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Graangewasse

Potchefstroom

Agricultural Research Council

Grain Crops

Potchefstroom

Republiek van Suid Afrika

Republic of South Africa

**VERSLAG VAN DIE NASIONALE  
SOJABOON KULTIVARPROEWE/  
2016/17**

**REPORT OF THE NATIONAL  
SOYBEAN CULTIVAR TRIALS**

Verantwoordelike beampte:

Responsible officer:

AS de Beer

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## 1 INTRODUCTION

The National Soybean Cultivar Trials (project M101/62) were planted for the 39<sup>th</sup> successive year this past growing season. A total of 21 trials were planted at 20 localities, illustrated in the locality list.

### 1.1 AIM

The aim of the project was primarily the following:

- (i) To compare cultivars for agronomic and economic performance;
- (ii) to test the adaptability of cultivars and new releases for specific areas and cultivation practices.

## 2 MATERIALS AND METHODS

### 2.1 GENERAL

The trials were planted as randomized block designs as well as a Latinized row-column design using three replications with 32 cultivars. Cultivar characteristics are shown in Table 1.

Each trial plot consisted of four, 5 m rows. Four metres were harvested from each of the middle two rows, in order to avoid border effects. Soil form, fertilization and weed control are indicated together with row spacing in Table 2. All seeds were inoculated with Bradyrhizobium japonicum bacteria at planting.

The localities where trials were planted represent a wide range of climatic conditions. Trials were carried out on the ARC and Departmental Research Stations as well as on privately owned farms. Observations were recorded by responsible officers and collaborators as indicated in the list of collaborators. Planting time and cultivation practice were executed to correspond with that of commercial plantings in the specific

areas. Rainfall and irrigation are indicated in Table 3. Note that rainfall is only recorded from October to April and not for the specific growing season of a trial.

## 2.2 OBSERVATIONS

A brief definition of some of the observations in the trials is as follow:

- 2.2.1 Date of flowering: The time at which one fully open flower per plant was observed across 50% of the plots.
- 2.2.2 Date of harvest maturity: When 95% of the pods for a given plot had turned brown.
- 2.2.3 Length of growing season: The number of days from date of planting to date of maturity.
- 2.2.4 Plant height: The average height in centimeter (cm) of plants from the soil surface to the growth point at maturity.
- 2.2.5 Pod height: The average height in centimeter (cm) of the lowest pods on the plant from soil surface at maturity.
- 2.2.6 Green stem: The percentage green stems at harvest rated on a 1 (normally mature) to 5 (more than 80% green stems) scale.
- 2.2.7 Lodging: Lodging at time of harvest was rated on the following scale:
- 1 = No lodging
  - 2 = Few lodging, will not hamper mechanical harvesting
  - 3 = Few lodging, lodging less than what will hamper mechanical harvesting
  - 4 = Few lodging, will hamper mechanical harvesting, with yield loss
  - 5 = Fair number of plants lodged, will hamper mechanical harvesting, with yield loss



- 6 = Many plants lodged, will hamper mechanical harvesting, with yield loss
- 7 = A large number of plants lodged, will hamper mechanical harvesting, with yield loss
- 8 = Nearly all plants lodged, will hamper mechanical harvesting, yield loss
- 9 = All plants lodged, will hamper mechanical harvesting, yield loss

2.2.8 Shattering: Measured at time of harvest and three weeks later. Shattering is reported on a scale of 1 (no shattering) to 5 (more than 91-100% pods shattered).

2.2.9 100 seeds mass: Determined on an air dry basis from a randomly selected sample retained on a 4,75 mm standard grading screen.

2.2.10 Undesirable seed: The mass of undesirable seed was determined in a random 100 g sample with seed size greater than 4,75 mm (excluding mechanical damaged seeds).

2.2.11 Protein and oil percentage: The determinations were done on a sample with whole seeds (moisture free) and a variation can be expected.

2.2.12 Seed yield: Four metres of the two centre rows were harvested by hand at soil level and threshed. Seed moisture was determined and seed yield calculated on a basis of 12,5% moisture content.

## 2.3 THE EVALUATION OF TRIALS

The yield data of the individual trials were subjected to analysis of variance (ANOVA) with a randomized complete block design (RCBD) as well as a Latinized row-column design.

The localities with coefficient of variance higher than 25% were rejected from the analysis.

The trial means (x-axis) versus the cultivar means (y-axis) is plotted. A regression line is then fitted with the trial means as x variable and cultivar means as predictor variable. Out of the regression estimates the yield probability percentage above the mean for each cultivar at different yield potentials is then calculated and presented in a table as a guideline for the use of different cultivars under different circumstances.

A yield probability of more than 50% indicated above average yield and a yield probability of less than 50% indicated a below average yield.

### 3 DISCUSSION OF RESULTS

#### 3.1 GENERAL

The rainfall and irrigation data are shown in Table 3.

Four (4) of the 21 trials could not be included (19%) in the report compared to the five (5) out of 19 trials (26%) in the 2015/16 season.

The following trials could not be included in the report for the following reasons:

- 1 Bergville – Hail damage. Trial terminated.
- 2 Groblersdal – High CV%. Damage by pigeons and water logging.
- 3 Hoopstad – High CV%. Replanted due to wind damage. Late second planting and severe drought just after planting.
- 4 Kokstad – Poor emergence. Trial terminated

As in the previous seasons the evaluation of the trials was based on a number of parameters. No conclusion can be made on a single parameter.

#### 3.2 DISCUSSION OF TABLES

3.2.1 Days to flowering (Table 4), physiologically mature (Table 5) and length of the growing season (Table 6)

The number of days from planting to flowering (Table 4) is an effective measure for

the grouping of cultivars because the relative order of rank for this characteristic is repeated to a great extent over localities and years. As expected the average days to flowering was the shortest in the warm areas (46 days Brits) and the longest in the cooler areas (78 days at Clocolan).

The number of days to physiological maturity is shown in Table 5. The longest average days to maturity was experienced at Clarens (150 days).

The number of days to harvest maturity (Table 6) was used to determine the length of the growing season of a cultivar. The number of days to harvest maturity is however, more dependent on climatic changes and planting date for soybeans and, the number of days to flowering is therefore a more reliable maturity grouping criterion.

### 3.2.2 Plant height (Table 7)

The indeterminate cultivar DM 6.8i RR (MG 6.8) had a mean plant height of 112 cm (highest) in the moderate area compared to 44 cm (lowest) of the indeterminate cultivar PAN 1532 R (MG 5.3) in the warm region. Plant height for cultivars with an indeterminate growth habit was in general higher than those with a determinate growth habit.

The average plant height between localities varied from a mean of 54 cm at Brits to 107 cm at Potchefstroom (Irrigation).

### 3.2.3 Pod height (Table 8)

The variation in pod and plant height between cultivars is linked with the length of the growing season of a cultivar. The indeterminate cultivars NS 5909 R (MG 5.9) and LS 6164 R (MG 6.0; determinate), as last season showed a mean pod height of 18cm in the moderate area, while DM 6.8i RR (MG 6.8; indeterminate) also had an above average pod height in all the areas.

PHB 94 Y 80 R (MG 4.8) (indeterminate) had the lowest reading of 4, 8 and 5 in the cool, moderate and warm regions. Considerable harvest losses can occur due to low

pod height; thus pod height is an important factor influencing cultivar choice. Differences in pod height between localities can mainly be attributed to differences in row width and climate. A pod height of at least 7.5 cm (combine harvesting height) is preferable.

#### 3.2.4 Lodging (Table 9)

The highest lodging occurred in the trial as the previous year at Delmas. The highest lodging figures was reported for PAN 1521 R and LDC 5.9 at Delmas and Kinross (cool area) and PHB 95 Y 20 R at Clarens.

#### 3.2.5 Green stem (Table 10)

A high percentage of green stem, like the previous season, was recorded at Brits, while the cultivar PHB 95 Y 20 R showed a high tendency for green stem, across all three climatic regions. Plants also retained their leaves that could hamper the harvesting process.

#### 3.2.6 Shattering 3 weeks after harvesting (Table 11)

The highest shattering occurred at Brits and Brits (K2) in the warm production area as well as at Delmas and Kinross in the cool area.

#### 3.2.7 Number of plants (Table 12)

Enough certified seed was provided to establish 400 000 plants ha<sup>-1</sup> for the irrigation and high rainfall areas and 350 000 for dryland. The low plant numbers at Delmas were due to pigeon damage after planting. The lower number of plant ha<sup>-1</sup> in the case of Stoffberg is due to a seeding rate of 234 000 seed ha<sup>-1</sup>.

#### 3.2.8 Percentage undesirable seed (Table 13)

The lowest mean of 0.65% undesirable seeds was recorded for the cool and moderate region. The range varied from 1.41% at Verkeerdevlei to 0.21% at Delmas.

### 3.2.9 Mass (g) 100<sup>-1</sup> seeds (Table 14)

The variation in seed mass among localities ranged between 14.77 g 100<sup>-1</sup> seeds at Clarens to 18.62 g 100<sup>-1</sup> seeds at Greytown Kranskop and 18.63 g 100<sup>-1</sup> at Potchefstroom (Irrigation). The highest seed mass was recorded for LS 6240 R across all climatic regions, while SSS 5052 (tuc), had the smallest seed across all areas.

### 3.2.10 Oil percentage (Table 15)

The cultivar 5302 RSF had, the highest average oil percentage for all the regions (15.72% cool, 14.25% moderate, 15.16% warm).

### 3.2.11 Crude Protein percentage (Table 16)

The cultivar SSS 4945 (tuc), as the previous season had the highest values for all the climate regions.

### 3.2.12 Profat (Table 17)

The inclusion of this table in the report was requested by Dr Erhard Bredendam as the total value of oil and protein is a much better indicator for the selection of a cultivar than the single oil or protein factor. The cultivar 5302 RSF had the highest average profat value for all the regions.

### 3.2.13 Yield (Table 18)

Due to the sensitivity of soybean cultivars to environmental conditions, it is preferable to divide the soybean production areas into cool, moderate and warm regions. A better yield can be established by choosing a cultivar suitably adapted for a specific region. It is also necessary to use data from more than one year to select between cultivars. Due to the significant cultivar and locality interaction, conclusions on cultivar performance should not be made from average yield data alone. The mean yield over localities has therefore been omitted.

## 4 INTERPRETATION OF YIELD RESULTS

### 4.1 INTRODUCTION

A stated aim of the national soybean cultivar trials is the evaluation of cultivars for their adaptability to a potential production area, and for their yield performance. Adaptability is especially important because of the fact that soybean cultivars are known to be restricted in terms of recommended production area. This fact is also demonstrated by the results discussed in this report.

Because of genotypic restriction in adaptability the statistical analysis of data over all trial entries and localities tend to demonstrate strong interaction components which confound interpretation. Interaction makes genotype rankings at one site inapplicable to another site. The larger the interaction the more information is lost if interaction is not analysed effectively. This will be a lesser problem for homogeneous areas than for non-homogeneous areas. However, a purpose of the national trials is to identify homogeneous areas or homogeneous growing conditions based on cultivar performance. Localities were therefore grouped together based on past research experience and with the assistance of photo thermal charts provided by the Institute for Soil, Climate and Water. Localities were grouped in cool, moderate and warm production areas.

### 4.2 YIELD PROBABILITY AND YIELD (Tables 19, 20, 21, 22, 23 & 24)

A minimum number of successful trials per climatic area are needed to calculate saved yield probability values. Yield probability tables are set up for cool-, moderate and warm regions, if enough data is available.

Yield probability of a cultivar is the chance to get an above average yield at a particular yield potential. For instance, if the yield probability of a cultivar, at a particular yield potential equals 60%, the chance to get a yield above the mean of all cultivars is 60% with a 40% chance of obtaining a yield below the mean. Thus a 60% probability indicated a 10% change of an above average yield, while a 40% probability indicated a 10% change of getting a below average yield.

PAN 1623 R showed an above average yield probability (Table 19) for the low to medium yield potential, (cool area), while PAN 1521 R, DM 5953 RSF and PHB 94 Y 80 R had an above average yield probability in the medium to high yield potential range for the same climatic region. For the moderate area PAN 1521 R, PHB 94 Y 80 R and DM 5953 RSF, as for the cool area, showed above average figures over the whole production potential range. DM 5953 RSF, PAN 1623 R, NS 7211 R and PAN 1521 R also performed above average for the warm areas.

**Lokaleite, medewerkers en adresse van kultivarproewe soos beplan vir, 2016/17**  
**Localities, co-operators and addresses of the cultivar trials, 2016/17**

Nr No	Lokaleite Locality	Adres van proeflokaleiteit Address of trial locality	Tel. no. Tel. nr.	Verantwoordelike beampte Responsible officer
1	Bethlehem	Kleingraan Instituut Bethlehem 9700	082 375 8999	L Bronkhorst & E Maree
2	Bergville	J Jackson Shamrock H4 Bergville 3350	082 388 0311	R Wessels
3	Brits	Hartebeespoort Nav. Stasie Posbus 1261 Brits 0250	082 375 8999	L Bronkhorst & T Kruger
4	Brits K2	K2 Navorsingstasie Brits 0250	072 606 5094	R Boshoff
5	Cedara	Cedara P/bag X9059 Pietermaritzburg 3200	033-355 9495/079 898 5522	J Arathoon
6	Clarens	D Terblanche Taillefert Clarens 9707	082 388 0311	R Wessels
7	Clocolan	G Hugo van Niekerk Kroon Clocolan 9735	082 375 8999	L Bronkhorst & E Maree
8	Delmas-Pannar	Pannar Saad Navorsingsplaas Posbus 439 Delmas 2210	013-665 8524/082 969 1981	A Mathebula
9	Dundee	Dundee Navorsingstasie Posbus 626 Dundee 3000	034 212 479/076 953 3587	M Buthelezi
10	Greytown	Pannar Proefplaas Posbus 19 Greytown 3250	033-413 9639	A Jarvie
11	Greytown Kranskop	Umvoiyuna Farm Posbus 755 Greytown 3250	033-417 1494(6)/082 558 1766	P Herbst
12	Grobiersdal-Loskop	Loskopproefplaas Posbus 1367 Grobiersdal 0470	013-262 3042/083 274 1951	C Fourie
13	Hoopstad	R Taljaard Posbus 120 Hoopstad 9479	082 375 8999	L Bronkhorst
14	Kinross	Vosstoffel Boerdery Posbus 80 Kinross 2270	082 375 8999	L Bronkhorst
15	Kokstad	Research Station P/Bag X501 Kokstad 4700	039 727 2105/072 778 8785	MP Skhakhane
16	Kroonstad	Hoërskool Kroonstad Kroonstad 9500	082 375 8999	L Bronkhorst, M van Heerden & E Maree
17	Middelburg	G Anderson Postnet Suite 15 P/Bag 1866 Middelburg 1050	082 375 8999	L Bronkhorst
18-19	Potchefstroom	IGG Proefplaas Privaatsak X1251 Potchefstroom 2520	018-299 6366/082 375 8999	L Bronkhorst
20	Verkeerdevlei	Bloemfontein	082 375 8999	L Bronkhorst, J Richter & E Maree



Tabel 1 Sojaboonsoad eienskappe en inligting oor verskaffers, 2016/17  
Table 1 Soybean seed characteristics and information about agents, 2016/17

Kultivar Cultivar	Volwassenheids- groeperings Maturity Group	Groeiwyse Growth habit *1	Hilum kleur Hilum colour *2	Blomkleur Flower colour *3	Haarkleur Pubescence *4	Op varieteits lys On variety list	Verskaffer Agent	Telersregte Breeding rights
LS 6240 R	4.0	SD	BL	W	W	JAYES	Linkseed	JAYES
PAN 1454 R	4.4	I	BL	P	T	JAYES	Pannar	JAYES
SSS 4945 (tuc)	4.5	I	-	W	-	JAYES	Sensako	JAYES
LS 6146 R	4.4	I	BL	P	G	JAYES	Link Seed	JAYES
PHB 94 Y 80 R	4.8	I	BL	P	T	JAYES	Pioneer	JAYES
LS 6248 R	4.8	SD	BL	W	W	JAYES	Link Seed	JAYES
SSS 5449 (tuc)	4.9	I	-	P	-	JAYES	Sensako	JAYES
PHB 95 Y 20	5.2	D	BL	P	T	JAYES	Pioneer	JAYES
DM 5953 RSF	5.3	I	IB	P	W	JAYES	GDM Seeds	JAYES
PAN 1532 R	5.3	I	LB	P	G	JAYES	Pannar	JAYES
SSS 5052 (tuc)	5.5	I	-	W	-	JAYES	Sensako	JAYES
5609 RSF	5.6	I	-	P	G	JAYES	GDM Seeds	JAYES
PAN 1521 R	5.7	I	IB	P	G	JAYES	Pannar	JAYES
5302 RSF	5.7	I	-	P	G	JAYES	GDM Seeds	JAYES
LS 6261 R	6.0	SD	BL	W	B	JAYES	Link Seed	JAYES
SSS 5755 (tuc)	5.8	I	-	P	-	JAYES	Sensako	JAYES
NS 5909 R	5.9	I	IB	P	G	JAYES	K2	NEE/NO
LDC 5.9	5.9	-	-	-	-	JAYES	Louise Dreyfus	NEE/NO
PHB 96 T 06 R	6.1	I	KL	W	G	JAYES	Pioneer	NEE/NO
LDC 6.0	6.0	-	-	-	-	JAYES	Louise Dreyfus	NEE/NO
PAN 1623 R	6.1	I	L	W	G	JAYES	Pannar	JAYES
LS 6161 R	6.3	D	IB	P	B	JAYES	Link Seed	JAYES
P61T38 R	6.3	D	LB	W	G	JAYES	Pioneer	JAYES
SSS 6560 (tuc)	6.2	I	-	W	-	JAYES	Sensako	JAYES
6663 RSF	6.3	I	-	P	G	JAYES	GDM Seeds	JAYES
LS 6164 R	6.0	D	LB	W	G	JAYES	Link Seed	JAYES
PAN 1614 R	6.4	I	LB	W	G	JAYES	Pannar	NEE/NO
NS 6448 R	6.4	SD	LB	P	G	JAYES	K2	NEE/NO
P64T39 R	6.4	I	KL	W	G	JAYES	Pioneer	JAYES
DM 6.8i RR	6.8	I	B	P	G	JAYES	GDM Seeds	JAYES
6968 RSF	6.9	I	-	P	G	JAYES	GDM Seeds	JAYES
NS 7211 R	7.2	D	LB	W	G	JAYES	K2	NEE/NO

