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Potchefstroom

Agricultural Research Council
Grain Crops
Potchefstroom

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Republic of South Africa

**VERSLAG VAN DIE NASIONALE
SOJABOON KULTIVARPROEWE
2023/24**

**REPORT OF THE NATIONAL
SOYBEAN CULTIVAR TRIALS**

Verantwoordelike beampte:

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1 INTRODUCTION

The National Soybean Cultivar Trials (project M101/62 (P05000002) were planted for the 46th successive year this past growing season. A total of 36 trials (of the planned 37 trials) were planted at 33 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 and 35 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, 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 (UPL inoculant) 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 plot.
- 2.2.2 Physiological maturity: The number of days when 50% of the pods appear yellow or brown.
- 2.2.3 Date of harvest maturity: When 95% of the pods for a given plot had turned brown. This is an indication of length of growing season, (number of days from date of planting to date of maturity).
- 2.2.4 Plant height: The average height in centimetre (cm) of plants from the soil surface to the growth point at maturity.
- 2.2.5 Pod height: The average height in centimetre (cm) of the lowest pods on the plant from soil surface at maturity.
- 2.2.6 Lodging: Lodging at time of harvest was rated on the following scale:
- 1 = No lodging
 - 2 = Few lodgings, will not hamper mechanical harvesting
 - 3 = Few lodgings, lodging less than what will hamper mechanical harvesting
 - 4 = Few lodgings, 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 = Many 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

- 2.2.7 Green stem: The percentage green stems at harvest rated on a 1 (normally mature) to 5 (more than 80% green stems) scale.
- 2.2.8 Shattering: Measured at time of harvest. Shattering is reported on a scale of 1 (no shattering) to 5 (more than 91-100% pods shattered).
- 2.2.9 Plant count three (3) weeks after emergence: The number of plants counted on 5 m of the two inner rows. This data will be used to calculate the germination percentage and will be compared with the germination percentage of different soil types.
- 2.2.10 100 seeds mass: Determined on an air-dry basis from a randomly selected sample retained on a 4,75 mm standard grading screen.
- 2.2.11 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).
- 2.2.12 Protein and oil percentage: The analysis was done by the Agricultural Research Council (ARC) using the Near-Infrared Red (NIR DA 7250 Perten) instrument. Samples are being verified by the SAGL (Southern African Grain Laboratory NPC) by using the “Soxhlet” apparatus (oil percentage) and the “Dumas” method (protein percentage).
- 2.2.13 Grain yield: Four metres of the two centre rows were harvested by hand at soil level and threshed. The grain moisture was determined, and 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 mean 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 DISCUSSIONS OF RESULTS

3.1 GENERAL

The rainfall and irrigation data are shown in Table 3.

Six (6) of the 36 trials planted could not be included (16.7%) in the report compared to the six (6) out of 33 trials (18.2%) in the 2022/23 season.

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

1. Bergville – not planted
2. Chrissiesmeer – hail damage
3. Cornelia -poor emergence and hail damage.
4. Delareyville – high CV%.
5. Groblersdal (ARC) – high CV%.
6. Potchefstroom (Pannar) – poor stand due to heat wave after emergence.
7. Rietvlei – flooding just after planting.

As in the previous seasons the evaluation of the trials was based on several 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 (44 days Schweizer-Reneke PD1 and the longest in the cooler areas (90 days at Kokstad).

The number of days to physiological maturity is shown in Table 5. The longest average days to maturity was experienced at Kokstad (155 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 US68-12 IPRO (MG 6.8) had a mean plant height of 111 cm (highest) in the warm area compared to 49 cm (lowest) of the indeterminate cultivar Lake 253 RR (MG 5.5) in the warm region.

The average plant height between localities varied from a mean of 44 cm at Barberspan to 107 cm at Greytown Kranskop.

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 cultivar P71T74 R (MG 7.1; indeterminate), had a mean pod height of 24 cm in the warm area, but also had an above average pod height in the cool and moderate areas.

Other cultivars with above average pod heights for all the climate areas are PAN 1555 R (MG 5.7, indeterminate), LG60261 IPR (MG 6.0; indeterminate), US63-22 IPRO (MG 6.3; indeterminate), RA6422R (MG 6.4; indeterminate), P64T39 R (MG 6.4; indeterminate), US68-12 IPRO (MG 6.8; indeterminate), Y651 IPRO (MG 6.5; indeterminate), DM 61I63RSF IPRO (MG 6.6; indeterminate) and P71T74 R (MG 7.1; indeterminate).

Lake 253 RR (MG 5.5) (indeterminate) had the lowest reading of 4 cm in the warm area. 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 overall lodging occurred in the trial at Delmas. The highest lodging figures was reported for US63-22 IPRO and US68-12 IPRO at Delmas in the cool area.

3.2.5 Green stem (Table 10)

A high percentage of green stem was recorded at Bethlehem PD2 while the cultivars Lake 253 RR, US63-22 IPRO, US68-12 IPRO and P71T74 R showed an above average tendency for green stem for all the climatic regions. Plants also retained their leaves that could hamper the harvesting process.

3.2.6 Shattering with harvesting (Table 11)

No significant shattering occurred at any of the localities.

3.2.7 Number of plants three (3) weeks after emergence (Table 12)

Enough certified seed was provided to establish 400 000 plants ha⁻¹ for the irrigation and high rainfall areas and 350 000 for dryland. The lowest plants ha⁻¹ count were recorded at Alice due to the extreme drought. The cultivars Lake 253 RR and Lake 250 RR had in general a very low plant count.

3.2.8 Percentage undesirable seed (Table 13)

The lowest mean of 1.16% undesirable seeds was recorded for the cool region. The range varied from 2.89% at Heilbron to 0.27% at Cedara.

3.2.9 Mass (g 100⁻¹) seeds (Table 14)

The variation in seed mass among localities ranged between 11.88 g 100⁻¹ seeds at Bethlehem PD1 to 17.69 g 100⁻¹ seeds at Warrenton. The highest average seed mass was recorded for Lake 253 RR in the warm region, while LS 6851 R, had the smallest average seed in the cool area.

3.2.10 Oil percentage (Table 15)

P52T52 R and PAN 1521 R had an above average (>23%) for the moderate area. The average oil percentages are 20.43% for the cool-, 21.51% moderate- and 21.28% for the warm areas.

3.2.11 Crude Protein percentage (Table 16)

PAN 1555 R, RA5821 and PAN 1644 R had an above average percentage of 39% for all the climate regions. The overall averages are 39.15% for the cool-, 38.36% for the moderate- and 38.03% in the warm areas.

3.2.12 Profat (Table 17)

The inclusion of this table in the report was requested by Dr Erhard Bredenham 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 cultivars PAN 1515 R and LG60353R and PAN 1588 R had the highest average profat value (>60%) 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 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 18, 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.

RA565 R showed an above average yield probability for all the yield potentials in the cool, as well as the moderate areas (Tables 19 & 21). PAN 1521 R, performed above average for both the cool and warm areas (Tables 19 & 23). Y657 performed above average for the moderate and warm area (Tables 21 & 23). RA4918R, Y540 and P62T16 R only performed above average for the moderate area (Table 21), while RA660 R and P64T39 R showed an above average yield probability in the warm area (Table 23).

Lokalteite, medewerkers en proeflokaliteit van kultivarproewe soos beplan vir, 2023/24
Localities, co-operators and trial locality of the cultivar trials for 2023/24

Nr No	Lokalteit Locality	Proeflokaliteit Trial locality	Verantwoordelike beampte Responsible officer
1	Alice	Fort Hare Stellenbosch	Prof P Swanepoel & C Mutengwa
2	Barberspan	J Basson	G de Beer & L Bronkhorst
3-4	Bapsfontein	Corteva Agriscience Research Centre	J Serfontein
5	Belfast	G Roos	L Bronkhorst
6	Bergville	-	A Crocker
7-8	Bethlehem	Kleingraan Instituut ARC	L Bronkhorst
9	Brits	-	D van Staden
10	Cedara	Department of Agriculture	T Zulu
11	Chrissiesmeer	-	D van Staden
12	Clarens	D Terblanche	L Bronkhorst
13	Cornelia	-	C Pelster
14	Delareyville	-	C Pelster
15	Delmas (Agri Seed)	-	D van Staden
16	Greytown	Pannar Proefplaas	A Jarvie
17	Greytown Kranskop	-	A Crocker
18	Groblersdal (ARC)	-	L Bronkhorst
19	Heilbron	-	D van Staden
20	Hoopstad	-	G de Beer & L Bronkhorst
21	Kinross	R Taljaard	L Bronkhorst
22	Kokstad	Vosstoffel Boerdery	MP Skhakhane
23	Kroonstad	Research Station	L Bronkhorst
24	Kroonstad (Agricol)	Hoërskool Kroonstad	C Pelster
25	Leeudoringstad	Bloukool	G de Beer & L Bronkhorst
26	Lichtenburg	D Bergh	C Pelster
27	Marquard	F du Plessis	K van Wyk
28	Potchefstroom	-	F Middleton
29	Potchefstroom	Limagrain Research Station	A Jarvie
30	Rietvlei	Pannar Research station	A Venter
31-32	Schweizer-Reneke	-	G de Beer & L Bronkhorst
33	Standerton	J du Plessis	C Pelster
34	Umtata	E Buurman	M Mtyobile
35	Warrenton	Dimanda High School	F Middleton
36	Winterton	-	F Middleton
37	Zanyokwe	Terry Muirhead	Prof P Swanepoel/C Mutengwa

Tabel 1 Sojaboonsaad eienskappe en inligting oor verskaffers, 2023/24
Table 1 Soybean seed characteristics and information about agents, 2023/24

Kultivar Cultivar	Volwassenheids- groeierings 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
RA4918 R	4.9	I	BL	P	T	JAYES	Agri Seed & Technology	JAYES
NS 5258 R	4.9	I	BL	W	B	JAYES	Limagrain (K2)	NEE/NO
DM 5351RSF	5.0	I	BL	W	T	JAYES	GDM Seeds/Agricol	JAYES
RA5022 BR	5.0	I	LB	W	G	NEE/NO	Agri Seed & Technology	NEE/NO
PAN 1515 R	5.0	I	B	P	T	JAYES	Pannar	JAYES
DM 53154RSF IPRO	5.1	I	BL	P	T	JAYES	GDM Seeds/Agricol	JAYES
P52T52 R	5.2	I	B	P	T	JAYES	Pioneer	JAYES
LG60353R	5.3	I	DB	P	G	JAYES	Limagrain	JAYES
Y540	5.4	I	B	W	T	JAYES	Southern Hemisphere Seeds	NEE/NO
RA565 R	5.5	I	B	P	G	JAYES	Agri Seed & Technology	JAYES
LAKE 253 RR	5.5	I	B	P	G	JAYES	LAKE Agriculture	JAYES
LS 6851 R	5.6	D	B	P	W	JAYES	Limagrain	JAYES
US56-26R	5.6	I	B	P	G	JAYES	Unitedseeds	NEE/YES
PAN 1521 R	5.7	I	IB	P	G	JAYES	Pannar	JAYES
PAN 1555 R	5.7	I	B	P	T	JAYES	Pannar	JAYES
RA5821 R	5.8	I	IB	P	G	JAYES	Agri Seed & Technology	JAYES
LAKE 250 RR	5.8	I	B	W	T	JAYES	LAKE Agriculture	JAYES
PAN 1588 R	5.9	I	IB	P	T	JAYES	Pannar	JAYES
RA660 R	6.0	I	B	P	G	JAYES	Agri Seed & Technology	JAYES
DM59R03	6.0	I	LB	W	G	JAYES	GDM Seeds/Agricol	JAYES
DM 59160RSF IPRO	6.0	I	IB	P	G	JAYES	GDM Seeds/Agricol	JAYES
LG60260IPR	6.0	I	IB	P	G	JAYES	Limagrain	JAYES
LG60259R	6.0	I	LB	W	G	JAYES	Limagrain	JAYES
LG60261IPR	6.1	I	LB	W	G	JAYES	Limagrain	JAYES
P62T16 R	6.2	I	B	W	W	JAYES	Pioneer	JAYES
US63-22 IPRO	6.3	I	IB	P	T	NEE/NO	Unitedseeds	NEE/NO
RA6422 R	6.4	I	IB	P	G	NEE/NO	Agri Seed & Technology	NEE/NO
P64T39 R	6.4	I	KL	W	G	JAYES	Pioneer	JAYES
Y 657	6.5	I	B	P	G	JAYES	Southern Hemisphere Seeds	NEE/NO
Y651 IPRO	6.5	I	IB	P	G	JAYES	Southern Hemisphere Seeds	-
DM 68R09RSF	6.6	I	B	W	G	JAYES	GDM Seeds/Agricol	JAYES
DM 61163RSF IPRO	6.6	I	LB	W	G	JAYES	GDM Seeds/Agricol	JAYES
PAN 1644 R	6.7	I	IB	P	G	JAYES	Pannar	JAYES
US68-12 IPRO	6.8	I	B	W	G	NEE/NO	Unitedseeds	NEE/NO
P71T74 R	7.1	I	KL	W	G	JAYES	Pioneer	JAYES

*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/Tawn

Tabel 2 Algemene inligting aangaande grond en verbouingspraktyke by die onderskeie proeflokaleite van die kultivarproewe, 2023/24
Table 2 General information in connection with soil and cultivation practices at the different trial localities, 2023/24

Lokal Locality	Plantdatum Date of planting	Spasiëring Spacing (cm)	Onkruid beheer Weed control
Alice/D	28/11/2023	76	-
Barberspan/D	15/12/2023	76	Strongarm, Alahlor
Bapsfontein PD1/B/I	23/11/2023	91	-
Bapsfontein PD2/B/I	19/12/2023	91	-
Belfast/D	16/11/2023	76	Strongarm, Alahlor
Bergville	Nie geplant/Not planted		
Bethlehem PD1/D	06/11/2023	76	Strongarm, Alahlor
Bethlehem PD2/D	04/12/2023	76	Strongarm, Alahlor
Brits/B/I	17/11/2023	76	-
Cedara/D	28/11/2023	45	-
Chrissiesmeer/D	17/10/2023	76	-
Clarens/D	08/11/2023	76	Strongarm, Alahlor
Cornelia/D	17/10/2023	91	-
Delareyville/D	20/12/2023	91	-
Delmas/D	26/10/2023	76	-
Greytown/D	10/11/2023	76	Glyphosate
Greytown Kranskop/D	21/11/2023	75	-
Grobiersdal ARC/B/I	12/12/2023	76	Strongarm, Alachlor
Heilbron/D	13/11/2023	76	
Hoopstad/D	14/12/2023	76	None
Kinross/D	17/11/2023	76	Farmer spray paraquat
Kokstad/D	15/11/2023	45	Metolachlor, Glyphosate powermax
Kroonstad/D	05/12/2023	76	Strongarm, Alahlor
Kroonstad (Agricol)/D	10/11/2023	91	-
Leeudoringstad/D	14/12/2023	76	None
Lichtenburg/D	24/11/2023	91	-
Marquard	15/01/2024	76	-
Potchefstroom (Limagrain)/D	23/10/2023	76	-
Potchefstroom (Pannar)/B/I	23/11/2023	90	-
Rietveld/B/I	19/12/2023	45	-
Schweizer Reneke/ PD1/D	09/11/2023	110	Round-up
Schweizer Reneke/ PD2/D	14/12/2023	110	Round-up
Standerton (Platrand)/D	06/11/2023	91	-
Umtata/D	22/11/2023	75	Round-up
Winterton/D	22/11/2023	76	Round-up
Warrenton/B/I	08/12/2023	76	-
Zanyokwe/B/I	29/11/2023	76	-

Tabel 3 Reënval en besproeiing vir die verskillende lokaliteite (mm), 2023/24
Table 3 Rainfall and irrigation at the different localities (mm), 2023/24

Lokaleiteit	Maandelikse reënval (mm)/												Totaal	Besproeiing	Totaal
Locality	Monthly rainfall (mm)												Total	Irrigation	Total
	Okt	Nov	Des	Jan	Feb	Mrt	Apr						*		**
Barberspan	1	0	72	105	14	141	25						358	0	358
Bethlehem	64.77	57.91	135.13	60.71	43.94	9.65	81.53						453.64	0	453.64
Clarens	75.95	44.45	153.67	70.1	52.83	31.75	67.56						496.31	0	496.31
Greytown	151	48	158	114	25	44	32						572	0	572
Greytown Kranskop	0	134	141	189	120	40	98						722	0	722
Groblerdal	71.63	53.08	172.97	64.01	5.33	37.84	13.97						418.83	0	418.83
Hoopstad	23	31	116	118	26	14	140						468	0	468
Kinross	33.53	63.25	92.46	107.95	56.39	30.23	114.04						497.85	0	497.85
Kroonstad	59	56.8	174.2	110.2	45.6	14.6	192.2						652.6	0	652.6
Leeudoringstad	25	33	113	108	54	10	0						343	0	343
Schweizer Reneke PD1	29	26	61	94	42	8	83						343	0	343
Schweizer Reneke PD2	29	26	61	94	42	8	83						343	0	343

* Vir reënval/For rainfall

* Vir reënval en besproeiing/For rainfall and irrigation

Table 4 The number of days from planting to 50% flowering stage of the different soybean cultivars at the different trial localities, 2023/24

