GRAPH 1 Utilisation of Ramsey over the past five years

8.2 Table and drying grapes budded in 2019

- 16 240 220 vines budded vs. 21 042 686 in 2018
- 143 varieties of which only 48 with clone numbers
- 69 clones
- 56% of budded vines certified vs. 53% in 2018

Table 5 shows the 20 most important table and drying grape varieties budded as well as the % certified material issued.

Table 5 Top 20 table and drying grape varieties budded in 2019 compared to 2018

VARIETY	2018	% CERTIFIED	2019	% CERTIFIED
SELMA PETE	3 132 310	99.9%	4 416 056	99%
MERBEIN SEEDLESS	2 654 873	85.5%	1 891 627	93%
SUGRATHIRTYNINE	1 206 743	100%	1 232 320	90%
IFG TEN	840 608	0.2%	1 108 680	0%
CRIMSON SEEDLESS	1 032 201	95.6%	871 190	94%
SUGRATHIRTYFIVE	1 146 290	99.9%	652 500	99%
ARRATWENTYNINE	902 500	0%	634 900	0%
SULTANINA	695 593	82.1%	576 279	52%
PRIME	758 500	0%	536 514	0%
IFG 68-175	2 313 655	0.03%	456 293	1%
SHEEGENE 21	314 903	18.4%	359 870	4%
REDGLOBE	287 121	89.1%	302 705	97%
IFG THIRTEEN			287 130	0%
SUGRASIXTEEN	601 600	91.7%	233 518	99%
ARRATHIRTY			214 400	0%
ZANTE KORENTE			184 000	100%
ARRATHIRTEEN	229 000	0%	177 000	0%
GRAPAES	540 400	0%	163 210	1%
STARLIGHT	515 900	0%	124 600	0%
ICON		1%	120 100	0%

Where there is no figure for 2018, the variety was not among the Top 20 for 2018.

8.3 Wine grapes budded in 2019

- 29 648 838 vines budded vs. 22 397 128 in 2018
- 91 varieties
- 304 clones
- 96% of budded vines are certified

The three main varieties were Chenin blanc, Sauvignon blanc and Colombar. **Table 6** lists the 20 wine grape clones budded most in 2019.

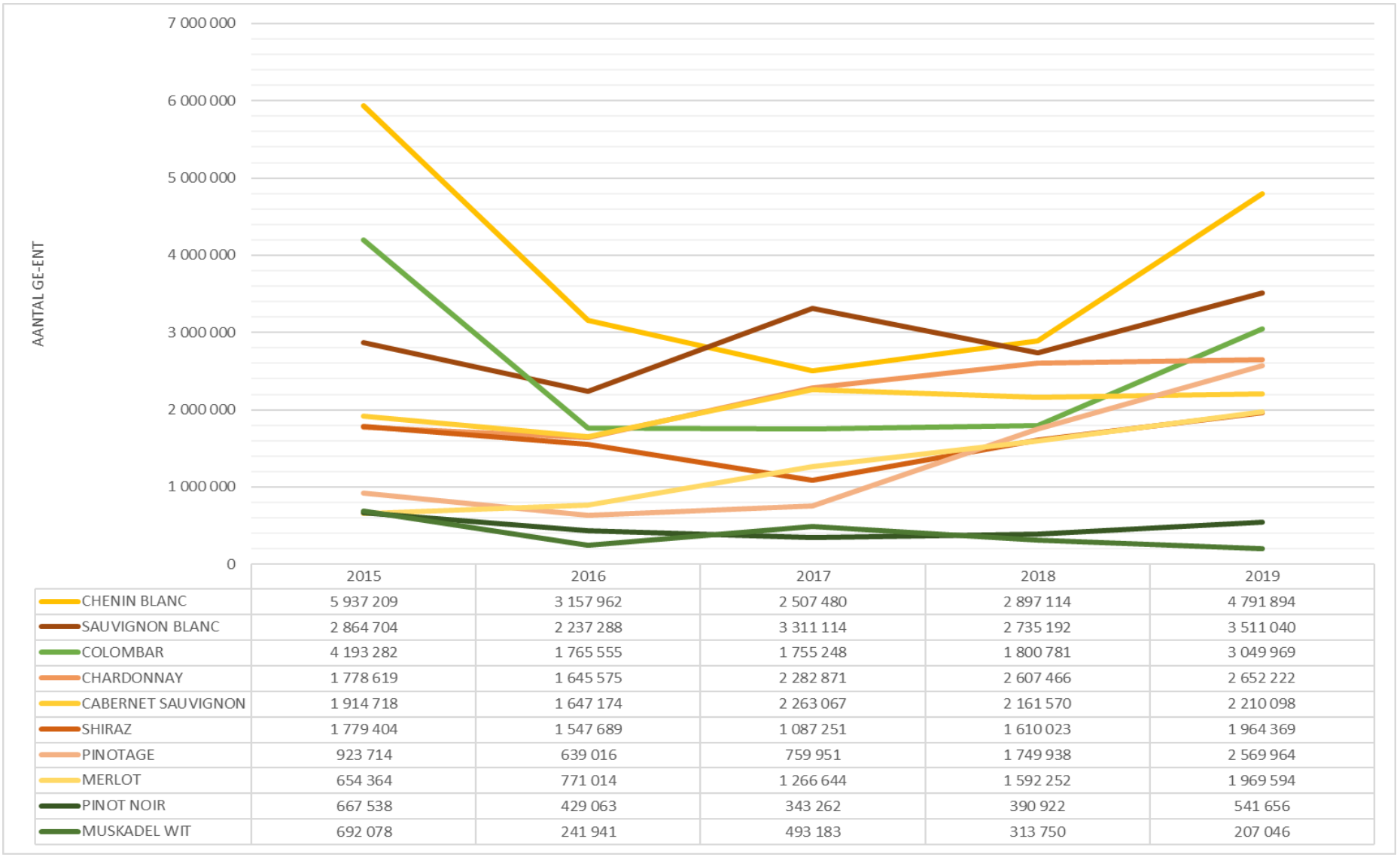
Table 6 The Top 20 wine grape clones budded in 2019 compared to 2018