\*1 D - Bepaald/determinate; I - Onbepaald/indeterminate; SD - Semi-Bepaald/semi determinate

\*2 BL - Swart/black; IB - Onvolledig swart/imperfect black; B - Bruin/brown; LB - Ligbruin/buff; G - Grys/grey; KL - Kleurloos/buff

\*3 P - Pers/purple; W - Wit/white

\*4 B - Bruin/brown; G - Grys/grey; W - Wit/white; T - Taankleurig/Tawny

**Tabel 2 Algemene inligting aangaande grond en verbouingspraktjke by die onderskeie proeflokaleite van die kultivarproewe, 2016/17**  
**Table 2 General information in connection with soil and cultivation practices at the different trial localities, 2016/17**

Lokaliteit Locality	Plantdatum Date of planting	Grondvorm Soil type	Grond ontleding Soil analysis		Bemesting Fertilization			Spasiëring Spacing (cm)	Onkruid beheer Weed control	Koördinate van lokaliteite Co-ordinate of localities	
			pH (H <sub>2</sub> O)	P	K	N	P			K	S
Bergville/B	13/11/2016	-	3.7	43.1	146.6	-	-	90	-	S28°43'234"	E29°18'433"
Bethlehem/D	27/10/2016	Avalon	7.88	72	295	4.2	2.52	90	Strongarm, Agill, Round-up, skoffel	S28°09'36,1"	E028°18'14,9"
Brits/B	30/11/2016 19/12/2016	Arcadia	8.01	16	40	1.12	14.81	75	Strongarm, Agill, Round-up, skoffel	S26°21'31,7"	E029°08'04,5"
Brits K2/B	01/12/2016	Katspruit	8.23	4	350	0	21.84	75	Geen. Slegs geskoffel	S25,591916	E27,719345
Cedara/D	06/12/2016	Hutton	4.51	-	-	0	30.45	45	Dual S Gold, Hammer, Basagran	S29°32'10"	E30°16'00"
Clarens/D	22/11/2016	-	4.0	19.8	207.0	-	-	90	-	S28°23'387	E28°25.254
Clocolan/D	31/10/2016	-	5.03	56	73	6.44	2.52	75	-	S28,90864°	E027,60007°
Delmas/D	24/11/2016	Sandy loam (Davidson)	0	0	0	0	0	90	Flumetsulam, Metolachlor 960, Roundup	S26°8'36,08"	E28°42'28,73"
Dundee/D	09/12/2016	Hutton	-	-	-	-	-	45	-	S28° 08'19,74	E30° 18'53.52
Greytown/D	24/11/2016	Hutton	5.29	20	198	-	-	75	Metagan Gold, Roundup	S29°05'08,85"	E30°36'17,8"
Greytown Kranskop/D	22/11/2016	Hutton	4.75	36	330	-	-	90	Felgan Gold, Classic	S29°03'48,37"	E30°41'02,84"
Grobiersdal/B	03/11/2016	Avalon	5.35	31	148	2.24	2.31	75	Strongarm, Agill, Round-up	S25°10'43,4"	E029°23'16,2"
Hoopstad	15/11/2016 09/12/2016	-	6.25	61	143	7.28	2.52	75	-	S27°53'38,8"	E025°48'22,7"
Kinross/D	02/11/2016	-	6.67	107	300	1.96	2.31	75	Strongarm, Agill, Round-up, skoffel	S26°22'26,2"	E029°08'47,7"
Kokstad/D	29/11/2016	-	-	-	-	-	-	45	Dual Gold	S30°31'54"	E29°24'44"
Kroonstad/D	16/11/2016	-	6.31	35	178	5.04	2.31	90	Strongarm, Agill, Round-up, skoffel	S27°36'29,9"	E027°14'00,6"
Middelburg/D	22/11/2016	-	Boer werk op globale monster			-	-	75	Strongarm, Agill, Round-up, skoffel	S25°39'51,7"	E029°43'19,9"
Potchefstrroom/B	09/11/2016	Hutton	7.56	75	298	0	2.31	75	Strongarm, Alachlor, Round-up, skoffel	S26°44'00,0"	E027°04'01,2"
Potchefstrroom/D	12/11/2016	Hutton	7.40	59	293	0	2.52	90	Strongarm, Alachlor, Round-up, skoffel	S26°44'11,2"	E027°03'35,5"
Stoffberg	17/11/2016	-	5.48	16	158	0	0	75	-	S-25,4371430	E29,853207
Verkeerdevlei	28/11/2016	Hutton	-	-	-	4.2	13.02	75	Strongarm, Agill, Round-up	S28°09'36,1"	E028°18'14,9"

- Inligting nie beskikbaar/information not available

Tabel 3 Reënval en besproeiing vir die verskillende lokaliteite (mm), 2016/17  
Table 3 Rainfall and irrigation at the different localities (mm), 2016/17

Lokaliteit Locality	Maandelikse reënval (mm)/ Monthly rainfall (mm)												Totaal Total *	Besproeiing Irrigation	Totaal Total **
	Okt	Nov	Des	Jan	Feb	Mrt	Apr								
Bethlehem	-	36.07	96.27	141.22	244.09	26.92	24.89	569.46	100	669.46					
Cedara	75.2	87.38	34.04	83.7	217.5	64	76.45	638.27	0	638.27					
Delmas	106.45	257.75	156.95	187.36	120.67	42.53	64.65	936.36	0	936.36					
Greytown	66	112.6	59	110.6	118.6	49	12.8	528.6	0	528.6					
Greytown Kranskop	68	103	31	138	140	63	15	558	50	608					
Groblersdal	36.5	143.5	110.5	177.5	79.5	19.5	15.5	582.5	225	807.5					
Potchefstroom B	55.12	94.74	93.98	29.21	225.55	33.78	46.23	578.61	0	578.61					
Potchefstroom Drg	55.12	94.74	93.98	29.21	225.55	33.78	46.23	578.61	0	578.61					
Stoffberg	41	185	269	116	167	86	109	973	0	973					

\* Vir reënval/For rainfall

\* Vir reënval en besproeiing/For rainfall and irrigation

Tabel 4 Die aantal dae vanaf plant tot 50% blomstadium van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 4 The number of days from planting to 50% flowering stage of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koei/Cool						Matig/Moderate						Warm						
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Kroonstad	Potchefstroom Besproei	Potchefstroom Droog	Stoffberg	Verkeerdevel	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	65	55	60	52	62	49	57	43	49	45	49	47	44	45	35	45	43	35	39
PAN 1454 R	46	52	51	47	52	49	50	43	42	47	49	47	44	46	35	44	37	44	41
SSS 4945 (tuc)	46	54	61	50	56	49	53	45	49	47	49	47	44	46	35	45	37	35	36
LS 6146 R	46	52	51	45	56	49	50	44	48	47	49	47	44	48	35	45	37	35	36
PHB 94 Y 80 R	46	54	51	54	52	57	52	47	48	47	49	47	44	48	42	47	40	45	43
LS 6248 R	75	54	70	55	77	64	66	60	59	61	49	56	52	52	64	57	48	45	47
SSS 5449 (tuc)	65	76	78	64	73	56	69	60	58	61	56	56	51	54	64	58	46	49	48
PHB 95 Y 20 R	83	79	86	68	86	64	78	63	61	64	58	47	58	55	42	56	50	44	47
DM 5953 RSF	65	52	61	47	52	49	54	46	48	47	56	47	51	48	42	48	37	45	41
PAN 1532 R	75	70	81	94	77	64	77	60	59	66	58	56	52	52	64	58	37	49	43
SSS 5052 (tuc)	75	79	81	69	77	72	76	66	62	61	63	58	58	56	64	61	50	45	48
5609 RSF	71	76	85	64	69	64	71	63	59	65	58	56	52	61	64	60	46	45	46
PAN 1521 R	75	77	84	67	72	72	75	61	58	66	63	58	52	62	64	61	48	44	46
5302 RSF	75	76	81	58	69	64	71	59	57	66	56	56	51	60	60	58	44	49	47
LS 6261 R	65	70	84	63	77	64	71	61	57	63	55	54	52	60	64	58	46	49	48
SSS 5755 (tuc)	83	74	79	64	77	72	75	63	60	66	63	56	58	63	68	62	50	49	50
NS 5909 R	81	79	86	61	77	72	76	67	63	66	63	58	66	67	70	65	50	49	50
LDC 5,9	83	81	85	59	82	72	77	65	60	64	58	58	55	52	64	60	50	49	50
PHB 96 T 06 R	83	86	91	102	83	72	86	68	62	67	68	61	58	66	35	61	50	49	50
LDC 6.0	83	79	86	71	77	72	78	65	63	66	63	61	58	65	64	63	48	49	49
PAN 1623 R	83	79	81	64	77	72	76	67	61	63	58	58	52	66	64	61	46	49	48
LS 6161 R	83	79	71	64	77	72	74	66	60	63	63	56	51	63	64	61	46	49	48
P61T38 R	75	76	84	59	77	64	73	65	62	65	63	58	65	60	64	63	48	44	46
SSS 6560 (tuc)	83	79	85	59	82	64	75	75	62	65	63	58	58	65	64	64	50	49	50
6663 RSF	75	86	92	72	77	72	79	67	65	69	68	69	58	66	74	67	50	55	53
LS 6164 R	82	76	85	55	77	72	74	64	61	66	63	69	66	63	64	64	50	47	49
PAN 1614 R	83	80	85	65	82	72	78	67	63	66	65	61	58	68	74	65	50	49	50
NS 6448 R	75	81	86	67	77	64	75	66	64	69	63	61	66	63	74	66	53	55	54
P64T39 R	82	79	85	68	77	72	77	67	62	67	58	58	58	64	64	62	50	49	50
DM 6.8i RR	83	86	86	66	77	72	78	67	65	69	63	61	66	68	74	67	53	49	51
6968 RSF	88	79	91	73	77	72	80	66	65	65	63	58	58	67	74	64	48	55	52
NS 7211 R	78	81	86	60	82	72	77	66	61	65	67	56	58	65	74	64	48	49	49
Gem/Mean	74	73	78	63	73	65	71	61	59	62	59	56	55	59	59	59	46	47	47

Tabel 5 Die aantal dae vanaf plant tot fisiologiesryp stadium van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 5 The number of days from planting to physiological maturity of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool								Matig/Moderate								Warm			
	Bethlehem	Clarens	Clocolan	Kinross	Middeburg	Gem/Mean	Cedara	Dundee	Greytown	Kroonstad	Potchefstroom	Besroei	Potchefstroom	Droog	Stoffberg	Verkeerdevllei	Gem/Mean	Brits	Brits K2	Gem/Mean
	LS 6240 R	128	124	100	134	120	121	117	112	115	112	114	114	111	112	122	114	101	98	100
PAN 1454 R	128	135	100	134	127	125	117	115	114	112	114	114	111	121	122	116	101	119	110	
SSS 4945 (tuc)	125	129	100	134	117	121	116	112	114	112	114	114	111	113	122	114	115	105	110	
LS 6146 R	125	133	100	130	117	121	115	112	114	112	114	114	111	117	122	115	112	100	106	
PHB 94 Y 80 R	125	137	100	134	117	123	114	111	114	112	114	114	111	112	122	114	101	98	100	
LS 6248 R	146	144	136	143	133	140	127	120	119	126	121	121	118	122	122	122	115	105	110	
SSS 5449 (tuc)	128	144	143	141	127	137	121	117	117	134	121	121	118	122	122	122	112	98	105	
PHB 95 Y 20 R	154	151	155	147	141	150	125	117	132	134	114	114	122	121	122	123	115	113	114	
DM 5953 RSF	128	135	100	134	127	125	124	114	114	112	121	121	118	118	122	118	112	105	109	
PAN 1532 R	146	144	143	147	130	142	128	121	119	138	127	127	122	121	122	125	112	109	111	
SSS 5052 (tuc)	146	151	143	147	133	144	130	125	127	134	121	121	117	127	114	124	112	113	113	
5609 RSF	139	151	143	147	133	143	128	117	119	134	127	127	118	128	114	123	115	119	117	
PAN 1521 R	146	144	155	141	133	144	126	116	114	126	127	127	122	128	136	124	115	113	114	
5302 RSF	139	144	150	147	141	144	123	120	114	138	114	114	118	129	114	121	112	105	109	
LS 6261 R	146	144	155	154	141	148	127	116	124	134	114	114	122	125	122	123	115	105	110	
SSS 5755 (tuc)	154	151	155	154	133	149	127	120	129	130	121	121	122	136	122	126	123	113	118	
NS 5909 R	154	161	155	147	141	152	132	132	119	138	121	121	125	134	126	128	115	113	114	
LDC 5.9	146	151	155	147	133	146	129	124	127	138	121	121	122	136	114	126	115	119	117	
PHB 96 T 06 R	154	161	155	154	141	153	134	125	127	134	127	127	128	138	122	129	115	119	117	
LDC 6.0	146	161	155	147	141	150	129	127	127	126	120	120	122	135	122	126	115	113	114	
PAN 1623 R	154	161	143	147	133	148	128	123	121	134	121	121	122	135	126	127	115	113	114	
LS 6161 R	146	144	155	154	133	146	131	125	121	130	115	115	117	136	114	124	112	113	113	
P61T38 R	154	151	143	147	141	147	136	123	140	138	127	127	128	136	122	131	115	119	117	
SSS 6560 (tuc)	154	151	137	147	133	144	130	129	140	126	127	127	132	136	122	130	115	113	114	
6663 RSF	154	161	155	150	156	155	131	127	129	134	127	127	128	138	126	130	137	119	128	
LS 6164 R	154	161	143	147	141	149	128	118	142	138	141	141	138	138	114	132	115	113	114	
PAN 1614 R	154	161	143	147	141	149	130	121	119	130	131	131	122	133	126	127	115	113	114	
NS 6448 R	154	161	143	154	141	151	133	126	127	126	141	141	132	137	114	130	137	113	125	
P64T39 R	158	161	155	154	156	157	134	124	127	138	127	127	122	136	126	129	115	113	114	
DM 6.8i RR	154	161	155	154	149	155	135	130	148	138	127	127	128	139	114	132	137	119	128	
6968 RSF	158	161	155	154	151	156	135	131	129	126	121	121	122	141	122	128	115	119	117	
NS 7211 R	154	161	155	154	156	156	130	123	148	134	127	127	132	138	114	131	123	119	121	
Gem/Mean	145	150	140	146	136	143	127	121	125	129	123	123	122	129	121	125	116	112	114	