Cultivar	Cool/Cool						Matig/Moderate						Warm											
	Alice	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Zanyokwe	Gem/Mean	Barberspan	Cedara	Greytown	Kroonstad	Potchefstroom (Limagrain)	Winterton	Gem/Mean	Brits	Hoopstad	Schweizer-Reneke PD1	Schweizer-Reneke PD2	Warrenton	Gem/Mean	
Kuitlavar	70	62	49	72	57	58	39	73	71	61	38	52	48	50	56	56	50	39	33	37	42	43	39	
	RA4918RR																							
	71	62	54	74	57	58	53	74	67	62	38	51	48	50	56	56	50	39	34	37	43	43	39	
	NS 5258 R																							
	70	62	54	64	63	58	39	82	65	62	40	51	51	50	55	57	51	43	35	36	42	44	40	
	RA5351 RSF																							
	71	62	54	72	61	58	53	74	64	63	40	54	48	45	55	55	50	43	38	39	44	45	42	
	RA5022BR																							
	70	62	54	75	76	63	62	82	67	68	40	60	49	55	55	61	53	43	42	38	47	45	43	
	PAN 1515R																							
	DM 53154 RSF IPRO																							
	69	62	59	72	57	58	39	73	67	62	40	58	44	50	56	57	51	39	36	39	44	45	41	
	P52T52R																							
	76	65	70	86	73	74	64	91	71	74	51	67	44	64	58	71	59	49	51	44	54	56	51	
	LG60353R																							
	70	62	59	76	65	63	64	82	72	68	48	61	48	53	55	61	54	43	43	41	50	48	45	
	Y540																							
	71	65	59	81	73	63	64	89	71	71	49	63	59	59	55	65	58	43	44	43	52	52	47	
	RA 565 R																							
	LAKE 253 RR																							
81	86	78	94	83	76	69	96	81	81	75	51	66	59	64	57	67	61	43	53	43	51	53	49	
LS6851R																								
73	83	70	75	76	63	69	93	68	74	44	66	59	64	55	70	60	49	46	43	52	54	49	49	
US56-26R																								
71	65	65	83	65	74	64	90	71	72	54	66	44	64	57	69	59	49	53	43	65	53	53	53	
PAN 1521R																								
79	62	78	86	76	76	69	90	90	67	76	53	67	63	66	57	72	43	55	42	56	58	51	51	
PAN 1521R																								
81	78	78	94	83	76	77	97	76	76	82	49	70	59	69	65	74	64	54	53	33	65	61	53	
PAN 1555R																								
71	78	78	81	76	63	69	89	70	75	53	66	59	66	57	69	62	43	51	45	61	54	51	51	
RA5821R																								
LAKE 250 RR																								
77	90	78	78	84	76	74	62	96	70	78	55	71	62	66	58	80	65	49	51	44	53	61	52	
PAN 1588R																								
RA660 R																								
DM 59R03 RSF																								
79	62	65	81	73	63	69	89	89	66	74	53	67	59	64	58	67	61	49	48	43	53	53	49	
DM 59160 RSF IPRO																								
72	73	70	86	76	74	69	90	90	69	75	54	68	59	67	61	78	65	49	48	42	55	57	50	
LG60260IPR																								
82	65	78	86	90	76	85	99	91	81	81	54	71	59	73	64	74	66	54	52	45	65	60	55	
LG60259R																								
71	78	70	84	76	74	77	95	78	79	82	51	67	59	66	58	70	62	49	49	45	53	58	51	
LG60261IPR																								
72	86	78	94	83	74	77	95	77	82	79	53	70	62	67	63	78	66	49	56	45	54	61	53	
P62T16R																								
80	78	70	94	76	74	74	95	74	77	80	54	70	63	66	58	74	64	49	54	46	57	60	53	
US63-22 IPRO																								
76	65	70	86	79	74	77	99	99	69	77	52	70	65	73	59	78	66	49	55	41	57	60	52	
RA6422BR																								
84	83	70	94	76	74	85	95	76	82	85	57	70	65	73	61	77	67	54	58	46	65	64	57	
P64T39 R																								
88	90	70	92	76	74	85	96	96	76	83	59	69	69	69	62	73	67	49	55	44	55	57	52	
Y657																								
75	83	70	86	79	76	64	93	76	78	78	57	68	63	66	62	74	65	49	54	48	55	61	53	
Y651IPRO																								
85	86	78	94	88	74	85	100	71	85	51	71	71	64	73	61	78	66	49	55	54	65	62	57	
DM 68R09 RSF																								
86	83	70	94	83	76	74	90	90	79	82	58	70	65	67	65	73	66	49	58	56	66	63	58	
DM 61163 RSF IPRO																								
93	83	70	94	83	76	82	95	80	80	84	57	67	65	73	65	79	68	49	58	54	67	62	58	
PAN 1644R																								
72	78	70	84	76	76	77	89	77	78	78	55	67	64	64	65	71	64	54	55	56	62	57	57	
US68-12 IPRO																								
92	78	92	101	100	82	85	105	86	91	60	78	69	73	78	78	82	73	59	64	53	68	67	62	
P71T74 R																								
90	83	78	94	79	74	82	96	96	79	84	58	70	65	64	65	77	66	54	58	59	68	61	60	
Gem/Mean	77	74	69	85	75	71	69	90	72	76	51	66	58	64	59	71	61	47	50	44	56	56	51	

Tabel 5 Die aantal dae vanaf plant tot fisiologiesryp stadium van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 5 The number of days from planting to physiological maturity of the different soybean cultivars at the different trial localities, 2023/24

Kultivar		Koel/Cool						Matig/Moderate						Warm						
		Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Winterton	Gem/Mean	Hoopstad	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean
Kultivar	RA4918RR	112	122	135	126	119	146	127	110	111	114	112	121	118	115	112	112	118	125	117
	NS 5258 R	112	122	135	126	119	146	127	99	118	107	112	122	128	114	103	112	118	125	114
	DM 5351 RSF	112	122	122	126	119	146	125	102	118	107	112	124	121	114	112	112	118	126	117
	RA5022BR	112	122	135	126	119	146	127	102	118	107	117	120	118	114	111	112	118	122	116
	PAN 1515R	112	129	128	126	119	146	127	94	118	114	115	120	121	114	102	111	118	127	115
	DM 53154 RSF IPRO	112	122	122	126	119	146	125	100	126	125	114	126	122	119	102	113	118	127	115
	P52T52R	151	129	149	145	132	156	144	117	138	122	113	121	122	122	125	121	120	128	123
	LG60353R	140	129	128	141	132	147	136	109	121	114	112	121	120	116	111	118	126	118	123
	Y540	140	129	135	141	124	148	136	110	127	121	115	126	120	120	118	123	118	127	122
	RA 565 R	146	129	138	145	132	152	140	119	133	121	115	133	123	124	125	127	120	129	125
	LAKE 253 RR	160	150	149	152	152	161	154	125	142	69	130	132	134	122	118	137	131	137	131
	LS6851R	151	136	138	148	146	153	145	115	142	125	120	135	126	127	128	137	131	133	132
	US56-26R	146	129	138	145	124	151	139	114	135	122	118	134	124	125	125	134	126	132	129
	PAN 1521R	146	136	138	145	132	153	142	123	136	125	115	130	128	126	124	135	126	130	129
	PAN 1555R	146	150	149	148	146	166	151	114	142	125	118	140	129	128	128	134	126	131	130
	RA5821R	140	136	132	145	132	153	140	115	126	114	113	123	122	119	114	129	119	127	122
	LAKE 250 RR	146	150	149	148	132	159	147	115	145	146	125	138	141	135	123	129	128	137	129
	PAN 1588R	146	143	149	148	146	155	148	115	140	125	118	140	132	128	121	135	119	133	127
	RA660 R	140	136	149	141	124	150	140	119	129	122	124	130	120	124	118	136	119	129	126
	DM 59R03 RSF	146	143	135	145	132	153	142	115	136	122	124	132	125	126	123	136	119	130	127
DM 59160 RSF IPRO	146	147	135	148	132	160	145	114	142	125	118	137	131	128	128	136	121	132	129	
LG60260IPR	146	150	149	148	146	159	150	119	137	125	124	138	130	129	129	136	121	131	129	
LG60259R	146	147	149	148	149	155	149	123	132	125	122	138	130	128	123	137	123	131	128	
LG60261IPR	151	150	149	148	146	156	150	123	142	125	124	136	128	130	132	137	123	135	132	
P62T16R	146	150	149	148	146	161	150	123	145	133	127	141	134	134	134	142	123	135	134	
US63-22 IPRO	161	154	149	152	150	154	153	124	143	125	127	143	147	135	122	142	123	141	132	
RA6422BR	146	150	155	148	146	163	151	123	145	146	128	139	141	137	135	143	136	138	138	
P64T39 R	146	147	149	152	146	160	150	125	142	125	128	136	130	131	131	142	123	135	133	
Y657	146	147	122	148	132	157	142	121	139	133	125	139	131	131	129	145	123	138	134	
Y651IPRO	151	150	149	152	146	162	152	123	141	133	133	140	134	134	135	145	123	136	135	
DM 68R09 RSF	146	164	149	148	132	152	149	124	142	133	132	139	127	133	126	144	123	137	132	
DM 61163 RSF IPRO	151	150	138	148	146	160	149	125	141	133	133	140	133	134	133	143	123	137	134	
PAN 1644R	146	147	125	148	132	156	142	125	135	125	135	138	126	131	129	145	123	138	134	
US68-12 IPRO	160	150	149	148	152	167	154	124	145	146	133	147	154	141	144	148	138	142	143	
P71T74 R	146	150	149	148	150	162	151	127	142	133	135	144	137	136	144	148	136	139	142	
Gem/Mean	141	140	141	144	136	155	143	116	135	123	122	133	129	126	123	133	123	132	128	

Tabel 6 Die aantal dae vanaf plant tot oesstadium van die verskillende sojafoonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 6 The number of days from planting to maturity of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool						Matig/Moderate						Warm								
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Greytown	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Winterton	Gem/Mean	Hoopstad	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean	
Kultivar	RA4918RR	146	150	154	148	146	163	151	140	139	157	133	118	133	133	136	118	125	129	136	127
	NS 5258 R	146	150	149	148	151	166	152	102	129	157	133	118	133	133	129	118	125	129	136	127
	DM 5351 RSF	155	155	154	148	146	163	153	123	129	157	133	118	142	133	134	131	125	129	136	130
	RA5022BR	146	150	149	148	146	180	153	123	129	157	122	131	140	133	134	118	125	129	136	127
	PAN 1515R	146	150	154	148	146	176	153	102	139	157	133	131	133	133	133	118	125	129	138	128
	DM 53154 RSF IPRO	146	150	149	148	146	185	154	102	146	161	137	118	140	133	134	118	125	129	136	127
	P52T52R	160	168	179	161	160	192	170	140	156	161	142	131	140	136	144	131	138	129	139	134
	LG60353R	160	164	168	161	146	191	165	140	135	161	133	118	133	133	136	118	138	129	136	130
	Y540	160	164	177	161	146	190	166	140	140	161	142	131	140	133	141	131	138	129	138	134
	RA 565 R	160	164	164	161	160	188	166	140	146	161	146	131	142	133	143	131	138	129	138	134
	LAKE 253 RR	173	164	162	174	165	195	172	140	161	161	146	144	145	144	149	144	154	142	144	146
	LS6851R	169	164	168	174	175	189	173	140	161	168	146	131	139	138	146	144	154	142	144	146
	US56-26R	160	164	168	161	155	186	166	140	152	157	146	131	149	138	145	131	148	142	141	141
	PAN 1521R	164	164	186	161	151	195	170	140	142	168	146	131	140	138	144	144	148	142	131	141
	PAN 1555R	160	177	179	174	174	195	176	140	158	168	146	131	154	143	149	144	148	142	144	145
	RA5821R	160	164	186	174	155	192	172	140	140	168	133	131	140	133	141	118	138	129	136	130
	LAKE 250 RR	173	173	190	174	160	195	178	140	161	168	161	144	149	154	154	144	154	142	144	146
	PAN 1588R	160	168	174	170	169	191	172	140	156	168	146	131	148	144	148	131	149	129	144	138
	RA660 R	160	168	168	161	155	185	166	140	142	176	142	144	140	133	145	131	149	129	138	137
	DM 59R03 RSF	163	173	177	179	160	195	175	140	144	166	146	131	146	141	145	131	151	142	144	142
DM 59160 RSF IPRO	164	177	183	179	165	188	176	140	158	176	146	131	143	143	148	144	149	142	144	145	
LG60260IPR	173	173	173	174	169	195	176	140	155	176	146	131	154	141	149	144	149	142	144	145	
LG60259R	164	168	167	170	174	189	172	140	149	176	146	131	148	143	148	131	151	142	144	142	
LG60261IPR	173	177	183	174	174	190	179	140	156	166	161	131	149	147	150	144	149	142	144	145	
P62T116R	173	177	179	174	174	195	179	140	151	176	161	144	152	151	154	144	154	142	144	146	
US63-22 IPRO	173	177	186	190	174	195	183	140	161	166	166	144	162	159	157	144	154	142	153	148	
RA6422BR	173	177	179	174	174	191	178	140	161	176	177	144	151	154	158	144	154	142	147	147	
P64T39 R	173	173	181	179	174	190	178	140	158	176	156	144	151	144	153	144	154	142	147	147	
Y657	173	164	168	174	160	193	172	140	153	181	156	131	149	144	151	144	154	142	150	148	
Y651IPRO	173	177	183	190	174	190	181	140	156	171	161	144	152	149	153	144	154	135	144	144	
DM 68R09 RSF	173	177	186	174	169	195	179	140	158	181	161	144	154	141	154	144	154	142	144	146	
DM 61163 RSF IPRO	193	177	183	174	174	190	182	140	156	181	166	144	155	150	156	144	154	142	147	147	
PAN 1644R	167	173	174	174	160	190	173	140	149	181	151	144	148	143	151	144	154	142	147	147	
US68-12 IPRO	169	191	190	190	174	195	185	140	155	181	177	144	162	168	161	154	163	151	152	155	
P71174 R	172	177	190	190	174	187	182	140	161	181	177	144	165	151	160	154	167	151	153	156	
Gem/Mean	164	168	173	169	162	188	171	136	150	169	149	134	146	142	147	136	146	137	142	140	

Tabel 7 Die planthoogte van die verskillende sojaaboonkultivars by die verskillende proef lokaliteite, 2023/24
Table 7 The plant height of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool					Matig/Moderate								Warm								
	Alice	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Greytown	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Hoopstad	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean
RA4918RR	52	73	57	47	62	70	62	60	40	59	80	58	55	87	52	73	63	83	65	86	77	78
NS 5258 R	40	69	63	43	55	65	55	56	35	54	98	55	45	62	67	70	61	85	62	82	70	75
DM 5351 RSF	60	65	68	55	63	67	65	63	45	61	115	58	60	88	60	85	72	85	67	95	77	81
RA5022BR	49	72	52	53	67	58	53	58	45	49	101	58	40	70	67	63	62	76	51	82	65	69
PAN 1515R	58	75	68	57	75	75	64	67	40	71	106	67	60	92	51	87	72	53	65	75	82	69
DM 53154 RSF IPRO	56	75	65	57	73	68	54	64	40	57	102	52	40	75	61	83	64	70	74	76	73	73
P52152R	53	67	65	47	80	65	60	62	45	69	97	63	45	88	43	75	66	82	66	85	85	80
LG60353R	46	72	55	52	63	68	60	59	30	55	77	72	45	72	66	80	62	48	65	73	85	68
Y540	52	72	63	45	62	73	57	61	40	61	100	62	52	95	58	72	67	60	74	85	85	76
RA 565 R	61	80	58	47	75	58	62	63	40	65	106	60	55	97	33	77	66	72	68	77	88	76
LAKE 253 RR	58	40	53	52	55	55	67	54	45	58	87	48	30	68	59	68	58	50	36	40	70	49
LS6851R	58	70	62	43	70	68	65	62	30	64	91	50	35	72	47	73	58	49	22	60	75	51
US56-26R	60	80	72	58	80	73	56	68	60	75	109	67	65	117	54	92	80	105	95	100	97	99
PAN 1521R	54	73	73	67	70	77	66	68	40	74	122	75	60	97	61	92	78	91	93	93	87	91
PAN 1555R	71	72	70	55	73	70	64	68	50	72	106	72	55	93	57	92	74	90	100	95	97	95
RA5821R	59	77	58	50	72	63	55	62	50	66	106	70	40	97	48	83	70	56	92	90	87	81
LAKE 250 RR	61	42	62	55	60	63	61	58	38	64	103	68	32	70	57	55	61	55	40	50	68	53
PAN 1588R	54	82	67	47	77	73	64	66	45	80	112	72	55	102	55	93	77	95	110	85	95	96
RA660 R	50	68	53	43	62	68	65	59	40	52	107	63	42	78	69	63	64	80	83	73	73	78
DM 59R03 RSF	59	80	70	48	72	73	69	67	45	77	104	70	65	88	59	88	74	85	96	95	95	93
DM 59160 RSF IPRO	64	82	72	60	70	67	51	66	50	75	110	73	47	103	63	90	76	90	116	90	98	99
LG60260IPR	56	72	72	65	72	75	76	70	40	66	110	73	56	107	49	90	74	115	95	85	100	99
LG60259R	62	87	77	53	68	72	66	69	50	84	127	73	70	113	59	103	85	76	82	80	105	86
LG60261IPR	55	90	68	52	72	77	64	68	42	70	107	68	70	105	60	88	76	95	110	80	87	93
P62T16R	62	75	73	57	73	68	66	68	45	74	109	65	57	82	53	85	71	102	103	80	105	98
US63-22 IPRO	66	75	72	70	75	70	67	71	45	81	116	75	46	102	61	105	79	112	110	95	87	101
RA6422BR	59	80	72	52	73	72	71	68	45	76	102	72	65	102	70	80	76	116	96	90	103	101
P64T39 R	53	78	80	53	68	78	69	69	60	72	116	75	60	95	69	85	79	95	97	85	93	93
Y657	50	85	70	52	72	67	61	65	50	80	120	57	52	97	54	82	74	115	107	75	100	99
Y6511PRO	71	75	80	67	73	83	78	75	40	85	126	67	60	117	61	95	81	110	126	90	95	105
DM 68R09 RSF	65	65	65	55	75	65	66	65	45	72	112	58	48	103	50	90	72	75	103	90	92	90
DM 61163 RSF IPRO	64	75	73	55	82	75	80	72	45	77	125	72	60	113	52	87	79	120	110	92	95	104
PAN 1644R	58	80	60	55	67	10	70	57	40	74	80	67	50	95	61	77	68	100	112	95	97	101
US68-12 IPRO	68	87	75	77	65	70	82	75	40	91	137	88	60	113	55	103	86	125	126	95	100	111
P71T74 R	77	78	73	50	68	72	77	71	50	82	116	68	48	108	65	82	77	117	121	90	112	110
Gem/Mean	58	74	67	54	70	68	65	65	44	70	107	66	52	93	57	83	71	87	87	83	89	86

Tabel 8 Die peulhoogte van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2023/24
Table 8 The pod height of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool				Matig/Moderate								Warm										
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Hoopstad	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean	
Kultivar	RA4918RR	8	6	6	7	4	15	8	3	12	10	6	5	8	14	5	8	10	12	10	6	9	
	NS 5258 R	7	7	6	3	4	10	6	3	10	12	4	5	5	13	4	7	12	11	10	4	9	
	DM 5351 RSF	3	5	8	7	5	14	7	5	12	24	3	10	5	18	7	11	10	12	15	7	11	
	RA5022BR	8	2	8	7	4	13	7	5	11	10	6	4	6	10	5	7	12	9	9	3	8	
	PAN 1515R	7	7	8	6	7	15	8	4	14	13	6	4	4	10	13	7	9	11	8	9	9	
	DM 53154 RSF IPRO	7	3	8	7	6	14	8	4	10	12	5	5	5	12	14	5	8	10	12	7	5	9
	P52T52R	8	9	9	9	9	20	11	4	15	14	8	4	4	10	14	13	10	15	11	10	10	11
	LG60353R	9	7	9	6	8	16	9	2	13	15	7	7	5	7	14	7	9	9	10	7	9	9
	Y540	9	6	6	6	9	18	9	4	13	22	6	3	3	7	16	9	10	7	9	10	8	8
	RA 565 R	10	8	9	8	9	19	11	3	16	14	6	4	4	10	14	10	10	12	11	12	11	11
	LAKE 253 RR	1	5	9	4	7	18	7	4	9	16	4	2	8	8	12	7	8	3	3	5	6	4
	LS6851R	7	7	9	8	8	18	10	2	15	21	6	3	3	5	14	8	9	4	2	10	10	7
	US56-26R	7	7	9	8	10	19	10	5	15	31	7	5	5	10	11	13	12	20	16	16	18	18
	PAN 1521R	10	8	13	8	10	21	12	4	16	15	8	5	5	7	14	10	10	15	15	14	10	14
	PAN 1555R	10	14	12	10	11	25	14	10	18	26	9	3	3	8	12	15	13	20	20	15	17	18
	RA5821R	10	7	9	8	7	18	10	5	12	15	8	4	4	8	13	9	9	8	14	11	7	10
	LAKE 250 RR	4	4	10	6	7	21	9	2	14	24	7	2	2	5	12	4	9	7	4	7	6	6
	PAN 1588R	10	9	9	10	9	17	11	3	19	24	8	8	8	9	12	15	12	12	21	9	11	13
	RA660 R	9	8	6	8	9	16	9	3	13	5	6	5	5	11	11	7	8	11	15	7	11	11
	DM 59R03 RSF	9	10	9	7	9	18	10	3	17	17	8	6	6	10	14	8	10	11	20	13	8	13
	DM 59160 RSF IPRO	10	11	11	9	12	16	11	5	16	24	9	4	4	9	15	16	12	15	26	15	19	19
	LG60260IPR	9	10	12	9	12	24	13	3	14	17	8	4	4	8	11	14	10	25	17	13	17	18
	LG60259R	12	9	8	9	11	19	11	5	19	23	9	10	10	18	12	15	14	12	11	12	20	14
	LG60261IPR	15	11	11	11	14	21	14	8	17	25	10	10	10	7	15	15	13	18	19	17	18	18
P62T16R	10	11	12	10	10	19	12	4	14	17	7	7	4	12	16	11	10	20	20	12	16	17	
US63-22 IPRO	15	12	15	10	12	19	14	4	16	35	8	4	4	16	11	15	14	20	19	19	16	19	
RA6422BR	15	9	11	8	10	19	12	8	15	17	11	6	3	12	14	13	12	20	16	18	17	18	
P64T39 R	12	9	10	9	12	19	12	6	15	32	8	3	3	10	16	12	13	20	18	14	12	16	
Y657	9	8	8	8	9	16	10	5	17	15	6	5	5	14	16	11	11	20	21	15	14	18	
Y651IPRO	14	14	14	12	15	27	16	3	18	33	10	4	4	18	15	17	15	25	29	20	19	23	
DM 68R09 RSF	7	12	9	9	9	18	11	4	15	18	7	5	5	9	13	12	10	7	19	18	11	14	
DM 61163 RSF IPRO	11	11	12	11	12	27	14	4	17	41	9	6	6	12	13	11	14	25	24	19	16	21	
PAN 1644R	8	10	9	9	10	21	11	4	15	16	8	5	5	9	17	7	10	20	24	20	11	19	
US68-12 IPRO	11	13	15	11	12	23	14	4	19	22	11	5	5	12	17	22	14	28	19	20	23	23	
P71T74 R	10	10	10	9	11	20	12	5	16	29	9	3	3	7	16	12	12	28	23	25	22	24	
Gem/Mean	9	9	10	8	9	19	11	4	15	20	20	7	5	10	14	11	11	15	15	13	12	14	

