

South African  
**Barley**  
Breeding  
Institute

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## **REPORT ON THE BARLEY LINE EVALUATION TRIALS IN THE RÛENS**

## **VERSLAG VAN DIE GARS LYNEVALUASIE PROEWE IN DIE RÛENS**

SEISOEN 2008  
SEASON 2008

Programme executed by:  
South African Barley Breeding Institute  
Small Grain Institute  
SAB Maltings



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## 1. INTRODUCTION

The main objective of the line evaluation program is to plant the best lines from the two different breeding programmes under the exact same conditions (soil, climate and management) in order to ensure that the yield, grading characteristics and malting quality results of the lines from the different breeding programmes could be evaluated on a more comparative basis.

During the 2008 season, 12 trials were planted under dry land conditions in the Southern Cape. All the trials were harvested and, with the exception of Rietpoel, Protem, Napky and Heidelberg Vlake, used for evaluation of the lines in the trial. The CV of the trials at Napky and Rietpoel were unfortunately too high to be used due to very dry conditions. It was decided that the trials at Protem and Heidelberg vlake should not be included, even though the trials showed an acceptable C.V due to the extremely dry conditions, and consequently stunted growth.

This report will cover all the line evaluation trials as executed by Sabbi, SGI and SABM during the 2008 season. The relevant climatic data, agronomic data, grading characteristics and yield results will be represented.

## 2. SUMMARY

As a summary **Figures 3** shows the average grain yield and quality parameters for the LE trials in the Rûens for the 2008 season. **Figures 4-6** shows the long-term relative performance of the 4<sup>th</sup>, 3<sup>rd</sup> and 2<sup>nd</sup> year lines in the LE trials.

## 3. LOCALITIES

The present barley production area (Rûens) was divided into three sub areas, namely Western Rûens (Caledon, Rietpoel, Greyton and Riviersonderend), Southern Rûens (Napier, Bredasdorp, Klipdale and Protem) and Eastern Rûens (Napky, Swellendam, Heidelberg and Heidelberg Vlake). Each of these three sub areas was covered by four localities that are representative of the different homogeneous agricultural areas in the respective sub areas.

The different sub areas with their respective localities and some information on the co-workers are listed in **Table 21**.

## 4. MATERIAL AND METHODS

The relevant information on the procedures and statistics of all the line evaluation trials executed in the Rûens are provided in **Table 21**.

The trial in the Rûens consisted of 25 entries (3 replicates) from which 3 are commercially grown cultivars (controls); four are provisionally released lines (three from Sabbi and 1 from the SGI), one fourth year line, three third year lines, three second year lines and eleven new lines from (9 from Sabbi and 2 from the SGI). All the entries for the Rûens are listed in **Table 22**.

All the trials were laid out according to the nearest neighbour design and the data analysed with Agrobase Generation II software. In order to standardise the trials, all were planted by Sabbi with a Wintersteiger Plotman trial plot planter. The individual plots consisted of 8 rows with an inter row spacing of 19 cm. Plots were planted at 6m in length and just before harvesting trimmed back to a plot of 5m in length. The seeding density of the different lines used in the trials varied according to their thousand-kernel weight. The aim was therefore to establish the same quantity of plants per unit area in a trial for a specific area.

Fertilisation of all the trials was applied according to the area, rotation system and individual recommendations obtained from soil analysis. The source used for fertilisation with sowing was 2:1:0 (30), depending on the soil analysis. No nitrogen top dressing was applied during the season. The exact amount of nitrogen and phosphate applied at the individual trials are listed in **Table 21**.

Weed, pest and disease control were applied optimally as required in order to ensure a competitive free environment for the barley plants throughout the growing season. Weed

control was applied 5 weeks after emergence with Hussar at 200 g/ha and Ballista at 500 ml/ha. All the trials received two applications of fungicide. A mixture of Abacus (100ml/ha) and Cyperfos (800ml/ha) were applied on the 22 June 2008 and 27 September 2008.

At the end of the growing season all trials were firstly swathed as the individual lines reached maturity and later threshed with a Hege trial plot harvester. The net trial plots consisted of 6 rows of 5 m length (5.7 m<sup>2</sup>). Yield in kg/ha was determined and a complete grading was done on the harvested samples with a Steinecker grading apparatus and nitrogen content of the kernels was determined with an Infratec 1221 whole grain analyser. For the purpose of this report, only yield, percentage plumpness (> 2.5 mm), waste (< 2.0 mm) and percentage kernel nitrogen will be represented.

## 5. CLIMATIC CONDITIONS

The 2008 and long term average rainfall figures for the representative weather stations in the Rûens are indicated in **Table 23** and **Figures 1 to 2**. The following is a list of weather stations with the respective trials that they represent:

Weather Station	Figure	Locality Represented
Dunghye Park	1	Caledon Rietpoel
Voorstekop	2	Heidelberg Heidelberg Vlakte

## 6. RESULTS

The trials that had to be excluded from the results are Rietpoel, Protem, Napky and Heidelberg Vlakte, due to drought.

The following set of data will be presented for all the other trials:

### 6.1 Average Yield

The average yield is expressed in kg/ha. Yield data is presented for each individual trial as well as averages for regions so that evaluation can also be done on a regional basis.

To simplify evaluation all tables will also include the following statistical measurements:

LSD( $T_{0.05}$ ): Least significant difference that is significant at a 5% level

LSD( $T_{0.10}$ ): Least significant difference that is significant at a 10% level

CV: Coefficient of variance

### 6.2 Grading characteristics

The following grading characteristics are presented:

Percentage plumpness (kernels > 2.5 mm)

Percentage screenings (kernels < 2.0 mm)

Percentage total kernel nitrogen

The same statistical measurements as mentioned under average yield are also used for these parameters.

### 6.3 Disease Readings

All the disease readings were executed on an additional untreated replicate at one of the localities in each area under dry land conditions. The disease readings were executed by

representatives of Sabbi at Heidelberg (Eastern Rûens) and Caledon (Western Rûens). Readings for leaf rust (*Puccinia hordei*), net blotch (*Pyrenophora spp*) and leaf blotch (*Rhynchosporium*) could be done and are summarised in **Tables 19 to 20**.

#### **6.4 General appearance**

As determined on all trials throughout the season and indicated on a scale of 1 to 9. A figure of 9 indicates line with the best general performance.

#### **6.5 Stage of ripeness**

Determined on a scale of 1 to 5, where 1 indicates the early maturing lines and 5 the late maturing lines.

#### **6.6 Straw length**

Gives an indication of the average straw length as observed throughout all the LE trials. Straw length is expressed in categories ranging from short to long.

#### **6.7 Straw height (cm)**

This is the general height of an individual line measured from at least two points in the plot chosen at random. The measurement is from ground level to the top of the ear, ignoring awns.

#### **6.8 Straw strength**

Determined on a scale of 1 to 5, where 5 indicate total resistance to lodging and 1 no resistance to lodging.

TABEL 1: Gemiddelde opbrengste en opbrengsrangordes van inskrywings in die LE proef vir die Rûens, 2008