Table 6 Die aantal dae vanaf plant tot oes stadium van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 6 The number of days from planting to maturity of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool					Matig/Moderate					Warm									
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Kroonstad	Potchefstroom	Besproei	Potchefstroom	Droog	Stoffberg	Verkeerdeveit	Gem/Mean	Brits	Brits K2
LS 6240 R	146	144	147	135	141	133	141	121	123	134	138	151	138	135	152	129	135	124	113	119
PAN 1454 R	146	161	155	133	141	143	147	122	152	134	138	144	138	135	136	129	136	122	124	123
SSS 4945 (tuc)	146	154	155	133	145	133	144	121	124	134	138	148	138	135	138	129	133	122	113	118
LS 6146 R	146	154	155	134	141	133	144	119	125	134	138	138	138	135	136	133	132	124	113	119
PHB 94 Y 80 R	146	161	151	133	141	133	144	121	132	134	138	138	138	135	134	129	133	124	126	125
LS 6248 R	163	161	175	141	163	146	158	132	128	134	148	142	148	150	152	142	141	126	123	125
SSS 5449 (tuc)	158	161	170	147	155	148	157	125	138	161	138	137	138	135	138	138	139	122	115	119
PHB 95 Y 20 R	165	168	184	147	170	167	167	130	123	134	148	161	148	150	167	161	147	127	130	129
DM 5953 RSF	146	154	155	133	141	133	144	124	125	134	138	138	138	135	134	129	132	126	115	121
PAN 1532 R	160	161	179	149	167	146	161	133	135	134	148	152	148	141	140	152	142	126	119	123
SSS 5052 (tuc)	165	168	198	151	168	163	169	135	144	134	167	158	167	150	167	157	151	139	123	131
5609 RSF	160	168	169	145	163	167	162	133	128	134	153	150	153	146	167	161	147	129	123	126
PAN 1521 R	168	161	179	149	158	146	160	131	126	134	157	151	157	139	167	161	143	131	125	128
5302 RSF	160	161	170	140	160	151	157	127	138	134	148	148	148	135	134	142	138	124	119	122
LS 6261 R	163	161	184	141	182	154	164	134	123	134	153	148	148	141	167	142	143	126	121	124
SSS 5755 (tuc)	173	168	193	150	177	169	172	133	143	134	167	146	167	143	167	161	149	131	128	130
NS 5909 R	175	168	193	151	182	169	173	137	153	168	162	164	162	146	167	161	157	134	130	132
LDC 5,9	182	168	193	156	173	165	173	134	148	148	167	167	167	146	157	143	151	137	141	139
PHB 96 T 06 R	173	168	189	146	177	163	169	138	145	147	167	161	167	143	152	161	152	134	130	132
LDC 6.0	175	168	198	150	173	167	172	134	144	148	162	156	162	146	152	161	151	137	125	131
PAN 1623 R	168	168	184	150	177	169	169	133	134	134	158	151	158	139	167	147	145	129	123	126
LS 6161 R	168	161	179	149	177	149	164	135	139	134	153	152	153	143	167	142	146	129	130	130
P61T38 R	165	168	189	139	175	160	166	141	136	155	158	155	158	146	167	171	154	139	125	132
SSS 6560 (tuc)	182	168	193	151	177	154	171	135	143	155	162	164	162	146	167	166	155	139	141	140
6663 RSF	178	168	198	156	182	169	175	136	159	168	167	167	167	159	167	171	162	141	125	133
LS 6164 R	172	168	170	139	182	167	166	134	132	155	167	158	167	146	167	147	151	126	136	131
PAN 1614 R	182	168	189	151	173	163	171	136	147	147	167	152	167	146	167	171	154	126	123	125
NS 6448 R	170	168	189	149	165	163	167	137	143	147	153	152	152	146	162	161	150	134	123	129
P64T39 R	187	168	189	151	182	165	174	136	142	148	162	158	162	150	167	151	152	136	136	136
DM 6.8i RR	187	168	198	153	182	163	175	139	157	161	167	167	167	159	167	171	161	143	141	142
6968 RSF	187	168	198	157	182	169	177	139	153	168	167	167	167	159	167	171	161	141	136	138
NS 7211 R	170	168	198	148	168	169	170	135	150	161	162	157	162	151	167	162	156	139	125	132
Gem/Mean	167	164	180	145	167	156	163	132	139	144	155	153	155	144	157	151	147	131	126	128

Tabel 7 Die planthoogte van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 7 The plant height of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool					Matig/Moderate								Warm								
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchetstroom	Besproei	Potchetstroom	Droog	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2
LS 6240 R	62	75	75	101	57	48	70	79	68	76	78	78	57	98	85	85	54	73	74	40	58	49
PAN 1454 R	93	90	88	116	64	58	85	102	98	106	93	78	78	102	97	70	87	92	92	45	63	54
SSS 4945 (tuc)	62	90	68	83	57	52	69	75	70	72	78	77	77	90	78	57	67	74	74	50	60	55
LS 6146 R	82	90	77	111	59	54	79	90	83	99	100	73	102	91	91	71	75	87	87	48	65	57
PHB 94 Y 80 R	55	70	60	79	63	45	62	74	67	78	74	55	55	103	80	56	63	72	72	42	50	46
LS 6248 R	93	105	85	104	85	77	91	103	86	97	103	95	103	85	74	73	91	91	55	68	62	
SSS 5449 (tuc)	87	100	80	99	83	73	87	90	72	92	97	85	117	95	71	78	89	89	50	56	53	
PHB 95 Y 20 R	77	90	73	106	68	60	79	95	79	78	93	73	98	71	81	77	83	83	52	58	55	
DM 5953 RSF	90	80	67	93	78	50	76	79	78	81	87	68	107	88	65	85	82	82	67	81	74	
PAN 1532 R	82	80	67	111	73	62	79	74	65	76	80	72	102	70	68	70	75	75	42	46	44	
SSS 5052 (tuc)	90	90	82	108	92	78	90	100	80	100	97	102	110	80	68	85	91	91	52	63	58	
5609 RSF	65	85	62	92	57	57	70	84	65	70	72	65	74	72	48	67	68	68	42	50	46	
PAN 1521 R	102	85	92	110	100	82	95	93	88	91	98	103	108	92	77	93	94	94	77	92	84	
5302 RSF	83	90	78	102	75	65	82	84	72	88	82	78	105	82	69	82	82	82	50	61	56	
LS 6261 R	78	85	65	105	70	63	78	72	67	76	82	78	78	100	70	67	74	76	52	51	51	
SSS 5755 (tuc)	87	100	65	109	85	71	86	89	79	96	102	90	90	95	73	77	88	88	47	61	54	
NS 5909 R	98	100	72	105	90	79	91	105	83	99	110	99	125	85	87	75	97	97	53	68	61	
LDC 5.9	93	80	87	118	112	81	95	100	80	102	107	103	128	92	85	95	99	99	78	73	76	
PHB 96 T 06 R	95	105	85	118	93	85	97	104	88	105	117	107	133	97	102	83	104	104	62	73	68	
LDC 6.0	75	60	60	100	72	60	71	77	60	75	85	95	82	73	67	65	75	75	40	57	48	
PAN 1623 R	92	95	88	108	90	84	93	97	89	99	102	93	120	90	67	82	93	93	57	72	64	
LS 6161 R	93	90	93	105	87	83	92	92	90	89	98	103	92	93	92	94	94	94	58	78	68	
P61T38 R	62	85	63	97	60	54	70	92	73	74	95	72	72	70	66	73	76	76	50	57	54	
SSS 6560 (tuc)	92	105	75	94	95	64	88	87	75	86	105	90	103	87	74	77	87	87	57	70	64	
6663 RSF	103	110	72	95	100	88	95	120	93	98	115	107	137	110	93	78	106	106	58	73	66	
LS 6164 R	105	105	82	95	95	92	96	110	92	118	110	113	103	103	88	92	103	103	60	87	73	
PAN 1614 R	103	95	82	118	105	85	98	111	100	109	118	103	124	100	82	83	104	104	55	63	59	
NS 6448 R	75	100	67	107	75	63	81	102	100	97	107	87	97	78	79	77	92	92	53	57	55	
P64T39 R	110	100	98	106	103	86	101	102	89	107	110	103	115	93	78	90	99	99	77	93	85	
DM 6.8iRR	111	100	90	133	110	97	107	115	102	116	118	120	143	103	97	93	112	112	65	93	79	
6968 RSF	113	110	92	115	107	86	104	106	96	100	105	113	148	87	93	92	104	104	59	87	73	
NS 7211 R	68	95	67	107	77	67	80	101	73	74	103	73	105	72	83	83	85	85	46	67	56	
Gem/Mean	87	92	77	105	82	70	85	94	81	91	98	89	107	86	75	80	89	89	54	67	61	

Tabel 8 Die peulhoogte van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 8 The pod height of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool						Matig/Moderate						Warm											
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchefstrom	Besproei	Potchefstrom	Droog	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean	
LS 6240 R	3	8	7	12	6	2	6	12	10	10	9	6	14	8	14	8	7	8	8	9	3	9	9	6
PAN 1454 R	8	7	8	10	6	4	7	14	14	9	7	5	13	12	13	12	12	10	11	11	4	9	9	7
SSS 4945 (tuc)	4	7	6	8	7	2	6	11	9	10	9	4	13	8	13	8	3	6	8	8	3	7	5	5
LS 6146 R	9	7	7	12	7	2	7	12	14	16	11	3	11	10	11	10	8	7	10	10	3	8	6	6
PHB 94 Y 80 R	2	6	4	6	6	1	4	12	12	9	3	4	15	9	15	9	5	3	8	8	5	6	5	5
LS 6248 R	9	15	8	9	10	5	10	22	17	18	22	10	11	8	11	8	18	5	15	15	6	10	8	8
SSS 5449 (tuc)	6	7	9	14	7	5	8	20	14	12	18	8	12	10	12	10	12	9	13	13	3	7	5	5
PHB 95 Y 20 R	10	10	8	12	9	6	9	20	17	20	22	11	12	8	12	8	22	6	15	15	7	10	9	9
DM 5953 RSF	10	5	4	8	8	1	6	11	13	12	9	5	17	11	17	11	5	7	10	10	5	10	8	8
PAN 1532 R	6	18	5	15	8	4	9	13	12	14	13	6	13	8	13	8	8	6	10	10	2	8	5	5
SSS 5052 (tuc)	9	16	9	14	10	7	11	20	15	16	17	9	14	8	14	8	14	9	14	14	6	10	8	8
5609 RSF	5	10	7	9	6	4	7	15	15	17	12	7	12	8	12	8	4	4	10	10	3	7	5	5
PAN 1521 R	10	10	13	17	11	5	11	19	17	17	18	10	10	9	15	9	9	11	14	14	7	11	9	9
5302 RSF	7	3	9	14	6	2	7	14	13	12	8	5	15	9	15	9	13	8	11	11	2	8	5	5
LS 6261 R	7	10	4	22	8	7	10	18	16	19	17	7	11	8	11	8	14	8	13	13	5	10	8	8
SSS 5755 (tuc)	11	10	4	14	9	8	9	18	14	17	18	8	10	11	10	11	16	8	13	13	4	9	6	6
NS 5909 R	7	16	9	12	11	8	11	28	21	20	20	10	10	9	19	9	24	8	18	18	5	9	7	7
LDC 5.9	3	10	8	15	12	7	9	17	13	18	24	7	14	10	14	10	13	9	14	14	8	9	8	8
PHB 96 T 06 R	8	15	9	12	7	7	10	18	12	14	25	8	12	9	12	9	24	7	14	14	5	7	6	6
LDC 6.0	5	3	2	16	6	4	6	13	10	13	19	6	9	8	9	8	11	7	11	11	5	7	6	6
PAN 1623 R	7	9	12	12	8	4	9	17	17	17	17	9	14	9	14	9	15	8	14	14	3	9	6	6
LS 6161 R	11	8	10	13	10	9	10	18	20	18	18	12	11	10	11	10	20	11	15	15	6	12	9	9
P61T38 R	9	15	5	10	10	8	9	25	21	22	20	9	8	7	8	7	25	7	16	16	7	11	9	9
SSS 6560 (tuc)	8	15	8	10	11	7	10	18	14	17	20	7	10	10	10	10	16	8	13	13	6	9	7	7
6663 RSF	9	13	7	9	8	7	9	21	15	16	20	8	14	15	14	15	22	6	15	15	5	8	7	7
LS 6164 R	9	10	7	11	9	8	9	22	18	24	25	11	12	12	12	12	27	11	18	17	7	12	9	9
PAN 1614 R	12	11	10	14	11	9	11	25	18	18	27	8	16	11	16	11	26	8	17	17	7	12	9	9
NS 6448 R	9	17	4	13	7	6	10	20	16	15	23	9	14	10	14	10	19	8	15	15	6	11	9	9
P64T39 R	8	16	12	11	8	6	10	19	16	16	24	7	11	9	11	9	12	12	14	14	6	12	9	9
DM 6.8i RR	8	15	8	10	11	8	10	23	21	22	19	11	14	13	14	13	27	12	18	18	8	13	10	10
6968 RSF	11	20	11	17	13	8	13	24	24	18	20	11	14	10	14	10	23	10	17	17	6	11	9	9
NS 7211 R	8	18	4	13	8	5	9	21	17	16	23	7	13	8	13	8	15	10	14	14	4	8	6	6
Gem/Mean	8	11	7	12	9	6	9	18	15	16	17	8	13	10	13	10	15	8	13	13	5	9	7	7



Tabel 9 Omvalwaarnemings (1-5) van die verskillende soja-boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 9 Lodging data (1-5) of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool					Matig/Moderate							Warm								
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Kroonstad	Potchetstroom	Besproei	Potchetstroom	Droeg	Stoffberg	Verkeerdevel	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	1.00	1.00	1.00	2.33	1.00	1.00	1.22	1.00	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.08	1.67	1.00	1.33
PAN 1454 R	1.00	1.00	1.00	3.33	1.00	1.00	1.39	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00
SSS 4945 (tuc)	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.25	1.00	1.00	1.00
LS 6146 R	1.00	1.00	1.00	3.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHB 94 Y 80 R	1.00	1.00	1.00	3.67	1.00	1.00	1.44	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LS 6248 R	1.00	1.00	1.00	2.67	1.00	1.00	1.28	1.00	1.00	1.00	1.28	1.33	1.00	1.00	1.00	1.00	1.00	1.04	1.33	1.00	1.17
SSS 5449 (tuc)	1.00	1.00	1.00	2.67	1.00	1.00	1.28	1.00	1.00	1.00	1.28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHB 95 Y 20 R	1.00	4.00	1.00	3.67	1.00	1.00	1.94	1.00	1.00	1.00	1.94	1.00	1.00	1.00	1.00	1.00	1.00	1.08	1.00	1.00	1.00
DM 5953 RSF	1.00	1.00	1.00	2.67	1.00	1.00	1.28	1.00	1.00	1.00	1.28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1532 R	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SSS 5052 (tuc)	1.00	1.00	1.00	4.67	1.33	1.00	1.67	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5609 RSF	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1521 R	2.67	1.00	1.00	4.33	4.33	1.00	2.39	1.00	1.00	1.00	2.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5302 RSF	1.00	1.00	1.00	3.33	1.00	1.00	1.39	1.00	1.00	1.00	1.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LS 6261 R	1.00	1.00	1.00	2.33	1.00	1.00	1.22	1.00	1.00	1.00	1.22	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00
SSS 5755 (tuc)	1.00	1.00	1.00	2.33	1.00	1.00	1.22	1.00	1.00	1.00	1.22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NS 5909 R	1.33	1.00	1.00	5.00	1.00	1.00	1.72	1.00	1.00	1.00	1.72	1.00	1.00	1.00	1.00	1.00	1.08	1.00	1.00	1.00	1.00
LDC 5,9	1.00	1.00	1.00	5.00	4.67	1.00	2.28	1.00	1.00	1.00	2.28	1.00	1.00	1.00	1.00	1.00	1.29	1.00	1.00	1.00	1.00
PHB 96 T 06 R	1.00	1.00	1.00	4.67	1.33	1.00	1.67	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.08	1.00	1.00	1.00	1.00
LDC 6.0	1.00	1.00	1.00	3.67	2.00	1.00	1.61	1.00	1.00	1.00	1.61	1.00	1.00	1.00	1.00	1.00	1.08	1.00	1.00	1.00	1.00
PAN 1623 R	1.00	1.00	1.00	5.00	1.33	1.00	1.72	1.00	1.00	1.00	1.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LS 6161 R	1.33	1.00	1.00	3.00	1.00	1.00	1.39	1.00	1.00	1.00	1.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
P61T38 R	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	1.00	1.13	1.00	1.00	1.00	1.00
SSS 6560 (tuc)	1.00	1.00	1.00	4.33	1.00	1.00	1.56	1.00	1.00	1.00	1.56	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6663 RSF	1.00	3.00	1.00	5.00	1.33	1.00	2.06	1.00	1.00	1.00	2.06	1.33	1.00	1.00	1.00	1.00	1.08	1.00	1.00	1.00	1.00
LS 6164 R	1.00	1.00	1.00	4.00	2.00	1.00	1.67	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1614 R	1.33	1.00	1.00	5.00	1.00	1.00	1.72	1.00	1.00	1.00	1.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NS 6448 R	1.00	1.00	1.00	5.00	1.00	1.00	1.67	1.00	1.00	2.33	1.67	1.00	1.00	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00
P64T39 R	1.33	1.00	1.00	4.00	3.00	1.00	1.89	1.00	1.00	1.00	1.89	3.33	1.00	1.00	1.00	1.00	1.29	1.00	1.00	1.00	1.00
DM 6.81 RR	1.00	3.00	1.00	5.00	1.33	1.00	2.06	1.00	1.00	1.00	2.06	2.33	1.00	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00
6968 RSF	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00
NS 7211 R	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Gem/Mean	1.09	1.22	1.00	3.49	1.40	1.00	1.53	1.00	1.00	1.04	1.02	1.43	1.00	1.00	1.00	1.00	1.06	1.03	1.00	1.00	1.02