Tabel 9 Omvalwaarnemings (1-5) van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 9 Lodging dat (1-5) of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Cool/Cool						Moderate/Moderate								Warm												
	Bapfontein PD1	Bapfontein PD2	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Greytown Pannar	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Brits	Hoopstad	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean
RA4918RR	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	1.67	1.00	1.00	1.00	1.00	1.00	1.07	1.00	1.00	1.00	1.00	1.00	1.00
NS 5258 R	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	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
DM 5351 RSF	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	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
RA5022BR	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	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
PAN 1515R	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	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
DM 53154 RSF IPRO	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	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	1.00	1.00	1.00
P52152R	1.33	1.00	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.26	1.00	1.00	1.00	1.00	4.00	1.00	1.00	1.00	1.00	1.33	1.37	1.00	1.00	1.00	1.00	1.00	1.00
LG60353R	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	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
Y540	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	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
RA 565 R	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	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
LAKE 253 RR	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.11	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	1.00	1.00	1.00
LS6851R	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	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
US56-26R	1.67	1.00	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.30	1.00	1.00	1.00	1.00	2.33	1.00	1.00	1.00	1.00	1.00	1.15	3.00	1.00	1.00	1.00	1.00	1.47
PAN 1521R	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	1.33	1.00	1.00	1.00	1.00	1.00	1.04	2.00	1.00	1.00	1.00	1.00	1.20
PAN 1555R	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.11	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	1.00	1.00	1.00
RA5821R	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	2.00	1.00	1.00	1.00	1.00	1.00	1.11	1.00	1.00	1.00	1.00	1.00	1.00
LAKE 250 RR	1.33	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.04	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1588R	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	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
RA660 R	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	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
DM 59R03 RSF	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.11	1.00	1.00	1.00	1.00	2.33	1.00	1.00	1.00	1.00	1.00	1.15	1.00	1.00	1.00	1.00	1.00	1.00
DM 59160 RSF IPRO	1.33	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.15	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.04	2.00	1.00	1.00	1.00	1.00	1.20
LG60260IPR	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.20
LG60259R	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	2.33	1.00	1.00	1.00	1.00	1.00	1.15	1.00	1.00	1.00	1.00	1.00	1.00
LG60261IPR	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	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
P62T16R	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	1.67	1.00	1.00	1.00	1.00	1.00	1.07	1.00	1.00	1.00	1.00	1.00	1.00
US63-22 IPRO	1.67	1.00	1.00	1.00	1.00	1.00	5.00	1.00	1.00	1.52	1.00	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.07	2.00	1.00	1.00	1.00	3.00	1.60
RA6422BR	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	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
P64T39 R	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.07	1.00	1.00	1.00	1.00	1.00	1.00
Y657	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	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
Y651IPRO	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.22	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	1.00	1.00	1.00
DM 68R09 RSF	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.20
DM 61163 RSF IPRO	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.20
PAN 1644R	1.00	1.00	1.00	1.00	1.00	1.00	3.00	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	1.00	2.00	1.00	1.00	1.00	1.00	1.33
US68-12 IPRO	1.67	1.00	1.00	1.00	1.00	1.00	5.00	1.00	1.00	1.52	1.00	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.00	1.07	4.00	1.00	1.00	1.00	3.00	2.00
P71T74 R	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.11	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.04	2.00	1.00	1.00	1.00	1.00	1.40
Gem/Mean	1.10	1.03	1.00	1.00	1.00	1.00	1.57	1.00	1.00	1.08	1.00	1.00	1.00	1.00	1.37	1.00	1.00	1.00	1.00	1.02	1.04	1.37	1.00	1.00	1.00	1.00	1.11

Tabel 10 Groenstam (1-5) van die verskillende sojaaboonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 10 Greenstem (1-5) of the different soybean cultivars at the different trial localities, 2023/24

Kultivar		Koel/Cool						Matig/Moderate										Warm						
		Bapfontein PD1	Bapfontein PD2	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Cedara	Greytown Kranskop	Greytown Pannar	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Hoopstad	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Gem/Mean
Kultivar	RA4918RR	1.00	1.00	2.33	1.00	2.00	1.00	1.00	1.00	1.29	5.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.48	2.00	1.67	1.00	1.56
	NS 5258 R	1.00	1.00	1.00	1.00	3.33	2.00	1.00	1.00	1.42	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.11	1.00	1.00	1.00	1.00
	DM 5351 RSF	1.00	1.00	4.67	2.00	3.67	2.33	1.00	1.00	2.08	2.67	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.22	1.00	1.00	3.00	1.67
	RA5022BR	1.00	1.00	3.67	1.00	2.00	1.00	1.00	1.00	1.46	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.11	2.00	2.00	1.00	1.67
	PAN 1515R	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.00	1.25	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
	DM 53154 RSF IPRO	1.00	1.00	2.67	1.00	2.67	1.33	1.00	1.00	1.46	2.00	1.00	1.00	1.00	1.33	2.00	1.00	1.00	1.00	1.26	2.00	1.00	1.00	1.33
	P52T52R	1.00	1.00	1.00	1.67	4.00	1.00	1.00	1.00	1.46	3.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.48	1.00	1.00	2.00	1.33
	LG60353R	1.00	1.00	1.00	1.00	3.67	1.00	1.00	1.00	1.33	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.22	2.00	2.00	1.00	1.67
	Y540	1.00	1.00	1.00	1.33	3.00	1.33	1.00	1.00	1.33	3.00	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.26	2.00	2.00	1.00	1.67
	RA 565 R	1.00	1.00	1.00	1.00	4.33	1.00	1.33	1.00	1.46	4.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.00	2.67	2.00	1.89
	LAKE 253 RR	1.00	1.00	4.00	1.33	3.67	1.00	1.33	1.00	1.79	4.00	1.33	1.00	1.00	1.00	4.00	1.00	1.00	1.33	1.74	5.00	4.33	4.67	4.67
	LS6851R	1.00	1.00	1.00	1.33	2.33	1.00	2.00	1.00	1.33	2.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.33	5.00	5.00	4.33	4.78
	US56-26R	1.33	1.00	1.00	1.00	3.33	1.33	1.00	1.00	1.38	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.11	2.00	1.00	1.00	1.33
	PAN 1521R	1.00	1.00	1.00	1.00	3.67	2.00	1.00	1.00	1.46	3.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.33	2.00	1.00	1.00	1.33
	PAN 1555R	1.00	1.00	2.33	3.67	3.00	2.33	3.67	1.00	2.25	3.00	1.00	1.00	1.00	1.00	3.33	1.00	1.00	1.33	1.52	3.00	1.33	1.00	1.78
	RA5821R	1.00	1.00	1.33	1.33	2.33	1.00	1.00	1.00	1.25	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.11	2.00	2.00	1.00	1.67
	LAKE 250 RR	1.33	-	2.00	1.33	3.00	1.00	1.67	1.00	1.62	5.00	1.00	1.00	1.00	1.00	2.00	3.00	1.00	1.00	1.81	5.00	5.00	5.00	5.00
	PAN 1588R	1.00	1.00	1.00	1.67	3.67	1.00	1.33	1.00	1.46	2.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.22	2.00	1.00	2.00	1.67
	RA660 R	1.00	1.00	1.00	1.67	4.67	1.00	1.00	1.00	1.54	5.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.44	1.00	1.33	1.00	1.11
	DM 59R03 RSF	1.00	1.00	1.67	1.00	3.67	1.00	1.00	1.00	1.42	2.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.22	2.00	1.00	1.00	1.33
DM 59160 RSF IPRO	1.00	1.00	1.00	1.33	2.67	1.00	1.33	1.00	1.29	2.00	1.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.15	1.00	1.00	1.00	1.00	
LG60260IPR	1.00	1.00	1.00	2.00	2.67	1.00	2.67	1.00	1.54	2.00	1.33	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.26	1.00	2.00	1.00	1.33	
LG60259R	1.00	1.67	1.33	1.67	4.00	2.00	2.00	1.00	1.83	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.22	2.00	2.00	2.00	2.00	
LG60261IPR	1.00	1.67	5.00	1.67	4.00	2.00	2.67	1.00	2.38	4.00	1.00	1.00	1.00	1.00	3.67	3.00	1.00	1.33	1.89	2.00	1.00	1.00	1.33	
P62T16R	1.00	1.33	1.33	2.33	3.33	1.67	3.00	1.00	1.88	4.00	1.00	1.00	1.00	1.00	3.33	1.00	1.00	1.67	1.67	2.00	2.00	1.00	1.67	
US63-22 IPRO	1.00	2.33	2.00	2.67	3.33	2.00	2.67	1.00	2.13	3.00	1.00	1.00	1.00	2.33	2.33	1.00	1.00	3.00	1.74	3.00	3.00	1.00	2.33	
RA6422BR	1.00	1.00	1.00	1.33	2.67	1.33	3.00	1.00	1.54	3.00	1.00	1.00	1.00	3.00	4.00	1.00	1.00	3.33	2.04	4.67	1.00	2.00	2.56	
P64T39 R	1.00	1.33	1.00	1.67	3.33	1.33	2.00	1.00	1.58	2.00	1.00	1.00	1.00	1.67	2.33	1.00	1.00	1.33	1.37	2.00	2.00	1.00	1.67	
Y657	1.00	1.00	1.00	1.00	3.67	1.00	1.00	1.00	1.33	2.00	1.00	1.00	1.00	1.00	2.00	3.00	1.00	1.00	1.44	2.00	1.00	1.00	1.33	
Y651IPRO	1.00	1.33	1.00	3.33	3.00	2.00	3.33	1.00	2.00	2.00	1.00	1.00	1.00	1.00	1.33	1.00	1.00	2.00	1.26	2.00	3.00	2.33	2.44	
DM 68R09 RSF	1.00	1.00	1.00	1.67	3.00	1.33	2.67	1.00	1.58	3.00	1.00	1.00	1.00	1.67	3.33	1.00	1.00	1.67	1.63	2.00	2.67	1.00	1.89	
DM 61163 RSF IPRO	1.33	1.00	1.00	3.00	3.33	1.33	2.67	1.33	1.88	2.00	1.00	1.00	1.00	1.00	3.67	1.00	1.00	1.67	1.48	1.00	3.00	1.00	1.67	
PAN 1644R	1.00	1.00	1.00	2.33	3.67	1.00	1.33	1.00	1.54	4.00	1.00	1.00	1.00	1.33	3.00	2.00	1.00	1.00	1.70	1.00	3.00	2.00	2.00	
US68-12 IPRO	2.33	1.00	3.33	5.00	3.33	3.00	5.00	1.67	3.08	4.00	1.00	1.00	1.00	4.00	5.00	1.00	1.00	4.00	2.44	5.00	1.00	5.00	3.67	
P71T74 R	1.00	1.00	2.33	2.67	3.00	1.33	3.67	1.00	2.00	4.00	1.00	1.00	1.00	3.33	4.00	1.00	1.00	1.33	1.96	5.00	2.00	1.00	2.67	
Gem/Mean	1.07	1.11	1.71	1.74	3.26	1.40	1.84	1.03	1.65	2.90	1.02	1.00	1.31	2.08	1.34	1.00	1.00	1.35	1.45	2.28	1.94	1.70	1.97	

Tabel 11 Oopspring (1-5) van die verskillende soja boonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 11 Shattering (1-5) of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool						Matig/Moderate								Warm								
	Bapfontein PD1	Bapfontein PD2	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Gem/Mean	Barberspan	Greytown	Kranskop	Greytown Pannar	Kroonstad	Leeudoringstad	Potchefstroom (Limagrain)	Winterton	Gem/Mean	Hoopstad	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton	Gem/Mean
RA4918RR	1.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.08	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
NS 5258 R	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.00	1.05	1.00	1.00	1.00	1.00
DM 5351 RSF	2.00	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.67	1.00	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.00	1.00
RA5022BR	1.33	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.17	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.05	1.00	1.00	1.00	1.00	1.00
PAN 1515R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DM 53154 RSF IPRO	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.13	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
P52T52R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LG60353R	1.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.08	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
Y540	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.04	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
RA 565 R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LAKE 263 RR	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LS6851R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
US66-26R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1521R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1555R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
RA5821R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LAKE 250 RR	1.00	-	1.00	1.00	1.33	1.00	1.00	1.00	1.05	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
PAN 1588R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
RA660 R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DM 59R03 RSF	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DM 59160 RSF IPRO	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LG60260IPR	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LG60259R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LG60261IPR	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
P62T16R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
US63-22 IPRO	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.14	1.00	1.00	1.00	1.00	1.00
RA6422BR	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
P64T39 R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Y657	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Y651IPRO	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DM 68R09 RSF	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DM 61163 RSF IPRO	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PAN 1644R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
US68-12 IPRO	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
P71T74 R	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Gem/Mean	1.12	1.00	1.00	1.00	1.05	1.00	1.00	1.00	1.02	1.00	1.00	1.00	1.00	1.07	1.00	1.00	1.00	1.01	1.00	1.00	1.00	1.00	1.00

Tabel 12 Die plantelling drie weke na opkoms (x 1000) van die verskillende soja-boonkultivars by die verskillende proeflokaleite, 2023/24
 Table 12 The number of plants three weeks after germinations (x 1000) of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Cool/Cool						Matig/Moderate						Warm												
	Alice	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Kinross	Kokstad	Marquard	Zanyokwe	Gem/Mean	Barberspan	Cedara	Greytown Kranskop	Kroonstad	Kroonstad (Agricola)	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Hoopstad	Lichtenburg	Schweizer-Reneke PD1	Schweizer-Reneke PD2	Warrenton	Gem/Mean
RA4918RR	52	231	191	298	189	231	264	313	277	282	153	422	335	95	209	268	356	167	251	133	198	125	84	281	164
NS 5258 R	56	272	236	325	240	254	309	315	349	262	127	432	372	149	253	212	438	168	269	148	319	152	99	307	205
DM 5351 RSF	62	283	253	313	212	177	208	298	312	235	135	369	313	147	201	261	412	184	253	115	286	145	112	270	186
RA5022BR	41	196	240	312	197	181	263	310	221	218	137	349	302	164	212	236	371	232	250	145	321	116	93	279	191
PAN 1515R	112	198	182	241	95	226	194	297	298	205	140	360	307	154	237	232	346	144	240	138	168	126	80	260	154
DM 53154 RSF IPRO	55	134	186	287	142	136	149	265	206	173	86	237	355	69	169	171	364	145	199	148	135	133	101	213	146
P52152R	54	254	243	300	162	236	291	324	221	232	148	413	347	186	308	264	391	208	283	196	300	125	141	288	210
LG60353R	119	222	198	282	149	244	226	352	267	229	151	375	312	168	281	228	264	174	244	191	322	114	122	293	208
Y540	92	178	209	281	162	243	224	286	235	210	153	360	345	133	253	221	343	180	249	199	176	91	136	239	168
RA 565 R	46	268	255	283	161	235	279	356	317	244	145	396	307	217	311	251	352	206	273	186	303	89	117	329	205
LAKE 253 RR	78	32	56	199	42	63	162	279	259	130	92	268	337	25	190	100	322	74	176	107	289	83	53	179	142
LS6851R	145	219	232	297	195	226	259	368	289	248	178	359	347	174	152	201	390	195	249	184	275	128	130	300	204
US56-26R	60	215	169	301	151	223	247	286	282	215	138	381	357	180	260	250	319	160	255	125	292	150	127	236	186
PAN 1521R	56	286	229	272	252	238	263	326	333	251	158	430	308	156	325	296	362	198	279	209	347	144	101	320	224
PAN 1555R	88	260	237	269	211	208	252	308	268	233	153	337	327	147	223	210	339	184	240	155	249	89	90	266	170
RA5821R	98	243	234	314	205	182	239	315	280	234	181	390	315	161	303	281	366	224	278	158	311	129	134	346	216
LAKE 250 RR	52	109	32	211	48	18	146	212	189	113	63	260	355	14	161	130	311	91	173	41	242	110	57	93	108
PAN 1588R	117	245	214	300	198	231	271	369	176	236	188	419	362	218	314	274	394	197	296	191	311	166	138	329	227
RA660 R	111	252	242	311	209	245	323	342	263	255	245	416	318	208	243	282	335	195	280	188	291	104	146	326	211
DM 59R03 RSF	54	225	223	298	217	211	286	309	334	240	105	431	352	162	245	241	361	197	262	209	289	148	144	251	208
DM 59160 RSF IPRO	69	232	236	303	195	238	222	319	310	236	164	388	337	195	314	207	302	188	262	137	300	154	159	294	209
LG60260IPR	58	263	219	307	181	249	378	318	256	248	184	397	347	188	234	314	389	191	280	133	275	107	160	287	192
LG60259R	35	275	223	265	205	191	241	317	252	223	163	389	352	196	170	209	381	188	256	153	304	113	126	275	194
LG60261IPR	84	260	213	247	209	200	300	334	359	245	125	418	307	184	198	277	403	228	267	151	209	166	145	293	193
P62T16R	37	192	222	310	212	205	267	327	313	232	125	346	325	154	172	240	355	159	234	148	249	156	93	261	181
US63-22 IPRO	47	264	221	313	230	248	308	343	301	253	179	408	333	168	183	219	388	186	258	141	292	140	123	246	189
RA6422BR	126	263	228	314	206	186	223	354	345	249	130	396	308	207	336	222	343	159	263	169	308	115	123	296	202
P64T39 R	124	258	217	279	163	235	259	343	257	237	141	376	350	162	308	274	374	140	266	188	260	135	89	261	186
Y657	96	257	231	296	170	240	237	317	287	237	160	391	330	129	121	248	349	160	236	140	292	138	81	264	183
Y651IPRO	67	220	222	293	189	241	309	295	289	236	191	368	347	123	209	244	349	196	253	112	256	99	129	261	171
DM 68R09 RSF	37	245	212	280	184	220	248	337	254	224	112	350	333	157	150	248	373	199	240	194	220	105	143	241	180
DM 61163 RSF IPRO	49	235	240	272	169	200	320	322	291	233	138	408	310	122	172	311	315	174	244	166	169	121	103	236	159
PAN 1644R	71	259	214	289	213	231	350	333	299	251	163	374	337	229	157	249	381	169	257	188	267	132	109	272	193
US68-12 IPRO	30	260	253	329	200	228	288	343	337	252	181	402	317	228	201	258	366	184	267	209	242	120	172	313	211
P71T74 R	97	189	188	293	191	221	272	310	306	230	163	367	338	233	238	289	363	166	270	140	267	148	120	285	192
Gem/Mean	73	228	212	288	181	210	259	318	281	228	148	377	333	160	229	241	359	177	253	158	267	126	117	271	188