TABLE 1: Mean yields and yield rankings of entries in the LE trial for the Rûens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem.rel. opb. % van std. Mean rel. yield % of std.	Rûens Gemiddelde Mean		Lokalteite/Localities															
			Yield	Rk	NAPIER		KLIPDALE		BREDASDORP		CALEDON		GREYTON		TYGERH		SWELLEND		HEIDELBERG	
			Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk	Yield	Rk
1	SSG 564	100.0	4555	19	4823.9	22	5241.2	9	3791.5	25	6670.5	21	4509.8	16	4457.6	10	3390.1	23	3555.4	15
2	SabbiErica	111.4	5074	4	5936.5	3	5792.1	3	3866.1	22	7326.3	14	4740.9	4	4293.6	14	4363.1	2	4276.6	4
3	SabbiNemesia	111.2	5065	5	6028.0	1	5168.4	15	4587.9	7	7724.3	7	4611.5	11	5040.9	3	3964.1	6	3391.8	20
4	S5	99.4	4528	20	4839.5	21	4568.5	22	4585.9	8	7800.3	5	3809.2	25	3762.5	22	3413.2	19	3441.0	18
5	Puma	105.9	4825	13	5417.8	10	5341.4	8	3976.6	21	6691.3	20	4862.3	3	4820.3	5	3550.4	14	3937.1	6
6	S6	106.5	4849	12	5213.0	13	5204.5	12	4521.0	9	7534.0	10	3918.3	23	5030.3	4	3714.0	11	3658.2	10
7	S7	117.6	5356	1	5927.2	4	6090.2	2	5309.8	1	7627.4	9	4600.5	13	4731.2	7	4840.6	1	3720.6	9
8	98-010-01	111.7	5088	3	5597.3	8	5357.7	7	4843.0	3	7533.1	11	4465.7	17	3952.5	21	4221.3	3	4736.8	1
9	98-050-11	109.9	5005	6	5777.7	6	5756.2	4	4259.7	10	7757.4	6	4662.5	7	4360.8	13	3671.1	12	3795.8	8
10	98-108-01	101.1	4606	18	5805.4	5	5053.7	17	4204.5	12	7243.9	15	4000.4	22	3981.2	20	3470.9	17	3086.0	25
11	99-032-01	108.9	4961	7	5230.4	12	5165.7	16	4214.8	11	7811.8	3	4602.0	12	5137.6	2	3918.6	7	3603.1	13
12	99-043-01	106.8	4863	11	5021.9	17	5378.9	6	4591.6	6	7802.3	4	4360.5	18	4602.9	9	3549.6	15	3598.4	14
13	99-043-02	108.9	4959	8	5180.0	15	5508.1	5	4838.1	4	7051.9	16	4532.7	14	5364.8	1	3849.0	9	3348.9	21
14	00-008-02	106.8	4865	10	5964.9	2	5203.4	13	4144.4	16	6803.2	18	4731.8	5	4664.8	8	3496.9	16	3909.7	7
15	B05/10	98.3	4478	21	4916.3	20	5169.1	14	4041.9	20	6996.5	17	4254.6	19	3747.3	23	3407.2	20	3289.3	22
16	B05/19	101.2	4611	17	5339.6	11	4514.3	23	4193.1	14	6736.7	19	4168.7	20	4257.1	15	3390.4	22	4290.7	3
17	00-006-02	105.6	4808	14	5190.1	14	4892.6	19	4954.0	2	7895.0	2	4515.6	15	4092.3	17	3469.3	18	3456.1	17
18	00-009-03	98.0	4466	22	4943.3	18	4591.5	21	4095.1	18	6295.1	22	3885.8	24	4426.5	11	3844.1	10	3646.4	11
19	01-016-02D	93.2	4244	25	4737.6	23	4327.6	25	4073.1	19	6221.8	23	4071.8	21	3481.6	25	3601.5	13	3433.7	19
20	01-019-02D	96.5	4395	23	4925.4	19	4956.7	18	3798.2	24	6170.2	24	4627.2	9	4077.0	19	3398.2	21	3209.7	24
21	01-026-01D	103.3	4706	16	4618.5	25	4883.7	20	4131.9	17	7369.2	13	5102.8	1	4207.0	16	4081.3	5	3254.6	23
22	01-026-02D	108.4	4936	9	5502.1	9	5205.0	11	3835.1	23	7472.6	12	5036.8	2	4078.1	18	4216.4	4	4141.6	5
23	01-039-07D	95.8	4365	24	5085.8	16	4434.9	24	4193.7	13	6139.3	25	4618.5	10	3546.7	24	3265.5	24	3631.9	12
24	02-054-01D	103.8	4727	15	4710.7	24	5215.9	10	4145.4	15	7997.0	1	4672.6	6	4421.8	12	3131.6	25	3522.1	16
25	06-900-01	115.2	5247	2	5710.3	7	6101.2	1	4662.8	5	7655.2	8	4662.2	8	4733.7	6	3910.9	8	4540.7	2
GEMIDD/AVERAGE			4783		5298		5165		4314		7213		4481		4371		3725		3699	
KV/CV			9		8.1		8.1		9.4		5.1		12.4		10.6		8		13	
KBV/LSD (0.10)			287		454		442		432		503		591		490		310		513	
KBV/LSD (0.05)			368		586		571		558		649		763		633		400		663	

TABEL 2: Gemiddelde opbrengste en opbrengsrangordes van inskrywings in die LE proef vir die Wes-Rûens  
 TABLE 2: Mean yields and yield rankings of entries in the LE trial for the Western Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. opb. % van std.	Gemiddelde		Lokalteite/Localities					
		<i>Mean rel. yield % of std.</i>	<i>Mean Yield</i>	<i>Rk</i>	CALEDON		GREYTON		TYGERH	
			<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>
1	SSG 564	100.0	5213	17	6671	21	4510	16	4458	10
2	<sup>Sabbi</sup> Erica	104.6	5454	14	7326	14	4741	4	4294	14
3	<sup>Sabbi</sup> Nemesia	111.1	5792	2	7724	7	4612	11	5041	3
4	S5	98.3	5124	18	7800	5	3809	25	3763	22
5	Puma	104.7	5458	13	6691	20	4862	3	4820	5
6	S6	105.4	5494	12	7534	10	3918	23	5030	4
7	S7	108.4	5653	5	7627	9	4601	13	4731	7
8	98-010-01	102.0	5317	16	7533	11	4466	17	3953	21
9	98-050-11	107.3	5594	7	7757	6	4663	7	4361	13
10	98-108-01	97.4	5075	19	7244	15	4000	22	3981	20
11	99-032-01	112.2	5850	1	7812	3	4602	12	5138	2
12	99-043-01	107.2	5589	8	7802	4	4361	18	4603	9
13	99-043-02	108.4	5650	6	7052	16	4533	14	5365	1
14	00-008-02	103.6	5400	15	6803	18	4732	5	4665	8
15	B05/10	95.9	4999	21	6997	17	4255	19	3747	23
16	B05/19	97.0	5054	20	6737	19	4169	20	4257	15
17	00-006-02	105.5	5501	11	7895	2	4516	15	4092	17
18	00-009-03	93.4	4869	23	6295	22	3886	24	4427	11
19	01-016-02D	88.1	4592	25	6222	23	4072	21	3482	25
20	01-019-02D	95.1	4958	22	6170	24	4627	9	4077	19
21	01-026-01D	106.7	5560	9	7369	13	5103	1	4207	16
22	01-026-02D	106.1	5529	10	7473	12	5037	2	4078	18
23	01-039-07D	91.5	4768	24	6139	25	4619	10	3547	24
24	02-054-01D	109.3	5697	3	7997	1	4673	6	4422	12
25	06-900-01	109.0	5684	4	7655	8	4662	8	4734	6
GEMIDD/AVERAGE			5355		7213		4481		4371	
KV/CV			8.8		5.1		12.4		10.6	
KBV/LSD (90)			548.1		503		591		490	
KBV/LSD (95)			707.6		649		763		633	



TABEL 3: Gemiddelde opbrengste en opbrengsrangordes van inskrywings in die LE proef vir die Suid-Rûens  
 TABLE 3: Mean yields and yield rankings of entries in the LE trial for the Southern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. opb. % van std. <i>Mean rel.</i> <i>yield %</i> <i>of std.</i>	Gemiddelde <i>Mean</i>		NAPIER		KLIPDALE		BREDASDORP	
			<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>
1	SSG 564	100.0	4619	20	4823.9	22	5241	9	3792	25
2	SabbErica	112.5	5198	6	5936.5	3	5792	3	3866	22
3	SabbNemesia	113.9	5261	5	6028.0	1	5168	15	4588	7
4	S5	101.0	4665	19	4839.5	21	4568	22	4586	8
5	Puma	106.3	4912	13	5417.8	10	5341	8	3977	21
6	S6	107.8	4979	12	5213.0	13	5204	12	4521	9
7	S7	125.0	5776	1	5927.2	4	6090	2	5310	1
8	98-010-01	114.0	5266	3	5597.3	8	5358	7	4843	3
9	98-050-11	114.0	5265	4	5777.7	6	5756	4	4260	10
10	98-108-01	108.7	5021	9	5805.4	5	5054	17	4204	12
11	99-032-01	105.4	4870	14	5230.4	12	5166	16	4215	11
12	99-043-01	108.2	4998	11	5021.9	17	5379	6	4592	6
13	99-043-02	112.0	5175	7	5180.0	15	5508	5	4838	4
14	00-008-02	110.5	5104	8	5964.9	2	5203	13	4144	16
15	B05/10	102.0	4709	16	4916.3	20	5169	14	4042	20
16	B05/19	101.4	4682	18	5339.6	11	4514	23	4193	14
17	00-006-02	108.5	5012	10	5190.1	14	4893	19	4954	2
18	00-009-03	98.4	4543	24	4943.3	18	4591	21	4095	18
19	01-016-02D	94.8	4380	25	4737.6	23	4328	25	4073	19
20	01-019-02D	98.7	4560	22	4925.4	19	4957	18	3798	24
21	01-026-01D	98.4	4545	23	4618.5	25	4884	20	4132	17
22	01-026-02D	104.9	4847	15	5502.1	9	5205	11	3835	23
23	01-039-07D	99.0	4572	21	5085.8	16	4435	24	4194	13
24	02-054-01D	101.6	4691	17	4710.7	24	5216	10	4145	15
25	06-900-01	118.9	5491	2	5710.3	7	6101	1	4663	5
GEMIDD/AVERAGE			4926		5298		5165		4314	
KV/CV			8.5		8.1		8.1		9.4	
KBV/LSD (90)			429		454		442		432	
KBV/LSD (95)			553		586		571		558	

TABEL 4: Gemiddelde opbrengste en opbrengsrangordes van inskrywings in die LE proef vir die Oos-Rûens  
 TABLE 4: Mean yields and yield rankings of entries in the LE trial for the Eastern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. opb. % van std.	Gemiddelde		SWELLEND		HEIDELBERG	
		<i>Mean rel. yield % of std.</i>	<i>Mean Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>	<i>Yield</i>	<i>Rk</i>
1	SSG 564	100.0	3473	18	3390	23	3555	15
2	<sup>Sabbi</sup> Erica	124.4	4320	2	4363	2	4277	4
3	<sup>Sabbi</sup> Nemesia	105.9	3678	13	3964	6	3392	20
4	S5	98.7	3427	21	3413	19	3441	18
5	Puma	107.8	3744	9	3550	14	3937	6
6	S6	106.1	3686	12	3714	11	3658	10
7	S7	123.3	4281	3	4841	1	3721	9
8	98-010-01	129.0	4479	1	4221	3	4737	1
9	98-050-11	107.5	3734	10	3671	12	3796	8
10	98-108-01	94.4	3279	25	3471	17	3086	25
11	99-032-01	108.3	3761	7	3919	7	3603	13
12	99-043-01	102.9	3574	16	3550	15	3598	14
13	99-043-02	103.6	3599	15	3849	9	3349	21
14	00-008-02	106.7	3704	11	3497	16	3910	7
15	B05/10	96.4	3348	22	3407	20	3289	22
16	B05/19	110.6	3841	6	3390	22	4291	3
17	00-006-02	99.7	3463	19	3469	18	3456	17
18	00-009-03	107.8	3745	8	3844	10	3646	11
19	01-016-02D	101.3	3518	17	3601	13	3434	19
20	01-019-02D	95.1	3304	24	3398	21	3210	24
21	01-026-01D	105.6	3668	14	4081	5	3255	23
22	01-026-02D	120.3	4179	5	4216	4	4142	5
23	01-039-07D	99.3	3449	20	3265	24	3632	12
24	02-054-01D	95.8	3327	23	3132	25	3522	16
25	06-900-01	121.7	4226	4	3911	8	4541	2
GEMIDD/AVERAGE			3712		3725		3699	
KV/CV			10.8		7.8		13.1	
KBV/LSD (90)			519		310		513	
KBV/LSD (95)			666		400		663	