Tabel 10 Groenstam (1-5) van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 10 Greenstem (1-5) of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool						Matig/Moderate						Warm					
	Bethlehem	Clarens	Clocolan	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Kroonstad	Besproei	Potchetstroom	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	1.00	1.00	2.00	2.67	1.33	1.60	1.33	1.00	1.00	2.67	4.00	2.67	1.00	1.67	1.92	3.33	1.67	2.50
PAN 1454 R	1.67	1.00	2.00	3.33	4.00	2.40	2.67	3.00	1.00	2.33	4.00	2.33	2.00	3.00	2.54	4.67	3.67	4.17
SSS 4945 (tuc)	1.33	1.00	2.00	2.00	2.33	1.73	1.67	1.00	1.00	3.00	4.67	2.67	1.00	3.33	2.29	5.00	2.00	3.50
LS 6146 R	1.00	1.00	2.00	2.33	1.33	1.53	1.00	1.00	1.00	3.00	2.67	2.33	5.00	1.00	2.13	5.00	1.67	3.33
PHB 94 Y 80 R	2.33	1.00	2.67	3.00	3.33	2.47	4.67	1.00	1.00	3.00	4.33	3.00	1.00	4.00	2.75	4.67	2.67	3.67
LS 6248 R	2.33	1.00	2.67	4.33	4.00	2.87	1.00	1.00	1.00	4.00	4.00	3.00	2.00	1.33	2.17	3.67	3.00	3.33
SSS 5449 (tuc)	1.67	1.00	2.67	3.33	4.67	2.67	1.00	1.00	1.00	4.00	2.67	3.67	1.00	1.33	1.96	3.33	3.00	3.33
PHB 95 Y 20 R	4.33	1.00	3.67	5.00	4.67	3.73	1.67	1.33	1.00	4.00	4.67	3.00	5.00	4.00	3.08	4.33	2.33	3.33
DM 5953 RSF	1.33	1.00	1.67	2.00	1.67	1.53	1.33	1.00	1.00	3.67	3.00	2.33	1.00	1.00	1.79	4.00	2.67	3.33
PAN 1532 R	2.33	1.00	2.33	3.67	2.33	2.33	1.00	1.00	1.00	2.00	4.67	2.67	1.00	1.33	1.83	3.00	1.67	2.33
SSS 5052 (tuc)	2.33	1.00	1.33	3.00	2.67	2.07	1.00	1.00	1.00	3.67	4.67	3.33	3.00	2.00	2.46	4.00	2.00	3.00
5609 RSF	2.00	1.00	2.67	4.67	4.67	3.00	1.00	1.00	1.00	4.67	4.33	3.00	3.00	2.33	2.54	4.67	3.00	3.83
PAN 1521 R	3.67	1.00	3.00	3.67	2.33	2.73	1.00	1.00	1.00	2.67	4.33	2.33	2.00	1.00	1.92	4.67	1.00	2.83
5302 RSF	1.67	1.00	2.67	4.00	3.33	2.53	1.00	1.00	1.00	2.33	4.00	2.00	1.00	1.67	1.75	3.67	2.67	3.17
LS 6261 R	3.67	1.00	3.33	5.00	5.00	3.60	2.33	1.00	1.33	4.67	4.00	4.00	2.00	1.33	2.58	5.00	3.00	4.00
SSS 5755 (tuc)	2.67	1.00	2.33	4.00	1.67	2.33	1.33	1.00	1.00	3.67	4.00	4.67	4.00	1.33	2.63	3.67	2.00	2.83
NS 5909 R	4.67	1.00	1.67	4.00	2.67	2.80	2.33	1.00	1.00	4.67	4.67	3.33	3.00	2.00	2.75	4.67	2.67	3.67
LDC 5.9	4.00	1.00	2.33	4.00	1.67	2.60	1.00	1.33	1.00	3.00	4.67	3.33	1.00	2.00	2.17	4.00	2.33	3.17
PHB 96 T 06 R	2.33	1.00	1.33	1.33	1.00	1.40	1.33	1.00	1.00	2.00	5.00	3.67	1.00	2.00	2.13	4.67	1.33	3.00
LDC 6.0	5.00	1.00	2.33	3.67	3.67	3.13	1.00	1.00	1.00	4.00	4.67	3.33	1.00	2.00	2.25	5.00	2.33	3.67
PAN 1623 R	1.67	1.00	2.33	2.67	1.67	1.87	1.00	1.00	1.00	3.33	4.00	5.00	1.00	1.67	2.25	3.00	1.67	2.33
LS 6161 R	4.33	1.00	1.67	4.00	1.33	2.47	1.00	1.00	1.00	4.33	4.33	4.00	1.00	2.67	2.42	4.67	2.00	3.33
P61T38 R	3.00	1.00	2.67	4.67	4.33	3.13	1.67	1.00	1.00	4.33	4.00	3.67	5.00	1.33	2.75	5.00	1.33	3.17
SSS 6560 (tuc)	3.00	1.00	2.00	2.00	3.33	2.27	1.33	1.00	1.00	4.67	4.67	3.33	1.00	1.00	2.25	4.33	2.00	3.17
6663 RSF	4.00	1.00	2.00	3.67	4.67	3.07	1.67	1.00	1.67	4.33	5.00	3.33	5.00	2.00	3.00	5.00	1.00	3.00
LS 6164 R	4.00	1.00	2.00	4.33	4.00	3.07	1.33	1.00	1.00	3.33	4.33	4.00	5.00	2.00	2.75	3.67	2.67	3.17
PAN 1614 R	3.33	1.00	2.00	3.33	2.33	2.40	1.33	1.00	1.00	4.67	4.67	4.00	2.00	2.00	2.58	3.67	2.00	2.83
NS 6448 R	1.00	1.00	2.00	2.67	1.33	1.60	1.00	1.00	1.00	1.67	4.33	3.33	3.00	2.33	2.21	3.67	1.00	2.33
P64T39 R	4.33	1.00	1.67	3.33	1.67	2.40	1.00	1.00	1.00	2.00	5.00	3.00	1.00	1.67	1.96	4.67	2.67	3.67
DM 6.8i RR	2.67	1.00	2.67	2.67	1.67	2.13	1.00	1.00	1.00	3.67	5.00	4.00	1.00	2.00	2.33	5.00	3.00	4.00
6968 RSF	5.00	1.00	2.00	3.67	2.67	2.87	1.33	1.00	1.00	3.67	5.00	3.33	2.00	2.33	2.46	5.00	2.00	3.50
NS 7211 R	4.00	1.00	2.00	4.33	5.00	3.27	1.33	1.00	1.00	4.67	4.67	3.67	5.00	2.33	2.96	4.00	1.67	2.83
Gem/Mean	2.86	1.00	2.24	3.45	2.89	2.49	1.43	1.08	1.03	3.49	4.31	3.29	2.28	1.97	2.36	4.27	2.19	3.23

Tabel 11 Oorsprong (1-5) van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 11 Shattering (1-5) of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool										Matige/Moderate					Warm				
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Dundee	Greytown	Kroonstad	Potchetstroom	Besroel	Potchetstroom	Droog	Stoffberg	Verkeerdevel	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	2.00	1.00	3.00	2.33	5.00	1.00	2.39	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	2.00	1.29	3.00	3.00	3.00
PAN 1454 R	1.00	1.00	1.00	4.00	4.00	2.00	2.17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.14	5.00	3.00	4.00
SSS 4945 (tuc)	3.00	2.00	3.00	5.00	5.00	4.00	3.67	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.38	5.00	3.00	4.00
LS 6146 R	2.00	2.00	3.00	2.67	5.00	1.00	2.61	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	2.00	1.57	4.00	3.00	3.50
PHB 94 Y 80 R	2.00	2.00	3.00	5.00	4.00	3.00	3.17	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	3.00	1.57	5.00	3.00	4.00
LS 6248 R	2.00	1.00	1.00	3.67	5.00	1.00	2.28	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	3.00	1.71	5.00	3.00	4.00
SSS 5449 (tuc)	2.00	1.00	1.00	3.67	5.00	1.00	2.28	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	3.00	1.57	5.00	4.00	4.50
PHB 95 Y 20 R	1.00	1.00	2.00	2.00	5.00	1.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	2.00	1.43	5.00	2.00	3.50
DM 5953 RSF	2.00	1.00	2.00	3.00	4.00	2.00	2.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.29	2.00	4.00	3.00
PAN 1532 R	1.00	1.00	1.00	2.00	1.00	1.00	1.17	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.29	1.00	3.00	2.00
SSS 5052 (tuc)	2.00	1.00	1.00	1.33	3.00	1.00	1.56	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	3.00	1.57	1.00	2.00	1.50
5609 RSF	1.00	1.00	2.00	3.67	4.00	1.00	2.11	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.43	4.00	3.00	3.50
PAN 1521 R	1.00	1.00	2.00	2.33	3.00	1.00	1.72	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.43	1.00	2.00	1.50
5302 RSF	2.00	1.00	2.00	4.67	4.00	1.00	2.44	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.43	5.00	2.00	3.50
LS 6261 R	1.00	1.00	3.00	3.33	3.00	1.00	2.06	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	5.00	4.00	4.50
SSS 5755 (tuc)	3.00	1.00	3.00	1.00	1.00	1.00	1.67	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	2.00	1.43	3.00	1.00	2.00
NS 5909 R	3.00	1.00	1.00	2.33	4.00	2.33	2.28	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	2.00	1.43	2.00	2.00	2.00
LDC 5.9	1.00	1.00	1.00	3.00	2.00	1.00	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.14	1.00	1.00	1.00
PHB 96 T 06 R	2.00	1.00	1.00	1.33	1.00	1.00	1.22	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.29	1.00	3.00	2.00
LDC 6.0	1.00	1.00	1.00	2.67	4.00	1.00	1.78	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.43	2.00	2.00	2.00
PAN 1623 R	1.00	1.00	1.00	1.33	4.00	1.00	1.56	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.50
LS 6161 R	2.00	1.00	1.00	3.67	5.00	1.00	2.28	1.00	1.33	2.00	4.00	4.00	4.00	1.00	1.00	3.00	2.33	5.00	3.00	4.00
P61T38 R	1.00	1.00	1.00	2.67	1.00	1.00	1.28	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.14	2.00	1.00	1.50
SSS 6560 (tuc)	2.00	1.00	1.00	2.33	2.50	1.00	1.64	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00	2.00	1.57	2.00	2.00	2.00
6663 RSF	2.00	1.00	1.00	1.67	1.00	1.00	1.28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.29	1.00	4.00	2.50
LS 6164 R	1.00	1.00	3.00	2.67	5.00	1.00	2.28	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.38	5.00	2.00	3.50
PAN 1614 R	3.00	1.00	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.29	2.00	2.00	4.00
NS 6448 R	2.00	1.00	3.00	4.00	4.00	3.00	2.83	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.29	4.00	5.00	4.50
P64T39 R	2.00	1.00	1.00	2.33	1.00	1.00	1.39	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.14	1.00	1.00	1.00
DM 6.8i RR	2.00	1.00	1.00	2.67	1.00	1.00	1.44	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.29	1.00	2.00	1.50
6968 RSF	1.00	1.00	2.00	1.00	3.00	1.00	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.50
NS 7211 R	2.00	1.00	2.00	4.00	5.00	1.00	2.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	4.00	4.00
Gem/Mean	1.75	1.09	1.72	2.76	3.30	1.32	1.99	1.00	1.05	1.34	1.66	1.66	1.66	1.66	1.00	1.81	1.36	2.97	2.56	2.77

Tabel 13 Persentasie ongewenste sade van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 13 Percentage undesirable seed of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool										Matig/Moderate						Warm							
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchefstroom	Besprei	Potchefstroom	Droog	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean	
	LS 6240 R	0.00	0.20	0.43	0.40	1.14	0.30	0.41	0.00	2.50	0.60	0.80	0.60	0.60	0.37	0.65	0.60	0.60	0.60	0.60	0.75	0.60	0.30	0.45
PAN 1454 R	0.39	0.90	1.00	0.30	0.99	0.80	0.73	0.00	2.00	0.80	0.90	0.60	0.60	0.50	0.57	0.60	0.50	0.60	0.60	0.72	0.70	0.40	0.55	0.55
SSS 4945 (tuc)	0.14	0.20	0.87	0.40	0.80	0.10	0.42	0.30	1.10	0.30	0.40	0.50	0.50	0.81	0.35	0.60	0.60	0.60	0.55	0.60	1.20	0.20	0.70	0.70
LS 6146 R	0.27	0.40	0.35	0.50	1.78	0.40	0.62	0.40	0.50	0.30	0.50	2.00	2.00	1.45	1.05	0.80	1.40	0.93	0.60	0.90	0.60	1.20	0.90	0.90
PHB 94 Y 80 R	0.22	0.00	0.64	0.60	2.00	1.50	0.83	0.70	0.90	0.40	0.40	0.90	0.90	0.65	0.71	0.90	0.70	0.70	0.90	0.70	0.90	0.90	0.90	0.90
LS 6248 R	0.68	2.20	1.57	0.00	0.44	1.00	0.98	0.40	0.60	0.60	0.60	0.20	0.31	0.79	1.36	1.10	0.80	0.68	0.60	0.60	0.50	0.50	0.55	0.55
SSS 5449 (tuc)	0.24	0.90	1.07	0.00	0.11	0.10	0.40	0.00	0.80	0.10	0.20	0.60	0.60	0.00	1.38	0.80	0.30	0.46	0.90	0.20	0.90	0.20	0.55	0.55
PHB 95 Y 20 R	1.52	0.00	0.39	0.10	0.52	1.00	0.59	0.30	0.80	0.20	0.40	0.80	0.80	0.69	3.12	0.90	1.10	0.92	1.80	0.10	0.90	0.10	0.95	0.95
DM 5953 RSF	0.32	0.00	0.81	0.00	0.34	0.70	0.36	0.10	1.60	0.80	0.40	0.00	0.40	0.86	0.79	0.80	0.20	0.62	1.70	0.70	1.70	0.70	1.20	1.20
PAN 1532 R	1.22	0.10	0.27	0.00	1.19	0.50	0.55	0.00	0.20	0.00	0.50	0.00	0.00	0.22	0.33	0.40	1.30	0.33	0.50	0.30	0.50	0.30	0.40	0.40
SSS 5052 (tuc)	0.45	1.00	1.06	0.40	0.34	0.20	0.58	0.20	0.40	0.00	0.40	0.40	0.40	0.25	2.43	0.40	2.00	0.72	1.60	0.60	1.60	0.60	1.10	1.10
5609 RSF	0.84	0.40	0.07	0.00	0.40	1.00	0.45	0.30	0.50	0.40	0.10	0.31	0.11	0.11	0.61	0.40	0.20	0.33	0.80	0.20	0.80	0.20	0.50	0.50
PAN 1521 R	0.96	3.40	0.58	0.00	1.37	0.00	1.05	0.30	0.50	0.80	0.00	0.40	0.40	0.90	0.73	0.50	1.00	0.57	0.80	0.50	0.80	0.50	0.65	0.65
5302 RSF	0.74	1.60	0.60	0.00	0.62	0.70	0.71	0.20	0.00	0.00	0.30	0.40	0.40	0.10	0.27	0.60	0.90	0.31	0.80	0.60	0.60	0.60	0.70	0.70
LS 6261 R	0.58	0.60	1.20	0.00	0.80	0.70	0.65	0.50	0.00	0.40	0.30	0.40	0.40	0.35	1.32	1.00	0.90	0.57	1.80	0.90	1.80	0.90	1.35	1.35
SSS 5755 (tuc)	0.44	1.10	0.86	0.10	0.83	0.30	0.61	0.10	0.30	0.50	0.20	1.10	0.30	0.30	0.97	1.00	1.00	0.61	1.20	0.50	1.20	0.50	0.85	0.85
NS 5909 R	0.62	0.40	0.66	0.10	0.27	0.80	0.48	0.80	0.70	0.30	0.40	0.20	0.50	0.50	0.64	0.80	1.70	0.67	1.10	0.60	1.10	0.60	0.85	0.85
LDC 5.9	0.30	2.00	0.21	0.60	0.61	0.80	0.75	0.20	0.30	0.30	0.00	0.00	0.00	0.40	0.60	1.10	1.40	0.46	0.90	0.20	0.90	0.20	0.55	0.55
PHB 96 T 06 R	0.60	0.90	0.76	0.40	0.78	0.30	0.62	0.00	0.90	0.10	0.30	0.70	0.70	0.76	0.50	1.00	2.10	0.71	0.80	0.70	0.80	0.70	0.75	0.75
LDC 6.0	0.20	0.50	0.24	0.40	0.51	1.40	0.54	0.10	0.60	0.40	0.20	0.50	0.50	0.67	0.87	0.30	0.40	0.45	0.50	0.40	0.50	0.40	0.45	0.45
PAN 1623 R	0.79	1.90	0.50	0.30	0.30	1.10	0.82	0.60	0.40	0.30	0.20	0.10	0.31	0.31	1.36	0.60	2.30	0.69	0.80	0.60	0.80	0.60	0.70	0.70
LS 6161 R	0.29	1.30	0.52	0.00	0.12	0.20	0.41	0.60	0.30	0.40	0.10	0.10	0.09	0.09	1.37	0.40	0.90	0.47	0.90	0.40	0.90	0.70	0.80	0.80
P61T38 R	0.96	1.50	0.14	0.00	0.40	0.70	0.62	0.00	0.10	0.50	0.00	0.00	0.00	0.56	0.63	0.40	0.80	0.33	1.40	0.10	1.40	0.10	0.75	0.75
SSS 6560 (tuc)	0.32	1.30	0.81	0.20	0.20	0.50	0.56	0.00	0.10	0.50	0.00	0.00	0.00	0.46	0.66	0.40	2.10	0.47	1.50	1.00	1.50	1.00	1.25	1.25
6663 RSF	0.78	0.80	1.32	0.10	0.14	1.90	0.84	0.50	2.30	0.80	0.10	0.60	0.60	0.77	0.76	0.70	2.50	1.00	4.10	1.00	4.10	1.10	2.60	2.60
LS 6164 R	0.41	1.00	1.13	0.30	0.70	0.90	0.74	0.30	0.10	1.00	0.20	0.30	0.30	0.42	1.29	0.40	0.40	0.49	0.90	1.00	0.90	1.00	0.95	0.95
PAN 1614 R	0.30	1.50	0.60	0.50	0.37	0.20	0.58	0.40	0.40	0.20	0.20	0.20	0.20	0.45	0.20	0.50	3.40	0.66	1.50	0.80	1.50	0.80	1.15	1.15
NS 6448 R	0.18	1.20	0.41	0.20	0.56	0.70	0.54	0.60	0.80	0.90	0.10	0.20	0.20	0.26	0.37	0.60	1.80	0.63	4.40	1.10	4.40	1.10	2.75	2.75
P64T39 R	0.93	0.50	0.58	0.20	0.47	1.30	0.66	0.40	0.90	1.60	0.00	1.00	1.00	0.29	0.35	0.40	2.40	0.82	1.10	0.40	1.10	0.40	0.75	0.75
DM 6.8i RR	0.66	3.80	0.72	0.10	1.47	0.30	1.18	0.80	1.10	1.00	0.50	0.60	0.60	0.22	1.43	0.90	6.70	1.47	3.90	0.40	3.90	0.40	2.15	2.15
6968 RSF	0.99	0.50	0.99	0.20	1.80	1.00	0.91	0.50	1.30	0.60	0.00	0.60	0.60	0.82	1.93	1.00	1.60	0.93	2.30	0.60	2.30	0.60	1.45	1.45
NS 7211 R	0.58	1.10	0.62	0.40	0.60	0.70	0.67	0.50	0.50	0.80	0.50	0.90	0.90	0.47	0.86	0.70	1.20	0.71	2.10	1.50	2.10	1.50	1.80	1.80
Gem/Mean	0.56	1.04	0.69	0.21	0.72	0.69	0.65	0.32	0.73	0.49	0.28	0.48	0.49	0.49	0.95	0.68	1.41	0.65	1.40	0.60	1.40	0.60	1.00	1.00

