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SAGTEVRUGTEPLANTVERBETERINGSVERENIGING  
DECIDUOUS FRUIT PLANT IMPROVEMENT ASSOCIATION

## **ANNUAL REPORT 2018**

**Annual report of the Deciduous Fruit Plant Improvement Association (DPA)**

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

**Board Members 2018**

**Producers**

Mr.	SJ Victor	Canning Fruit Producers (Chairman)
Mr.	DJ v Z Smit	Dried Fruit Technical Services
Mr.	D Morkel	Hortgro Stone
Mr.	H Campbell	Hortgro Pome

**PIO's**

Mr.	BW van Dyk	SAPO Trust
Mr.	S Amos	Topfruit
Mr.	MH Prins	Stargrow

**Nursery Association**

Mr.	JD van Deventer	Deciduous Fruit Nurserymen's Association
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**Other members**

Ms.	J Sadie	Department of Agriculture, Forestry and Fisheries
Mr.	NL Africander	Department of Agriculture, Forestry and Fisheries
Ms.	RM Kriel	Secretary

**Executive Committee 2018**

Mr.	SJ Victor (Chairman)
Mr.	MH Prins
Mr.	JD van Deventer

## **Technical Committee 2018**

### **Trees**

Mr.	H Campbell	Hortgro Science (Chairman)
Ms.	S Malan	SAPO Trust
Mr.	MH Prins	Stargrow
Mr.	S Amos	TopFruit
Mr.	C Stemmet	Deciduous Fruit Nurserymen's Association
Mr.	HP Gerber	BG Plantinspeksie Konsultante
Ms.	I du Toit	Department of Agriculture, Forestry and Fisheries
Ms.	L Fraserburg	Department of Agriculture, Forestry and Fisheries
Ms.	R Kriel	Secretary

## **2. DIRECTORS OF PLANT SA**

The following DPA members served as Directors of Plant SA in 2018:

Mr. SJ Victor, Mr. DJ v Z Smit, Mr. JD van Deventer, while Mr. MH Prins served as alternate director.

## **3. FINANANCIAL STATEMENT AS ON 31 DECEMBER 2018**

According to the preliminary audited Income and Expenditure Statement for the financial year 1 January 2017 to 31 December 2017, the year ended on a surplus of R 411 625.

The surplus lead to an increase in the accumulated funds from R 1 347 274 on 1 January 2017 to R 1 758 899 on 31 December 2017.

## **4. SUMMARY OF THE ACTIVITIES OF 2018**

### **4.1 One *Vitis* Scheme**

The finalization of the project to move the table-and drying grape component of the DPA to the VIA is the highlight of the year. This step is an important milestone as it was a goal of the two Schemes since January 2004.

#### 4.2 Fast track route for stone fruit and table- and drying grape varieties

The fast track route to get stone fruit and table-and drying grape varieties into the scheme has been finalized. All the necessary amendments of the SOP's were done and the protocol is in place.

### 5. MEMBERS OF THE DPA

The following Plant Improvement Organizations were members of the DPA in 2017;

Trees -	SAPO
	Stargrow
	TopFruit
Table grapes -	Ernita
	SAPO
	Stargrow
	TopFruit
	Vititec.

There were 36 registered tree nurseries and 30 registered table grape growers. Five tree nurseries and four table grape nurseries were registered as foundation nurseries. The Deciduous Fruit Nurserymen's Association represented the tree nurseries on the DPA Board and the Technical Committee, while the table grape growers were represented by the SA Vine Growers Association.

The following producer organizations were registered as members of the DPA;

SA Apple and Pear Producers' Association  
SA Stone Fruit Producers' Association

## 6. STATE OF THE CLONES

The main aim of the Scheme is the official varieties on the National Variety list, therefore it is important to note the state of these varieties within the Scheme. The number of official varieties on the National Variety list compared to the number of these varieties in the Scheme is presented in **Table 1**. The percentage of official varieties per fruit type in the scheme is also indicated.