TABEL 5: Gemiddelde vetkorrel (>2,5mm) van inskrywings in die LE proef vir die Rûens, 2008

TABLE 5: Mean plumpness (>2,5mm) of entries in the LE trial for the Rûens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem. rel. vetk. % van std.		Rûens Gemiddelde		NAPIER		KLIPDALE		BREDASDORP		CALEDON		GREYTON		TYGERH		SWELLEND		HEIDELBERG	
		Mean rel. plump % of std.	Mean Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump	Rk	Plump
1	SSG 564	100.0	93.6	18	94.6	21	96.4	6	86.0	24.0	90.9	17	92.4	20	94.2	14	97.1	5	97.2	9	
2	Sabbi Erica	100.2	93.8	17	97.0	7	95.6	11	88.8	17.0	89.1	20	91.8	22	96.2	6	93.9	14	98.0	4	
3	Sabbi Nemesia	100.2	93.8	16	97.5	3	97.2	3	92.5	10.0	91.3	16	93.4	18	88.4	24	94.0	13	96.4	14	
4	S5	101.5	95.0	8	95.2	17	96.7	4	95.5	1.0	94.4	10	94.7	13	94.7	10	91.4	21	97.3	8	
5	Puma	96.7	90.5	24	94.2	22	92.2	22	86.6	23.0	83.6	25	87.3	25	93.3	19	91.4	22	95.5	19	
6	S6	101.0	94.5	12	97.2	5	94.0	20	94.6	4.0	96.6	4	94.3	14	93.3	20	90.4	23	95.5	18	
7	S7	103.3	96.7	1	96.9	9	96.1	7	95.0	2.0	98.5	2	96.9	2	94.4	12	98.7	1	96.9	13	
8	98-010-01	100.7	94.2	13	96.6	11	94.6	15	88.0	20.0	91.6	14	93.9	17	93.3	18	97.6	2	98.0	3	
9	98-050-11	102.4	95.8	3	97.4	4	96.7	5	89.7	16.0	96.4	6	96.0	8	96.3	5	96.6	7	97.5	6	
10	98-108-01	103.2	96.6	2	97.1	6	97.6	2	94.6	5.0	100.4	1	96.9	4	94.9	8	96.2	8	95.2	20	
11	99-032-01	100.0	93.5	19	96.7	10	96.1	8	89.9	15.0	86.5	22	92.1	21	98.6	1	92.6	18	96.0	16	
12	99-043-01	100.4	93.9	15	95.3	16	94.3	19	92.6	9.0	91.5	15	96.2	6	96.8	4	90.3	24	94.4	25	
13	99-043-02	99.7	93.3	21	92.0	25	94.4	18	93.4	7.0	90.3	18	96.3	5	92.9	21	92.7	17	94.6	24	
14	00-008-02	96.2	90.0	25	94.8	19	89.3	25	88.7	18.0	84.1	24	89.8	24	88.2	25	90.3	25	94.7	23	
15	B05/10	102.1	95.5	7	93.8	23	96.0	10	94.8	3.0	98.1	3	95.1	12	93.8	15	97.0	6	95.6	17	
16	B05/19	100.4	93.9	14	97.0	8	95.0	14	91.0	14.0	88.1	21	94.0	16	94.9	9	94.4	12	97.1	10	
17	00-006-02	102.1	95.6	5	97.8	2	96.0	9	93.8	6.0	94.8	9	96.1	7	93.5	16	93.9	15	98.6	1	
18	00-009-03	99.7	93.3	20	94.9	18	91.5	23	87.2	22.0	93.2	12	94.1	15	96.8	2	92.7	16	96.2	15	
19	01-016-02D	99.2	92.8	22	96.3	12	93.7	21	91.5	13.0	89.2	19	93.1	19	91.9	22	91.8	20	95.2	21	
20	01-019-02D	102.2	95.6	4	97.9	1	95.3	12	91.9	12.0	93.5	11	96.9	1	96.8	3	94.6	11	98.1	2	
21	01-026-01D	101.2	94.7	10	94.8	20	94.4	17	88.6	19.0	96.5	5	95.2	11	95.8	7	95.5	9	97.0	11	
22	01-026-02D	101.0	94.6	11	96.1	13	95.1	13	87.6	21.0	93.2	13	95.4	10	94.3	13	97.3	4	97.4	7	
23	01-039-07D	101.3	94.8	9	95.6	15	94.5	16	92.9	8.0	96.3	7	95.8	9	91.0	23	94.6	10	97.7	5	
24	02-054-01D	102.1	95.6	6	95.8	14	97.7	1	91.9	11.0	95.0	8	96.9	3	94.7	11	97.5	3	95.1	22	
25	06-900-01	96.8	90.6	23	93.1	24	89.7	24	84.0	25.0	85.2	23	90.3	23	93.4	17	92.3	19	97.0	12	
GEMIDD/AVERAGE			94.1		95.8		94.8		90.8		92.3		94.2		94.1		94.2		96.5		
KV/CV			2.0		1.6		1.8		2.2		2.6		1.3		2.8		2.0		1.1		
KBV/LSD (90)			1.7		1.7		1.8		2.1		2.5		1.3		2.8		2.0		1.1		
KBV/LSD (95)			2.2		2.2		2.3		2.7		3.3		1.7		3.6		2.6		1.4		

TABEL 6: Gemiddelde vetkorrel (&gt;2,5mm) van inskrywings in die LE proef vir die Wes-Rûens

TABLE 6: Mean plumpness (&gt;2,5mm) of entries in the LE trial for the Western Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. vetk. % van std. <i>Mean rel. plump % of std.</i>	Western Rûens		Lokalteite/Localities					
			Gemiddelde <i>Mean</i>		CALEDON		GREYTON		TYGERH	
			<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>
1	SSG 564	100.0	92.5	17	90.9	17	92.4	20	94.2	14
2	<sup>Sabbi</sup> Erica	99.9	92.4	19	89.1	20	91.8	22	96.2	6
3	<sup>Sabbi</sup> Nemesia	98.4	91.0	22	91.3	16	93.4	18	88.4	24
4	S5	102.3	94.6	12	94.4	10	94.7	13	94.7	10
5	Puma	95.2	88.1	24	83.6	25	87.3	25	93.3	19
6	S6	102.4	94.7	11	96.6	4	94.3	14	93.3	20
7	S7	104.5	96.6	2	98.5	2	96.9	2	94.4	12
8	98-010-01	100.5	93.0	16	91.6	14	93.9	17	93.3	18
9	98-050-11	104.1	96.2	3	96.4	6	96.0	8	96.3	5
10	98-108-01	105.3	97.4	1	100.4	1	96.9	4	94.9	8
11	99-032-01	99.9	92.4	18	86.5	22	92.1	21	98.6	1
12	99-043-01	102.5	94.8	9	91.5	15	96.2	6	96.8	4
13	99-043-02	100.7	93.1	15	90.3	18	96.3	5	92.9	21
14	00-008-02	94.5	87.4	25	84.1	24	89.8	24	88.2	25
15	B05/10	103.5	95.7	6	98.1	3	95.1	12	93.8	15
16	B05/19	99.9	92.3	20	88.1	21	94.0	16	94.9	9
17	00-006-02	102.5	94.8	8	94.8	9	96.1	7	93.5	16
18	00-009-03	102.4	94.7	10	93.2	12	94.1	15	96.8	2
19	01-016-02D	98.9	91.4	21	89.2	19	93.1	19	91.9	22
20	01-019-02D	103.5	95.7	5	93.5	11	96.9	1	96.8	3
21	01-026-01D	103.6	95.8	4	96.5	5	95.2	11	95.8	7
22	01-026-02D	102.0	94.3	14	93.2	13	95.4	10	94.3	13
23	01-039-07D	102.1	94.4	13	96.3	7	95.8	9	91.0	23
24	02-054-01D	103.3	95.5	7	95.0	8	96.9	3	94.7	11
25	06-900-01	96.9	89.6	23	85.2	23	90.3	23	93.4	17
GEMIDD/AVERAGE			93.5		92.33		94.19		94.09	
KV/CV			2.3		2.6		1.3		2.8	
KBV/LSD (90)			3.3		2.5		1.3		2.8	
KBV/LSD (95)			4.2		3.3		1.7		3.6	

TABEL 7: Gemiddelde vetkorrel (&gt;2,5mm) van inskrywings in die LE proef vir die Suid-Rûens