Tabel 14 Massa van 100 sade (g) van die verskillende soja-boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 14 Mass. 100 seeds (g) of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool					Matig/Moderate								Warm							
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Kranskop	Kroonstad	Potchestroom	Besproei	Potchestroom	Droog	Stoffberg	Verkeerdevel	Gem/Mean	Brits	Brits K2
LS 6240 R	21.38	19.37	17.56	23.33	19.67	21.33	20.44	21.00	20.63	18.20	24.00	23.63	21.34	21.61	22.40	21.13	21.55	20.40	19.53	19.97	
PAN 1454 R	19.29	17.07	14.19	16.53	17.93	20.40	17.57	20.20	19.00	17.35	19.00	19.17	17.98	18.76	17.90	17.23	18.51	17.27	18.73	18.00	
SSS 4945 (tuc)	18.64	17.17	15.91	20.17	18.10	18.90	18.15	20.03	18.70	17.20	19.90	21.40	19.85	19.22	16.90	17.97	19.02	16.37	16.47	16.42	
LS 6146 R	16.77	16.20	14.98	16.57	15.47	17.17	16.19	17.67	16.40	16.05	19.80	16.27	15.96	16.19	14.60	15.57	16.50	16.73	14.60	15.67	
PHB 94 Y 80 R	18.46	16.73	15.01	18.17	17.23	18.33	17.32	18.70	17.70	16.80	19.80	18.70	19.19	17.23	19.40	18.23	18.42	18.13	16.80	17.47	
LS 6248 R	15.44	13.67	14.67	14.03	16.01	16.56	15.06	15.13	13.37	13.45	18.50	16.43	18.23	17.82	18.60	13.33	16.10	16.20	15.77	15.98	
SSS 5449 (tuc)	14.75	14.10	13.39	15.77	14.83	16.00	14.81	14.00	13.80	13.80	16.90	16.03	15.18	16.08	17.20	13.67	15.18	15.30	15.27	15.28	
PHB 95 Y 20 R	15.51	14.80	14.59	16.17	16.90	17.73	15.95	16.10	15.73	13.35	17.80	16.97	17.97	19.28	17.40	14.73	16.59	16.73	14.73	15.73	
DM 5953 RSF	18.89	16.37	16.62	19.50	16.94	18.27	17.76	16.97	14.93	15.75	20.00	17.83	17.01	14.91	16.30	15.53	16.58	16.17	16.73	16.45	
PAN 1532 R	15.38	13.67	14.57	16.17	16.05	16.20	15.34	16.13	14.63	14.15	17.90	16.80	18.20	17.14	16.70	14.60	16.25	16.17	13.63	14.90	
SSS 5052 (tuc)	14.99	13.93	13.10	15.03	14.40	15.23	14.45	14.47	13.70	13.55	15.60	14.80	16.58	18.37	19.60	14.03	15.63	16.37	14.17	15.27	
5609 RSF	15.52	14.63	15.14	18.33	17.80	18.63	16.68	15.00	14.37	14.35	17.50	17.33	18.97	16.87	18.10	15.80	16.48	17.37	16.80	17.08	
PAN 1521 R	18.52	14.07	16.57	16.77	17.92	17.83	16.95	16.47	14.23	14.20	16.20	19.23	21.96	18.40	18.50	15.20	17.15	20.17	18.60	19.38	
5302 RSF	17.79	14.93	17.08	16.77	18.89	19.33	17.47	15.73	15.40	14.20	19.00	19.33	19.79	17.96	18.00	16.93	17.37	18.37	17.60	17.98	
LS 6261 R	16.49	13.90	15.62	17.00	18.23	18.63	16.65	17.40	14.20	17.90	18.60	17.07	17.46	18.63	18.80	14.50	17.17	17.20	15.50	16.35	
SSS 5755 (tuc)	14.90	13.80	14.51	14.60	17.01	17.50	15.39	15.17	14.43	14.50	18.40	17.97	17.75	18.30	16.80	14.57	16.43	17.27	14.90	16.08	
NS 5909 R	16.48	14.03	14.88	15.70	17.02	16.87	15.83	15.73	15.03	15.25	17.70	16.73	18.54	19.41	19.20	14.73	16.93	15.88	15.87	15.87	
LDC 5.9	19.56	15.33	16.84	17.60	19.13	19.20	17.94	16.37	16.73	16.30	21.80	20.30	23.23	19.96	21.50	15.93	19.12	18.70	19.67	19.18	
PHB 96 T 06 R	14.95	13.63	14.17	16.27	15.31	17.27	15.27	16.77	15.33	15.10	17.90	15.97	18.90	16.96	17.30	14.63	16.54	17.13	14.83	15.98	
LDC 6.0	16.12	14.40	14.58	15.53	16.93	17.83	15.90	14.13	14.95	14.70	16.60	16.07	18.26	18.27	17.00	14.67	16.07	17.50	15.03	16.27	
PAN 1623 R	15.10	13.50	14.78	15.27	15.23	15.60	14.91	15.03	13.50	14.25	16.60	17.07	17.99	17.83	18.10	13.87	16.03	15.17	15.03	15.10	
LS 6161 R	14.24	14.27	13.89	15.47	15.73	14.97	14.76	16.33	14.20	13.00	17.80	15.40	15.89	16.92	19.70	14.37	15.96	15.67	13.93	14.80	
P61T38 R	15.42	14.37	15.74	16.60	16.97	17.13	16.04	16.03	15.13	14.70	18.10	17.03	18.64	18.51	18.20	13.77	16.68	16.40	14.43	15.42	
SSS 6560 (tuc)	15.38	14.20	13.80	15.13	15.30	16.63	15.08	15.47	14.13	13.20	16.10	16.87	17.99	16.89	17.50	13.73	15.76	17.93	16.17	17.05	
6663 RSF	16.56	14.40	15.51	17.17	17.22	18.36	16.54	17.60	15.53	15.65	18.60	18.30	17.48	18.91	19.90	14.83	17.42	18.73	13.90	16.32	
LS 6164 R	16.44	15.17	14.60	16.03	17.57	18.00	16.30	17.00	14.87	15.15	20.90	17.33	18.75	18.19	20.70	15.00	17.54	16.30	17.00	16.65	
PAN 1614 R	15.52	14.17	15.55	15.70	16.85	15.60	15.56	14.80	13.90	14.85	17.30	16.67	18.62	16.89	18.00	13.60	16.07	16.53	15.63	16.08	
NS 6448 R	15.35	13.57	15.21	15.33	16.30	17.90	15.61	15.50	13.57	13.95	18.30	18.70	18.28	18.22	18.80	15.97	16.81	16.63	13.33	14.98	
P64T39 R	17.32	14.73	14.89	15.57	17.38	16.83	16.12	16.03	14.43	14.25	18.90	16.67	20.83	17.60	17.90	14.60	16.80	17.40	16.33	16.87	
DM 6.81 RR	16.36	14.30	16.75	15.53	17.55	17.97	16.41	16.16	15.60	13.70	20.00	17.27	20.66	19.67	19.60	13.60	17.36	19.23	16.50	17.87	
6968 RSF	17.39	14.67	16.34	17.10	17.23	18.83	16.93	17.97	16.60	15.90	20.10	18.77	20.05	20.51	21.70	15.37	18.55	21.17	15.93	18.55	
NS 7211 R	16.79	13.53	16.24	16.07	16.33	20.20	16.53	15.77	14.97	15.35	20.10	17.60	18.68	19.26	20.10	15.13	17.44	18.73	14.67	16.70	
Gem/Mean	16.62	14.77	15.23	16.59	16.92	17.73	16.31	16.46	15.30	15.00	18.62	17.68	18.63	18.15	18.51	15.21	17.06	17.35	15.88	16.62	

Tabel 15 Oliepersentasie op vognrye basis van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 15 Oil percentage on moisture free basis of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool						Matig/Moderate						Warm						
	Bethlehem	Clarens	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchetstroom	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean
	LS 6240 R	14.22	12.28	12.46	14.49	13.91	13.47	12.89	12.90	15.32	13.91	13.74	12.43	13.73	11.88	13.35	11.36	14.43	12.90
PAN 1454 R	13.03	12.20	12.26	14.40	14.96	13.37	11.12	15.07	15.12	11.90	11.19	11.38	13.59	12.74	12.76	11.20	15.69	13.45	
SSS 4945 (tuc)	14.21	11.15	9.81	12.89	13.65	12.34	14.22	12.86	13.51	13.86	13.32	9.91	11.62	14.00	12.91	12.13	12.56	12.35	
LS 6146 R	10.98	12.32	8.62	13.94	11.52	11.48	11.11	13.18	12.48	12.03	8.70	10.56	11.78	8.43	11.03	10.92	10.88	10.90	
PHB94 Y 80 R	15.82	12.76	13.29	14.43	15.57	14.37	13.67	14.46	15.84	14.38	9.39	11.87	13.89	13.50	13.38	8.23	15.33	11.78	
LS 6248 R	13.54	13.28	10.14	11.51	14.13	12.52	14.69	13.69	14.08	14.81	12.70	12.06	13.94	12.82	13.60	12.54	15.00	13.77	
SSS 5449 (tuc)	14.14	14.62	10.16	13.26	14.55	13.35	11.34	13.45	14.25	12.52	12.31	11.46	11.44	12.08	12.36	11.16	14.74	12.95	
PHB 95 Y 20 R	15.42	14.94	15.36	13.93	16.48	15.23	15.94	15.62	15.66	14.12	13.65	13.00	14.39	14.99	14.67	11.90	14.99	13.45	
DM 5953 RSF	12.53	11.70	12.51	11.62	12.61	12.19	9.95	11.27	13.30	12.84	12.67	10.71	9.67	12.58	11.62	9.09	14.23	11.66	
PAN 1532 R	12.87	13.59	8.77	14.51	13.18	12.58	12.78	12.35	12.96	12.87	10.82	11.40	10.71	16.81	12.59	12.51	16.29	14.40	
SSS 5052 (tuc)	13.15	14.69	14.91	12.71	13.92	13.88	13.95	13.65	13.64	10.76	7.99	11.97	11.49	12.19	11.96	11.72	14.57	13.15	
5609 RSF	11.11	14.35	11.31	12.11	15.01	12.78	13.74	12.74	14.08	9.78	12.94	7.42	11.50	11.41	11.70	11.65	13.41	12.53	
PAN 1521 R	13.34	13.85	12.78	12.90	13.96	13.37	14.21	12.59	15.00	12.94	13.58	10.43	11.87	12.47	12.89	11.89	14.76	13.33	
5302 RSF	14.95	16.05	15.53	14.45	17.64	15.72	15.60	14.78	16.00	14.54	15.18	10.89	13.37	13.64	14.25	14.47	15.84	15.16	
LS 6261 R	12.64	14.33	12.86	14.33	13.18	13.47	15.07	13.18	12.92	13.11	13.07	15.52	13.37	10.50	13.34	11.45	15.30	13.38	
SSS 5755 (tuc)	12.52	13.39	7.10	13.84	14.36	12.24	12.83	13.08	13.95	11.54	12.17	8.53	11.76	12.03	11.99	12.54	15.46	14.00	
NS 5909 R	13.57	13.26	12.52	13.56	15.52	13.69	13.70	11.33	14.76	13.64	7.09	11.39	14.79	14.78	12.69	11.33	16.46	13.90	
LDC 5.9	14.18	13.57	12.70	15.27	14.95	14.13	15.19	14.12	13.57	13.30	12.17	10.40	12.51	14.37	13.20	11.11	14.55	12.83	
PHB 96 T 06 R	13.45	11.60	12.05	12.37	12.63	12.42	14.44	9.49	13.58	13.16	7.23	8.69	11.63	14.62	11.61	13.63	17.65	15.64	
LDC 6.0	15.62	15.18	14.08	14.15	17.96	15.40	15.32	15.16	13.39	12.72	12.79	10.36	12.33	12.71	13.10	14.83	15.18	15.01	
PAN 1623 R	14.64	14.11	14.30	14.21	15.25	14.50	15.94	13.46	16.04	13.69	11.98	12.41	14.50	16.91	14.37	13.30	14.91	14.11	
LS 6161 R	14.40	12.89	12.54	12.34	12.60	12.95	12.79	11.99	14.36	12.20	10.01	11.29	12.72	12.88	12.28	14.01	17.04	15.53	
P61T38 R	14.06	14.01	13.64	13.33	15.45	14.10	16.24	13.07	16.12	14.18	11.31	11.67	13.57	14.14	13.79	14.93	15.22	15.08	
SSS 6560 (tuc)	14.05	13.57	9.41	13.37	14.72	13.02	15.43	11.64	15.76	13.11	11.14	9.88	11.30	14.55	12.85	13.32	16.53	14.93	
6663 RSF	13.42	14.57	13.42	13.59	16.99	14.40	14.41	14.40	12.80	12.84	11.35	11.57	13.53	15.12	13.25	15.34	16.66	16.00	
LS 6164 R	13.58	13.93	14.57	12.94	15.14	14.03	13.58	13.25	15.07	13.62	9.52	11.97	13.71	13.14	12.98	13.74	16.68	15.21	
PAN 1614 R	15.55	14.90	15.59	13.65	15.54	15.05	14.63	15.50	13.78	12.78	9.15	12.68	13.23	16.53	13.54	12.83	15.58	14.21	
NS 6448 R	12.78	14.05	13.62	14.01	14.65	13.82	12.85	13.54	16.80	12.79	12.75	9.49	11.75	13.63	12.95	14.98	17.51	16.25	
P64T39 R	14.88	14.34	10.23	14.13	15.28	13.77	13.74	13.97	16.40	11.93	13.58	9.73	11.91	14.39	13.33	12.56	15.82	14.19	
DM 6.8i RR	13.18	13.45	8.34	13.42	11.82	12.04	10.03	13.11	14.86	12.55	10.43	11.07	12.09	14.65	12.35	13.14	12.93	13.04	
6968 RSF	16.17	13.21	9.24	15.44	16.49	14.11	12.49	14.88	16.36	13.32	13.51	13.75	14.62	14.81	14.22	12.59	16.93	14.76	
NS 7211 R	13.66	14.35	14.43	13.00	16.85	14.46	15.20	15.73	15.75	12.84	11.54	10.41	14.03	13.25	13.59	14.41	17.03	15.72	
Gem/Mean	13.80	13.64	12.14	13.57	14.70	13.57	13.72	13.45	14.61	12.96	11.53	11.13	12.70	13.52	12.95	12.53	15.32	13.92	

Tabel 16 Ru-proteïenpersentasie op vogvrnye basis van die verskillende soja-boonkultivars by die verskillende proef lokaliteite, 2016/17  
 Table 16 Percentage crude protein on moisture free basis of the different soybean cultivars at the different trial localities, 2016/17