Tabel 13 Persentasie ongewenste sade van die verskillende sojaboonkultivars by die verskillende proef lokaliteite, 2023/24
Table 13 Percentage undesirable seed of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool						Matig/Moderate								Warm													
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Standerton	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Heilbron	Kroonstad	Kroonstad (Agricol)	Leeudoringstad	Potchefstroom (Limagrain)	umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton	Gem/Mean
RA4918RR	0.41	0.77	0.30	0.52	0.45	0.73	0.51	2.12	0.73	2.10	0.51	0.23	0.93	0.93	1.36	1.15	1.04	0.63	0.47	0.98	0.94	1.60	0.79	2.55	1.21	0.16	0.94	1.26
NS 5258 R	0.71	1.34	0.88	0.52	0.36	0.68	0.14	0.95	0.70	8.29	0.13	0.14	2.87	0.48	0.71	1.77	0.33	0.62	0.63	1.70	1.25	1.51	2.92	1.12	0.05	2.07	1.37	
DM 5351 RSF	2.46	0.34	0.90	0.53	0.39	0.52	0.30	0.88	0.79	1.52	0.26	0.38	2.36	1.40	0.55	2.86	0.00	0.60	0.64	1.10	1.34	1.14	1.12	0.65	0.23	0.20	0.90	
RA5022BR	0.85	0.50	1.30	0.93	0.09	0.57	3.08	1.65	1.12	6.43	0.27	0.16	1.16	2.64	0.24	4.29	0.55	0.37	1.20	1.79	0.94	0.69	2.35	0.40	0.39	0.93	0.95	
PAN 1515R	0.72	0.32	1.71	0.39	0.53	1.03	0.52	0.99	0.78	6.23	0.19	0.16	1.38	0.86	0.29	1.33	0.23	0.45	0.97	1.24	0.61	3.23	1.87	2.49	0.50	1.42	1.74	
DM 53154 RSF IPRO	2.23	0.34	1.01	0.61	0.69	0.77	0.89	1.52	1.01	1.59	0.27	0.25	1.77	0.98	0.80	1.72	0.00	0.97	0.46	0.93	4.04	1.58	1.41	1.16	0.61	0.90	1.76	
PS2T52R	0.77	1.05	0.84	0.42	0.65	1.24	0.51	1.11	0.82	1.77	0.41	0.31	1.47	1.05	1.04	1.63	0.29	0.06	1.19	0.89	1.24	1.32	1.01	1.16	0.54	1.08	1.05	
LG60353R	0.38	1.88	0.23	0.24	0.00	1.18	0.76	1.71	0.80	3.82	0.41	0.15	2.81	2.62	0.43	2.18	0.17	0.27	0.76	1.43	0.86	1.71	1.96	0.38	1.38	0.59	1.26	
Y540	0.68	1.85	1.60	0.59	0.55	3.02	0.33	1.73	1.29	1.39	0.56	0.98	1.69	2.59	1.33	1.38	1.31	0.42	0.83	1.29	0.71	1.07	1.54	0.86	1.12	0.85	1.06	
RA 565 R	0.79	1.34	1.98	1.45	0.29	7.32	0.41	1.97	1.94	1.17	0.35	0.24	1.85	0.80	0.76	1.55	0.09	0.39	0.27	0.80	0.98	1.28	1.52	0.22	0.82	0.68	0.96	
LAKE 253 RR	0.38	1.30	0.38	0.81	0.94	1.23	0.34	1.13	0.81	1.70	0.16	0.31	2.44	1.96	0.82	2.02	0.00	0.07	0.41	1.05	1.21	1.33	1.97	1.01	1.28	1.06	1.36	
LS6851R	0.93	4.39	0.82	1.34	0.69	4.22	0.00	1.49	1.74	3.59	0.44	0.08	5.29	5.59	2.11	2.20	0.00	0.47	0.46	2.20	0.60	1.80	3.23	0.86	1.79	0.71	1.66	
US66-26R	0.08	1.77	1.03	0.65	0.89	2.58	0.38	2.25	1.20	1.44	0.12	0.46	2.53	2.05	0.76	2.37	0.83	0.20	0.56	1.20	0.88	0.69	2.13	0.85	1.71	1.02	1.25	
PAN 1521R	0.29	0.72	2.53	0.83	0.91	1.15	0.63	2.11	1.15	1.25	0.60	0.49	3.41	2.18	0.45	1.03	0.71	0.44	0.43	1.17	1.16	2.34	1.68	0.68	0.73	0.71	1.32	
PAN 1555R	0.40	1.44	1.48	1.05	0.58	1.77	0.80	0.95	1.06	1.33	0.00	0.08	3.22	1.73	0.77	3.06	2.61	0.44	0.96	1.47	2.01	2.18	1.45	0.63	1.14	1.21	1.48	
RA5821R	0.41	2.67	0.95	0.91	0.81	1.73	0.52	1.17	1.15	1.16	0.52	0.45	2.98	3.22	1.93	3.01	0.52	0.51	0.75	1.59	1.85	1.38	1.82	0.21	1.77	0.34	1.41	
LAKE 250 RR	0.58	0.31	1.34	0.32	0.79	1.57	0.06	0.90	0.73	2.51	0.00	0.21	3.50	2.32	1.11	2.93	1.76	0.45	0.96	1.64	2.09	1.06	2.16	0.77	1.15	1.15	1.45	
PAN 1588R	0.33	2.05	1.91	0.68	0.25	1.56	0.29	0.85	0.99	3.37	0.17	0.64	1.71	2.51	0.82	2.08	0.50	0.56	1.28	1.37	1.06	1.40	2.52	0.21	2.54	0.57	1.55	
RA660 R	2.73	1.94	2.25	2.23	0.21	7.28	0.41	0.80	2.23	3.03	0.04	0.15	2.99	1.50	0.81	1.77	0.19	0.09	0.69	1.17	1.34	1.58	2.95	0.83	1.47	0.27	1.63	
DM 59R03 RSF	0.41	1.01	1.97	1.85	0.39	2.43	0.13	1.35	1.19	1.95	0.30	0.28	2.96	1.42	2.04	2.54	0.72	0.67	0.75	1.43	1.09	1.05	2.62	1.44	2.37	1.07	1.71	
DM 59160 RSF IPRO	0.76	4.99	0.84	0.73	0.74	2.37	0.50	0.31	1.41	1.98	0.28	0.81	2.43	1.96	1.21	1.87	0.15	0.02	1.87	1.19	0.51	1.51	1.89	0.16	3.25	0.55	1.46	
LG60260IPR	0.26	3.69	1.01	1.37	0.84	2.25	0.35	1.61	1.42	2.02	0.30	0.32	3.76	1.07	1.01	2.69	0.28	0.23	0.97	1.30	0.94	0.41	1.73	0.87	3.38	0.82	1.47	
LG60259R	0.71	1.60	1.62	0.62	0.18	1.68	0.33	2.13	1.11	1.88	0.00	0.46	3.76	1.81	1.51	2.63	1.05	0.09	0.67	1.47	2.96	1.26	1.75	0.36	1.93	0.43	1.65	
LG60261IPR	0.75	3.73	1.46	1.72	0.42	1.95	0.34	1.11	1.44	1.40	0.00	0.32	3.00	2.62	0.38	2.16	1.15	0.03	1.33	1.23	0.66	0.44	1.03	0.00	3.87	1.35	1.20	
P62T16R	0.30	4.06	0.44	3.40	0.73	2.29	0.28	1.84	1.67	1.65	0.65	0.24	2.77	3.64	1.97	1.38	1.19	1.17	1.25	1.63	1.49	1.70	2.08	0.34	2.47	0.71	1.62	
US63-22 IPRO	0.67	4.61	1.18	1.24	0.78	1.36	0.26	0.76	1.36	2.00	0.05	0.44	3.08	5.71	0.80	1.54	0.80	0.21	1.22	1.63	1.29	0.42	2.49	0.48	2.25	1.03	1.39	
RA6422BR	0.35	1.21	0.72	0.95	0.59	1.48	0.42	0.56	0.79	1.03	0.25	0.67	4.53	2.58	1.41	2.03	1.13	0.08	0.74	1.52	1.09	1.28	3.57	0.76	4.00	1.16	2.14	
P64T39 R	0.21	2.23	1.12	2.46	0.90	2.20	0.00	0.85	1.25	2.97	0.50	0.96	4.00	3.89	2.54	2.77	1.03	0.15	0.59	2.09	1.47	1.65	3.14	0.61	3.50	1.54	2.07	
Y657	2.75	0.90	0.51	1.36	0.66	1.83	0.26	0.61	1.11	0.84	0.23	0.43	1.51	1.99	1.07	2.65	0.00	0.15	1.24	0.99	0.86	1.05	1.48	0.06	2.02	0.20	1.09	
Y651IPRO	1.31	1.95	0.79	2.62	1.18	1.85	0.03	1.06	1.35	1.87	0.30	0.21	3.17	1.33	1.43	1.18	1.54	0.59	0.61	1.29	2.06	1.51	2.19	0.10	6.58	1.17	2.49	
DM 68R09 RSF	0.65	1.04	0.64	2.39	0.72	1.17	0.00	0.61	0.90	0.90	0.00	0.85	5.04	2.49	0.82	1.31	0.26	0.84	1.54	1.39	0.75	0.41	1.81	0.00	6.65	0.68	1.92	
DM 6163 RSF IPRO	0.24	3.89	0.40	1.95	0.57	1.15	0.22	0.06	1.06	2.61	0.44	0.31	2.15	1.31	0.26	1.73	0.57	0.33	1.24	1.08	1.90	1.19	1.37	0.26	3.43	0.35	1.63	
PAN 1644R	0.10	1.46	0.73	0.84	0.44	1.57	0.07	0.62	0.73	1.21	0.21	0.30	2.91	2.52	1.18	2.07	0.75	0.34	0.30	1.28	1.94	1.18	2.25	0.13	5.21	0.38	2.14	
US68-12 IPRO	0.93	4.24	1.07	2.07	1.04	4.98	0.54	0.44	1.91	1.66	0.07	0.76	4.97	3.19	0.53	1.56	3.86	0.06	1.56	1.85	1.15	1.16	2.02	0.48	4.47	0.22	1.86	
P71T74 R	0.28	1.67	1.73	1.33	1.19	1.18	0.00	0.61	1.00	1.71	0.35	0.37	4.85	1.45	1.12	1.45	0.71	0.40	0.89	1.38	1.31	0.80	2.97	0.55	1.33	1.27	1.39	
Gem/Mean	0.77	1.96	1.13	1.20	0.61	2.05	0.42	1.17	1.16	2.32	0.27	0.39	2.89	2.19	1.03	2.05	0.74	0.38	1.03	1.36	1.35	1.29	2.07	0.64	2.17	0.85	1.50	

Tabel 14 Massa van 100 sade (g) van die verskillende sojaaboonkultivars by die verskillende proef lokaliteite, 2023/24
 Table 14 Mass 100 seeds (g) of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool						Matig/Moderate										Warm										
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Standerton	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Heilbron	Kroonstad	Kroonstad (Agricol)	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton
RA4918RR	18.06	12.42	13.70	11.81	13.88	12.32	10.76	14.51	13.43	10.13	14.34	17.24	10.91	11.95	13.47	12.87	11.90	14.21	11.74	12.88	17.21	13.80	12.36	13.47	13.40	17.78	14.67
NS 5258 R	16.81	11.39	12.84	12.10	13.41	11.48	13.07	13.91	13.13	10.67	14.11	15.56	9.76	11.29	13.47	11.67	12.07	15.28	10.85	12.47	16.42	13.40	11.45	12.53	14.00	17.46	14.21
DM 5351 RSF	17.68	12.11	12.80	12.08	15.33	12.82	12.69	14.17	13.71	10.87	15.25	18.97	10.16	12.66	15.59	12.73	14.93	13.96	11.24	13.63	15.86	12.80	13.80	12.27	15.47	17.47	14.61
RA5022BR	17.27	11.83	11.95	11.77	15.10	12.75	11.73	13.72	13.27	8.87	13.60	17.82	10.20	10.24	15.05	12.40	12.76	14.19	11.32	12.65	18.01	12.53	12.97	15.27	13.27	16.60	14.77
PAN 1515R	16.63	11.93	14.22	12.41	13.32	12.22	12.42	14.43	13.45	8.53	14.72	16.36	9.94	12.00	14.52	14.00	13.73	14.29	12.26	13.04	17.10	11.20	12.45	12.27	13.80	19.19	14.33
DM 53154 RSF IPRO	18.58	13.45	13.97	13.40	15.89	13.15	14.18	15.35	14.75	12.80	16.15	19.55	12.32	16.47	17.13	14.87	14.98	17.06	13.34	15.47	19.10	14.47	13.63	14.67	16.00	19.73	16.27
P52T52R	14.27	11.51	13.35	11.89	13.62	12.60	14.39	13.60	13.15	13.27	15.99	16.46	12.89	10.49	13.40	12.13	11.96	15.63	9.88	13.21	15.44	14.53	11.79	12.47	12.13	16.34	13.78
LG60353R	15.18	10.65	13.94	11.19	16.15	12.23	13.68	16.19	13.65	12.87	14.36	16.84	10.98	10.42	16.03	12.00	13.75	14.39	11.16	13.28	18.31	15.53	13.61	13.40	12.40	17.67	15.15
Y540	13.88	10.85	14.18	11.47	14.61	10.98	13.99	13.92	12.99	13.80	13.62	14.02	12.75	9.83	14.06	15.07	13.05	14.77	9.38	13.03	17.32	13.53	13.31	13.27	15.27	16.91	14.93
LAKE 253 RR	16.39	12.91	14.28	11.90	13.71	15.02	14.77	13.99	14.12	12.87	15.98	17.23	14.81	18.13	14.12	16.53	14.07	15.48	13.94	15.31	22.27	15.53	16.57	17.20	13.60	18.88	17.34
LS6851R	13.96	9.16	13.21	10.21	11.81	10.88	15.23	12.17	12.08	10.87	14.13	15.36	11.90	10.25	10.76	14.00	11.81	13.16	9.47	12.17	18.56	15.93	13.47	17.67	13.07	15.55	15.71
US56-26R	15.11	11.56	15.17	12.00	15.09	12.43	14.54	14.79	13.84	13.40	13.63	15.33	12.85	11.89	13.08	12.93	14.89	15.25	12.38	13.56	17.96	16.53	14.81	13.13	14.20	17.59	15.70
PAN 1521R	16.34	12.33	15.10	12.81	15.77	11.91	14.43	15.37	14.26	14.40	15.41	16.20	13.37	10.37	15.00	15.13	13.37	16.64	13.65	14.35	18.99	12.80	13.97	12.00	13.00	18.42	14.86
PAN 1555R	17.12	12.52	14.90	12.75	14.19	13.45	16.51	15.81	14.66	15.67	16.24	15.93	13.91	12.98	12.91	16.67	13.89	17.69	13.15	14.90	15.78	15.13	14.43	12.87	12.60	18.80	14.94
RA5821R	15.81	11.85	14.39	13.08	14.98	12.11	13.87	15.84	13.99	12.20	14.39	17.14	12.65	8.52	12.49	13.40	12.63	15.76	11.87	13.10	17.71	13.87	12.60	14.80	12.67	18.70	15.06
LAKE 250 RR	17.18	15.80	16.76	14.00	14.98	16.32	15.78	15.33	15.77	13.73	16.61	17.75	13.89	19.26	16.47	16.27	13.30	16.24	16.49	16.00	17.49	17.80	16.43	15.07	14.33	19.43	16.76
PAN 1588R	15.82	10.91	13.05	12.15	13.11	12.98	14.06	14.61	13.34	12.13	13.98	15.37	12.71	12.27	13.49	13.13	12.69	15.55	12.87	13.42	16.00	14.20	12.30	13.87	11.53	16.61	14.08
RA660 R	15.46	11.34	14.35	11.89	14.51	11.10	15.25	15.03	13.62	13.87	14.46	17.84	14.01	11.47	12.61	14.40	12.43	15.76	9.92	13.68	19.37	15.13	13.57	12.20	11.60	18.47	15.06
DM 59R03 RSF	17.36	12.41	14.90	13.51	17.16	12.85	16.16	16.64	15.12	12.47	16.82	17.10	13.47	12.24	14.26	15.60	14.03	17.43	13.39	14.68	17.95	15.13	15.22	13.87	8.47	20.25	15.15
DM 59160 RSF IPRO	14.33	10.50	14.30	10.42	11.72	12.19	12.72	13.17	12.42	15.00	12.76	15.90	12.34	11.19	9.86	14.40	12.10	14.43	11.46	12.94	15.51	14.00	12.46	14.93	12.67	15.80	14.23
LG60260IPR	15.05	10.95	13.86	10.84	16.19	12.45	13.19	14.64	13.40	15.60	14.17	14.05	12.00	11.04	11.34	12.80	12.90	14.41	11.65	13.00	14.82	15.00	11.69	14.27	13.07	16.53	14.23
LG60259R	15.94	11.69	14.23	12.54	14.84	13.68	14.15	14.70	13.97	12.07	14.40	17.88	13.29	12.26	13.62	14.53	14.09	14.55	13.11	13.98	17.21	13.27	14.50	16.07	11.00	18.47	15.09
LG60261IPR	15.58	11.77	12.91	11.84	14.09	14.08	14.15	13.86	13.53	12.47	14.08	14.34	14.00	12.53	12.41	14.13	12.64	15.42	11.61	13.36	15.73	14.13	14.27	13.33	11.07	16.94	14.25
P62T16R	15.66	11.63	14.32	11.64	14.74	14.59	14.68	15.10	14.05	14.13	15.50	17.52	13.76	13.82	14.02	15.93	13.17	15.86	14.39	14.81	17.11	15.87	13.95	13.47	12.87	18.18	15.24
US63-22 IPRO	15.81	11.12	13.59	12.80	13.33	12.55	14.49	16.07	13.72	15.27	15.06	16.94	12.14	12.38	12.08	13.93	13.67	15.17	15.37	14.20	14.28	14.27	13.05	14.60	10.33	17.13	13.94
RA6422BR	15.96	12.66	14.41	11.94	14.78	14.35	14.44	15.30	14.23	14.33	15.25	17.06	14.41	13.36	12.69	15.87	13.28	16.02	15.65	14.79	14.91	14.00	16.92	15.93	10.80	17.84	15.07
P64T39 R	16.09	12.75	14.09	13.67	12.87	14.29	14.91	14.77	14.18	13.87	14.88	16.87	14.30	13.11	13.87	14.20	12.39	15.91	12.66	14.21	16.10	16.00	13.89	12.93	11.00	17.19	14.52
Y657	15.86	10.73	14.02	11.67	13.07	12.08	13.71	15.09	13.28	13.07	13.07	14.70	14.13	12.72	12.49	14.87	12.09	14.99	11.53	13.37	14.92	15.27	14.02	12.27	11.40	16.31	14.03
Y651IPRO	15.35	11.83	14.29	11.77	11.52	13.72	13.88	15.37	13.47	11.87	14.74	14.80	13.99	13.35	11.89	14.00	11.26	16.04	12.70	13.46	13.62	14.00	13.06	15.00	12.00	16.58	14.04
DM 68R09 RSF	15.60	11.31	13.93	11.85	14.90	13.16	14.12	14.40	13.66	12.80	14.55	16.50	13.80	13.49	11.69	15.40	12.58	15.50	11.57	13.79	14.93	13.87	14.11	14.53	10.87	17.20	14.25
DM 61163 RSF IPRO	15.66	12.12	14.07	12.84	13.40	14.56	15.30	16.17	14.27	15.13	15.43	15.45	14.95	16.18	13.34	15.87	13.70	16.47	13.57	15.01	15.98	15.47	15.25	13.13	12.33	18.39	15.09
PAN 1644R	14.64	11.69	14.65	13.26	13.37	13.48	14.26	15.36	13.84	14.10	14.98	16.64	14.15	12.99	13.48	15.67	13.19	15.79	12.32	14.33	15.22	16.20	15.20	14.27	13.40	17.87	15.36
US68-12 IPRO	13.70	12.93	12.41	13.59	10.73	14.64	11.34	16.24	13.20	13.60	13.34	15.07	13.36	13.65	12.40	14.80	10.61	12.93	14.75	13.45	11.25	14.67	13.56	13.20	12.33	15.41	13.40
P71174 R	16.13	12.71	14.66	12.93	13.69	15.65	14.64	16.01	14.55	13.27	14.27	17.87	15.16	15.21	15.15	13.47	15.94	16.80	14.48	15.16	15.16	17.80	15.63	15.40	10.33	18.85	15.53
Gem/Mean	15.89	11.88	14.07	12.27	14.14	13.07	14.10	14.90	13.79	12.97	14.77	16.48	12.95	12.63	13.52	14.27	13.15	15.42	12.47	13.86	16.63	14.60	13.88	13.99	12.50	17.69	14.88