TABLE 7: Mean plumpness (&gt;2,5mm) of entries in the LE trial for the Southern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. vetk. % van std. <i>Mean rel. plump % of std.</i>	Southern Rûens		Lokalteite/Localities					
			Gemiddelde <i>Mean</i>		NAPIER		KLIPDALE		BREDASDORP	
			<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>
1	SSG 564	100.0	92.3	21	94.6	21	96.4	6	86.0	24.0
2	Sabb Erica	101.6	93.8	16	97.0	7	95.6	11	88.8	17.0
3	Sabb Nemesia	103.7	95.7	5	97.5	3	97.2	3	92.5	10.0
4	S5	103.8	95.8	4	95.2	17	96.7	4	95.5	1.0
5	Puma	98.6	91.0	23	94.2	22	92.2	22	86.6	23.0
6	S6	103.2	95.3	6	97.2	5	94.0	20	94.6	4.0
7	S7	104.0	96.0	2	96.9	9	96.1	7	95.0	2.0
8	98-010-01	100.8	93.1	18	96.6	11	94.6	15	88.0	20.0
9	98-050-11	102.4	94.6	10	97.4	4	96.7	5	89.7	16.0
10	98-108-01	104.4	96.4	1	97.1	6	97.6	2	94.6	5.0
11	99-032-01	102.0	94.2	13	96.7	10	96.1	8	89.9	15.0
12	99-043-01	101.9	94.1	14	95.3	16	94.3	19	92.6	9.0
13	99-043-02	101.0	93.3	17	92.0	25	94.4	18	93.4	7.0
14	00-008-02	98.5	90.9	24	94.8	19	89.3	25	88.7	18.0
15	B05/10	102.7	94.8	9	93.8	23	96.0	10	94.8	3.0
16	B05/19	102.1	94.3	12	97.0	8	95.0	14	91.0	14.0
17	00-006-02	103.8	95.9	3	97.8	2	96.0	9	93.8	6.0
18	00-009-03	98.8	91.2	22	94.9	18	91.5	23	87.2	22.0
19	01-016-02D	101.6	93.8	15	96.3	12	93.7	21	91.5	13.0
20	01-019-02D	102.9	95.0	8	97.9	1	95.3	12	91.9	12.0
21	01-026-01D	100.3	92.6	20	94.8	20	94.4	17	88.6	19.0
22	01-026-02D	100.7	92.9	19	96.1	13	95.1	13	87.6	21.0
23	01-039-07D	102.2	94.3	11	95.6	15	94.5	16	92.9	8.0
24	02-054-01D	103.0	95.1	7	95.8	14	97.7	1	91.9	11.0
25	06-900-01	96.3	88.9	25	93.1	24	89.7	24	84.0	25.0
GEMIDD/AVERAGE			93.8		95.82		94.79		90.84	
KV/CV			1.9		1.6		1.8		2.2	
KBV/LSD (90)			2.4		1.7		1.8		2.1	
KBV/LSD (95)			3.1		2.2		2.3		2.7	

TABEL 8: Gemiddelde vetkorrel (&gt;2,5mm) van inskrywings in die LE proef vir die Oos-Rûens

TABLE 8: Mean plumpness (&gt;2,5mm) of entries in the LE trial for the Eastern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. vetk. % van std. <i>Mean rel.</i> <i>plump %</i> <i>of std.</i>	<i>Eastern</i> <i>Rûens</i> Gemiddelde <i>Mean</i>		SWELLEND		HEIDELBERG	
			<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>	<i>Plump</i>	<i>Rk</i>
1	SSG 564	100.0	97.2	4	97.1	5	97.2	9
2	Sabbi Erica	98.8	96.0	12	93.9	14	98.0	4
3	Sabbi Nemesia	98.0	95.2	15	94.0	13	96.4	14
4	S5	97.1	94.3	18	91.4	21	97.3	8
5	Puma	96.2	93.4	22	91.4	22	95.5	19
6	S6	95.7	93.0	23	90.4	23	95.5	18
7	S7	100.6	97.8	2	98.7	1	96.9	13
8	98-010-01	100.7	97.8	1	97.6	2	98.0	3
9	98-050-11	99.9	97.0	5	96.6	7	97.5	6
10	98-108-01	98.5	95.7	14	96.2	8	95.2	20
11	99-032-01	97.1	94.3	19	92.6	18	96.0	16
12	99-043-01	95.1	92.4	25	90.3	24	94.4	25
13	99-043-02	96.3	93.6	20	92.7	17	94.6	24
14	00-008-02	95.2	92.5	24	90.3	25	94.7	23
15	B05/10	99.1	96.3	8	97.0	6	95.6	17
16	B05/19	98.6	95.8	13	94.4	12	97.1	10
17	00-006-02	99.1	96.3	9	93.9	15	98.6	1
18	00-009-03	97.2	94.5	17	92.7	16	96.2	15
19	01-016-02D	96.2	93.5	21	91.8	20	95.2	21
20	01-019-02D	99.1	96.3	6	94.6	11	98.1	2
21	01-026-01D	99.1	96.3	10	95.5	9	97.0	11
22	01-026-02D	100.2	97.4	3	97.3	4	97.4	7
23	01-039-07D	99.0	96.1	11	94.6	10	97.7	5
24	02-054-01D	99.1	96.3	7	97.5	3	95.1	22
25	06-900-01	97.4	94.6	16	92.3	19	97.0	12
GEMIDD/AVERAGE			95.3		94.19		96.49	
KV/CV			1.6		2.0		1.1	
KBV/LSD (90)			2.6		2.0		1.1	
KBV/LSD (95)			3.4		2.6		1.4	

TABEL 9: Gemiddelde sifsels (<2,0mm) van inskrywings in die LE proef vir die Rûens, 2008

TABLE 9: Mean screenings (<2,0mm) of entries in the LE trial for the Rûens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem.rel. sifs. % van std. Rûens Mean rel. Gemiddelde		NAPIER		KLIPDALE		BREDASDORP		CALEDON		GREYTON		TYGERH		SWELLEND		
		Screen % of std.	Mean Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	Screen Rk	
1	SSG 564	100.0	1.9	11	1.8	19	1.3	12	3.2	20.0	2.3	17	2.0	19	2.3	16	0.9	4
2	Sabbal Erica	90.7	1.7	13	1.1	3	1.1	8	3.4	22.0	1.9	15	2.0	20	1.7	11	1.2	9
3	Sabbal Nemesia	112.1	2.1	8	1.3	9	1.3	18	2.1	12.0	2.3	16	2.1	22	3.1	23	2.0	17
4	S5	101.5	1.9	9	1.9	20	1.0	7	1.3	4.0	1.5	11	1.8	18	2.6	20	2.9	21
5	Puma	134.4	2.5	2	1.9	22	1.3	16	3.7	24.0	3.6	23	2.5	24	1.9	14	2.9	22
6	S6	87.5	1.6	16	1.2	7	1.4	19	1.1	2.0	1.3	6	1.3	10	1.4	5	3.3	24
7	S7	58.8	1.1	25	1.1	6	0.8	1	1.1	1.0	0.9	2	1.0	4	1.6	9	0.5	2
8	98-010-01	83.4	1.6	17	1.3	11	1.3	13	3.2	19.0	1.8	14	1.4	15	1.8	13	0.7	3
9	98-050-11	63.1	1.2	24	0.7	1	0.8	2	2.7	17.0	0.8	1	1.0	3	0.8	2	1.0	6
10	98-108-01	88.2	1.7	15	1.1	5	0.9	5	2.0	9.0	1.3	8	1.2	8	1.4	4	1.8	13
11	99-032-01	117.5	2.2	7	1.6	15	0.8	3	2.7	16.0	2.4	18	1.4	14	2.9	21	3.1	23
12	99-043-01	118.0	2.2	6	1.9	21	1.1	10	1.7	6.0	2.5	19	0.9	2	3.0	22	3.5	25
13	99-043-02	126.5	2.4	3	2.1	24	2.0	24	2.1	11.0	2.7	20	1.0	5	3.1	24	2.6	19
14	00-008-02	155.4	2.9	1	1.4	13	2.9	25	3.2	21.0	5.7	25	2.1	21	3.4	25	2.8	20
15	B05/10	90.1	1.7	14	2.5	25	1.6	22	1.3	5.0	1.2	5	1.5	17	2.4	18	1.0	7
16	B05/19	100.3	1.9	10	1.3	12	1.1	9	2.5	15.0	3.4	22	1.4	12	2.4	17	1.9	15
17	00-006-02	73.3	1.4	22	1.2	8	1.2	11	1.7	7.0	1.3	9	1.1	6	1.6	8	1.8	12
18	00-009-03	99.3	1.9	12	1.7	17	1.5	20	3.5	23.0	1.8	13	1.5	16	1.4	6	1.9	14
19	01-016-02D	121.2	2.3	4	1.5	14	1.6	21	2.0	8.0	3.0	21	3.1	25	2.5	19	2.2	18
20	01-019-02D	76.6	1.4	19	0.9	2	0.9	4	2.1	10.0	1.8	12	0.8	1	1.8	12	1.9	16
21	01-026-01D	77.1	1.5	18	1.7	16	1.3	15	2.3	13.0	1.2	4	1.3	9	1.5	7	1.2	10
22	01-026-02D	75.7	1.4	20	1.3	10	1.3	14	2.7	18.0	1.2	3	1.4	13	1.7	10	0.3	1
23	01-039-07D	73.9	1.4	21	1.7	18	1.3	17	1.2	3.0	1.3	10	1.3	11	2.0	15	1.1	8
24	02-054-01D	71.1	1.3	23	1.1	4	1.0	6	2.5	14.0	1.3	7	1.1	7	0.6	1	0.9	5
25	06-900-01	119.8	2.3	5	2.0	23	2.0	23	3.8	25.0	4.4	24	2.3	23	1.0	3	1.7	11
GEMIDD/AVERAGE			1.8		1.5		1.3		2.3		2.1		1.5		2.0		1.8	
KV/CV			34.5		38.2		28.9		25.8		40.1		29.3		37.1		37.5	
KBV/LSD (90)			0.5		0.6		0.4		0.6		0.9		0.5		0.8		0.7	
KBV/LSD (95)			0.7		0.8		0.5		0.8		1.2		0.6		1.0		0.9	