Kultivar	Koel/Cool										Matig/Moderate										Warm	
	Bethlehem	Clarens	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchetstroom	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean			
LS 6240 R	34.31	33.28	33.64	34.20	34.17	33.92	34.66	34.42	34.05	34.50	34.83	35.32	35.34	34.91	34.75	36.14	35.19	35.67				
PAN 1454 R	34.43	32.64	33.21	33.27	33.35	33.38	34.81	32.65	34.21	35.03	35.63	35.81	35.75	34.25	34.77	36.61	34.31	35.46				
SSS 4945 (tuc)	35.42	33.95	36.05	34.82	35.10	35.07	34.78	35.58	34.69	34.90	35.19	36.30	35.90	35.15	35.31	36.92	35.70	36.31				
LS 6146 R	36.58	32.85	35.91	34.03	34.36	34.75	35.51	34.93	35.05	35.59	36.64	35.98	35.20	37.08	35.75	37.08	36.39	36.74				
PHB 94 Y 80 R	34.19	32.70	33.01	33.63	33.40	33.39	34.27	33.50	33.65	34.37	35.90	35.56	34.95	33.40	34.45	38.27	34.47	36.37				
LS 6248 R	34.12	30.72	33.52	33.29	32.76	32.88	33.79	34.18	34.37	33.81	34.24	34.99	33.58	33.09	34.01	36.46	34.67	35.57				
SSS 5449 (tuc)	35.06	31.67	34.43	34.10	33.91	33.83	35.31	34.75	34.71	35.60	34.97	35.62	36.15	34.63	35.22	37.35	35.43	36.39				
PHB 95 Y 20 R	32.93	30.63	32.02	32.86	32.71	32.23	33.30	33.45	33.09	33.97	34.19	34.82	33.55	32.22	33.57	36.10	34.65	35.38				
DM 5953 RSF	34.67	32.87	33.75	34.72	33.76	33.95	36.52	34.54	34.34	34.75	35.20	34.99	37.10	31.17	35.20	36.82	34.73	35.78				
PAN 1532 R	34.49	32.17	35.51	32.47	34.65	33.86	34.70	35.50	35.15	35.13	36.09	36.76	36.47	31.78	35.20	36.34	33.14	34.74				
SSS 5052 (tuc)	34.46	31.85	32.68	34.41	34.17	33.51	33.92	34.87	34.58	35.96	36.16	35.86	35.54	33.55	35.06	36.78	34.36	35.57				
5609 RSF	34.83	30.97	32.75	33.30	32.84	32.94	33.92	34.65	34.87	36.64	34.22	36.39	34.49	33.69	34.86	36.84	35.37	36.11				
PAN 1521 R	32.92	30.75	32.69	32.98	32.89	32.45	33.82	33.99	33.55	34.43	33.76	35.41	33.90	32.62	33.94	35.42	34.59	35.01				
5302 RSF	33.42	31.42	32.41	33.00	32.39	32.53	33.33	33.65	33.12	33.85	35.59	35.58	35.26	33.38	34.22	35.80	34.49	35.15				
LS 6261 R	34.10	31.68	33.21	32.20	34.10	33.06	34.85	34.77	34.97	35.07	35.05	34.09	34.20	34.09	34.64	36.53	34.20	35.37				
SSS 5755 (tuc)	33.11	31.60	34.73	31.98	32.74	32.83	34.81	33.34	34.17	34.53	33.93	35.42	34.20	33.50	34.24	35.63	33.47	34.55				
NS 5909 R	34.05	31.92	34.27	33.58	33.25	33.41	35.57	35.98	34.84	34.87	36.56	36.52	34.89	32.72	35.24	37.45	34.42	35.94				
LDC 5,9	33.28	31.54	33.11	31.88	33.40	32.64	33.95	33.81	34.52	35.42	34.85	35.26	34.65	33.08	34.44	36.20	34.32	35.26				
PHB 96 T 06 R	34.76	32.27	34.03	34.76	34.72	34.11	34.96	36.61	35.06	34.92	36.83	36.49	35.56	32.46	35.36	36.25	32.07	34.16				
LDC 6.0	32.52	30.00	32.65	32.41	31.13	31.74	33.89	33.10	34.23	34.18	33.69	35.39	34.83	34.01	34.17	35.22	34.35	34.79				
PAN 1623 R	34.28	32.04	32.98	33.41	33.56	33.25	34.91	34.77	34.33	35.28	35.33	35.42	33.86	32.21	34.51	36.42	34.48	35.45				
LS 6161 R	33.23	32.25	33.29	33.81	34.40	33.40	35.22	34.49	34.02	35.42	35.67	35.21	34.54	33.40	34.75	35.68	32.58	34.13				
P61T38 R	34.18	31.70	33.88	33.53	33.11	33.28	34.43	34.80	34.05	34.20	35.73	35.23	34.50	32.58	34.44	34.87	34.62	34.75				
SSS 6560 (tuc)	33.32	31.63	35.32	33.26	32.91	33.29	33.79	34.62	33.50	34.38	34.65	35.35	34.92	32.44	34.21	35.09	33.88	34.49				
6663 RSF	33.56	31.57	32.21	32.65	31.76	32.35	32.48	32.48	34.77	33.89	34.43	34.26	34.53	32.00	33.61	32.64	32.18	32.41				
LS 6164 R	34.50	31.56	31.67	33.01	32.89	32.73	35.24	34.81	33.86	34.21	36.09	35.90	34.08	33.90	34.76	35.26	33.13	34.20				
PAN 1614 R	33.26	31.59	33.06	33.32	33.06	32.86	34.52	33.41	34.08	34.68	35.71	35.47	34.60	29.72	34.02	32.83	33.81	33.32				
NS 6448 R	34.68	32.13	33.86	33.73	34.34	33.75	35.32	34.59	33.35	35.43	35.02	36.73	35.35	33.02	34.85	34.20	33.40	33.80				
P64T39 R	32.99	31.23	34.89	32.75	32.26	32.82	34.55	33.03	33.33	35.09	35.15	35.80	35.15	33.02	34.28	34.86	34.05	34.45				
DM 6.8i RR	32.94	31.52	34.19	31.38	33.17	32.64	34.90	32.90	33.12	33.78	33.99	33.74	33.57	30.76	33.35	34.03	34.60	34.32				
6968 RSF	32.33	31.91	34.65	32.08	31.78	32.55	34.79	33.67	33.03	34.13	33.87	33.11	33.90	31.90	33.55	35.47	33.98	34.73				
NS 7211 R	33.12	30.49	31.69	32.43	31.19	31.78	33.61	33.25	33.05	33.76	34.04	35.21	33.87	31.98	33.60	34.67	32.49	33.58				
Gem/Mean	33.94	31.78	33.60	33.23	33.26	33.16	34.51	34.22	34.12	34.74	35.07	35.44	34.82	33.15	34.51	35.82	34.17	35.00				



Tabel 17 Gemiddelde van die olie-en proteien persentasie saamgevoeg (Protolie), 2016/17  
 Table 17 Average of the oil and protein percentage joined (Protfat), 2016/17

Kultivar	Koel/Cool					Matig/Moderate					Warm							
	Bethlehem	Clarens	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchestroom	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2
LS 6240 R	48.53	45.56	46.10	48.69	48.08	47.39	47.55	47.32	49.37	48.41	48.57	47.75	49.07	46.79	48.10	47.50	49.62	48.56
PAN 1454 R	47.46	44.84	45.47	47.67	48.31	46.75	45.93	47.72	49.33	46.93	46.82	47.19	49.34	46.99	47.53	47.81	50.00	48.91
SSS 4945 (tuc)	49.63	45.10	45.86	47.71	48.75	47.41	49.00	48.44	48.20	48.76	48.51	46.21	47.52	49.15	48.22	49.05	48.26	48.66
LS 6146 R	47.56	45.17	44.53	47.97	45.88	46.22	46.62	48.11	47.53	47.62	45.34	46.54	46.98	45.51	46.78	48.00	47.27	47.64
PHB 94 Y 80 R	50.01	45.46	46.30	48.06	48.97	47.76	47.94	47.96	49.49	48.75	45.29	47.43	48.84	46.90	47.83	46.50	49.80	48.15
LS 6248 R	47.66	44.00	43.66	44.80	46.89	45.40	48.48	47.87	48.45	48.62	46.94	47.05	47.52	45.91	47.61	49.00	49.67	49.34
SSS 5449 (tuc)	49.20	46.29	44.59	47.36	48.46	47.18	46.65	48.20	48.96	48.12	47.28	47.08	47.59	46.71	47.57	48.51	50.17	49.34
PHB 95 Y 20 R	48.35	45.57	47.38	46.79	49.19	47.46	49.24	49.07	48.95	48.09	47.84	47.82	47.94	47.21	48.25	48.00	49.64	48.82
DM 5953 RSF	47.20	44.57	46.26	46.34	46.37	46.15	46.47	45.81	47.64	47.59	47.87	45.70	46.77	46.75	46.83	45.91	48.96	47.44
PAN 1532 R	47.36	45.76	44.28	46.98	47.83	46.44	47.48	47.85	48.11	48.00	46.91	48.16	47.18	48.59	47.79	48.85	49.43	49.14
SSS 5052 (tuc)	47.61	46.54	47.59	47.12	48.09	47.39	47.87	48.52	48.22	46.72	44.15	47.83	47.03	45.74	47.01	48.50	48.93	48.72
5609 RSF	45.94	45.32	44.06	45.41	47.85	45.72	47.66	47.39	48.95	46.42	47.16	43.81	45.99	45.10	46.56	48.49	48.78	48.64
PAN 1521 R	46.26	44.60	45.47	45.88	46.85	45.81	48.03	46.58	48.55	47.37	47.34	45.84	45.77	45.09	46.82	47.31	49.35	48.33
5302 RSF	48.37	47.47	47.94	47.45	50.03	48.25	48.93	48.43	49.12	48.39	50.77	46.47	48.63	47.02	48.47	50.27	50.33	50.30
LS 6261 R	46.74	46.01	46.07	46.53	47.28	46.53	49.92	47.95	47.89	48.18	48.12	49.61	47.57	44.59	47.98	47.98	49.50	48.74
SSS 5755 (tuc)	45.63	44.99	41.83	45.82	47.10	45.07	47.64	46.42	48.12	46.07	46.10	43.95	45.96	45.53	46.22	48.17	48.93	48.55
NS 5909 R	47.62	45.18	46.79	47.14	48.77	47.10	49.27	47.31	49.60	48.51	43.65	47.91	49.68	47.50	47.93	48.78	50.88	49.83
LDC 5.9	47.46	45.11	45.81	47.15	48.35	46.78	49.14	47.93	48.09	48.72	47.02	45.66	47.16	47.45	47.65	47.31	48.87	48.09
PHB 96 T 06 R	48.21	43.87	46.08	47.13	47.35	46.53	49.40	46.10	48.64	48.08	44.06	45.18	47.19	47.08	46.97	49.88	49.72	49.80
LDC 6.0	48.14	45.18	46.73	46.56	49.09	47.14	49.21	48.26	47.62	46.90	46.48	45.75	47.16	46.72	47.26	50.05	49.53	49.79
PAN 1623 R	48.92	46.15	47.28	47.62	48.81	47.76	50.85	48.23	50.37	48.97	47.31	47.83	48.36	49.12	48.88	49.72	49.39	49.56
LS 6161 R	47.63	45.14	45.83	46.15	47.00	46.35	48.01	46.48	48.38	47.62	45.68	46.50	47.26	46.28	47.03	49.69	49.62	49.66
P61T38 R	48.24	45.71	47.52	46.86	48.56	47.38	50.67	47.87	50.17	48.38	47.04	46.90	48.07	46.72	48.23	49.80	49.84	49.82
SSS 6560 (tuc)	47.37	45.20	44.73	46.63	47.63	46.31	49.22	46.26	49.26	47.49	45.79	45.23	46.22	46.99	47.06	48.41	50.41	49.41
6663 RSF	46.98	46.14	45.63	46.24	48.75	46.75	46.89	46.88	47.57	46.73	45.78	45.83	48.06	47.12	46.86	47.98	48.84	48.41
LS 6164 R	48.08	45.49	46.24	45.95	48.03	46.76	48.82	48.06	48.93	47.83	45.61	47.87	47.79	47.04	47.74	49.00	49.81	49.41
PAN 1614 R	48.81	46.49	48.65	46.97	48.60	47.90	49.15	48.91	47.86	47.46	44.86	48.15	47.83	46.25	47.56	45.66	49.39	47.53
NS 6448 R	47.46	46.18	47.48	47.74	48.99	47.57	48.17	48.13	50.15	48.22	47.77	46.22	47.10	46.65	47.80	49.18	50.91	50.05
P64T39 R	47.87	45.57	45.12	46.88	47.54	46.60	48.29	48.00	49.73	47.02	47.70	45.53	47.06	47.54	47.61	47.42	49.87	48.64
DM 6.8i RR	46.12	44.97	42.53	44.80	44.99	44.68	44.93	46.01	47.98	46.33	44.42	44.81	45.66	45.41	45.69	47.17	47.53	47.35
6968 RSF	48.50	45.12	43.89	47.52	48.27	46.66	47.28	48.55	49.39	47.45	47.38	46.86	48.52	46.71	47.77	48.06	50.91	49.49
NS 7211 R	46.78	44.84	46.12	45.43	48.04	46.24	48.81	48.98	48.80	46.60	45.58	45.62	47.90	45.23	47.19	49.08	49.52	49.30
Gem/Mean	47.74	45.42	45.74	46.79	47.96	46.73	48.24	47.68	48.73	47.70	46.60	46.57	47.52	46.67	47.46	48.34	49.49	48.92



Tabel 18 Die saadopbrengs van elke kultivar by die verskillende lokaliteite, 2016/17  
 Table 18 The seed yield of the cultivars at the different localities, 2016/17

Kultivar	Koel/Cool										Matig/Moderate										Warm		
	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchefstroom	Besprei	Potchefstroom	Droog	Stoffberg	Verkeerdelei	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	2617	2371	2792	3978	3435	2928	3020	4536	3368	3044	3573	3577	3601	2776	3601	2776	1403	2624	3167	1551	2416	1984	
PAN 1454 R	2830	2877	2161	2703	3363	2838	2795	4255	2886	2966	3148	3021	2954	2618	2954	2618	1912	2566	2924	1673	2578	2125	
SSS 4945 (tuc)	3261	3100	2966	3323	4894	3337	3447	4441	3474	2677	3140	3965	3706	3297	3706	3297	1695	2981	3264	2064	2687	2375	
LS 6146 R	2675	3115	3343	3506	2143	2834	2936	3999	2949	3367	3424	3645	2752	2976	2752	2976	1507	2650	3030	1722	2483	2103	
PHB 94 Y 80 R	3184	3787	2795	3283	2885	3218	3192	4274	3091	3521	2980	2984	3384	3037	3384	3037	1738	2575	3065	1766	2717	2241	
LS 6248 R	3900	2713	2508	3152	3640	2360	3046	4268	2944	3031	3365	3074	3791	2881	3791	2881	3212	2414	3220	1524	2861	2193	
SSS 5449 (tuc)	4081	2856	2500	3611	3598	2465	3185	4083	2927	3676	3214	3756	3623	2949	3623	2949	2239	2287	3162	1938	2220	2079	
PHB 95 Y 20 R	2855	2347	2110	3368	3445	2929	2842	4050	3206	2652	3409	3356	3392	2633	3392	2633	3003	2160	3096	2431	2551	2491	
DM 5953 RSF	4684	3602	3413	4522	5430	3090	4123	4672	3432	3519	4102	4182	3636	3172	3636	3172	2195	2852	3529	2921	3668	3294	
PAN 1532 R	3782	2589	2701	3897	3283	2699	3159	3990	3331	3144	3180	3687	4221	3289	4221	3289	2935	2068	3316	1910	1895	1902	
SSS 5052 (tuc)	3305	2372	2635	3342	3666	2376	2949	3859	3029	2853	2647	4198	3274	3294	3274	3294	3262	2307	3191	1871	2601	2236	
5609 RSF	3984	2748	3028	3756	3773	2825	3352	4594	2942	2745	3764	4056	4043	2666	4043	2666	3871	1406	3343	2174	2846	2510	
PAN 1521 R	4387	2506	3294	3765	4159	3083	3533	4323	3274	3291	3739	4530	4537	3927	4537	3927	3653	2860	3793	3654	4176	3915	
5302 RSF	4037	2555	3480	3766	4251	2570	3443	4509	2700	3421	3518	3857	3743	3018	3743	3018	2963	2520	3361	2649	3095	2872	
LS 6261 R	3466	2121	3344	3481	3449	2944	3134	3793	3020	4676	3322	4024	3308	2814	3308	2814	3081	2737	3419	1738	2637	2187	
SSS 5755 (tuc)	3173	2564	2242	3546	3435	2655	2936	3928	2847	2958	3017	4093	2844	3188	2844	3188	2845	1844	3063	1652	2008	1830	
NS 5909 R	3731	2465	2593	3517	4136	3480	3320	3866	2834	3222	4015	3966	3714	3311	3714	3311	3702	1799	3381	2052	2419	2236	
LDC 5.9	4079	2035	2633	3792	3781	2988	3218	4473	2947	3138	4216	3983	3503	3628	3503	3628	3447	2747	3565	2936	3413	3174	
PHB 96 T 06 R	2688	2319	1907	3764	3221	2807	2784	4298	2833	3535	3628	3471	3510	3854	3510	3854	3256	1753	3349	2352	2159	2256	
LDC 6.0	3107	584	1930	3752	3580	2414	2561	4197	2640	2204	3380	4233	3586	3057	3586	3057	1989	2199	3054	1431	1906	1669	
PAN 1623 R	3727	2480	3056	3617	3636	3112	3271	3975	3122	3565	2838	3726	3242	3530	3242	3530	3970	2252	3358	2364	2896	2630	
LS 6161 R	2928	2072	2792	4147	3195	2889	3004	4230	3180	3161	3043	3672	3541	3783	3541	3783	3020	2367	3333	2203	2448	2326	
P61T38 R	3341	2402	2876	4171	3917	2616	3220	4130	3172	2888	4269	3809	3151	3248	3151	3248	3915	1916	3389	2419	2732	2576	
SSS 6560 (tuc)	3073	2494	2251	3460	3538	2968	2964	3803	3028	2799	4051	3678	3096	2864	3096	2864	3343	1684	3150	2328	2188	2258	
6663 RSF	3875	1633	2254	2834	3646	2561	2800	3997	2909	2726	2928	3970	2313	2294	2313	2294	4069	1449	2962	1842	1947	1895	
LS 6164 R	3416	2662	1806	2793	3976	2933	2931	4003	2302	3110	3654	3394	3050	3589	3050	3589	2964	2253	3147	1885	2400	2142	
PAN 1614 R	3282	2302	3205	3207	3674	2621	3048	3734	2680	2845	3648	3806	3243	3353	3243	3353	2989	1651	3106	1891	2260	2075	
NS 6448 R	3460	2988	3028	3894	3084	2910	3227	3846	2976	3341	3644	4281	3430	3860	3430	3860	2767	1543	3299	1926	2019	1973	
P64T39 R	3581	2447	2867	3858	5095	3283	3522	3883	2949	3234	4049	4230	4238	3955	4238	3955	3830	2195	3618	4226	2825	3526	
DM 6.61RR	3391	2994	2327	3357	3774	2744	3098	4443	2973	3190	4146	3317	3305	2956	3305	2956	4735	1339	3378	2565	2688	2626	
6968 RSF	3186	1537	2818	2836	2921	3205	2751	3956	2926	2546	3855	3702	3111	2595	3111	2595	3919	1604	3135	2645	2080	2362	
NS 7211 R	2982	2776	2855	3710	4136	2716	3196	4161	2504	2708	3838	3860	2939	3618	2939	3618	3777	1651	3228	2297	2591	2444	
Gem/Mean	3440	2513	2703	3553	3686	2856	3125	4143	2972	3117	3523	3784	3431	3188	3431	3188	3038	2164	3262	2206	2575	2391	
CV	9.7	10.3	17.1	15.6	13.7	14.8	9.3	9.3	14.4	9.5	12.1	12.5	17.6	12.2	17.6	12.2	4.6	21.0	16.2	16.2	16.5	16.5	