VARIETY	CLONE	2018	2019
CHENIN BLANC	SN 220 C	821 020	2 161 070
COLOMBAR	CO 1098 Q	1 051 719	1 953 888
CHARDONNAY	CY 55 R	1 756 820	1 588 073
MERLOT	MO 348 A	1 294 820	1 437 739
CHENIN BLANC	SN 220 B	829 767	1 107 820
SHIRAZ	SH 9 C	741 427	1 024 523
SAUVIGNON BLANC	SB 242 B	1 039 921	919 965
PINOTAGE	PI 48 H	350 440	889 464
SAUVIGNON BLANC	SB 316 G	540 606	834 960
DURIF	DF 1 A		818 536
PINOTAGE	PI 48 A	677 396	772 578
SAUVIGNON BLANC	SB 11 R	436 972	720 321
COLOMBAR	CO 2 R	323 374	602 046
PINOTAGE	PI 48 C	337 661	482 300
SHIRAZ	SH 198 I	341 712	441 000
CABERNET SAUVIGNON	CS 360 B	523 500	406 000
CHARDONNAY	CY 95 B		401 396
SAUVIGNON BLANC	SB 134 C		391 900
CABERNET SAUVIGNON	CS 15 M		389 575
RUBY CABERNET	RC 1 A		377 300

Where there is no figure for 2018, the variety was not among the Top 20 for 2018.

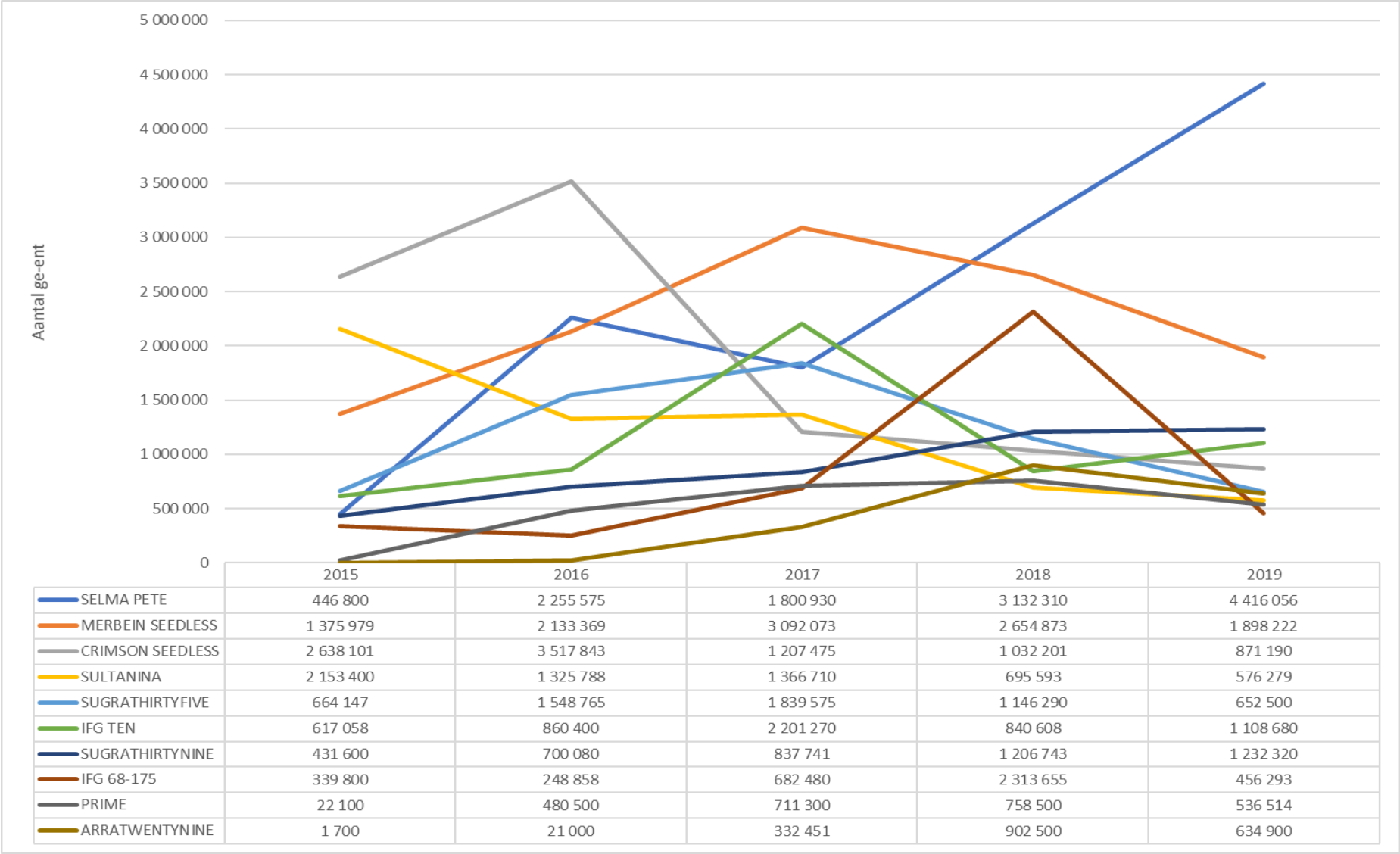
Graph 2 shows the number of wine grape vines grafted over the last five years, of the ten most widely used varieties in 2019. The order in which the varieties appear refers to the total number of vines propagated over the five-year period.