TABEL 10: Gemiddelde korrelstikstof van inskrywings in die LE proef vir die Rùens, 2008

TABLE 10: Mean kernel nitrogen of entries in the LE trial for the Rùens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem.rel. TN % van std.		Rùens Gemiddelde		Lokalteite/Localities														
		Mean rel. TN % of std.	Mean TN	Rk	NAPIER TN	Rk	KLIPDALE TN	Rk	BREDASDORP TN	Rk	CALEDON TN	Rk	GREYTON TN	Rk	TYGERH TN	Rk	SWELLEND TN	Rk	HEIDELBERG TN	Rk
1	SSG 564	100.0	1.81	11	1.69	11	1.94	9	1.81	2	1.72	17	1.42	10	2.34	6	1.80	17	1.72	18
2	Sabbi Erica	102.7	1.85	6	1.74	8	2.01	5	1.74	3	1.80	10	1.47	4	2.21	22	2.08	3	1.78	11
3	Sabbi Nemesia	100.8	1.82	9	1.64	15	1.84	18	1.63	12	1.76	13	1.60	1	2.26	12	2.00	7	1.82	10
4	S5	100.6	1.82	10	1.78	5	1.93	11	1.53	22	1.79	11	1.44	7	2.24	17	1.97	11	1.85	7
5	Puma	99.0	1.79	15	1.73	9	1.91	13	1.65	10	1.67	19	1.31	20	2.22	20	2.07	4	1.73	17
6	S6	91.1	1.65	24	1.53	24	1.77	22	1.46	24	1.67	18	1.33	17	2.24	15	1.68	25	1.48	24
7	S7	90.6	1.64	25	1.51	25	1.72	24	1.43	25	1.63	24	1.31	21	2.18	23	1.68	24	1.62	23
8	98-010-01	97.2	1.75	18	1.63	17	1.93	12	1.56	21	1.74	16	1.26	23	2.34	7	1.83	15	1.74	15
9	98-050-11	94.0	1.70	20	1.60	19	1.90	14	1.51	23	1.67	21	1.15	25	2.25	14	1.78	20	1.71	19
10	98-108-01	96.5	1.74	19	1.64	16	1.79	21	1.59	19	1.60	25	1.48	3	2.26	13	1.72	22	1.86	6
11	99-032-01	97.4	1.76	16	1.59	21	1.80	19	1.57	20	1.64	23	1.46	5	2.17	24	1.79	19	2.05	1
12	99-043-01	93.5	1.69	21	1.63	18	1.80	20	1.63	13	1.75	14	1.32	19	2.22	21	1.78	21	1.37	25
13	99-043-02	92.8	1.68	23	1.57	22	1.60	25	1.59	18	1.67	20	1.37	15	2.24	16	1.70	23	1.66	22
14	00-008-02	105.3	1.90	3	1.76	6	2.03	3	1.74	4	1.91	4	1.43	9	2.40	4	2.00	8	1.93	4
15	B05/10	110.9	2.00	1	1.88	1	2.29	1	1.73	6	1.94	2	1.53	2	2.49	1	2.14	2	2.02	2
16	B05/19	97.4	1.76	17	1.60	20	1.86	17	1.62	15	1.80	9	1.23	24	2.37	5	1.84	14	1.74	14
17	00-006-02	101.6	1.83	7	1.79	3	1.88	15	1.68	8	1.85	7	1.38	12	2.23	18	2.04	5	1.82	9
18	00-009-03	105.1	1.90	4	1.78	4	1.99	6	1.73	5	1.96	1	1.43	8	2.42	3	2.04	6	1.82	8
19	01-016-02D	102.8	1.86	5	1.68	12	1.95	8	1.89	1	1.81	8	1.38	13	2.22	19	1.98	10	1.93	3
20	01-019-02D	99.9	1.80	12	1.68	14	1.88	16	1.71	7	1.91	3	1.42	11	2.28	11	1.84	13	1.71	20
21	01-026-01D	99.4	1.79	14	1.72	10	1.94	10	1.64	11	1.75	15	1.45	6	2.31	9	1.80	16	1.74	13
22	01-026-02D	99.5	1.80	13	1.68	13	1.95	7	1.66	9	1.77	12	1.35	16	2.33	8	1.90	12	1.73	16
23	01-039-07D	106.2	1.92	2	1.84	2	2.16	2	1.62	17	1.86	6	1.37	14	2.43	2	2.19	1	1.87	5
24	02-054-01D	101.4	1.83	8	1.75	7	2.02	4	1.62	14	1.89	5	1.32	18	2.31	10	1.98	9	1.75	12
25	06-900-01	92.9	1.68	22	1.56	23	1.75	23	1.62	16	1.66	22	1.28	22	2.10	25	1.79	18	1.66	21
GEMIDD/AVERAGE			1.79		1.68		1.91		1.64		1.77		1.38		2.28		1.90		1.76	
KV/CV			5.4		4.0		4.4		5.1		4.6		8.7		4.0		5.1		7.5	
KBV/LSD (90)			0.06		0.07		0.09		0.09		0.09		0.13		0.10		0.10		0.14	
KBV/LSD (95)			0.08		0.09		0.11		0.11		0.11		0.16		0.13		0.13		0.18	



TABEL 11: Gemiddelde korrelstikstof van inskrywings in die LE proef vir die Wes-Rûens

TABLE 11: Mean kernel nitrogen of entries in the LE trial for the Western Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. TN % van std. <i>Mean rel.</i>	<i>Western Rûens</i>		Lokalteite/Localities					
		<i>TN % of std.</i>	Gemiddelde <i>Mean</i>	<i>TN</i>	<i>Rk</i>	CALEDON		GREYTON		TYGERH
					<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>
1	SSG 564	100.0	1.83	10	1.72	17	1.42	10	2.34	6
2	<sup>Sabbi</sup> Erica	100.0	1.83	9	1.80	10	1.47	4	2.21	22
3	<sup>Sabbi</sup> Nemesia	102.6	1.87	5	1.76	13	1.60	1	2.26	12
4	S5	99.8	1.82	11	1.79	11	1.44	7	2.24	17
5	Puma	94.9	1.73	22	1.67	19	1.31	20	2.22	20
6	S6	95.6	1.75	21	1.67	18	1.33	17	2.24	15
7	S7	93.4	1.71	23	1.63	24	1.31	21	2.18	23
8	98-010-01	97.4	1.78	16	1.74	16	1.26	23	2.34	7
9	98-050-11	92.5	1.69	24	1.67	21	1.15	25	2.25	14
10	98-108-01	97.4	1.78	16	1.60	25	1.48	3	2.26	13
11	99-032-01	96.2	1.76	20	1.64	23	1.46	5	2.17	24
12	99-043-01	96.5	1.76	18	1.75	14	1.32	19	2.22	21
13	99-043-02	96.4	1.76	19	1.67	20	1.37	15	2.24	16
14	00-008-02	104.7	1.91	3	1.91	4	1.43	9	2.40	4
15	B05/10	108.8	1.99	1	1.94	2	1.53	2	2.49	1
16	B05/19	98.5	1.80	15	1.80	9	1.23	24	2.37	5
17	00-006-02	99.6	1.82	12	1.85	7	1.38	12	2.23	18
18	00-009-03	106.0	1.94	2	1.96	1	1.43	8	2.42	3
19	01-016-02D	98.7	1.80	14	1.81	8	1.38	13	2.22	19
20	01-019-02D	102.4	1.87	6	1.91	3	1.42	11	2.28	11
21	01-026-01D	100.5	1.84	8	1.75	15	1.45	6	2.31	9
22	01-026-02D	99.5	1.82	13	1.77	12	1.35	16	2.33	8
23	01-039-07D	103.3	1.89	4	1.86	6	1.37	14	2.43	2
24	02-054-01D	100.7	1.84	7	1.89	5	1.32	18	2.31	10
25	06-900-01	92.0	1.68	25	1.66	22	1.28	22	2.10	25
GEMIDD/AVERAGE			1.81		1.77		1.38		2.28	
KV/CV			5.5		4.6		8.7		4.0	
KBV/LSD (90)			0.10		0.09		0.13		0.10	
KBV/LSD (95)			0.13		0.11		0.16		0.13	

TABEL 12: Gemiddelde korrelstikstof van inskrywings in die LE proef vir die Suid-Rûens