Tabel 15 Olepercentasie op vogtviye basis van die verskillende sojafoonkultivars by die verskillende proef lokaliteite, 2023/24

Table 15 Oil percentage on moisture free basis of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Koel/Cool						Matig/Moderate						Warm														
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Standerton	Gem/Mean	Barberspan	Cedara	Greytown	Heilbron	Kroonstad	Kroonstad (Agricol)	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer-PD1	Schweizer-PD2	Warrenton	Gem/Mean
RA4918RR	21.69	19.97	21.91	22.13	21.24	21.23	22.70	22.74	21.70	21.40	21.94	23.39	21.87	22.07	21.45	22.96	20.17	23.34	21.13	21.97	21.60	24.06	22.47	21.16	23.69	21.01	22.33
NS 5258 R	20.56	20.01	21.70	18.48	21.18	19.81	22.91	22.49	20.89	19.98	21.53	23.19	19.58	19.30	21.27	20.32	21.70	22.39	21.23	21.05	21.68	23.60	22.43	19.72	24.02	21.23	22.11
DM 5351 RSF	20.95	19.92	22.25	17.30	21.45	21.29	23.77	20.99	20.99	17.14	21.61	20.62	20.87	21.73	21.06	22.16	23.14	20.40	21.15	21.28	23.67	22.02	20.08	23.45	20.40	21.82	
RA5022BR	21.33	19.74	20.67	21.67	21.43	21.75	18.43	21.92	20.87	20.69	21.52	23.21	21.10	18.90	22.43	20.01	20.55	22.20	20.39	21.10	21.97	23.19	22.40	20.79	23.47	20.39	22.04
PAN 1515R	20.46	19.11	21.04	21.21	20.69	19.12	19.08	21.65	20.30	19.17	20.52	22.31	20.04	20.11	21.79	22.05	22.04	22.16	21.35	21.15	23.15	20.57	20.99	21.10	22.41	21.35	21.60
DM 53154 RSF IPRO	20.16	19.22	21.67	17.74	20.65	19.67	19.41	19.60	19.77	20.66	21.26	22.03	20.24	20.71	21.48	20.72	20.30	22.77	20.67	21.08	21.09	21.65	21.31	20.14	22.40	20.67	21.21
P52T52R	20.93	18.87	20.64	20.02	21.81	19.30	20.11	22.33	20.50	21.75	22.72	22.96	21.90	18.71	37.03	22.27	21.50	22.81	19.43	23.11	22.45	23.41	21.79	21.17	22.54	19.43	21.80
LG60353R	21.88	19.83	21.95	21.32	21.14	19.61	20.71	22.76	21.15	23.08	22.85	23.85	21.71	21.79	22.45	22.81	23.50	23.21	21.63	22.69	23.18	24.17	22.85	23.01	22.52	21.63	22.89
Y540	21.95	19.73	21.06	20.28	22.39	19.80	19.09	22.65	20.87	22.38	22.81	23.64	22.22	21.40	22.07	23.61	21.77	24.02	20.78	22.47	23.51	23.21	22.83	21.35	21.77	20.89	22.01
RA 565 R	21.44	19.32	21.36	20.44	21.17	20.06	21.41	21.35	20.82	22.71	22.83	23.86	21.31	21.36	20.96	22.58	22.13	22.43	20.89	22.11	22.11	23.11	22.60	21.57	21.77	20.89	22.01
LAKE 253 RR	20.89	19.46	18.59	20.22	20.31	20.77	18.95	21.18	20.05	21.43	22.24	23.26	19.48	20.53	19.75	21.34	22.06	22.89	21.38	21.44	21.06	19.43	21.68	20.38	21.78	21.38	20.95
LS6851R	21.22	17.62	21.21	21.13	21.38	21.17	22.03	21.50	20.91	22.49	23.70	23.68	21.06	18.36	19.68	23.52	23.19	24.32	19.18	21.92	21.45	23.31	22.05	22.07	20.52	19.18	21.43
US56-26R	22.59	20.07	20.58	20.95	21.98	20.50	21.88	22.95	21.44	23.27	23.43	22.41	22.80	22.12	21.33	22.79	22.60	23.85	21.85	22.65	22.19	21.79	24.37	22.44	22.94	21.85	22.60
PAN 1521R	20.60	20.05	19.04	19.89	20.28	18.85	20.65	21.69	20.13	22.38	22.07	22.59	19.13	17.48	20.75	22.24	21.23	22.41	21.82	21.17	19.87	22.36	22.09	21.30	21.31	21.82	21.46
PAN 1555R	21.03	18.41	19.36	17.93	19.77	20.04	17.89	21.31	19.47	21.74	22.29	23.02	20.44	19.63	20.00	21.17	18.00	23.18	20.03	20.95	19.85	21.43	21.83	20.76	18.57	20.03	20.41
RA5821R	20.62	19.27	19.77	19.50	20.73	19.53	19.66	21.52	20.08	20.63	21.57	22.78	19.94	17.52	20.63	21.36	19.88	21.89	19.85	20.60	21.83	21.59	21.90	22.63	19.31	19.85	21.18
LAKE 250 RR	19.48	21.45	17.51	20.48	19.76	20.31	18.76	20.95	19.84	20.56	21.10	21.86	18.84	19.26	19.92	20.02	19.48	21.66	19.01	20.17	20.42	19.53	20.88	19.95	20.33	19.01	20.02
PAN 1588R	20.55	19.60	20.01	20.90	19.75	19.50	20.48	21.34	20.27	21.29	22.07	22.89	21.13	19.48	20.74	21.96	19.76	22.41	20.25	21.20	20.95	22.14	21.64	21.80	18.49	20.25	20.88
RA660 R	21.39	20.53	20.15	19.49	21.84	17.72	21.23	22.65	20.63	22.20	22.81	23.07	22.52	21.87	22.60	22.96	21.48	23.32	19.84	22.27	22.18	23.68	23.03	23.69	18.73	19.84	21.86
DM 59R03 RSF	20.65	18.98	19.92	20.52	20.36	19.33	20.82	21.17	20.22	20.99	21.73	23.00	20.64	18.49	21.18	22.07	20.17	22.58	20.38	21.12	20.79	22.48	22.20	24.46	18.17	20.38	21.41
DM 59160 RSF IPRO	20.81	18.57	20.79	22.04	20.45	19.54	19.00	22.57	20.47	22.56	23.01	23.72	20.67	20.61	21.22	21.26	22.03	23.23	20.75	21.91	21.89	20.91	23.08	23.30	18.11	20.75	21.34
LG60260IPR	20.62	18.03	19.39	19.75	19.90	18.73	17.15	21.45	19.38	21.98	23.28	22.87	19.30	21.41	20.57	22.52	21.45	22.94	19.41	21.57	21.70	21.47	22.55	22.89	17.45	19.41	20.91
LG60259R	20.98	19.60	20.25	20.71	20.17	19.95	20.50	39.71	22.73	22.08	23.95	23.21	19.21	20.88	21.36	21.10	19.39	23.29	21.79	21.63	20.13	22.50	21.97	23.07	18.51	21.79	21.33
LG60261IPR	19.53	17.59	19.12	18.64	21.56	18.95	20.14	20.96	19.56	20.69	21.68	21.88	19.06	19.29	20.26	20.72	17.30	21.82	18.56	20.13	20.79	20.12	21.24	21.65	21.85	18.56	20.70
P62T16R	22.31	21.99	20.47	20.17	21.43	21.16	21.35	23.69	21.57	24.10	23.84	24.58	21.63	19.61	22.32	23.08	19.20	23.88	22.24	22.45	20.75	22.24	23.48	23.51	22.84	22.24	22.51
US63-22 IPRO	20.00	19.53	17.59	20.76	20.52	17.87	18.20	21.98	19.56	21.67	23.10	22.46	19.87	18.51	20.26	20.63	20.06	22.54	18.92	20.80	19.86	20.67	21.71	21.76	17.66	18.92	20.10
RA6422BR	21.10	20.68	20.33	21.17	20.84	20.55	19.77	22.59	20.88	20.44	22.95	24.04	20.46	18.53	21.35	20.92	18.92	23.61	19.55	21.08	20.74	20.27	21.59	23.54	19.79	19.55	20.91
P64T39 R	19.87	18.81	20.71	20.40	20.09	20.51	19.57	22.25	20.28	21.06	22.67	22.66	18.98	18.88	20.90	22.01	19.33	23.04	21.68	21.12	20.71	21.83	22.82	23.39	19.17	21.68	21.60
Y657	21.57	18.46	20.93	20.22	19.70	19.89	21.52	21.90	20.52	21.62	22.26	22.79	21.36	19.82	21.46	21.82	19.32	22.63	18.97	21.19	21.74	20.63	21.32	22.55	18.01	18.97	20.62
Y651IPRO	20.48	17.52	19.03	19.87	19.23	18.85	20.18	21.85	19.63	22.08	22.76	23.31	20.31	19.60	19.65	21.33	19.69	22.43	20.40	21.16	20.30	21.32	21.03	21.91	15.82	20.40	20.13
DM 68R09 RSF	20.71	19.47	18.73	19.88	19.91	19.21	20.69	21.44	20.01	22.45	23.05	23.01	19.97	19.70	20.48	21.65	18.76	23.24	19.27	21.19	21.30	21.82	22.56	23.09	18.30	19.27	21.06
DM 6163 RSF IPRO	19.42	18.46	18.30	17.50	18.11	18.78	19.76	40.72	21.38	22.04	22.57	22.39	19.44	19.48	21.25	19.76	17.75	21.78	19.93	20.64	19.03	19.48	21.04	22.06	17.73	19.93	19.88
PAN 1644R	19.69	19.17	20.11	20.04	20.01	19.23	21.27	21.42	20.12	22.51	21.45	22.62	20.53	19.48	20.85	20.67	20.34	22.13	19.58	21.01	20.43	21.05	22.56	23.18	17.49	19.58	20.72
US68-12 IPRO	18.98	17.89	17.97	19.19	19.43	17.88	18.28	19.55	18.65	19.44	21.39	21.86	18.08	16.77	19.88	19.87	16.93	22.81	18.01	19.50	20.16	19.29	21.56	22.36	19.49	18.01	20.15
P71174 R	19.21	18.29	19.50	19.42	18.84	19.87	18.50	21.10	19.34	21.18	21.50	21.69	18.49	17.56	19.85	20.37	19.55	21.71	19.36	20.13	18.85	19.79	21.35	22.47	20.58	19.36	20.40
Gem/Mean	20.73	19.29	20.10	20.04	20.56	19.72	20.17	22.80	20.43	21.48	22.34	22.95	22.11	19.72	21.45	21.58	20.39	22.79	20.28	21.51	21.17	21.77	22.12	22.05	20.30	20.28	21.28

Table 16 Ru-proteïenpersentasie op vognvrye basis van die verskillende sojaboekultivars by die verskillende proef lokaliteite, 2023/24
 Table 16 Percentage crude protein on moisture free basis of the different soybean cultivars at the different trial localities, 2023/24

Kultivar	Cool/Cool							Matig/Moderate							Warm												
	Belfast	Bethlehem PD1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Standerton	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Heilbron	Kroonstad	Kroonstad (Agricol)	Leerdoringstad	Polhefstrom (Limagrain)	umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton
RA4918RR	38.90	40.01	37.36	38.35	39.64	39.71	33.09	41.47	38.57	33.86	37.88	37.26	38.33	38.44	37.22	37.64	40.22	36.86	40.20	37.79	38.94	37.03	34.29	35.52	35.31	41.11	37.03
NS 5258 R	41.24	40.20	38.25	41.22	41.13	43.56	39.97	41.78	40.92	35.77	39.88	38.89	42.03	42.28	38.44	40.31	41.05	39.56	41.01	39.92	39.52	37.27	34.52	38.85	36.88	42.63	38.28
DM 5351 RSF	39.79	38.88	37.37	39.31	38.83	38.74	29.62	40.01	37.82	28.10	37.51	38.34	38.52	39.07	37.03	37.94	38.54	36.59	40.27	37.19	37.96	35.34	35.85	37.78	35.20	39.83	36.99
RA5022BR	38.92	40.03	40.81	38.86	39.90	39.64	38.10	40.57	39.60	30.21	37.36	37.91	40.61	40.44	37.52	39.74	40.11	38.37	40.15	38.24	39.03	37.70	36.40	37.80	35.39	40.19	37.75
PAN 1515R	40.54	42.19	38.88	40.43	41.02	42.66	38.28	41.60	40.70	36.00	39.65	37.53	41.98	42.04	40.10	39.65	40.87	38.89	40.86	39.76	39.36	41.50	36.75	36.02	37.49	42.78	39.98
DM 53154 RSF IPRO	40.28	38.83	38.06	40.14	40.00	41.58	35.69	42.29	39.61	31.98	37.41	39.48	40.44	39.73	37.94	38.56	39.84	37.83	39.36	38.26	39.98	39.56	38.10	38.23	36.99	41.92	39.13
P52T52R	37.19	41.50	36.90	41.37	38.48	40.89	31.05	40.65	38.50	33.54	37.12	38.20	38.18	42.29	38.72	39.34	40.25	39.05	41.48	38.82	38.80	35.35	35.01	37.58	35.74	39.39	36.98
LG60353R	38.19	40.73	38.59	39.24	39.33	41.18	36.64	39.71	39.20	31.39	36.59	36.86	40.80	41.19	37.29	38.82	38.55	38.50	40.85	38.08	39.32	36.75	35.76	36.30	36.04	40.54	37.45
Y540	36.87	39.36	38.32	40.92	38.46	40.52	34.59	39.54	38.57	34.39	36.19	35.13	38.78	39.42	37.48	38.13	38.83	38.40	40.11	37.69	38.79	37.49	32.04	33.53	36.86	40.17	36.48
RA 565 R	37.87	40.79	37.93	40.90	40.18	40.66	30.95	41.56	38.86	30.96	36.93	37.14	40.00	39.67	38.38	39.42	39.21	39.63	40.48	38.11	39.25	36.60	35.01	36.47	36.92	41.03	37.55
LAKE 253 RR	37.05	40.72	37.78	38.32	40.70	38.81	36.15	40.72	38.78	32.05	36.55	36.45	39.79	39.82	39.70	38.66	38.37	39.25	40.43	38.11	40.18	40.09	36.58	38.45	37.68	41.23	39.03
LG6851R	38.86	39.26	36.94	38.59	39.84	39.06	31.99	40.05	38.07	33.70	36.79	39.44	38.77	40.49	36.67	37.86	37.87	38.07	41.91	38.16	40.72	38.85	36.46	37.76	39.97	40.01	38.96
US56-26R	37.06	39.25	37.35	40.00	39.64	39.90	32.25	40.20	38.21	31.10	36.28	38.92	37.22	37.35	36.50	38.64	38.70	37.96	40.42	37.31	39.31	37.66	34.12	32.99	36.41	39.52	36.67
PAN 1521R	38.82	40.57	40.70	41.65	40.75	41.53	33.22	41.50	39.84	30.17	38.10	37.91	40.79	42.53	38.68	38.16	39.34	40.07	38.99	38.47	41.40	37.24	36.15	35.75	37.22	41.25	38.00
PAN 1555R	37.78	42.72	39.99	43.81	40.47	41.28	39.12	42.65	40.98	32.83	38.27	37.58	39.96	40.36	39.47	40.12	41.53	40.88	41.45	39.25	41.35	38.38	36.29	37.95	40.75	40.42	39.19
RA5821R	40.39	41.25	39.73	42.46	41.35	41.25	31.33	41.17	39.87	34.52	38.92	38.13	42.04	42.22	39.44	40.59	41.41	40.88	42.36	40.05	40.92	40.63	35.15	35.00	41.45	41.64	39.13
LAKE 250 RR	38.85	39.60	39.28	37.79	40.90	39.77	33.22	41.61	38.88	37.23	36.10	34.93	38.51	39.96	39.96	39.96	38.47	41.13	40.52	39.03	40.50	38.84	35.52	39.14	38.38	40.30	38.78
PAN 1588R	40.14	42.04	38.91	40.83	42.62	41.89	32.21	41.59	40.03	34.41	39.77	35.51	38.25	41.68	38.47	38.88	41.29	41.96	42.17	39.24	40.53	38.58	36.19	38.33	41.98	41.12	39.46
RA660 R	39.29	40.74	40.06	42.35	41.09	42.06	32.74	40.90	39.90	30.94	36.58	39.11	38.12	40.41	37.29	38.25	40.18	38.54	42.62	38.20	40.49	37.19	33.06	34.27	41.21	41.02	37.87
DM 59R03 RSF	39.67	40.03	39.18	40.24	41.38	41.73	29.89	41.44	39.20	34.61	38.02	33.22	40.47	40.42	38.50	38.93	40.76	40.90	42.28	38.81	40.86	39.51	35.49	32.15	39.86	41.13	38.17
DM 59I60 RSF IPRO	39.00	43.15	37.62	37.28	40.29	42.75	33.29	39.39	39.10	31.51	36.50	37.32	38.39	39.56	38.38	38.86	38.48	40.16	42.25	38.14	39.82	37.88	33.93	34.58	41.94	40.45	38.10
LG60260IPR	38.44	42.33	38.57	41.63	40.44	43.01	37.33	40.50	40.28	32.64	36.89	38.12	40.68	37.65	36.90	38.58	38.08	39.01	43.34	38.19	39.40	37.41	30.55	33.48	41.51	40.38	37.12
LG60259R	38.28	40.25	37.39	39.46	39.80	40.95	30.42	40.77	38.42	30.59	35.36	37.35	39.90	38.34	36.58	39.73	40.09	38.93	39.24	37.61	39.97	35.86	36.56	35.54	40.88	41.05	38.31
LG60261IPR	39.97	42.17	39.63	41.59	38.40	41.61	32.49	40.53	39.55	33.92	37.66	39.01	40.99	40.44	37.18	39.18	40.73	40.50	43.37	39.30	39.72	37.51	37.00	36.86	35.86	41.21	38.03
P62T16R	36.34	37.63	37.15	41.16	38.68	39.28	29.00	37.96	37.15	30.85	36.20	35.54	38.44	40.78	35.58	37.84	39.50	39.26	39.81	37.38	39.46	36.43	32.07	35.50	35.90	39.25	36.44
US63-22 IPRO	38.54	39.99	39.51	39.69	38.75	42.20	31.68	39.44	38.72	27.93	35.47	34.13	37.36	41.39	37.72	38.56	38.12	40.18	43.34	37.42	39.93	37.06	32.38	37.01	41.00	39.91	37.88
RA6422BR	37.73	39.29	37.32	38.26	39.26	39.60	34.93	38.56	38.12	33.59	36.44	31.79	37.87	38.54	35.89	37.47	39.50	39.50	41.35	37.19	38.94	37.71	34.76	35.36	39.42	38.55	37.46
P64T39 R	39.21	42.40	39.29	42.11	41.58	40.79	34.50	39.90	39.97	35.50	37.21	36.46	40.68	42.46	38.89	38.80	41.48	40.06	40.15	39.17	41.83	36.28	34.32	34.93	40.30	40.59	38.04
Y657	39.68	40.38	38.09	40.47	41.50	41.49	33.96	41.60	39.65	34.66	37.25	37.15	38.79	39.60	37.78	38.96	40.85	40.66	42.72	38.84	40.64	39.24	37.13	37.00	39.91	41.19	39.19
Y651IPRO	36.40	40.00	37.07	38.53	39.46	40.28	28.89	37.98	37.33	30.19	35.14	32.87	36.78	38.09	36.92	37.24	37.62	39.60	40.17	36.46	38.94	35.16	33.24	35.24	42.08	37.69	37.06
DM 68R09 RSF	38.35	40.91	38.48	40.91	41.42	41.59	29.54	41.20	39.05	31.32	37.21	35.24	39.74	40.91	38.24	38.05	40.96	39.91	43.13	38.47	40.87	36.99	35.84	36.60	41.30	40.44	38.67
DM 61I63 RSF IPRO	39.82	42.08	38.69	43.45	41.22	41.54	31.03	38.93	39.60	31.79	36.03	34.28	39.09	39.83	36.16	38.78	40.95	40.78	41.54	37.93	41.23	39.22	36.38	35.48	40.94	40.35	38.94
PAN 1644R	40.18	41.23	38.86	41.51	42.15	41.74	30.11	41.43	39.65	30.71	38.57	38.81	39.65	40.75	38.76	40.78	40.78	41.44	42.86	39.31	41.23	39.28	34.96	36.01	41.66	42.34	39.25
US68-12 IPRO	39.16	40.73	39.76	38.33	39.39	41.93	28.08	38.21	38.20	31.52	36.84	37.51	38.39	40.37	36.54	37.45	40.61	40.81	42.80	38.14	39.06	36.48	35.94	34.47	39.20	39.45	37.43
P71T74 R	39.76	40.78	38.11	41.90	40.70	40.93	32.73	39.11	39.25	31.31	36.48	36.67	40.67	41.65	38.05	38.53	39.50	40.68	42.36	38.59	40.82	37.93	34.54	33.48	36.27	41.35	37.40
Gem/Mean	38.82	40.63	38.51	40.37	40.25	41.03	33.09	40.47	39.15	32.45	37.18	36.86	39.46	40.29	37.84	38.77	39.87	39.48	41.44	38.36	39.98	37.77	35.07	36.04	38.74	40.61	38.03