Tabel 19 Opbrengs waarskynlikheid (%) van kultivars geëvalueer in 2014/15, 2015/16 en 2016/17 vir die koeler droëland produksiegebiede by verskillende opbrengspotensiaal  
 Table 19 Yield probability (%) of cultivars evaluated in 2014/15, 2015/16 and 2016/17 for the cooler dryland production areas at different yield potentials

Kultivar Cultivar	Opbrengspotensiaal/Yield potential (t/ha)									
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5		
PAN1454R	56	53	49	46	42	39	35	33		
LS6146R	71	65	57	48	38	30	24	19		
LS6248R	47	49	52	55	57	60	62	64		
PHB95Y20R	13	11	10	10	10	10	11	12		
LS6164R	48	43	38	34	29	26	23	21		
LS6161R	50	46	41	36	31	28	25	23		
LS6261R	48	47	45	44	42	41	39	39		
PAN1614R	26	27	29	32	34	38	41	45		
LS6240R	54	54	53	52	52	51	50	49		
PHB94Y80R	58	60	61	63	64	65	65	65		
PAN1521R	54	58	63	68	72	75	78	80		
PHB96T06R	55	49	43	37	31	26	22	19		
PAN1623R	79	76	71	65	57	50	42	37		
DM5953RSF	51	64	76	86	92	96	98	99		
NS5909R	18	26	35	47	59	71	79	86		
NS6448R	43	46	50	54	59	63	66	68		
DM6.8IRR	53	49	45	41	37	33	30	28		
NS7211R	40	40	40	41	41	42	43	44		

Tabel 20 Saadobrenge (kg/ha<sup>-1</sup>) van kultivars gedurende die 2015/16 en 2016/17 groeiseisoen ten opsigte van die verskillende lokaliteite wat in die koeler produksiegebiede geleë is  
 Table 20 Seed yield (kg/ha<sup>-1</sup>) of cultivars during the 2015/16 and 2016/17 growing season for the various localities situated in the cooler production areas

Kultivar	2015/16						2016/17						
	Bethlehem	Clarens	Delmas	Kinross	Kokstad	Gem/Mean	Bethlehem	Clarens	Clocolan	Delmas	Kinross	Middelburg	Gem/Mean
	LS 6240 R	2257	1677	3937	2020	2270	2432	2617	2371	2792	3978	3435	2928
PAN 1454 R	2394	1503	3979	2064	2146	2417	2830	2877	2161	2703	3363	2838	2795
SSS 4945 (tuc)	2506	1653	3836	2208	1805	2402	3261	3100	2966	3323	4694	3337	3447
LS 6146 R	2214	1787	3613	1895	1564	2215	2675	3115	3343	3506	2143	2834	2936
PHB 94 Y 80 R	2822	2408	4598	2396	1658	2776	3184	3787	2795	3283	2885	3218	3192
LS 6248 R	3639	1963	4790	1724	2430	2909	3900	2713	2508	3152	3640	2360	3046
SSS 5449 (tuc)	3470	1409	4165	1993	2375	2682	4081	2856	2500	3611	3598	2465	3185
NS 5009 R	3211	2184	4298	1721	1739	2631	-	-	-	-	-	-	-
DM 5.1 RR	2251	1821	3805	1361	1759	2199	-	-	-	-	-	-	-
PHB 95 Y 20 R	2137	1411	3830	1668	2222	2254	2855	2347	2110	3368	3445	2929	2842
DM 5953 RSF	2877	1827	4590	1888	2210	2678	4684	3602	3413	4522	5430	3090	4123
SSS 5052 (tuc)	2802	1230	3810	2120	2230	2438	3305	2372	2635	3342	3666	2376	2949
PAN 1521 R	3927	1488	4250	2080	3090	2967	4387	2506	3294	3765	4159	3083	3533
PAN 1500 R	3301	1629	3955	1990	2876	2750	-	-	-	-	-	-	-
NS 5909 R	3013	1569	4771	2281	2460	2819	3731	2465	2593	3517	4136	3480	3320
LS 6261 R	3433	1760	4198	2170	2471	2806	3466	2121	3344	3481	3449	2944	3134
PHB 96 T 06 R	3105	2065	3869	2475	2679	2839	2688	2319	1907	3764	3221	2807	2784
PAN 1623 R	3605	1446	3645	2037	2722	2691	3727	2480	3056	3617	3636	3112	3271
LS 6161 R	2956	1729	3701	2110	2982	2696	2928	2072	2792	4147	3195	2889	3004
DM 6.2 RR	2543	1469	4369	1926	1956	2453	-	-	-	-	-	-	-
SSS 6560 (tuc)	3597	1536	3956	2119	2068	2655	3073	2494	2251	3460	3538	2968	2964
LS 6164 R	2672	2023	3883	2101	2700	2676	3416	2662	1806	2793	3976	2933	2931
PAN 1614 R	2931	1722	3217	1883	2107	2372	3282	2302	3205	3207	3674	2621	3048
NS 6448 R	3021	1790	4579	2555	2503	2890	3460	2988	3028	3894	3084	2910	3227
DM 6.8 RR	2529	1407	3420	2230	2446	2407	3391	2994	2327	3357	3774	2744	3098
NS 7211 R	2785	1503	3826	2246	2080	2488	2982	2776	2855	3710	4136	2716	3196
PAN 1532 R	-	-	-	-	-	-	3782	2589	2701	3897	3283	2699	3159
5609 RSF	-	-	-	-	-	-	3984	2748	3028	3756	3773	2825	3352
5302 RSF	-	-	-	-	-	-	4037	2555	3480	3766	4251	2570	3443
SSS 5755 (tuc)	-	-	-	-	-	-	3173	2564	2242	3546	3435	2655	2936
LDC 5.9	-	-	-	-	-	-	4079	2035	2633	3792	3781	2988	3218
LDC 6.0	-	-	-	-	-	-	3107	584	1930	3752	3580	2414	2561
P61T38 R	-	-	-	-	-	-	3341	2402	2876	4171	3917	2616	3220
6663 RSF	-	-	-	-	-	-	3875	1633	2254	2834	3646	2561	2800
P64T39 R	-	-	-	-	-	-	3581	2447	2867	3858	5095	3283	3522
6968 RSF	-	-	-	-	-	-	3186	1537	2818	2836	2921	3205	2751
Gem/Mean	2923	1693	4034	2048	2290	2598	3440	2513	2703	3553	3686	2856	3125

Tabel 21 Opbrengstwaarskynlikheid (%) van kultivars geëvalueer 2014/15, 2015/16 en 2016/17 vir die matige produksiegebiede by verskillende opbrengspotensiaal

Table 21 Yield probability (%) of cultivars evaluated in 2014/15, 2015/16 and 2016/17 for the moderate production areas at different yield potentials

Kultivar Cultivar	Opbrengspotensiaal/Yield potential (t/ha)									
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5		
PAN1454R	25	23	22	21	20	19	19	20		
LS6146R	36	34	30	28	25	23	22	21		
LS6248R	61	60	57	56	53	51	49	47		
PHB95Y20R	51	41	31	22	15	10	7	4		
LS6164R	61	57	53	49	45	40	37	33		
LS6161R	65	63	61	58	55	52	49	46		
LS6261R	61	60	58	57	54	52	50	48		
PAN1614R	51	49	44	41	37	34	31	29		
LS6240R	30	33	36	40	43	48	51	55		
PHB94Y80R	21	24	27	31	35	39	44	49		
PAN1521R	53	64	74	82	88	93	95	97		
PHB96T06R	48	48	48	48	48	48	48	48		
PAN1623R	87	85	82	79	75	69	64	58		
DM5953RSF	39	46	53	62	69	75	80	84		
NS5909R	66	65	63	62	60	57	55	53		
NS6448R	57	57	58	58	58	58	57	57		
DM6.8iRR	60	60	61	61	61	61	60	60		
NS7211R	51	52	52	53	53	54	54	55		

Table 22 Saadopbrenngs (kg/ha<sup>-1</sup>) van kultivars gedurende die 2015/16 en 2016/17 groeiseisoen ten opsigte van die verskillende lokaliteite wat in die matige produksiegebiede geleë is  
 Table 22 Seed yield (kg/ha<sup>-1</sup>) of cultivars during the 2015/16 and 2016/17 growing season for the various localities situated in the moderate production areas

Kultivar	2015/16										2016/17										
	Bergville	Cedara	Glen	Greytown	Greytown	Kranskop	Kroonstad	Gem/Mean	Cedara	Dundee	Greytown	Greytown	Kranskop	Kroonstad	Potchetstroom	Besoprei	Potchetstroom	Droog	Stoffberg	Verkeerdelei	Gem/Mean
LS 6240 R	3595	2437	2297	2037	2962	1344	2445	4536	3368	3044	3573	3577	3601	2776	1403	2624	3167				
PAN 1454 R	2956	2541	1808	2224	2700	1031	2210	4255	2886	2956	3148	3021	2954	2618	1912	2566	2924				
SSS 4945 (tuc)	2340	2168	2604	1916	2579	953	2093	4441	3474	2677	3140	3965	3706	3297	1695	2981	3264				
LS 6146 R	3330	2111	2014	1889	3135	1314	2299	3999	2949	3367	3424	3645	2752	2976	1507	2650	3030				
PHB 94 Y 80 R	3799	2653	1930	1915	2801	1107	2367	4274	3091	3521	2980	2984	3384	3037	1738	2575	3065				
LS 6248 R	3293	2598	2515	2315	3565	1183	2578	4268	2944	3031	3365	3074	3791	2881	3212	2414	3220				
SSS 5449 (tuc)	2681	2255	2523	2320	3087	1067	2322	4083	2627	3676	3214	3756	3623	2949	2239	2287	3162				
NS 5009 R	3779	2550	2487	2004	2835	1465	2520	-	-	-	-	-	-	-	-	-	-				
DM 5.11RR	3190	2184	2368	2104	2950	1012	2301	-	-	-	-	-	-	-	-	-	-				
PHB 95 Y 20 R	2778	2596	2265	2411	2799	1030	2313	4050	3206	2652	3409	3356	3392	2633	3003	2160	3096				
DM 5953 RSF	3520	2758	4016	2143	3341	890	2778	4672	3432	3519	4102	4182	3636	3172	2195	2852	3529				
SSS 5052 (tuc)	3677	3022	2048	2586	3115	1334	2630	3859	3029	2853	2647	4198	3274	3294	3262	2307	3191				
PAN 1521 R	3970	2854	2758	2548	3386	1148	2777	4323	3274	3291	3739	4530	4537	3927	3653	2860	3793				
PAN 1500 R	3222	2721	1748	2486	2629	1041	2308	-	-	-	-	-	-	-	-	-	-				
NS 5909 R	2875	3103	2808	3123	2953	1119	2663	3866	2834	3222	4015	3966	3714	3311	3702	1799	3381				
LS 6261 R	2561	2678	2443	2257	3859	1228	2504	3793	3020	4676	3322	4024	3308	2814	3081	2737	3419				
PHB 96 T 06 R	2909	2832	1844	2918	3560	1075	2523	4298	2833	3535	3628	3471	3510	3854	3256	1753	3349				
PAN 1623 R	3590	3359	2885	3118	3829	1221	3000	3975	3122	3565	2838	3726	3242	3530	3970	2252	3358				
LS 6161 R	2350	3050	3955	3246	3087	1389	2846	4230	3180	3161	3043	3672	3541	3783	3020	2367	3333				
DM 6.21RR	2293	2939	1712	3113	3583	1130	2462	-	-	-	-	-	-	-	-	-	-				
SSS 6560 (tuc)	2702	2725	2619	2705	3560	1298	2602	3803	3028	2799	4051	3678	3096	2864	3343	1684	3150				
LS 6164 R	3091	3029	2307	2651	4108	1273	2743	4003	2302	3110	3654	3394	3050	3589	2964	2253	3147				
PAN 1614 R	3425	2773	1987	2710	3470	1092	2576	3734	2680	2845	3648	3806	3243	3353	2989	1651	3106				
NS 6448 R	3643	2887	2616	2971	4039	1167	2887	3846	2976	3341	3644	4281	3430	3860	2767	1543	3299				
DM 6.81RR	2771	2977	2694	3186	3545	1053	2704	4443	2973	3190	4146	3317	3305	2956	4735	1339	3378				
NS 7211 R	3736	2911	2186	2993	3062	1159	2674	4161	2504	2708	3838	3860	2939	3618	3777	1651	3228				
PAN 1532 R	-	-	-	-	-	-	-	3990	3331	3144	3180	3687	4221	3289	2935	2068	3316				
5609 RSF	-	-	-	-	-	-	-	4594	2942	2745	3764	4056	4043	2666	3871	1406	3343				
5302 RSF	-	-	-	-	-	-	-	4509	2700	3421	3518	3857	3743	3018	2963	2520	3361				
SSS 5755 (tuc)	-	-	-	-	-	-	-	3928	2847	2958	3017	4093	2844	3188	2845	1844	3063				
LDC 5.9	-	-	-	-	-	-	-	4473	2947	3138	4216	3983	3503	3628	3447	2747	3565				
LDC 6.0	-	-	-	-	-	-	-	4197	2640	2204	3380	4233	3586	3057	1989	2199	3054				
P61T38 R	-	-	-	-	-	-	-	4130	3172	2888	4269	3809	3151	3248	3915	1916	3389				
6663 RSF	-	-	-	-	-	-	-	3997	2909	2726	2928	3970	2313	2294	4069	1449	2962				
P64T39 R	-	-	-	-	-	-	-	3883	2949	3234	4049	4230	4238	3955	3830	2195	3618				
6968 RSF	-	-	-	-	-	-	-	3956	2926	2546	3855	3702	3111	2595	3919	1604	3135				
Gem/Mean	3157	2720	2440	2534	3251	1159	2543	4143	2972	3117	3523	3784	3431	3188	3038	2164	3262				

Tabel 23 Opbrengstwaarskynlikheid (%) van kultivars geëvalueer 2014/15, 2015/16 en 2016/17 vir die warm produksiegebiede by verskillende opbrengspotensiaal  
 Table 23 Yield probability (%) of cultivars evaluated in 2014/15, 2015/16 and 2016/17 for the warm production areas at different yield potentials

Kultivar Cultivar	Opbrengspotensiaal/Yield potential (t/ha)									
	1.5	2	2.5	3	3.5	4	4.5			
PAN1454R	50	46	41	37	33	31	29			
LS6146R	18	26	38	51	65	75	82			
LS6248R	25	30	36	44	52	59	64			
PHB95Y20R	22	22	24	26	29	32	35			
LS6164R	48	29	15	6	3	1	1			
LS6161R	70	64	58	50	43	36	31			
LS6261R	11	17	27	40	54	66	76			
PAN1614R	36	34	34	32	33	33	34			
LS6240R	30	26	23	21	19	19	19			
PHB94Y80R	29	37	46	56	65	73	78			
PAN1521R	88	89	90	89	88	87	85			
PHB96T06R	48	38	29	21	16	12	10			
PAN1623R	74	71	69	64	61	56	53			
DM5953RSF	87	85	82	76	71	64	57			
NS5909R	44	51	58	65	70	75	78			
NS6448R	49	51	53	55	56	58	59			
DM6.8IRR	90	84	76	64	50	37	28			
NS7211R	71	72	71	70	69	67	65			

Tabel 24 Saadopbrengs (kg/ha<sup>-1</sup>) van kultivars gedurende die 2015/16 en 2016/17 groeiseisoen ten opsigte van die verskillende lokaliteite wat in die warm produksiegebiede geleë is  
 Table 24. Seed yield (kg/ha<sup>-1</sup>) of cultivars during the 2015/16 and 2016/17 growing season for the various localities situated in the warm production areas