	OFFICIAL VARIETY LIST	SCHEME	%
APPLES (B)	157	113	72%
APPLES (O)	17	17	100%
PEARS (B)	64	52	81%
PEARS & QUINCES (O)	10	10	100%
CHERRIES	28	17	61%
PRUNES	6	6	100%
APRICOTS	44	31	70%
ALMONDS	14	12	86%
NECTARINES	199	142	71%
PLUMS	86	72	84%
PEACHES	170	118	69%
INTERSPECIFICS	34	11	32%
STONE FRUIT (O)	27	21	78%
TABLE GRAPES	173	123	71%

**TABLE 1** Number of official varieties in the Scheme

The breakdown in **Table 2** indicates the number of varieties of each fruit type in the different categories, namely; registered clones, candidate clones and general list.

	<b>GENERAL LIST</b>	<b>CANDIDATE</b>	<b>REGISTERED</b>
APPLES (B)	210	40	55
APPLES (O)	11	13	11
PEARS (B)	123	12	37
PEARS & QUINCES (O)	14	1	8
CHERRIES	41	3	19
PRUNES	3	2	4
APRICOTS	86	25	20
ALMONDS	4	0	12
NECTARINES	262	45	95
PLUMS	268	31	57
PEACHES	438	37	86
INTERSPECIFICS	18	14	6
STONE FRUIT (O)	8	7	18
TABLE GRAPES	97	76	33

**TABLE 2** Number of varieties per fruit type according to the clone status

From the figures presented in **Table 1** and **Table 2**, it can be deduced that some of the official varieties may still be in the process of being registered or some of the older varieties may no longer be in use.

## 7. STATE OF THE BLOCK UNITS

The current state of the foundation- and mother blocks of the different fruit types managed by the DPA is set out in **Table 3**. The high volume of plants currently in reserve units can be attributed to block units where the required virus testing was not maintained.

			RESERVE UNIT	CANDIDATE	CERTIFIED
APPLES	FOUNDATION	SCION	44 141	10 595	28 352
		ROOTSTOCK	189 501	19 830	357 685
	MOTHER BLOCK	SCION	224 388	206 242	168 193
		ROOTSTOCK	71 047	10 500	187 710
PEARS	FOUNDATION	SCION	2 133	201	409
PEARS		ROOTSTOCK	465	623	6 663
QUINCES		ROOTSTOCK	142	0	25 759
PEARS	MOTHER BLOCK	SCION	32 094	22 481	41 521
PEARS		ROOTSTOCK	0	0	22 960
QUINCES		ROOTSTOCK	0	500	28 066
CHERRIES	FOUNDATION	SCION	338	191	208
		ROOTSTOCK	4 756	0	1 823
	MOTHER BLOCK	SCION	5 106	1 469	905
		ROOTSTOCK	210	0	775
PRUNES	FOUNDATION	SCION	20	154	80
APRICOTS		SCION	369	1 140	4 376
ALMONDS		SCION	190	0	149
NECTARINES		SCION	3 094	260	666
PLUMS		SCION	2 377	241	576
PEACHES		SCION	2 778	566	5 432
INTERSPECIFICS		SCION	15	40	40
PRUNES	MOTHER BLOCK	SCION	1 172	83	102
APRICOTS		SCION	1 904	2 195	3 204
ALMONDS		SCION	426	809	296
NECTARINES		SCION	46 963	8 387	5 171
PLUMS		SCION	73 134	15 221	27 748
PEACHES		SCION	69 504	27 516	24 016
INTERSPECIFICS		SCION	565	213	3 200
STONE FRUIT	FOUNDATION	ROOTSTOCK	11 002	6 352	7 433
STONE FRUIT	MOTHER BLOCK	ROOTSTOCK	19 263	1 526	49 832
TABLE GRAPES	FOUNDATION	SCION	96 121	464	1 598
	MOTHER BLOCK	SCION	1 430 122	0	5 557

**TABLE 3** Number of trees or vines established in foundation- or mother block units according to fruit type

## 8. PLANT MATERIAL ISSUED AND UTILIZED

The figures in **Table 4** is a summary of scion plant material (buds/grafts) issued to nurseries and the number of trees/vines lifted for the 2016/17 season. The percentage of trees/vines lifted in comparison to buds/grafts received is also indicated.