Table 17 Gemiddelde van die olie-en proteïen persentasie saamgevoeg (Protolie), 2023/24
 Table 17 Average of the oil and protein percentage joined (Protol), 2023/24

Kultivar	Koel/Cool						Matig/Moderate										Warm										
	Belfast	Bethlehem PD 1	Bethlehem PD2	Clarens	Delmas	Kinross	Kokstad	Standerton	Gem/Mean	Barberspan	Cedara	Greytown	Kranskop	Heilbron	Kroonstad	Kroonstad (Agricol)	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton
RA4918RR	60.59	59.98	59.27	60.48	60.88	60.94	55.79	64.21	60.27	55.26	59.82	60.65	60.20	60.51	58.67	60.60	60.39	60.20	61.33	59.76	60.54	61.09	56.76	56.68	59.00	62.12	59.37
NS 5258 R	61.80	60.21	59.95	59.70	62.31	63.37	62.88	64.27	61.81	55.75	61.41	62.08	61.61	61.58	59.71	60.63	62.75	61.95	62.24	60.97	61.20	60.87	56.95	56.57	60.90	63.86	60.39
DM 5351 RSF	60.74	58.80	59.62	56.61	60.28	60.03	53.39	60.98	58.81	45.24	59.12	61.13	59.14	59.94	58.76	59.00	60.70	59.73	60.67	58.34	59.24	59.01	57.87	57.86	58.65	60.23	58.81
RA5022BR	60.25	59.77	61.48	60.53	61.33	61.39	56.53	62.49	60.47	50.90	58.88	61.12	61.71	59.34	59.95	59.75	60.66	60.57	60.54	59.34	61.00	60.89	58.80	58.59	58.86	60.58	59.79
PAN 1515R	61.00	61.30	59.92	61.64	61.71	61.78	57.36	63.25	61.00	55.17	60.17	59.84	62.02	62.15	61.89	61.70	62.91	61.05	62.21	60.91	62.51	62.07	57.74	57.12	59.90	64.13	60.58
DM 5354 RSF IPRO	60.44	58.05	59.73	57.88	60.65	61.25	55.10	61.89	59.37	52.64	58.67	61.51	60.68	60.44	59.42	59.28	60.14	60.60	60.03	59.34	61.07	61.21	59.41	58.37	59.39	62.59	60.34
P52T52R	58.12	60.37	57.54	61.39	60.29	60.19	51.16	62.98	59.01	55.29	59.84	61.16	60.08	61.00	75.75	61.61	61.75	61.86	60.91	61.93	61.25	58.76	56.80	58.75	58.28	58.82	58.78
LG60353R	60.07	60.56	60.54	60.56	60.47	60.79	57.35	62.47	60.35	54.47	59.44	60.71	62.51	62.98	59.74	61.63	62.05	61.71	62.48	60.77	62.50	60.92	58.61	58.56	58.21	62.17	60.35
Y540	58.82	59.09	59.38	61.20	60.85	60.32	53.68	62.19	59.44	56.77	59.00	58.77	61.00	60.82	59.55	61.74	60.60	62.42	60.89	60.16	62.30	61.00	55.25	56.36	58.21	60.95	59.01
RA 565 R	59.31	60.11	59.29	61.34	61.35	60.72	52.36	62.91	59.67	53.67	59.76	61.00	61.31	61.03	59.34	62.00	61.34	62.06	61.37	60.29	61.36	59.71	57.61	58.04	58.69	61.92	59.56
LAKE 253 RR	57.94	60.18	56.37	58.54	61.01	59.58	55.10	61.90	58.83	53.48	58.79	59.71	59.27	60.35	59.45	60.00	60.43	62.14	61.81	59.54	61.24	59.52	58.26	58.83	59.46	62.61	59.99
LS6851R	60.08	56.88	58.15	59.72	61.22	60.23	54.02	61.55	58.98	56.19	60.49	63.12	59.83	58.85	56.35	61.38	61.06	62.39	61.09	60.07	62.17	62.16	58.51	59.83	60.49	59.19	60.39
US56-26R	59.65	59.32	57.93	60.95	61.62	60.40	54.13	63.15	59.64	54.37	59.71	61.33	60.02	59.47	57.83	61.43	61.30	61.81	62.27	59.95	61.50	59.45	58.49	55.43	59.35	61.37	59.27
PAN 1521R	59.42	60.62	59.74	61.54	61.03	60.38	53.87	63.19	59.97	52.55	60.17	60.50	60.25	60.01	59.43	60.40	60.57	62.11	60.81	59.68	61.27	59.60	57.24	57.05	58.53	63.07	59.46
PAN 1555R	58.81	61.13	59.35	61.74	60.24	61.32	57.01	63.96	60.45	54.57	60.56	60.60	60.40	59.99	59.47	61.29	59.53	64.06	61.48	60.20	61.20	59.81	58.12	58.71	59.32	60.45	59.60
RA5821R	61.01	60.52	59.50	61.96	62.08	60.78	50.99	62.69	59.94	55.15	60.49	60.91	61.98	59.74	60.07	61.95	61.29	62.77	62.21	60.66	62.75	62.22	57.05	57.63	60.76	61.49	60.32
LAKE 250 RR	58.33	61.05	56.79	58.27	60.66	60.08	51.98	62.56	58.72	57.79	57.20	56.79	57.35	59.22	59.88	58.49	60.61	62.18	62.51	59.20	60.92	58.37	56.40	59.09	58.71	59.31	58.80
PAN 1588R	60.69	61.64	58.92	61.73	62.37	61.39	52.69	62.93	60.29	55.70	61.84	58.40	59.38	61.16	59.21	60.84	61.05	64.37	62.42	60.44	61.48	60.72	57.83	60.13	60.47	61.37	60.33
RA660 R	60.68	61.27	60.21	61.84	62.93	59.78	53.97	63.55	60.53	53.14	59.39	62.18	60.64	62.28	59.89	61.21	61.66	61.86	62.46	60.47	62.67	60.87	56.09	57.96	59.94	60.86	59.73
DM 59R03 RSF	60.32	59.01	59.10	60.76	61.74	61.06	50.71	62.61	59.41	55.60	59.75	56.22	61.11	58.91	59.68	61.00	60.93	63.48	62.66	59.93	61.65	61.99	57.69	56.61	58.03	61.51	59.58
DM 59I60 RSF IPRO	59.81	61.72	58.41	59.32	60.74	62.29	52.29	61.96	59.57	54.07	59.51	61.04	59.06	60.17	59.60	60.12	60.51	63.39	63.00	60.05	61.71	58.79	57.01	57.88	60.05	61.20	59.44
LG60260IPR	59.06	60.36	57.96	61.38	60.34	61.74	54.48	61.95	59.66	54.62	60.17	60.99	59.98	59.06	57.47	61.10	59.53	61.95	62.75	59.76	61.10	58.88	53.10	56.37	58.96	59.79	58.03
LG60259R	59.26	59.85	57.64	60.17	59.97	60.90	50.92	60.48	61.15	52.67	59.31	60.56	59.11	59.22	57.94	60.83	59.48	62.22	61.03	59.24	60.10	58.36	58.53	58.61	59.39	62.84	59.64
LG60261IPR	59.50	59.76	58.75	60.23	59.96	60.56	52.63	61.49	59.11	54.61	59.34	60.89	60.05	59.73	57.44	59.90	58.03	62.32	61.93	59.42	60.51	57.63	58.24	58.51	57.71	59.77	58.73
P62T16R	58.65	59.62	57.62	61.33	60.11	60.44	50.35	61.65	58.72	54.95	60.04	60.12	60.07	60.39	57.90	60.92	58.70	63.14	62.05	59.83	60.21	58.67	55.55	59.01	58.74	61.49	58.95
US63-22 IPRO	58.54	59.52	57.10	60.45	59.27	60.07	49.88	61.42	58.28	49.60	58.57	56.59	57.23	59.90	57.98	59.19	58.18	62.72	62.26	58.22	59.79	57.73	54.09	58.77	58.66	58.83	57.98
RA6422BR	58.83	59.97	57.65	59.43	60.10	60.15	54.70	61.15	59.00	54.03	59.39	55.82	58.33	57.07	57.24	58.39	58.42	63.11	60.90	58.27	59.68	57.98	56.35	58.90	59.21	58.10	58.37
P64T39 R	59.08	61.21	60.00	62.51	61.67	61.30	54.07	62.15	60.25	56.56	59.88	59.12	59.66	61.34	59.79	60.81	60.81	63.10	61.83	60.29	62.54	58.11	57.14	58.32	59.47	62.27	59.64
Y657	61.25	58.84	59.02	60.69	61.20	61.38	55.48	63.50	60.17	56.28	59.51	59.94	60.15	59.42	59.24	60.58	60.17	63.29	61.69	60.93	62.38	59.87	58.96	59.55	57.92	60.16	59.81
Y651IPRO	56.88	57.52	56.10	58.40	58.69	59.13	49.07	59.83	56.95	52.27	57.90	56.18	57.09	57.69	56.57	58.57	57.31	62.03	60.57	57.62	59.24	56.48	54.27	57.15	57.90	58.09	57.19
DM 68R09 RSF	59.06	60.38	57.21	60.79	61.33	60.80	50.23	62.64	59.06	53.77	60.26	58.54	59.71	60.61	58.72	59.70	59.72	63.15	62.40	59.66	62.17	58.81	58.40	59.69	59.60	59.71	59.73
DM 61I63 RSF IPRO	59.24	60.54	56.99	60.95	59.33	60.32	50.79	79.65	60.98	53.83	58.60	56.67	58.53	59.31	57.41	58.59	58.70	62.56	61.47	58.57	60.32	58.70	57.42	57.54	58.67	60.28	58.82
PAN 1644R	59.87	60.40	58.97	61.55	62.16	60.97	51.38	62.85	59.77	53.22	60.02	61.43	60.18	60.25	59.52	61.43	61.12	63.57	62.44	60.32	61.66	60.33	57.52	59.19	59.15	61.92	59.96
US68-12 IPRO	58.14	58.62	57.73	57.52	58.82	59.81	46.36	57.76	56.85	50.96	58.23	59.37	56.47	57.14	56.42	57.32	57.54	61.26	61.71	57.64	59.22	55.77	57.50	56.83	58.69	57.46	57.58
P71174 R	58.97	59.07	57.61	61.32	59.54	60.80	51.23	60.21	58.59	52.49	57.98	58.36	59.16	59.21	57.90	58.90	59.05	62.39	61.72	58.72	59.67	57.72	55.89	55.95	56.85	60.71	57.80
Gem/Mean	59.55	59.92	58.62	60.41	60.81	60.76	53.26	63.27	59.57	53.93	59.52	59.81	59.86	60.01	59.29	60.35	60.26	62.27	61.72	59.70	61.15	59.54	57.18	58.09	59.04	60.89	59.32

Tabel 18 Die saadopbrengs van elke kultivar by die verskillende lokaliteite, 2023/24
Table 18 The seed yield of the cultivars at the different localities, 2023/24

Kultivar	Koel/Cool										Matig/Moderate										Warm												
	Alice	Bapsfontein PD1	Bapsfontein PD2	Clarens	Delmas	Kinross	Kokstad	Marquard	Standerton	Zanyokwe	Gem/Mean	Barberspan	Cedara	Greytown Kranskop	Greytown Pannar	Heilbron	Kroonstad	Kroonstad (Agrico)	Leeudoringstad	Potchefstroom (Limagrain)	Umtata	Winterton	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Warrenton	Gem/Mean			
RA4918RR	796	2864	2608	2989	3487	1710	1477	2867	984	808	1951	948	3532	3765	2502	789	1420	1485	1887	3257	1796	3903	2299	4372	4183	1489	3854	2650	4475	3504			
NS 5258 R	923	2540	2277	3412	2207	3657	1407	1617	2370	779	1108	865	3393	3623	2869	837	1374	1836	1154	3573	1418	3729	2243	4268	3476	947	3144	1859	3663	2893			
DM 5351 RSF	743	2380	2573	2763	2019	837	2414	4034	1539	1908	2498	1122	971	1985	685	3404	3712	2498	773	1150	1183	1705	3110	1026	3554	2073	4137	2825	2609	3859	3308		
RA5022BR	827	2760	2538	3500	2245	1048	2863	4106	1764	1859	2848	678	1153	2168	885	2889	3361	2515	1489	2209	1638	1698	3554	1714	3358	2301	4434	5088	1408	2825	3859	3308	
PAN 1515R	678	2887	1808	2375	1975	1001	2092	2805	1475	1303	2281	732	835	1711	555	2931	3719	2105	981	1595	1234	1401	3453	1485	3968	2130	3856	1630	1248	2069	1578	3216	2266
DM 53154 RSF IPRO	730	2044	2622	2155	1928	1120	2659	3572	1228	1589	2301	1059	725	1826	1124	3035	2943	2326	1283	1133	1446	1923	4398	1896	3990	2317	3655	2981	1593	2720	2942	4317	3035
P52752R	1031	2705	2885	2937	1300	906	1368	3138	1195	1924	2911	894	876	1851	881	3827	2919	1859	1009	1319	1811	1592	3747	1567	2867	2161	3773	3501	1131	2307	1995	4868	2929
LG60353R	666	2420	2722	3126	1074	1106	1456	3969	1371	1520	2507	924	830	725	3223	3437	2337	1014	1704	3104	1444	3456	2099	3779	3147	1212	1936	1777	4563	2736			
Y540	833	2820	2713	3015	1256	846	1352	3440	1438	1943	2548	722	770	1823	799	3496	3815	2606	851	1110	1316	1654	4976	1476	3292	2308	3973	3631	1089	2849	1648	4917	3018
RA 565 R	718	3684	3009	3565	1193	684	1852	3562	1011	2380	3320	649	1054	2052	853	3633	3441	2649	763	1459	1436	2133	3358	1768	3282	2252	4216	5042	1530	2604	1190	4813	3233
LAKE 253 RR	918	1548	1665	1387	1498	1132	1124	2481	669	1217	1762	653	704	1289	1205	3482	2815	2023	1147	732	1084	2469	2540	1686	2562	1977	2339	2895	775	1733	1294	4693	2288
LS6851R	740	2384	3071	2353	1230	1047	1343	1470	1483	2467	2730	668	896	1814	702	3285	2691	2256	932	1161	822	1581	3066	1591	2922	1910	2938	3735	1127	2176	1322	5440	2790
US556-26R	630	2800	3584	3067	1388	1190	1423	3470	1048	1420	2573	1041	1109	1903	933	3048	3247	2440	1130	1235	1168	2520	3067	1857	3489	2194	4642	3992	1209	3007	1720	5119	3281
PAN 1521R	560	2558	2985	2855	1714	1596	1292	3505	1207	1682	2777	913	1052	1900	855	2878	3112	2612	926	942	2309	1982	3859	1692	4197	2306	4258	3108	1447	2819	2143	5113	3148
PAN 1555R	1045	2281	2432	2426	717	914	1109	2829	580	1297	2366	685	978	1512	975	3347	3021	1844	857	1260	1918	2069	3440	1503	2747	2089	2962	5216	1197	2347	1619	4606	2991
LA5821R	881	3018	3161	3550	1139	915	1145	3345	1079	1339	2253	850	1111	1830	607	3288	3073	2558	790	937	1592	1479	3290	1769	3042	2039	3763	3233	1087	2806	1652	4530	2845
LAKE 250 RR	600	1142	2820	1271	1983	839	1650	2418	949	2188	2083	711	1047	1515	1199	3011	2813	1803	806	941	1122	1472	1527	1528	2835	1732	1571	2715	1063	1644	1109	3990	2016
PAN 1588R	769	2652	2590	2943	930	916	1561	3059	614	2006	2289	837	947	1701	793	2966	2365	2070	936	1299	1634	2088	3623	1674	2889	2031	4118	3297	1469	2926	1361	4541	2952
RA680 R	769	2667	2929	2745	895	996	1284	3365	651	2473	2325	923	1019	1773	712	3237	3086	2586	953	1211	1156	2260	3590	1848	2289	2084	4666	3411	1320	3692	1693	4541	3220
DM 59R03 RSF	1029	2425	3226	2124	1005	726	828	3291	705	1968	2456	1026	968	1675	707	3507	3037	2224	805	1254	1765	1981	2296	1796	2693	2006	3892	3638	1238	3723	1128	5549	3195
DM 5960 RSF IPRO	700	2423	3171	3129	830	1428	1063	3555	704	991	2646	1128	1099	1759	1146	3295	2347	2733	1008	1380	1752	2786	2499	1463	3391	2164	4089	4390	1586	4339	1176	5239	3470
LG60260IPR	526	2658	3031	2836	846	1013	1065	3447	838	1628	2805	699	873	1713	1010	3225	3137	1995	1011	1507	1545	1576	4542	1824	2693	2188	3486	3964	1412	2312	1631	4781	2931
LG60259R	720	2747	2674	2347	1266	1015	1140	3057	796	1534	2430	979	943	1665	920	3312	2682	2072	763	1117	1482	1837	3187	1677	3064	2010	3513	2659	1335	2080	1386	4764	2623
LG60261IPR	657	2467	3039	2568	1751	614	870	2725	510	1721	2209	942	1016	1622	1024	3186	2387	2122	997	991	1460	1974	2259	1947	2911	1933	4263	5139	1495	3121	2150	4699	3478
P62T16R	845	2710	2292	2466	926	1036	940	2503	410	2508	2544	874	1060	1624	1158	3314	3038	2330	1081	1442	1597	2583	1915	1733	3064	2114	2716	4344	1080	2521	1468	4835	2827
US63-22 IPRO	662	2564	3066	3313	887	1385	584	3011	633	1561	2260	1024	1203	1704	1104	3088	1877	2252	1049	715	1396	1990	6619	1841	2050	2180	3780	4882	1307	2771	1250	5179	3195
RA6422BR	807	2392	3109	2355	1017	1025	1292	3010	737	2150	2054	1090	981	1694	1024	3507	2994	2555	1210	1111	1828	2584	1560	1803	3412	2144	3504	3053	1485	3038	1804	5304	3031
P64T39 R	576	2784	3189	2883	1010	911	1211	3185	708	2044	2418	1134	657	1747	746	3026	3416	2688	919	1186	1587	1823	2172	1716	2758	2003	3653	3992	1296	3368	1280	4988	3096
Y657	923	2920	3076	2867	1049	1173	1195	3369	1081	2244	2533	958	935	1871	1069	3377	2918	2348	1112	1466	1437	1784	2009	1682	2845	2004	3667	5000	1470	3509	1443	5195	3381
Y651IPRO	645	2412	2729	2361	883	1146	728	2768	671	1617	2741	819	895	1570	1105	3311	3237	2030	1138	1258	1205	2079	2894	1332	2562	2014	2246	3614	1097	3652	1547	4514	2778
DM 68R09 RSF	878	2608	2855	2220	1031	1281	1287	3393	510	2074	2648	952	1113	1763	1131	3336	2593	2240	1125	1429	1588	2552	2357	1575	2540	2048	3655	4257	1497	4078	894	4862	3207
DM 6163 RSF IPRO	1107	2757	2915	2250	809	859	1175	2892	626	2590	2862	1253	1109	1780	1129	3300	3264	2594	1406	1768	1995	2350	4849	1970	2736	2487	3947	4357	1959	4115	997	4862	3373
PAN 1644R	950	3305	3216	3125	663	1213	1102	2994	506	2322	2532	987	921	1833	828	3885	3086	2427	963	1113	1546	2012	2027	1676	3107	2043	3445	4252	1251	3457	656	5446	3085
US68-12 IPRO	900	2171	3197	2786	629	1580	351	2838	251	1892	2305	952	1274	1625	1184	3466	3788	1962	1552	1537	1879	1594	4761	1712	1319	2250	3035	3822	1622	3657	678	4350	2861
P71174 R	929	2653	2940	2555	841	965	867	3226	589	2189	2549	991																					