TABLE 12: Mean kernel nitrogen of entries in the LE trial for the Southern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. TN % van std. <i>Mean rel.</i>	<i>Southern Rûens</i> Gemiddelde <i>Mean</i>		NAPIER		KLIPDALE		BREDASDORP	
		<i>TN % of std.</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>
1	SSG 564	100.0	1.81	7	1.69	11	1.94	9	1.81	2
2	Sabbi Erica	100.9	1.83	6	1.74	8	2.01	5	1.74	3
3	Sabbi Nemesia	93.9	1.70	16	1.64	15	1.84	18	1.63	12
4	S5	96.3	1.75	14	1.78	5	1.93	11	1.53	22
5	Puma	97.2	1.76	12	1.73	9	1.91	13	1.65	10
6	S6	87.5	1.59	23	1.53	24	1.77	22	1.46	24
7	S7	85.7	1.55	25	1.51	25	1.72	24	1.43	25
8	98-010-01	94.1	1.71	15	1.63	17	1.93	12	1.56	21
9	98-050-11	92.1	1.67	20	1.60	19	1.90	14	1.51	23
10	98-108-01	92.3	1.67	19	1.64	16	1.79	21	1.59	19
11	99-032-01	91.2	1.65	21	1.59	21	1.80	19	1.57	20
12	99-043-01	93.0	1.69	18	1.63	18	1.80	20	1.63	13
13	99-043-02	87.5	1.59	23	1.57	22	1.60	25	1.59	18
14	00-008-02	101.7	1.84	3	1.76	6	2.03	3	1.74	4
15	B05/10	108.5	1.97	1	1.88	1	2.29	1	1.73	6
16	B05/19	93.4	1.69	17	1.60	20	1.86	17	1.62	15
17	00-006-02	98.3	1.78	9	1.79	3	1.88	15	1.68	8
18	00-009-03	101.1	1.83	5	1.78	4	1.99	6	1.73	5
19	01-016-02D	101.5	1.84	4	1.68	12	1.95	8	1.89	1
20	01-019-02D	96.9	1.76	13	1.68	14	1.88	16	1.71	7
21	01-026-01D	97.4	1.77	10	1.72	10	1.94	10	1.64	11
22	01-026-02D	97.2	1.76	11	1.68	13	1.95	7	1.66	9
23	01-039-07D	103.3	1.87	2	1.84	2	2.16	2	1.62	17
24	02-054-01D	99.1	1.80	8	1.75	7	2.02	4	1.62	14
25	06-900-01	90.6	1.64	22	1.56	23	1.75	23	1.62	16
GEMIDD/AVERAGE			1.74		1.68		1.91		1.64	
KV/CV			4.5		4.0		4.4		5.1	
KBV/LSD (90)			0.09		0.07		0.09		0.09	
KBV/LSD (95)			0.12		0.09		0.11		0.11	

TABEL 13: Gemiddelde korrelstikstof van inskrywings in die LE proef vir die Oos-Rûens

TABLE 13: Mean kernel nitrogen of entries in the LE trial for the Eastern Rûens

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Gem.rel. TN % van std. <i>Mean rel.</i>	<i>Eastern Rûens</i>		SWELLEND		HEIDELBERG	
		<i>TN % of std.</i>	Gemiddelde <i>Mean</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>	<i>Rk</i>	<i>TN</i>
1	SSG 564	100.0	1.76	19	1.80	17	1.72	18
2	Sabbi Erica	109.7	1.93	5	2.08	3	1.78	11
3	Sabbi Nemesia	108.5	1.91	9	2.00	7	1.82	10
4	S5	108.5	1.91	9	1.97	11	1.85	7
5	Puma	108.0	1.90	11	2.07	4	1.73	17
6	S6	89.8	1.58	24	1.68	25	1.48	24
7	S7	93.8	1.65	23	1.68	24	1.62	23
8	98-010-01	101.4	1.79	16	1.83	15	1.74	15
9	98-050-11	99.1	1.75	20	1.78	20	1.71	19
10	98-108-01	101.7	1.79	14	1.72	22	1.86	6
11	99-032-01	109.1	1.92	8	1.79	19	2.05	1
12	99-043-01	89.5	1.58	25	1.78	21	1.37	25
13	99-043-02	95.5	1.68	22	1.70	23	1.66	22
14	00-008-02	111.6	1.97	3	2.00	8	1.93	4
15	B05/10	118.2	2.08	1	2.14	2	2.02	2
16	B05/19	101.7	1.79	14	1.84	14	1.74	14
17	00-006-02	109.7	1.93	5	2.04	5	1.82	9
18	00-009-03	109.7	1.93	5	2.04	6	1.82	8
19	01-016-02D	111.1	1.96	4	1.98	10	1.93	3
20	01-019-02D	100.9	1.78	17	1.84	13	1.71	20
21	01-026-01D	100.6	1.77	18	1.80	16	1.74	13
22	01-026-02D	103.1	1.82	13	1.90	12	1.73	16
23	01-039-07D	115.3	2.03	2	2.19	1	1.87	5
24	02-054-01D	106.0	1.87	12	1.98	9	1.75	12
25	06-900-01	98.0	1.73	21	1.79	18	1.66	21
GEMIDD/AVERAGE			1.83		1.90		1.76	
KV/CV			6.3		5.1		7.5	
KBV/LSD (90)			0.16		0.10		0.14	
KBV/LSD (95)			0.21		0.13		0.18	

TABEL 14: Gemiddelde ontkiemings energie (4ml72h) en rangordes van inskrywings in die LE proef vir die Rûens, 2008

TABLE 14: Mean germination energy (4ml72h) and rankings of entries in the LE trial for the Rûens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem.rel. opb. % van std. Rûens			Lokalteite/Localities															
		Mean rel. 4ml72h % of std.	Gemiddelde Mean 4ml72h	Rk	NAPIER 4ml72h	Rk	KLIPDALE 4ml72h	Rk	BREDASDORP 4ml72h	Rk	CALEDON 4ml72h	Rk	GREYTON 4ml72h	Rk	TYGERH 4ml72h	Rk	SWELLEND 4ml72h	Rk	HEIDELBERG 4ml72h	Rk
1	SSG 564	100.0	90	8	92.0	10	100.0	5	100.0	1	93.0	15	92.0	6	78.0	8	96.0	8	71.0	15
2	Sabbi Erica	91.8	83	20	78.0	22	95.0	15	99.0	9	87.0	21	90.0	11	57.0	21	97.0	3	60.0	19
3	Sabbi Nemesia	100.6	91	6	91.0	13	91.0	21	93.0	16	98.0	3	100.0	2	85.0	4	90.0	17	78.0	11
4	S5	101.2	91	4	94.0	6	98.0	13	95.0	14	93.0	13	92.0	7	81.0	6	89.0	18	89.0	4
5	Puma	97.5	88	12	96.0	3	100.0	1	89.0	19	100.0	1	87.0	14	75.0	12	96.0	6	61.0	18
6	S6	67.3	61	24	72.0	24	69.0	25	79.0	22	61.0	25	44.0	24	38.0	25	86.0	21	37.0	23
7	S7	102.8	93	2	100.0	1	99.0	6	94.0	15	88.0	19	88.0	12	85.0	5	88.0	19	100.0	1
8	98-010-01	94.7	86	15	87.0	18	95.0	16	87.0	20	90.0	17	93.0	5	77.0	10	81.0	23	74.0	13
9	98-050-11	97.1	88	13	92.0	9	98.0	12	100.0	6	94.0	11	79.0	17	70.0	15	94.0	11	74.0	14
10	98-108-01	67.2	61	25	64.0	25	86.0	24	76.0	23	79.0	22	26.0	25	48.0	24	72.0	24	34.0	24
11	99-032-01	94.6	85	18	74.0	23	92.0	19	100.0	5	97.0	7	83.0	16	61.0	18	95.0	9	81.0	8
12	99-043-01	95.4	86	14	80.0	21	99.0	7	100.0	4	92.0	16	78.0	19	59.0	20	98.0	2	83.0	7
13	99-043-02	98.6	89	10	92.0	8	100.0	3	92.0	17	98.0	4	90.0	10	53.0	23	97.0	5	90.0	3
14	00-008-02	98.5	89	11	91.0	12	96.0	14	96.0	11	89.0	18	93.0	4	75.0	13	92.0	15	79.0	10
15	B05/10	67.5	61	23	86.0	19	88.0	23	67.0	24	73.0	24	57.0	23	53.0	22	37.0	25	26.0	25
16	B05/19	93.9	85	19	88.0	17	92.0	20	95.0	12	88.0	20	87.0	13	67.0	16	94.0	10	67.0	17
17	00-006-02	84.8	77	22	95.0	4	91.0	22	59.0	25	75.0	23	79.0	18	77.0	9	85.0	22	51.0	22
18	00-009-03	94.7	86	15	88.0	16	93.0	17	95.0	13	98.0	2	69.0	20	93.0	2	91.0	16	57.0	20
19	01-016-02D	100.6	91	6	89.0	15	99.0	9	100.0	8	96.0	8	90.0	9	80.0	7	93.0	14	79.0	9
20	01-019-02D	100.7	91	5	92.0	7	100.0	4	100.0	2	93.0	14	93.0	3	75.0	14	97.0	4	77.0	12
21	01-026-01D	104.8	95	1	83.0	20	99.0	10	98.0	10	94.0	12	91.0	8	93.0	1	99.0	1	100.0	2
22	01-026-02D	100.0	90	8	97.0	2	99.0	8	100.0	3	97.0	6	84.0	15	64.0	17	96.0	7	85.0	6
23	01-039-07D	94.7	86	15	91.0	11	100.0	2	100.0	7	95.0	9	60.0	22	75.0	11	93.0	13	70.0	16
24	02-054-01D	102.8	93	2	90.0	14	93.0	18	91.0	18	95.0	10	100.0	1	93.0	3	93.0	12	87.0	5
25	06-900-01	88.8	80	21	94.0	5	99.0	11	87.0	21	98.0	5	62.0	21	60.0	19	88.0	20	53.0	21
GEMIDD/AVERAGE			84		88		95		92		90		80		71		89		71	
KV/CV			12.0		9.8		3.7		7.3		5.4		14.0		21.8		9		21	
KBV/LSD (0.10)			7		9		4		7		5		12		16		9		16	
KBV/LSD (0.05)			9		12		5		9		7		15		21		11		21	