<b>POME FRUIT</b>	<b>STATUS</b>	<b>ISSUED</b>	<b>LIFTED</b>	<b>%</b>
APPLES	CERT / CAND	1 747 107	1 192 208	68,2%
	UNCERTIFIED	1 827 321	1 143 050	62,6%
PEARS	CERT / CAND	835 393	566 004	67,8%
	UNCERTIFIED	688 802	434 865	63,1%
<b>STONE FRUIT</b>				
<b>STONE FRUIT</b>	<b>STATUS</b>	<b>ISSUED</b>	<b>LIFTED</b>	<b>%</b>
CHERRIES	CERT / CAND	10 923	5 783	52,9%
	UNCERTIFIED	53 111	43 423	81,8%
PRUNES	CERT / CAND	22 554	13 729	60,9%
	UNCERTIFIED	10 780	3 018	28,0%
APRICOTS	CERT / CAND	344 520	170 194	49,4%
	UNCERTIFIED	131 318	53 179	40,5%
ALMONDS	CERT / CAND	63 037	39 566	62,8%
	UNCERTIFIED	123 259	82 396	66,8%
NECTARINES	CERT / CAND	148 936	111 375	74,8%
	UNCERTIFIED	281 698	227 592	80,8%
PLUMS	CERT / CAND	1 842 478	1 219 037	66,2%
	UNCERTIFIED	445 570	255 262	57,3%
PEACHES	CERT / CAND	693 218	497 809	71,8%
	UNCERTIFIED	98 408	64 908	66,0%
INTERSPECIFICS	CERT / CAND	100 834	67 215	66,7%
	UNCERTIFIED	495 388	261 358	52,8%
<b>VINES</b>				
<b>VINES</b>	<b>STATUS</b>	<b>ISSUED</b>	<b>LIFTED</b>	<b>%</b>
TABLE GRAPES	CERT / CAND	13 382 782	4 598 833	34,4%
	UNCERTIFIED	12 213 633	4 475 312	36,6%

**TABLE 4** Pome fruit, Stone fruit and Table Grape plant material issued and utilized by nurseries in 2016 /17



The number of trees/vines of the three main certified varieties of each fruit type lifted in 2017 is shown in **Table 5**. The percentage given in the table indicates the significance of the three varieties in comparison to the total number of trees/vines certified per fruit type.

FRUIT TYPE	VARIETY	PLANTS LIFTED	% OF TOTAL
APPLES	ROSY GLOW	295 768	62,4%
	CRIPPS RED	337 648	
	GOLDEN DELICIOUS	110 296	
PEARS	PACKHAM'S TRIUMPH	316 348	77,7%
	FORELLE	48 544	
	EARLY BON CHRETIEN	74 691	
CHERRIES	ROYAL DAWN	3 482	93,5%
	MINNIE ROYAL	1 577	
	LAPINS	349	
PRUNES	VAN DER MERWE	10 318	92,3%
	TULARE GIANT	1 420	
	ERFDEEL	940	
APRICOTS	BULIDA	113 718	87,8%
	CAPE BEBECO	24 185	
	PALSTEYN	11 469	
ALMONDS	NONPAREIL	19 631	84,5%
	PEERLESS	9 609	
	TEXAS MISSION	4 212	
NECTARINES	AUGUST RED	35 246	72,8%
	ALPINE	26 149	
	SUNECTWENTYONE	19 660	
PEACHES	CASCADE	174 519	71,7%
	KEISIE	96 511	
	SANDVLIET	86 128	
PLUMS	RUBY SUN	315 864	50,9%
	SUPLUM 6	190 348	
	FORTUNE	114 439	
INTERSPECIFICS	FLAVOR FALL	49 900	100%
	FLAVOR KING	17 315	
TABLE GRAPES	CRIMSON SEEDLESS	1 081 745	45,9%
	SUGRA 35	537 699	
	MERBEIN SEEDLESS	490 018	

**TABLE 5** Number of trees/vines of the three main varieties by fruit type in 2017

## **9. SUMMARY**

Of the approximately 3.3 million pome fruit trees produced in 2017, 52.7% was certified. The number of stone fruit trees produced was approximately 3.1 million, of which 68.2% was certified. Almost halve (50.7%) of the 9.1 million table grape vines produced was certified.

## **10 ACKNOWLEDGEMENTS**

The participation of all PIO's and nurserymen who registered as members of the Deciduous Fruit Plant Improvement Scheme during 2017 are appreciated. The DPA herewith also thanks all members of the DPA Board and the Technical Committee as well as all other work groups for their service during 2017.

Rachel Kriel  
DPA Secretary