Tabel 19 Opbrengstwaarskynlikheid (%) van kultivars geëvalueer in 2021/22, 2022/23 en 2023/24 vir die koeler produksiegebiede by verskillende opbrengspotensiale
Table 19 Yield probability (%) of cultivars evaluated in the 2021/22, 2022/23 and 2023/24 for the cooler production areas at different yield potentials

Kultivar	Opbrengstwaarskynlikheid/Yield potential (t/ha)							Regressie lyn/regression line	
Cultivar	1.5	2.0	2.5	3.0	3.5	4.0	4.5	Fprob	R2
RA4918RR	61	59	56	55	52	51	48	<0.001	0.85
NS 5258 R	62	57	51	46	41	36	31	<0.001	0.78
DM 5351 RSF	62	60	57	54	52	49	47	<0.001	0.78
Y540	53	51	49	48	46	45	43	<0.001	0.73
RA 565 R	51	53	53	55	55	56	58	0.0008	0.66
LS6851R	51	49	45	41	38	35	32	0.0006	0.67
PAN 1521R	56	56	55	55	55	54	53	<0.001	0.97
PAN 1555R	35	36	37	39	41	42	43	<0.001	0.91
RA660 R	43	45	46	49	50	51	53	<0.001	0.95
DM 59R03 RSF	49	51	54	56	58	60	62	<0.001	0.93
P62T16R	39	37	35	32	31	29	28	<0.001	0.74
P64T39 R	46	48	50	53	55	57	59	<0.001	0.91
Y657	46	51	55	60	64	68	72	<0.001	0.93
PAN 1644R	45	48	51	53	56	59	61	<0.001	0.93
P71T74 R	43	47	51	55	59	63	67	<0.001	0.93

Tabel 21 Opbrengstwaarskynlikheid (%) van die kultivars geëvalueer in 2021/22, 2022/23 en 2023/24 vir die matige produksiegebiede by verskillende opbrengspotensiale
 Table 21 Yield probability (%) in the 2021/22, 2022/23 and 2023/24 for the moderate production areas at different yield potentials

Kultivar		Opbrengstwaarskynlikheid/Yield potensial (t/ha)							Regressie lyn/Regression line	
Cultivar	1.5	2.0	2.5	3.0	3.5	4.0	4.5	Fprob	R2	
RA4918RR	54	54	55	55	55	55	56	<0.001	0.93	
NS5258R	45	46	48	49	50	51	52	<0.001	0.90	
DM5351RSF	36	39	42	45	49	52	56	<0.001	0.86	
Y540	52	54	56	58	60	61	63	<0.001	0.91	
RA565R	61	59	59	57	56	55	54	<0.001	0.95	
LS6851R	43	43	43	42	42	41	41	<0.001	0.93	
PAN1521R	62	60	58	55	53	51	48	<0.001	0.88	
PAN1555R	50	47	45	42	39	36	34	<0.001	0.95	
RA660R	46	48	50	52	54	56	58	<0.001	0.94	
DM59R03RSF	52	49	46	44	41	38	35	<0.001	0.94	
P62T16R	53	53	53	52	52	52	52	<0.001	0.87	
P64T39R	49	48	48	48	48	47	47	<0.001	0.88	
Y657	56	56	56	55	55	54	54	<0.001	0.87	
PAN1644R	51	50	50	49	49	49	49	<0.001	0.92	
P71T74R	50	51	52	53	54	56	57	<0.001	0.87	

Tabel 22 Graanopbrengs (kg/ha⁻¹) van kultivars gedurende die 2022/23 en 2023/24 groeiseisoen ten opsigte van die verskillende lokaliteite wat in die matige produksiegebiede geleë is
 Table 22 Grain yield (kg/ha⁻¹) of cultivars during the 2022/23 and 2023/24 growing season for the various localities situated in the moderate production areas

Kultivar	2022/23										2023/24												
	Barberspan	Greytown	Kroonstad	Kroonstad (Agricol)	Leudoringsstad	Potcheitroom (Limagrain)	Potcheitroom (Pannar)	Rietvlei	Umtata	Winterton	Gem/Mean	Barberspan	Cedara	Greytown Kranskop	Greytown Pannar	Heilbron	Kroonstad	Kroonstad (Agricol)	Leudoringsstad	Potcheitroom (Limagrain)	Umtata	Winterton	Gem/Mean
RA4918RR	2776	4941	3512	3066	4088	4357	4134	4370	4072	5504	4082	948	3532	3765	2502	789	1420	1485	1887	3257	1796	3903	2299
NS 5258 R	3028	4986	3578	2703	3643	4251	4169	3336	4112	6168	3997	865	3393	3623	2869	837	1374	1836	1154	3573	1418	3729	2243
DM 5351 RSF	2642	5015	3648	2028	2982	4081	4317	3113	4868	6161	3885	685	3404	3712	2498	773	1150	1183	1705	3110	1026	3554	2073
RA5022BR	2356	4552	4456	3251	3643	4515	3642	4509	3662	4785	3937	885	2889	3361	2515	1489	2209	1638	1698	3554	1714	3358	2301
PAN 1515R	-	-	-	-	-	-	-	-	-	-	-	555	2931	3719	2105	981	1595	1234	1401	3453	1485	3968	2130
DM 53154 RSF IPRO	3205	5025	3865	2162	2960	4479	3967	2453	4318	5715	3815	1124	3035	2943	2326	1283	1133	1446	1923	4388	1896	3990	2317
P52152R	-	-	-	-	-	-	-	-	-	-	-	881	3827	2919	1859	1009	1319	2181	1592	3747	1567	2867	2161
LG60353R	-	-	-	-	-	-	-	-	-	-	-	725	3223	3437	2337	1014	1503	1141	1704	3104	1444	3456	2099
Y540	3163	5804	3915	3160	3422	3917	4558	3596	3935	5825	4130	799	3496	3815	2606	851	1110	1316	1654	4976	1476	3292	2308
RA 565 R	2551	5321	3770	3262	3334	3781	3958	3922	3937	5278	3911	853	3633	3441	2649	763	1459	1436	2133	3358	1768	3282	2252
LAKE 253 RR	-	-	-	-	-	-	-	-	-	-	-	1205	3482	2815	2023	1147	732	1084	2469	2540	1686	2562	1977
LS6851R	2385	4140	3525	3495	3351	3796	3820	4291	3613	5198	3761	702	3285	2691	2256	932	1161	822	1581	3066	1591	2922	1910
US56-26R	-	-	-	-	-	-	-	-	-	-	-	933	3048	3247	2440	1130	1235	1168	2520	3067	1857	3489	2194
PAN 1521R	2469	4869	4344	4072	4331	3941	3965	3952	4081	4643	4067	855	2878	3112	2612	926	942	2309	1982	3859	1692	4197	2306
PAN 1555R	2425	4931	3374	3701	3337	3656	3514	3755	3757	5501	3795	975	3347	3021	1844	857	1260	1918	2069	3440	1503	2747	2089
RA5821R	2228	5276	4657	2996	4309	4002	4399	3708	4104	5056	4074	607	3288	3073	2558	790	937	1592	1479	3290	1769	3042	2039
LAKE 250 RR	-	-	-	-	-	-	-	-	-	-	-	1199	3011	2813	1803	806	941	1122	1472	1527	1528	2835	1732
PAN 1588R	-	-	-	-	-	-	-	-	-	-	-	793	2966	2365	2070	936	1299	1634	2088	3623	1674	2889	2031
RA660 R	2766	5626	3797	3959	3824	3704	4462	3483	3445	5806	4087	712	3237	3086	2586	953	1211	1156	2260	3590	1848	2289	2084
DM 59R03 RSF	2290	4888	3859	3093	3393	4122	4005	3502	3996	4682	3783	707	3507	3037	2224	805	1254	1765	1981	2296	1796	2693	2006
DM 59160 RSF IPRO	3053	4611	3939	3914	4185	3501	4444	4802	3597	6144	4219	1146	3295	2347	2733	1008	1380	1752	2786	2499	1463	3391	2164
LG60260IPR	2236	4573	3841	3390	3744	3893	3619	4149	3921	4496	3786	1010	3225	3137	1995	1011	1507	1545	1576	4542	1824	2693	2188
LG60259R	-	-	-	-	-	-	-	-	-	-	-	920	3312	2682	2072	763	1117	1482	1837	3187	1677	3064	2010
LG60261IPR	2358	5041	3666	4108	2987	3213	4119	3945	4448	5428	3931	1024	3186	2387	2122	997	991	1460	1974	2259	1947	2911	1933
P62116R	3428	5421	3601	2492	4569	3544	4004	4797	4279	5643	4178	1158	3314	3038	2330	1081	1442	1597	2583	1915	1733	3064	2114
US63-22 IPRO	-	-	-	-	-	-	-	-	-	-	-	1104	3088	1877	2252	1049	715	1396	1990	6619	1841	2050	2180
RA6422BR	3148	4807	3890	3942	4302	4160	4043	3572	3466	5154	4048	1024	3507	2994	2555	1210	1111	1828	2584	1560	1803	3412	2144
P64139 R	2044	4908	4209	4128	3969	3470	4413	3682	4182	5431	4044	746	3026	3416	2688	919	1186	1587	1823	2172	1716	2758	2003
Y657	3236	5404	4037	3064	3262	3556	4513	3853	3732	5086	3974	1069	3377	2918	2348	1112	1466	1437	1784	2009	1682	2845	2004
Y651IPRO	2941	4874	3519	4236	3496	3805	3744	4871	3446	5561	4049	1105	3311	3237	2030	1138	1258	1205	2079	2894	1332	2562	2014
DM 68R09 RSF	-	-	-	-	-	-	-	-	-	-	-	1197	3336	2593	2240	1125	1429	1588	2552	2357	1575	2540	2048
DM 61163 RSF IPRO	4004	4226	4098	3119	4390	3796	3502	4663	3039	4979	3982	1129	3300	3264	2594	1406	1768	1995	2350	4849	1970	2736	2487
PAN 1644R	2034	5399	3989	3036	3535	3493	4236	3803	3477	5305	3831	828	3685	3086	2427	963	1113	1546	2012	2027	1676	3107	2043
US68-12 IPRO	-	-	-	-	-	-	-	-	-	-	-	1184	3466	3788	1962	1552	1537	1879	1594	4761	1712	1319	2250
P71174 R	2318	5563	3459	3791	3827	3434	4128	3145	4053	5499	3922	912	3172	3474	2156	891	1132	1559	1771	5395	1350	3096	2264
PAN 1502 R	2274	4595	3392	3261	3112	3429	3749	3988	4599	4988	3739	-	-	-	-	-	-	-	-	-	-	-	-
PAN 1507 R	2539	4806	3358	3596	3247	3578	4153	4790	3026	5379	3847	-	-	-	-	-	-	-	-	-	-	-	-
RA5722BR	2509	4335	3830	3051	3772	3758	4197	2791	5283	3833	-	-	-	-	-	-	-	-	-	-	-	-	-
P57119 R	3019	4756	3918	3239	4154	2805	3248	4304	4177	4814	3943	-	-	-	-	-	-	-	-	-	-	-	-
NS 5909 R	2285	4119	3928	3982	3741	3827	3301	4040	3511	5557	3829	-	-	-	-	-	-	-	-	-	-	-	-
LS 6860 R	2198	4085	3766	3450	3679	2771	3481	4424	3827	4425	3611	-	-	-	-	-	-	-	-	-	-	-	-
RA6521BR	3212	3979	3180	2985	4156	4381	3631	3499	3664	5274	3796	-	-	-	-	-	-	-	-	-	-	-	-
DM 6.81 RR	2951	5281	3828	4190	3892	3040	3908	4011	3338	4879	3932	-	-	-	-	-	-	-	-	-	-	-	-
Gem/Mean	2690	4880	3805	3373	3740	3752	3966	3954	3827	5301	3929	931	3286	3092	2320	1008	1268	1524	1944	3310	1652	3046	2126

Tabel 23 Opbrengswaarskynlikheid (%) van kultivars geëvalueer in 2021/22, 2022/23 en 2023/24 vir die warm produksiegebiede by verskillende opbrengspotensiale
 Table 23 Yield probability (%) of cultivars evaluated in the 2021/22, 2022/23 and 2023/24 for the warm production areas at different yield potentials

Kultivar	Opbrengswaarskynlikheid/Yield potential (t/ha)								Regressielyn/Regression line	
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	Fprob	R2
Cultivar										
RA4918RR	65	63	61	59	56	54	51	49	<0.001	0.83
NS5258R	47	46	44	43	42	41	40	39	<0.001	0.74
DM5351RSF	62	58	54	49	45	41	37	33	<0.001	0.79
Y540	42	43	45	47	48	50	51	53	<0.001	0.94
RA565R	41	43	46	48	51	53	55	58	<0.001	0.92
LS6851R	40	41	42	44	45	46	47	49	<0.001	0.81
PAN1521R	56	56	55	54	53	52	51	51	<0.001	0.88
PAN1555R	51	47	43	38	34	31	27	24	<0.001	0.79
RA660R	68	66	64	61	59	57	55	52	<0.001	0.86
DM59R03RSF	49	49	50	51	51	52	52	53	<0.001	0.89
P62T16R	40	40	40	41	41	41	41	42	<0.001	0.85
P64T39R	54	55	57	58	60	61	62	63	<0.001	0.96
Y657	52	56	59	63	66	69	72	74	<0.001	0.90
PAN1644R	39	44	49	54	59	63	68	72	<0.001	0.93
P71T74R	46	48	50	52	54	55	57	59	<0.001	0.91

Tabel 24 Graanopbrengs (kg/ha⁻¹) van kultivars gedurende die 2022/23 en 2023/24 groeiseisoen ten opsigte van die verskillende lokaliteite wat in die warm produksiegebiede geleë is
 Table 24 Grain yield (kg/ha⁻¹) of cultivars during the 2022/23 and 2023/24 growing season for the various localities situated in the warm production areas