TABEL 15: Gemiddelde ontkiemings energie (8ml72h) en rangordes van inskrywings in die LE proef vir die Rûens, 2008

TABLE 15: Mean germination energy (8ml72h) and rankings of entries in the LE trial for the Rûens, 2008

Insk.nr. Entr.no.	Inskrywing Entry	Gem.rel. opb. % van std. Rûens			Lokalteite/Localities															
		Mean rel. 8ml72h % of std.	Gemiddelde Mean 8ml72h	Rk	NAPIER		KLIPDALE		BREDASDORP		CALEDON		GREYTON		TYGERH		SWELLEND		HEIDELBERG	
1	SSG 564	100.0	76	13	93.0	8	80.0	13	39.0	23	82.0	15	100.0	2	64.0	13	82.0	4	68.0	12
2	Sabbi Erica	105.4	80	7	96.0	4	78.0	16	64.0	9	96.0	2	83.0	10	64.0	11	70.0	12	90.0	3
3	Sabbi Nemesia	107.1	81	4	92.0	10	83.0	10	70.0	6	77.0	18	100.0	3	57.0	16	75.0	8	97.0	1
4	S5	96.1	73	16	83.0	22	77.0	17	64.0	10	87.0	7	80.0	15	51.0	19	71.0	11	71.0	10
5	Puma	82.7	63	21	87.0	17	79.0	14	36.0	25	69.0	22	64.0	22	64.0	12	41.0	22	63.0	15
6	S6	58.4	44	25	85.0	19	61.0	23	37.0	24	55.0	25	51.0	25	19.0	25	25.0	25	22.0	25
7	S7	106.3	81	5	86.0	18	91.0	5	72.0	4	88.0	6	91.0	7	75.0	4	80.0	7	63.0	16
8	98-010-01	112.3	85	1	95.0	5	95.0	4	71.0	5	83.0	11	93.0	6	82.0	1	82.0	5	82.0	5
9	98-050-11	109.2	83	2	97.0	3	95.0	3	83.0	1	92.0	5	95.0	5	63.0	14	73.0	10	66.0	13
10	98-108-01	74.7	57	22	81.0	23	65.0	22	48.0	19	83.0	13	62.0	23	31.0	24	53.0	20	31.0	24
11	99-032-01	100.5	76	12	93.0	9	82.0	11	72.0	2	82.0	14	82.0	11	73.0	6	67.0	14	60.0	18
12	99-043-01	97.2	74	14	88.0	15	95.0	2	65.0	8	98.0	1	68.0	21	46.0	21	74.0	9	57.0	21
13	99-043-02	100.8	77	11	97.0	1	96.0	1	66.0	7	78.0	17	80.0	16	74.0	5	63.0	18	59.0	19
14	00-008-02	89.6	68	19	72.0	24	66.0	21	55.0	15	79.0	16	81.0	14	52.0	18	63.0	17	77.0	7
15	B05/10	74.7	57	22	63.0	25	47.0	25	52.0	16	86.0	9	77.0	18	40.0	23	36.0	24	53.0	22
16	B05/19	90.5	69	18	92.0	11	79.0	15	41.0	22	73.0	21	75.0	20	65.0	10	60.0	19	65.0	14
17	00-006-02	69.7	53	24	83.0	21	55.0	24	47.0	20	67.0	24	59.0	24	42.0	22	40.0	23	31.0	23
18	00-009-03	97.0	74	15	97.0	2	85.0	8	46.0	21	76.0	19	76.0	19	68.0	9	64.0	16	78.0	6
19	01-016-02D	104.4	79	9	90.0	13	74.0	19	72.0	3	94.0	3	79.0	17	54.0	17	81.0	6	91.0	2
20	01-019-02D	107.7	82	3	95.0	7	89.0	6	55.0	14	93.0	4	82.0	12	70.0	8	88.0	2	83.0	4
21	01-026-01D	106.3	81	5	88.0	16	81.0	12	58.0	12	83.0	12	100.0	1	80.0	2	85.0	3	71.0	11
22	01-026-02D	104.4	79	9	95.0	6	72.0	20	49.0	18	86.0	8	91.0	8	78.0	3	88.0	1	76.0	9
23	01-039-07D	105.1	80	8	92.0	12	89.0	7	62.0	11	85.0	10	96.0	4	72.0	7	67.0	13	76.0	8
24	02-054-01D	84.4	64	20	84.0	20	75.0	18	51.0	17	68.0	23	81.0	13	48.0	20	48.0	21	58.0	20
25	06-900-01	95.1	72	17	90.0	14	85.0	9	56.0	13	74.0	20	87.0	9	58.0	15	66.0	15	62.0	17
GEMIDD/AVERAGE			72		89		79		57		81		81		60		66		66	
KV/CV			12.7		6.2		10.7		21.1		11.7		9.4		15.3		11		18	
KBV/LSD (0.10)			7		6		9		13		10		8		10		8		13	
KBV/LSD (0.05)			9		8		12		17		13		11		12		10		16	

TABEL 16: Agronomiese eienskappe van die inskrywings in die LE proef vir die Wes-Rûens, 2008

TABLE 16: Agronomic characteristics of the entries in the Line Evaluation Trial in the Western Rûens, 2008

Insk.nr. Entry no.	Inskrywing Entry	General appearance	Stage of Ripeness	Straw		
				Length	Height (cm)	Strength
1	SSG 564	5.4	2.9	M	64	4.8
2	Sabbl Erica	5.7	2.7	M	64	4.9
3	Sabbl Nemesia	5.8	3.2	MK	60	4.9
4	S5	5.7	2.7	MK	57	4.9
5	Puma	5.7	3.3	M	68	5.0
6	S6	5.7	3.3	M	61	4.8
7	S7	5.1	3.5	MK	55	4.9
8	98-010-01	5.2	2.9	M	60	4.9
9	98-050-11	5.3	3.1	MK	58	4.9
10	98-108-01	5.5	3.4	MK	58	4.9
11	99-032-01	5.8	3.0	M	61	4.9
12	99-043-01	6.4	3.3	ML	70	4.9
13	99-043-02	6.0	3.6	ML	69	4.9
14	00-008-02	5.8	2.7	ML	75	4.9
15	B05/10	5.0	3.0	M	58	5.0
16	B05/19	5.7	3.5	ML	71	4.9
17	00-006-02	6.1	2.8	M	66	4.9
18	00-009-03	5.8	2.5	ML	73	4.8
19	01-016-02D	4.9	3.0	M	63	4.9
20	01-019-02D	5.5	2.7	ML	76	5.0
21	01-026-01D	5.9	3.0	M	68	5.0
22	01-026-02D	6.5	2.8	M	68	5.0
23	01-039-07D	5.5	2.5	M	63	5.0
24	02-054-01D	5.7	3.3	M	61	5.0
25	06-900-01	5.5	3.9	M	62	5.0

(Localities: Caledon, Rietpoel, Greyton )

**Legend:****General appearance**

- 9 - Good  
1 - Bad

**Stage of Ripeness**

- 1 - Early  
5 - Late

**Straw Length**

- S - Short  
MS - Medium short  
M - Medium  
ML - Medium long  
L - Long

**Straw strength**

- 1 - No resistance to lodging  
5 - Total resistance to lodging

TABEL 17: Agronomiese eienskappe van die inskrywings in die LE proef vir die Suid-Rüens, 2008

TABLE 17: Agronomic characteristics of the entries in the LE trial in the Southern Rüens, 2008

Insk.nr. Entry no.	Inskrywing Entry	General appearance	Stage of Ripeness	Straw		
				Length	Height (cm)	Strength
1	SSG 564	5.3	3.0	M	71	4.6
2	sabb. Erica	5.3	3.2	M	63	4.8
3	sabb. Nemesia	4.8	3.3	MK	58	4.8
4	S5	5.9	3.3	MK	58	5.0
5	Puma	5.6	4.3	M	67	5.0
6	S6	6.0	4.1	M	69	5.0
7	S7	5.5	3.8	M	62	5.0
8	98-010-01	5.9	3.3	M	63	5.0
9	98-050-11	4.8	4.0	MK	60	5.0
10	98-108-01	5.0	3.5	MK	62	5.0
11	99-032-01	5.3	3.8	M	66	5.0
12	99-043-01	5.8	4.0	M	69	5.0
13	99-043-02	5.6	4.1	M	67	5.0
14	00-008-02	5.0	3.5	ML	74	4.7
15	B05/10	5.7	2.8	M	64	5.0
16	B05/19	5.2	4.1	M	70	4.9
17	00-006-02	5.7	3.3	M	68	4.8
18	00-009-03	4.9	3.7	ML	73	4.8
19	01-016-02D	4.7	3.4	M	64	4.8
20	01-019-02D	5.2	3.4	ML	75	4.7
21	01-026-01D	5.5	3.1	M	68	5.0
22	01-026-02D	5.7	3.0	M	70	4.9
23	01-039-07D	5.1	3.3	M	62	5.0
24	02-054-01D	5.5	3.2	M	62	5.0
25	06-900-01	5.6	3.8	M	67	4.9