Kultivar	2015/16				2016/17		
	Atlanta	Brits	Groblersdal	Gem/Mean	Brits	Brits K2	Gem/Mean
LS 6240 R	1634	1419	2405	1819	1551	2416	1984
PAN 1454 R	1652	1935	2484	2023	1673	2578	2125
SSS 4945 (tuc)	1170	1450	3858	2159	2064	2687	2375
LS 6146 R	1763	1829	4110	2567	1722	2483	2103
PHB 94 Y 80 R	1598	1460	3461	2173	1766	2717	2241
LS 6248 R	1515	1727	4360	2534	1524	2861	2193
SSS 5449 (tuc)	1305	1715	2653	1891	1938	2220	2079
NS 5009 R	2072	1802	3284	2386	-	-	-
DM 5.1i RR	1357	1820	3684	2287	-	-	-
PHB 95 Y 20 R	1576	1319	3852	2249	2431	2551	2491
DM 5953 RSF	1705	2555	4285	2848	2921	3668	3294
SSS 5052 (tuc)	2008	1733	3524	2422	1871	2601	2236
PAN 1521 R	2163	1941	4890	2998	3654	4176	3915
PAN 1500 R	2064	1693	3836	2531	-	-	-
NS 5909 R	2237	1866	4764	2956	2052	2419	2236
LS 6261 R	1234	1818	4146	2399	1738	2637	2187
PHB 96 T 06 R	1921	1475	2934	2110	2352	2159	2256
PAN 1623 R	2265	1658	3413	2445	2364	2896	2630
LS 6161 R	2321	1705	4071	2699	2203	2448	2326
DM 6.2i RR	2183	1886	4581	2883	-	-	-
SSS 6560 (tuc)	2225	2102	3463	2597	2328	2188	2258
LS 6164 R	2060	1628	3422	2370	1885	2400	2142
PAN 1614 R	2194	1727	4042	2655	1891	2260	2075
NS 6448 R	2336	1607	4126	2689	1926	2019	1973
DM 6.8i RR	2114	1752	3696	2521	2565	2688	2626
NS 7211 R	2557	1595	3540	2564	2297	2591	2444
PAN 1532 R	-	-	-	-	1910	1895	1902
5609 RSF	-	-	-	-	2174	2846	2510
5302 RSF	-	-	-	-	2649	3095	2872
SSS 5755 (tuc)	-	-	-	-	1652	2008	1830
LDC 5.9	-	-	-	-	2936	3413	3174
LDC 6.0	-	-	-	-	1431	1906	1669
P61T38 R	-	-	-	-	2419	2732	2576
6663 RSF	-	-	-	-	1842	1947	1895
P64T39 R	-	-	-	-	4226	2825	3526
6968 RSF	-	-	-	-	2645	2080	2362
Gem/Mean	1893	1739	3726	2453	2206	2575	2391

Table 25 Saamegevatte inligting van al die lokaliteite in die koel produksiegebiede, 2016/17  
 Table 25 Summterised information for all the localities in the cool production areas, 2016/17

Kultivar/Cultivar	Dae tot blom/ Days to flowering	Fisiologies ryp/ Physiological mature	Oes datum/ Harvest date	Plant hoogte/ Plant height	Peulhoogte/ Pod height	Omval/ Lodging	Groen stam/ Green stem	Opspring/ Shattering	Plantteling/ Number of plants	Perentasie ongewenste sade/ Percentage undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persentasie/ Oil percentage	Ru-proteienpersentasie/ Crude protein percentage	Opbrengs/ Yield
LS 6240 R	57	121	141	70	6	1.22	1.60	2.39	216	0.41	20.44	13.47	33.92	3020
PAN 1454 R	50	125	147	85	7	1.39	2.40	2.17	251	0.73	17.57	13.37	33.38	2795
SSS 4945 (tuc)	53	121	144	69	6	1.17	1.73	3.67	243	0.42	18.15	12.34	35.07	3447
LS 6146 R	50	121	144	79	7	1.33	1.53	2.61	252	0.62	16.19	11.48	34.75	2936
PHB 94 Y 80 R	52	123	144	62	4	1.44	2.47	3.17	230	0.83	17.32	14.37	33.39	3192
LS 6248 R	66	140	158	91	10	1.28	2.87	2.28	260	0.98	15.06	12.52	32.88	3046
SSS 5449 (tuc)	69	137	157	87	8	1.28	2.67	2.28	256	0.40	14.81	13.35	33.83	3185
PHB 95 Y 20 R	78	150	167	79	9	1.94	3.73	2.00	260	0.59	15.95	15.23	32.23	2842
DM 5953 RSF	54	125	144	76	6	1.28	1.53	2.33	251	0.36	17.76	12.19	33.95	4123
PAN 1532 R	77	142	161	79	9	1.17	2.33	1.17	259	0.55	15.34	12.58	33.86	3159
SSS 5052 (tuc)	76	144	169	90	11	1.67	2.07	1.56	248	0.58	14.45	13.88	33.51	2949
5609 RSF	71	143	162	70	7	1.17	3.00	2.11	246	0.45	16.68	12.78	32.94	3352
PAN 1521 R	75	144	160	95	11	2.39	2.73	1.72	273	1.05	16.95	13.37	32.45	3533
5302 RSF	71	144	157	82	7	1.39	2.53	2.44	258	0.71	17.47	15.72	32.53	3443
LS 6261 R	71	148	164	78	10	1.22	3.60	2.06	254	0.65	16.65	13.47	33.06	3134
SSS 5755 (tuc)	75	149	172	86	9	1.22	2.33	1.67	253	0.61	15.39	12.24	32.83	2936
NS 5909 R	76	152	173	91	11	1.72	2.80	2.28	268	0.48	15.83	13.69	33.41	3320
LDC 5.9	77	146	173	95	9	2.28	2.60	1.50	240	0.75	17.94	14.13	32.64	3218
PHB 96 T 06 R	86	153	169	97	10	1.67	1.40	1.22	255	0.62	15.27	12.42	34.11	2784
LDC 6.0	78	150	172	71	6	1.61	3.13	1.78	190	0.54	15.90	15.40	31.74	2561
PAN 1623 R	76	148	169	93	9	1.72	1.87	1.56	264	0.82	14.91	14.50	33.25	3271
LS 6161 R	74	146	164	92	10	1.39	2.47	2.28	270	0.41	14.76	12.95	33.40	3004
P61T38 R	73	147	166	70	9	1.17	3.13	1.28	255	0.62	16.04	14.10	33.28	3220
SSS 6560 (tuc)	75	144	171	88	10	1.56	2.27	1.64	245	0.56	15.08	13.02	33.29	2964
6663 RSF	79	155	175	95	9	2.06	3.07	1.28	241	0.84	16.54	14.40	32.35	2800
LS 6164 R	74	149	166	96	9	1.67	3.07	2.28	255	0.74	16.30	14.03	32.73	2931
PAN 1614 R	78	149	171	98	11	1.72	2.40	1.33	255	0.58	15.56	15.05	32.86	3048
NS 6448 R	75	151	167	81	10	1.67	1.60	2.83	246	0.54	15.61	13.82	33.75	3227
P64T39 R	77	157	174	101	10	1.89	2.40	1.39	260	0.66	16.12	13.77	32.82	3522
DM 6.8i RR	78	155	175	107	10	2.06	2.13	1.44	255	1.18	16.41	12.04	32.64	3098
6968 RSF	80	156	177	104	13	1.17	2.87	1.50	251	0.91	16.93	14.11	32.55	2751
NS 7211 R	77	156	170	80	9	1.17	3.27	2.50	244	0.67	16.53	14.46	31.78	3196
Gem/Mean	71	143	163	85	9	1.53	2.49	1.99	250	0.65	16.31	13.57	33.16	3125



Tabel 26 Saamgevatte inligting van al die lokaliteite in die matige produksiegebiede, 2016/17  
 Table 26 Summarised information for all the localities in the moderate production areas, 2016/17

Kultivar/Cultivar	Dae tot blom/ Days to flowering	Fisiologiese/Physiological maturity	Oes datum/ Harvest date	Plant hoogte/ Plant height	Peul hoogte/ Pod height	Omval/ Lodging	Groen stam/ Green stem	Opspring/ Shattering	Plantel/ Number of plants	Per sentasie/ongewenste sade/Percentage of undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persentasie/Oil percentage	Ru-proteïen-persentasie/ Crude protein percentage	Opbrengs/ Yield
LS 6240 R	45	114	135	74	9	1.08	1.92	1.29	225	0.75	21.55	13.35	34.75	3167
PAN 1454 R	44	116	136	92	11	1.04	2.54	1.14	260	0.72	18.51	12.76	34.77	2924
SSS 4945 (tuc)	45	114	133	74	8	1.25	2.29	1.38	250	0.55	19.02	12.91	35.31	3264
LS 6146 R	45	115	132	87	10	1.00	2.13	1.57	256	0.93	16.50	11.03	35.75	3030
PHB 94 Y 80 R	47	114	133	72	8	1.00	2.75	1.57	231	0.70	18.42	13.38	34.45	3065
LS 6248 R	57	122	141	91	15	1.04	2.17	1.71	251	0.68	16.10	13.60	34.01	3220
SSS 5449 (tuc)	58	122	139	89	13	1.00	1.96	1.57	268	0.46	15.18	12.36	35.22	3162
PHB 95 Y 20 R	56	123	147	83	15	1.08	3.08	1.43	256	0.92	16.59	14.67	33.57	3096
DM 5953 RSF	48	118	132	82	10	1.00	1.79	1.29	266	0.62	16.58	11.62	35.20	3529
PAN 1532 R	58	125	142	75	10	1.00	1.83	1.29	262	0.33	16.25	12.59	35.20	3316
SSS 5052 (tuc)	61	124	151	91	14	1.00	2.46	1.57	256	0.72	15.63	11.96	35.06	3191
5609 RSF	60	123	147	68	10	1.00	2.54	1.43	251	0.33	16.48	11.70	34.86	3343
PAN 1521 R	61	124	143	94	14	1.00	1.92	1.43	263	0.57	17.15	12.89	33.94	3793
5302 RSF	58	121	138	82	11	1.00	1.75	1.43	250	0.31	17.37	14.25	34.22	3361
LS 6261 R	58	123	143	76	13	1.04	2.58	1.00	250	0.57	17.17	13.34	34.64	3419
SSS 5755 (tuc)	62	126	149	88	13	1.00	2.63	1.43	255	0.61	16.43	11.99	34.24	3063
NS 5909 R	65	128	157	97	18	1.08	2.75	1.43	253	0.67	16.93	12.69	35.24	3381
LDC 5.9	60	126	151	99	14	1.29	2.17	1.14	235	0.46	19.12	13.20	34.44	3565
PHB 96 T 06 R	61	129	152	104	14	1.08	2.13	1.29	264	0.71	16.54	11.61	35.36	3349
LDC 6.0	63	126	151	75	11	1.08	2.25	1.43	188	0.45	16.07	13.10	34.17	3054
PAN 1623 R	61	127	145	93	14	1.00	2.25	1.00	271	0.69	16.03	14.37	34.51	3358
LS 6161 R	61	124	146	94	15	1.00	2.42	2.33	266	0.47	15.96	12.28	34.75	3333
P61T38 R	63	131	154	76	16	1.13	2.75	1.14	261	0.33	16.68	13.79	34.44	3389
SSS 6560 (tuc)	64	130	155	87	13	1.00	2.25	1.57	240	0.47	15.76	12.85	34.21	3150
6663 RSF	67	130	162	106	15	1.08	3.00	1.29	225	1.00	17.42	13.25	33.61	2962
LS 6164 R	64	132	151	103	18	1.00	2.75	1.38	251	0.49	17.54	12.98	34.76	3147
PAN 1614 R	65	127	154	104	17	1.00	2.58	1.29	256	0.66	16.07	13.54	34.02	3106
NS 6448 R	66	130	150	92	15	1.17	2.21	1.29	238	0.63	16.81	12.95	34.85	3299
P64T39 R	62	129	152	99	14	1.29	1.96	1.14	263	0.82	16.80	13.33	34.28	3618
DM 6.8i RR	67	132	161	112	18	1.17	2.33	1.29	253	1.47	17.36	12.35	33.35	3378
6968 RSF	64	128	161	104	17	1.04	2.46	1.00	250	0.93	18.55	14.22	33.55	3135
NS 7211 R	64	131	156	85	14	1.00	2.96	1.00	257	0.71	17.44	13.59	33.60	3228
Gem	59	125	147	89	13	1.06	2.36	1.36	251	0.65	17.06	12.95	34.51	3262

Tabel 27 Saamgevatte inligting van al die lokaliteite in die warmer produksiegebiede, 2016/17  
 Table 27 Summarised information for all the localities in the warmer production areas, 2016/17

Kultivar/Cultivar	Dae tot blom/ Days to flowering	Fisiologiese/Physiological maturity	Oes datum/ Harvest date	Plant hoogte/ Plant height	Peulhoogte/ Pod height	Omval/ Lodging	Groen stam/ Green stem	Opspring/ Shattering	Plantteling/ Number of plants	Persentasie ongewenste sade/Percentage undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persentasie/Oil percentage	Ru-proteïen/ Crude protein percentage	Opbrengs/ Yield
LS 6240 R	39	100	119	49	6	1.33	2.50	3.00	259	0.45	19.97	12.90	35.67	1984
PAN 1454 R	41	110	123	54	7	1.00	4.17	4.00	291	0.55	18.00	13.45	35.46	2125
SSS 4945 (tuc)	36	110	118	55	5	1.00	3.50	4.00	291	0.70	16.42	12.35	36.31	2375
LS 6146 R	36	106	119	57	6	1.00	3.33	3.50	263	0.90	15.67	10.90	36.74	2103
PHB 94 Y 80 R	43	100	125	46	5	1.00	3.67	4.00	291	0.90	17.47	11.78	36.37	2241
LS 6248 R	47	110	125	62	8	1.17	3.33	4.00	267	0.55	15.98	13.77	35.57	2193
SSS 5449 (tuc)	48	105	119	53	5	1.00	3.33	4.50	278	0.55	15.28	12.95	36.39	2079
PHB 95 Y 20 R	47	114	129	55	9	1.00	3.33	3.50	291	0.95	15.73	13.45	35.38	2491
DM 5953 RSF	41	109	121	74	8	1.00	3.33	3.00	293	1.20	16.45	11.66	35.78	3294
PAN 1532 R	43	111	123	44	5	1.00	2.33	2.00	280	0.40	14.90	14.40	34.74	1902
SSS 5052 (tuc)	48	113	131	58	8	1.00	3.00	1.50	301	1.10	15.27	13.15	35.57	2236
5609 RSF	46	117	126	46	5	1.00	3.83	3.50	291	0.50	17.08	12.53	36.11	2510
PAN 1521 R	46	114	128	84	9	1.00	2.83	1.50	323	0.65	19.38	13.33	35.01	3915
5302 RSF	47	109	122	56	5	1.00	3.17	3.50	288	0.70	17.98	15.16	35.15	2872
LS 6261 R	48	110	124	51	8	1.00	4.00	4.50	285	1.35	16.35	13.38	35.37	2187
SSS 5755 (tuc)	50	118	130	54	6	1.00	2.83	2.00	293	0.85	16.08	14.00	34.55	1830
NS 5909 R	50	114	132	61	7	1.00	3.67	2.00	303	0.85	15.87	13.90	35.94	2236
LDC 5.9	50	117	139	76	8	1.00	3.17	1.00	296	0.55	19.18	12.83	35.26	3174
PHB 96 T 06 R	50	117	132	68	6	1.00	3.00	2.00	294	0.75	15.98	15.64	34.16	2256
LDC 6.0	49	114	131	48	6	1.00	3.67	2.00	223	0.45	16.27	15.01	34.79	1669
PAN 1623 R	48	114	126	64	6	1.00	2.33	1.50	293	0.70	15.10	14.11	35.45	2630
LS 6161 R	48	113	130	68	9	1.00	3.33	4.00	314	0.80	14.80	15.53	34.13	2326
P61T38 R	46	117	132	54	9	1.00	3.17	1.50	300	0.75	15.42	15.08	34.75	2576
SSS 6560 (tuc)	50	114	140	64	7	1.00	3.17	2.00	258	1.25	17.05	14.93	34.49	2258
6663 RSF	53	128	133	66	7	1.00	3.00	2.50	297	2.60	16.32	16.00	32.41	1895
LS 6164 R	49	114	131	73	9	1.00	3.17	3.50	305	0.95	16.65	15.21	34.20	2142
PAN 1614 R	50	114	125	59	9	1.00	2.83	2.00	294	1.15	16.08	14.21	33.32	2075
NS 6448 R	54	125	129	55	9	1.00	2.33	4.50	280	2.75	14.98	16.25	33.80	1973
P64T39 R	50	114	136	85	9	1.00	3.67	1.00	314	0.75	16.87	14.19	34.45	3526
DM 6.8i RR	51	128	142	79	10	1.00	4.00	1.50	303	2.15	17.87	13.04	34.32	2626
6968 RSF	52	117	138	73	9	1.00	3.50	1.50	290	1.45	18.55	14.76	34.73	2362
NS 7211 R	49	121	132	56	6	1.00	2.83	4.00	291	1.80	16.70	15.72	33.58	2444
Gem	47	114	128	61	7	1.02	3.23	2.77	289	1.00	16.62	13.92	35.00	2391