Kultivar	2022/23						2023/24								
	Groblersdal (Agri-Seeds)	Groblersdal ARC	Hoopstad	Schweizer- Reneke PD1	Schweizer- Reneke PD2	Thabazimbi	Gem/Mean	Brits	Hoopstad	Lichtenburg	Schweizer- PD1	Schweizer- PD2	Warrenton	Gem/Mean	
Kultivar	RA4918RR	3221	4001	6110	4161	3939	4496	4321	4372	4183	1489	3854	2650	4475	3504
	NS 5258 R	2684	5255	6048	3738	3805	4774	4384	4268	3476	947	3144	1859	3663	2893
	DM 5351 RSF	3718	4750	4653	3971	4687	3224	4167	4137	5008	1408	2825	2609	3859	3308
	RA5022BR	3314	4445	5669	3805	4165	2970	4061	4434	5088	1330	2455	2532	4094	3322
	PAN 1515R	-	-	-	-	-	-	-	3856	1630	1248	2069	1578	3216	2266
	DM 53154 RSF IPRO	3727	3970	6581	4917	3890	3730	4469	3655	2981	1593	2720	2942	4317	3035
	P52T52R	-	-	-	-	-	-	-	3773	3501	1131	2307	1995	4868	2929
	LG60353R	-	-	-	-	-	-	-	3779	3147	1212	1936	1777	4563	2736
	Y540	3385	4000	5736	4776	4705	4203	4467	3973	3631	1089	2849	1648	4917	3018
	RA 565 R	3567	4785	5548	4044	4805	3202	4325	4216	5042	1530	2604	1190	4813	3233
	LAKE 253 RR	-	-	-	-	-	-	-	2339	2895	775	1733	1294	4693	2288
	LS6851R	3955	2986	6464	4353	4218	4003	4330	2938	3735	1127	2176	1322	5440	2790
	US56-26R	-	-	-	-	-	-	-	4642	3992	1209	3007	1720	5119	3281
	PAN 1521R	3720	3905	6369	4591	4492	3894	4495	4258	3108	1447	2819	2143	5113	3148
	PAN 1555R	3435	3503	4183	3946	4690	2924	3780	2962	5216	1197	2347	1619	4606	2991
	RA5821R	3375	3305	5853	4923	3876	3470	4134	3763	3233	1087	2806	1652	4530	2845
	LAKE 250 RR	-	-	-	-	-	-	-	1571	2715	1063	1644	1109	3990	2016
	PAN 1588R	-	-	-	-	-	-	-	4118	3297	1469	2926	1361	4541	2952
	RA660 R	4306	4631	6085	4905	4045	4134	4684	4666	3411	1320	3692	1693	4541	3220
	DM 59R03 RSF	3244	4340	5855	4548	5116	2942	4341	3892	3638	1238	3723	1128	5549	3195
DM 59160 RSF IPRO	4253	4290	5802	5078	4166	3826	4569	4089	4390	1586	4339	1176	5239	3470	
LG60260IPR	3732	3919	6016	4774	3990	4113	4424	3486	3964	1412	2312	1631	4781	2931	
LG60259R	-	-	-	-	-	-	-	3513	2659	1335	2080	1386	4764	2623	
LG60261IPR	4090	4025	5260	5142	4988	3655	4527	4263	5139	1495	3121	2150	4699	3478	
P62T16R	3315	4347	5305	4455	4430	1811	3944	2716	4344	1080	2521	1468	4835	2827	
US63-22 IPRO	-	-	-	-	-	-	-	3780	4882	1307	2771	1250	5179	3195	
RA6422BR	3898	3826	4524	4959	4827	3736	4295	3504	3053	1485	3038	1804	5304	3031	
P64T39 R	3452	3844	5556	5066	4751	3526	4366	3653	3992	1296	3368	1280	4988	3096	
Y657	3326	4190	5517	5506	5043	3239	4470	3667	5000	1470	3509	1443	5195	3381	
Y6511PRO	3285	3381	4460	4776	4944	3031	3979	2246	3614	1097	3652	1547	4514	2778	
DM 68R09 RSF	-	-	-	-	-	-	-	3655	4257	1497	4078	894	4862	3207	
DM 61163 RSF IPRO	3714	4049	5849	5029	4389	3794	4471	3947	4357	1959	4115	997	4862	3373	
PAN 1644R	3322	4595	5642	5261	4604	2905	4388	3445	4252	1251	3457	656	5446	3085	
US68-12 IPRO	-	-	-	-	-	-	-	3035	3822	1622	3657	678	4350	2861	
P71T74 R	3307	4746	5604	5003	4173	3273	4351	2812	4083	1406	3457	719	4819	2883	
PAN 1502 R	3355	3887	5962	4368	4478	3414	4244	-	-	-	-	-	-	-	
PAN 1507 R	3747	3880	4433	4419	4076	3532	4014	-	-	-	-	-	-	-	
RA5722BR	3844	3899	6275	4515	3784	3679	4333	-	-	-	-	-	-	-	
P57T19 R	2995	3796	4413	3609	4225	2568	3601	-	-	-	-	-	-	-	
NS 5909 R	3649	3716	5830	4900	4425	4097	4436	-	-	-	-	-	-	-	
LS 6860 R	3557	2937	4687	4271	4294	2318	3677	-	-	-	-	-	-	-	
RA6521BR	3696	2623	4906	4493	3732	3733	3864	-	-	-	-	-	-	-	
DM 6.81 RR	2799	4397	4981	4653	3450	3548	3971	-	-	-	-	-	-	-	
Gem/Mean	3531	4007	5506	4592	4350	3493	4246	3641	3850	1320	2946	1569	4707	3005	

Tabel 25 Saamgevatte inligting van al die lokaliteite in die koel produksiegebiede, 2023/24
Table 25 Summarised information for all the localities in the cool production areas, 2023/24

Kultivar/Cultivar	Dae tot blom/ Days to flowering	Fisiologies ryp/ Physiological mature	Oes datum/ Harvest date	Plant hoogte/ Plant height	Peul hoogte/ Pod height	Omvallod- ging	Groenstam/ Green stem	Opsprong/ Shattering	Planttelling/ Number of plants	Per sentasie ongewenste sade/Percentage undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persen- tasie/Oil percentage	Ru- proteien- persentasie/ Crude protein percentage	Opbrengs/ Yield
RA4918RR	61	127	151	60	8	1.00	1.29	1.08	227	0.73	13.43	21.70	38.57	1951
NS 5258 R	63	127	152	56	6	1.00	1.42	1.04	262	0.70	13.13	20.89	40.92	1938
DM 5351 RSF	62	125	153	63	7	1.00	2.08	1.17	235	0.79	13.71	20.99	37.82	1985
RA5022BR	63	127	153	58	7	1.00	1.46	1.17	218	1.12	13.27	20.87	39.60	2168
PAN 1515R	68	127	153	67	8	1.00	1.25	1.00	205	0.78	13.45	20.30	40.70	1711
DM 53154 RSF IPRO	62	125	154	64	8	1.04	1.46	1.13	173	1.01	14.75	19.77	39.61	1826
P52152R	74	144	170	62	11	1.26	1.46	1.00	232	0.82	13.15	20.50	38.50	1851
LG60353R	68	136	165	59	9	1.00	1.33	1.08	229	0.80	13.65	21.15	39.20	1830
Y540	71	136	166	61	9	1.00	1.33	1.04	210	1.29	12.99	20.87	38.57	1823
RA 565 R	75	140	166	63	11	1.00	1.46	1.00	244	1.94	14.57	20.82	38.86	2052
LAKE 253 RR	81	154	172	54	7	1.11	1.79	1.00	130	0.81	14.12	20.05	38.78	1289
LS6851R	74	145	173	62	10	1.00	1.33	1.00	248	1.74	12.08	20.91	38.07	1814
US56-26R	72	139	166	68	10	1.30	1.38	1.00	215	1.20	13.84	21.44	38.21	1903
PAN 1521R	76	142	170	68	12	1.00	1.46	1.00	251	1.15	14.26	20.13	39.84	1900
PAN 1555R	82	151	176	68	14	1.11	2.25	1.00	233	1.06	14.66	19.47	40.98	1512
RA5821R	75	140	172	62	10	1.00	1.25	1.00	234	1.15	13.99	20.08	39.87	1830
LAKE 250 RR	78	147	178	58	9	1.04	1.62	1.05	113	0.73	15.77	19.84	38.88	1515
PAN 1588R	81	148	172	66	11	1.00	1.46	1.00	236	0.99	13.34	20.27	40.03	1701
RA660 R	74	140	166	59	9	1.00	1.54	1.00	255	2.23	13.62	20.63	39.90	1773
DM 59R03 RSF	73	142	175	67	10	1.11	1.42	1.00	240	1.19	15.12	20.22	39.20	1675
DM 59160 RSF IPRO	75	145	176	66	11	1.15	1.29	1.00	236	1.41	12.42	20.47	39.10	1759
LG60260IPR	81	150	176	70	13	1.00	1.54	1.00	248	1.42	13.40	19.38	40.28	1713
LG60259R	79	149	172	69	11	1.00	1.83	1.00	223	1.11	13.97	22.73	38.42	1665
LG60261IPR	82	150	179	68	14	1.00	2.38	1.00	245	1.44	13.53	19.56	39.55	1622
P62T16R	80	150	179	68	12	1.00	1.88	1.00	232	1.67	14.05	21.57	37.15	1624
US63-22 IPRO	77	153	183	71	14	1.52	2.13	1.00	253	1.36	13.72	19.56	38.72	1704
RA6422BR	82	151	178	68	12	1.00	1.54	1.00	249	0.79	14.23	20.88	38.12	1694
P64T39 R	83	150	178	69	12	1.04	1.58	1.00	237	1.25	14.18	20.28	39.97	1747
Y657	78	142	172	65	10	1.00	1.33	1.00	237	1.11	13.28	20.52	39.65	1871
Y651IPRO	85	152	181	75	16	1.22	2.00	1.00	236	1.35	13.47	19.63	37.33	1570
DM 68R09 RSF	82	149	179	65	11	1.00	1.58	1.00	224	0.90	13.66	20.01	39.05	1763
DM 6163 RSF IPRO	84	149	182	72	14	1.00	1.88	1.00	233	1.06	14.27	21.38	39.60	1780
PAN 1644R	78	142	173	57	11	1.22	1.54	1.00	251	0.73	13.84	20.12	39.65	1833
US68-12 IPRO	91	154	185	75	14	1.52	3.08	1.00	252	1.91	13.20	18.65	38.20	1625
P7174 R	84	151	182	71	12	1.11	2.00	1.00	230	1.00	14.55	19.34	39.25	1717
Gem/Mean	76	143	171	65	11	1.08	1.65	1.02	228	1.16	13.79	20.43	39.15	1764

Tabel 26 Saamgevatte inligting van al die lokaliteite in die matige produksiegebiede, 2023/24
Table 26 Summarised information for all the localities in the moderate production areas, 2023/24

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	Groenstam/ Green stem	Opspring/ Shattering	Planttelling/ Number of plants	Persentasie ongewenste sade/Percentage undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persentasie/Oil percentage	Ru- proteien- persentasie/ Crude protein percentage	Opbrengs/ Yield
RA4918RR	50	115	136	63	8	1.07	1.48	1.00	251	0.94	12.88	21.97	37.79	2299
NS 5258 R	50	114	129	61	7	1.00	1.11	1.05	269	1.70	12.47	21.05	39.92	2243
DM 5351 RSF	51	114	134	72	11	1.00	1.22	1.10	253	1.10	13.63	21.15	37.19	2073
RA5022BR	50	114	134	62	7	1.00	1.11	1.05	250	1.79	12.65	21.10	38.24	2301
PAN 1515R	53	114	133	72	9	1.00	1.00	1.00	240	1.24	13.04	21.15	39.76	2130
DM 53164 RSF IPRO	51	119	134	64	8	1.04	1.26	1.00	199	0.93	15.47	21.08	38.26	2317
P62T62R	59	122	144	66	10	1.37	1.48	1.00	283	0.89	13.21	23.11	38.82	2161
LG60353R	54	116	136	62	9	1.00	1.22	1.00	244	1.43	13.28	22.69	38.08	2099
Y540	58	120	141	67	10	1.00	1.26	1.00	249	1.29	13.03	22.47	37.69	2308
RA 565 R	61	124	143	66	10	1.00	1.33	1.00	273	0.80	14.53	22.11	38.18	2252
LAKE 253 RR	66	122	149	58	8	1.00	1.74	1.00	176	1.05	15.31	21.44	38.11	1977
LS6851R	60	127	146	58	9	1.00	1.33	1.00	249	2.20	12.17	21.92	38.16	1910
US56-26R	59	125	145	80	12	1.15	1.11	1.00	255	1.20	13.56	22.65	37.31	2194
PAN 1521R	63	126	144	78	10	1.04	1.33	1.00	279	1.17	14.35	21.21	38.47	2306
PAN 1555R	64	128	149	74	13	1.00	1.52	1.00	240	1.47	14.90	20.95	39.25	2089
RA5821R	62	119	141	70	9	1.11	1.11	1.00	278	1.59	13.10	20.60	40.05	2039
LAKE 250 RR	65	135	154	61	9	1.04	1.81	1.00	173	1.64	16.00	20.17	39.03	1732
PAN 1588R	65	128	148	77	12	1.00	1.22	1.00	296	1.37	13.42	21.20	39.24	2031
RA660 R	61	124	145	64	8	1.00	1.44	1.00	280	1.17	13.68	22.27	38.20	2084
DM 59R03 RSF	59	126	145	74	10	1.15	1.22	1.00	262	1.43	14.68	21.12	38.81	2006
DM 59160 RSF IPRO	65	128	148	76	12	1.04	1.15	1.00	262	1.19	12.94	21.91	38.14	2164
LG60260IPR	66	129	149	74	10	1.00	1.26	1.00	280	1.30	13.00	21.57	38.19	2188
LG60259R	62	128	148	85	14	1.15	1.22	1.00	256	1.47	13.98	21.63	37.61	2010
LG60261IPR	66	130	150	76	13	1.00	1.89	1.00	267	1.23	13.36	20.13	39.30	1933
P62T16R	64	134	154	71	10	1.07	1.67	1.00	234	1.63	14.81	22.45	37.38	2114
US63-22 IPRO	66	135	157	79	14	1.07	1.74	1.14	258	1.63	14.20	20.80	37.42	2180
RA6422BR	67	137	158	76	12	1.00	2.04	1.00	263	1.52	14.79	21.08	37.19	2144
P64T39 R	67	131	153	79	13	1.07	1.37	1.00	266	2.09	14.21	21.12	39.17	2003
Y657	65	131	151	74	11	1.00	1.44	1.00	236	0.99	13.37	21.19	38.84	2004
Y651IPRO	66	134	153	81	15	1.04	1.26	1.00	253	1.29	13.46	21.16	36.46	2014
DM 68R09 RSF	66	133	154	72	10	1.00	1.63	1.00	240	1.39	13.79	21.19	38.47	2048
DM 6163 RSF IPRO	68	134	156	79	14	1.00	1.48	1.00	244	1.08	15.01	20.64	37.93	2487
PAN 1644R	64	131	151	68	10	1.00	1.70	1.00	257	1.28	14.33	21.01	39.31	2043
US68-12 IPRO	73	141	161	86	14	1.07	2.44	1.00	267	1.85	13.45	19.50	38.14	2250
P71T74 R	66	136	160	77	12	1.04	1.96	1.00	270	1.38	15.16	20.13	38.59	2264
Gem/Mean	61	126	147	71	11	1.04	1.45	1.01	253	1.36	13.86	21.34	38.36	2126

Tabel 27 Saamgevatte inligting van al die lokaliteite in die warmer produksiegebiede, 2023/24
Table 27 Summarised information for all the localities in the warmer production areas, 2023/24

Kultivar/Cultivar	Dae tot blom/ Days to flowering	Fisiologies ryp/ Physiological mature	Oes datum/ Harvest date	Plant hoogte/ Plant height	Peul hoogte/ Pod height	Onval/ Lod- ging	Groenstam/ Green stem	Opspring/ Shattering	Planttelling/ Number of plants	Persentasie ongewenste sade/Percentage undesirable seed	Massa 100 sade/ Mass 100 seeds	Olie persen- tasie/Oil percentage	Ru- proteien- persentasie/ Crude protein percentage	Oopbrengs/ Yield
RA4918RR	39	117	127	78	9	1.00	1.56	1.00	164	1.26	14.67	22.33	37.03	3504
NS 5258 R	39	114	127	75	9	1.00	1.00	1.00	205	1.37	14.21	22.11	38.28	2893
DM 5351 RSF	40	117	130	81	11	1.00	1.67	1.00	186	0.90	14.61	21.82	36.99	3308
RA5022BR	42	116	127	69	8	1.00	1.67	1.00	191	0.95	14.77	22.04	37.75	3322
PAN 1515R	43	115	128	69	9	1.00	1.00	1.00	154	1.74	14.33	21.60	38.98	2266
DM 53154 RSF IPRO	41	115	127	73	9	1.00	1.33	1.00	146	1.76	16.27	21.21	39.13	3035
P52T52R	51	123	134	80	11	1.00	1.33	1.00	210	1.05	13.78	21.80	36.98	2929
LG60353R	45	118	130	68	9	1.00	1.67	1.00	208	1.26	15.15	22.89	37.45	2736
Y540	47	122	134	76	8	1.00	1.67	1.00	168	1.06	14.93	22.53	36.48	3018
RA 565 R	49	125	134	76	11	1.00	1.89	1.00	205	0.96	15.22	22.01	37.55	3233
LAKE 253 RR	50	131	146	49	4	1.00	4.67	1.00	142	1.36	17.34	20.95	39.03	2288
LS8851R	49	132	146	51	7	1.00	4.78	1.00	204	1.66	15.71	21.43	38.96	2790
US56-26R	53	129	141	99	18	1.47	1.33	1.00	186	1.25	15.70	22.60	36.67	3281
PAN 1521R	51	129	141	91	14	1.20	1.33	1.00	224	1.32	14.86	21.46	38.00	3148
PAN 1555R	53	130	145	95	18	1.00	1.78	1.00	170	1.48	14.94	20.41	39.19	2991
RA5821R	51	122	130	81	10	1.00	1.67	1.00	216	1.41	15.06	21.18	39.13	2845
LAKE 250 RR	52	129	146	53	6	1.00	5.00	1.00	108	1.45	16.76	20.02	38.78	2016
PAN 1588R	52	127	138	96	13	1.00	1.67	1.00	227	1.55	14.08	20.88	39.46	2952
RA660 R	49	126	137	78	11	1.00	1.11	1.00	211	1.63	15.06	21.86	37.87	3220
DM 59R03 RSF	49	127	142	93	13	1.00	1.33	1.00	208	1.71	15.15	21.41	38.17	3195
DM 59160 RSF IPRO	50	129	145	99	19	1.20	1.00	1.00	209	1.46	14.23	21.34	38.10	3470
LG60260IPR	55	129	145	99	18	1.20	1.33	1.00	192	1.47	14.23	20.91	37.12	2931
LG60259R	51	128	142	86	14	1.00	2.00	1.00	194	1.65	15.09	21.33	38.31	2623
LG60261IPR	53	132	145	93	18	1.00	1.33	1.00	193	1.20	14.25	20.70	38.03	3478
P62T16R	53	134	146	98	17	1.00	1.67	1.00	181	1.62	15.24	22.51	36.44	2827
US63-22 IPRO	52	132	148	101	19	1.60	2.33	1.00	189	1.39	13.94	20.10	37.88	3195
RA6422BR	57	138	147	101	18	1.00	2.56	1.00	202	2.14	15.07	20.91	37.46	3031
P64T39 R	52	133	147	93	16	1.00	1.67	1.00	186	2.07	14.52	21.60	38.04	3096
Y657	53	134	148	99	18	1.00	1.33	1.00	183	1.09	14.03	20.62	39.19	3381
Y651IPRO	57	135	144	105	23	1.00	2.44	1.00	171	2.49	14.04	20.13	37.06	2778
DM 68R09 RSF	58	132	146	90	14	1.20	1.89	1.00	180	1.92	14.25	21.06	38.67	3207
DM 61163 RSF IPRO	58	134	147	104	21	1.20	1.67	1.00	159	1.63	15.09	19.88	38.94	3373
PAN 1644R	57	134	147	101	19	1.27	2.00	1.00	193	2.14	15.36	20.72	39.25	3085
US68-12 IPRO	62	143	155	111	23	2.00	3.67	1.00	211	1.86	13.40	20.15	37.43	2861
P71T74 R	60	142	156	110	24	1.40	2.67	1.00	192	1.39	15.53	20.40	37.40	2883
Gem/Mean	51	128	140	86	14	1.11	1.97	1.00	188	1.50	14.88	21.28	38.03	3005