Graph 3 shows the number of table and drying grape vines grafted over the last five years, of the ten most widely used varieties in 2019. The order in which the varieties appear refers to the total number of vines propagated over the five-year period.



	2015	2016	2017	2018	2019
CHENIN BLANC	5 937 209	3 157 962	2 507 480	2 897 114	4 791 894
SAUVIGNON BLANC	2 864 704	2 237 288	3 311 114	2 735 192	3 511 040
COLOMBAR	4 193 282	1 765 555	1 755 248	1 800 781	3 049 969
CHARDONNAY	1 778 619	1 645 575	2 282 871	2 607 466	2 652 222
CABERNET SAUVIGNON	1 914 718	1 647 174	2 263 067	2 161 570	2 210 098
SHIRAZ	1 779 404	1 547 689	1 087 251	1 610 023	1 964 369
PINOTAGE	923 714	639 016	759 951	1 749 938	2 569 964
MERLOT	654 364	771 014	1 266 644	1 592 252	1 969 594
PINOT NOIR	667 538	429 063	343 262	390 922	541 656
MUSKADEL WIT	692 078	241 941	493 183	313 750	207 046

GRAPH 2 Top 10 wine grape varieties grafted in 2019



	2015	2016	2017	2018	2019
SELMA PETE	446 800	2 255 575	1 800 930	3 132 310	4 416 056
MERBEIN SEEDLESS	1 375 979	2 133 369	3 092 073	2 654 873	1 898 222
CRIMSON SEEDLESS	2 638 101	3 517 843	1 207 475	1 032 201	871 190
SULTANINA	2 153 400	1 325 788	1 366 710	695 593	576 279
SUGRATHIRTYFIVE	664 147	1 548 765	1 839 575	1 146 290	652 500
IFG TEN	617 058	860 400	2 201 270	840 608	1 108 680
SUGRATHIRTYNINE	431 600	700 080	837 741	1 206 743	1 232 320
IFG 68-175	339 800	248 858	682 480	2 313 655	456 293
PRIME	22 100	480 500	711 300	758 500	536 514
ARRATWENTYNINE	1 700	21 000	332 451	902 500	634 900

Graph 3 Top 10 table and drying grape varieties grafted in 2019

9. SUMMARY

There were 15 030 473 vines harvested in 2019. Of these, 6 563 268 were table and drying grape vines and 8 467 205 wine grape vines. Of the table and drying grape vines, 47.2% were certified, while 94.8% of the wine grape vines were certified.

10. ACKNOWLEDGEMENTS

The VIA wishes to thank every PIO and nurseryman who contributed in 2019 to the success of the South African Plant Certification Scheme for *Vines*. Thank you also to all the members who served on the Board, Technical Committee and other working groups during 2019.

Nico Spreeth
VIA Chairman

Rachel Kriel
VIA Secretary