(Localities: Napier, Klipdale, Bredasdorp)

**Legend:****General appearance**9 - Good  
1 - Bad**Straw Length**S - Short  
MS - Medium short  
M - Medium  
ML - Medium long  
L - Long**Stage of Ripeness**1 - Early  
5 - Late**Straw strength**1 - No resistance to lodging  
5 - Total resistance to lodging

TABEL 18: Agronomiese eienskappe van die inskrywings in die LE proef vir die Oos-Rûens, 2008

TABLE 18: Agronomic characteristics of the entries in the Line Evaluation Trial in the Eastern Rûens, 2008

Insk.nr. Entry no.	Inskrywing Entry	General appearance	Stage of Ripeness	Straw		
				Length	Height (cm)	Strength
1	SSG 564	5.4	3.0	M	66	4.7
2	Sabb/ Erica	5.6	2.9	M	67	4.9
3	Sabb/ Nemesia	5.1	3.3	MK	57	5.0
4	S5	5.3	2.5	MK	54	5.0
5	Puma	5.8	3.9	M	61	5.0
6	S6	5.8	4.1	M	60	5.0
7	S7	4.5	3.6	MK	51	5.0
8	98-010-01	5.6	2.6	M	61	5.0
9	98-050-11	4.8	3.6	MK	55	5.0
10	98-108-01	5.3	3.7	MK	56	5.0
11	99-032-01	4.9	3.6	MK	57	4.9
12	99-043-01	6.0	3.2	M	64	5.0
13	99-043-02	5.7	3.9	M	65	5.0
14	00-008-02	5.3	2.9	ML	76	4.9
15	B05/10	5.6	2.4	M	67	5.0
16	B05/19	5.6	3.1	M	69	4.9
17	00-006-02	5.6	2.1	M	65	4.9
18	00-009-03	4.9	2.7	ML	70	4.9
19	01-016-02D	4.3	2.9	M	66	4.7
20	01-019-02D	5.1	2.1	ML	76	4.3
21	01-026-01D	5.7	2.3	M	65	5.0
22	01-026-02D	5.8	2.1	M	65	5.0
23	01-039-07D	5.4	1.8	M	65	5.0
24	02-054-01D	6.0	2.4	M	66	4.9
25	06-900-01	6.1	3.5	ML	71	5.0

(Localities: Swellendam, Heidelberg)

**Legend:****General appearance**

9 - Good

1 - Bad

**Straw Length**

S - Short

MS - Medium short

M - Medium

ML - Medium long

L - Long

**Stage of Ripeness**

1 - Early

5 - Late

**Straw strength**

1 - No resistance to lodging

5 - Total resistance to lodging



TABEL 19: Siektesings van inskrywings in die LE proef by Caledon (Wes-Rûens), 200

TABLE 19: Disease readings of entries in the LE Trial at Caledon (Western Rûens), 200

Entry nr.	Entry	Leaf rust	Net blotch net form	Net blotch spot form	Scald
1	SSG 564	40MS	0	1	0
2	<sup>Sabbi</sup> Erica	40MS	0	2	9
3	<sup>Sabbi</sup> Nemesia	0	0	4	9
4	S5	TMR	0	4	9
5	Puma	25MS	3	4	7
6	S6	40MS	1	2	0
7	S7	5MR	0	2	1
8	98-010-01	40MS	0	1	0
9	98-050-11	10MR	0	1	5
10	98-108-01	5MR	0	3	0
11	99-032-01	R	0	1	0
12	99-043-01	15MR	0	1	7
13	99-043-02	30MR	0	1	0
14	00-008-02	5MR	0	1	0
15	B05/10	0	0	1	5
16	B05/19	20MS	0	1	5
17	00-006-02	5MR	1	4	7
18	00-009-03	10MR	1	1	2
19	01-016-02D	80MS	0	2	0
20	01-019-02D	60MR	0	1	0
21	01-026-01D	15MR	n	n	9
22	01-026-02D	60MS	n	n	9
23	01-039-07D	60MS	n	n	9
24	02-054-01D	40MR	n	1	1
25	06-900-01	60MS	0	1	0

Reading taken on

23/10/2008

**Scald and Netblotch**

1 = lightly infested

9 = heavily infested

n = no reading possible

**Leaf rus**

0 = no disease or dead leaf

t = trace amounts

R = resistance

MR = moderate resistance

MS = moderate susceptible

S = susceptible

TABEL 20: Siektelesings van inskrywings in die LE proef by Riviersonderend, 2008

TABLE 20: Disease readings of entries in the LE Trial at Riviersonderend, 2008

Entry nr.	Entry	Leaf rust	Net blotch net form	Net blotch spot form	Scald
1	SSG 564	60MR	0	0	0
2	<sup>Sabbi</sup> Erica	40MD	0	0	0
3	<sup>Sabbi</sup> Nemesia	0	0	2	5
4	S5	R	0	1	1
5	Puma	80MS	1	1	0
6	S6	10MR	0	1	0
7	S7	10MR	1	1	T
8	98-010-01	10MR	1	1	0
9	98-050-11	R	1	0	T
10	98-108-01	R	0	1	T
11	99-032-01	R	1	1	T
12	99-043-01	R	1	1	0
13	99-043-02	10MR	1	0	0
14	00-008-02	0	0	1	T
15	B05/10	R	1	3	T
16	B05/19	60MS	4	1	3
17	00-006-02	TR	2	4	0
18	00-009-03	TR	1	4	0
19	01-016-02D	10MR	1	6	0
20	01-019-02D	5MR	0	1	0
21	01-026-01D	40MR	3	0	T
22	01-026-02D	40MR	4	0	T
23	01-039-07D	40MS	5	0	T
24	02-054-01D	40MS	2	0	0
25	06-900-01	60MR	1	1	0

Reading taken on

10/10/2008

**Scald and Netblotch**

1 = lightly infested

9 = heavily infested

n = no reading possible

**Leaf rus**

0 = no disease or dead leaf

t = trace amounts

R = resistance

MR = moderate resistance

MS = moderate susceptible

S = susceptible

TABEL 21: Produksiestatistiek van die proeflokalityte vir die 2008 Lyn Evaluasie Proef in die Rûens.

TABLE 21: Production statistics of the trial localities for the 2008 Line Evaluation Trial in the Rûens.

AREA	LOKALITEIT <i>LOCALITY</i>	PLAASNAAM <i>FARM NAME</i>	VERANTW <i>RESPONSIBLE</i>	ROTASIE 2007 <i>ROTATION 2007</i>	BEMESTING (Kg/Ha)		PLANT DATUM	PLANT DIGTHEID
					N	P		
Wes-Rûens (OA)	Caledon	Dunghye Park	SABBI	Braak/Fallow	30	16	19.05.08	220
	Rietpoel	Rietkuil	SABBI	Medics	29	42	16.06.08	220
	Greyton	Serjeantsrivier	SABBI	Koring/Wheat	19	15	29.05.08	220
	Tygerhoek	Tygerhoek Proefplaas	SABBI	Lupiëne/Lupins	32	16	02.05.08	220
Suid-Rûens (OA)	Napier	Panorama	SABBI	Gars/Barley	34	17	13.05.08	220
	Klipdale	Hermanusheuwel	SABBI	Koring/Wheat	23	11	13.05.08	220
	Bredasdorp	Môreilig	SABBI	Gars/Barley	22	11	02.05.08	220
	Protem	Goedgeleë	SABBI	Koring/Wheat	23	12	02.05.08	220
Oos-Rûens (SSK)	Napkei	Mopama	SABBI	Gars/Barley	16	8	29.04.08	200
	Swellendam	Kosani	SABBI	Koring/Wheat	16	8	30.04.08	200
	Heidelberg	Voorstekop	SABBI	Canola	22	11	29.04.08	200
	Heidelberg Vlakte	Duinerug	SABBI	Koring/Wheat	16	8	29.04.08	200

TABEL 22: Lys van inskrywings in die Lyn Evaluasieproef in die Rûens, 2008

TABLE 22: List of entries in the Line Evaluation trial in the Rûens, 2008

Insk.nr. <i>Entr.no.</i>	Inskrywing <i>Entry</i>	Jare in LE proef <i>Years in LE trial</i>	Program <i>Program</i>
1	SSG 564	Control	Sabbi
2	<small>Sabbi</small> Erica	Control	Sabbi
3	<small>Sabbi</small> Nemesia	Control	Sabbi
4	S5	Experimental	Sabbi
5	Puma	Experimental	SGI
6	S6	Experimental	Sabbi
7	S7	Experimental	Sabbi
8	98-010-01	4	Sabbi
9	98-050-11	3	Sabbi
10	98-108-01	3	Sabbi
11	99-032-01	3	Sabbi
12	99-043-01	2	Sabbi
13	99-043-02	2	Sabbi
14	00-008-02	2	Sabbi
15	B05/10	1	SGI
16	B05/19	1	SGI
17	00-006-02	1	Sabbi
18	00-009-03	1	Sabbi
19	01-016-02D	1	Sabbi
20	01-019-02D	1	Sabbi
21	01-026-01D	1	Sabbi
22	01-026-02D	1	Sabbi
23	01-039-07D	1	Sabbi
24	02-054-01D	1	Sabbi
25	06-900-01	1	Sabbi

FIGURE 1: Rainfall patterns for Western Rûens: Long term vs. 2008  
Dunghye Park

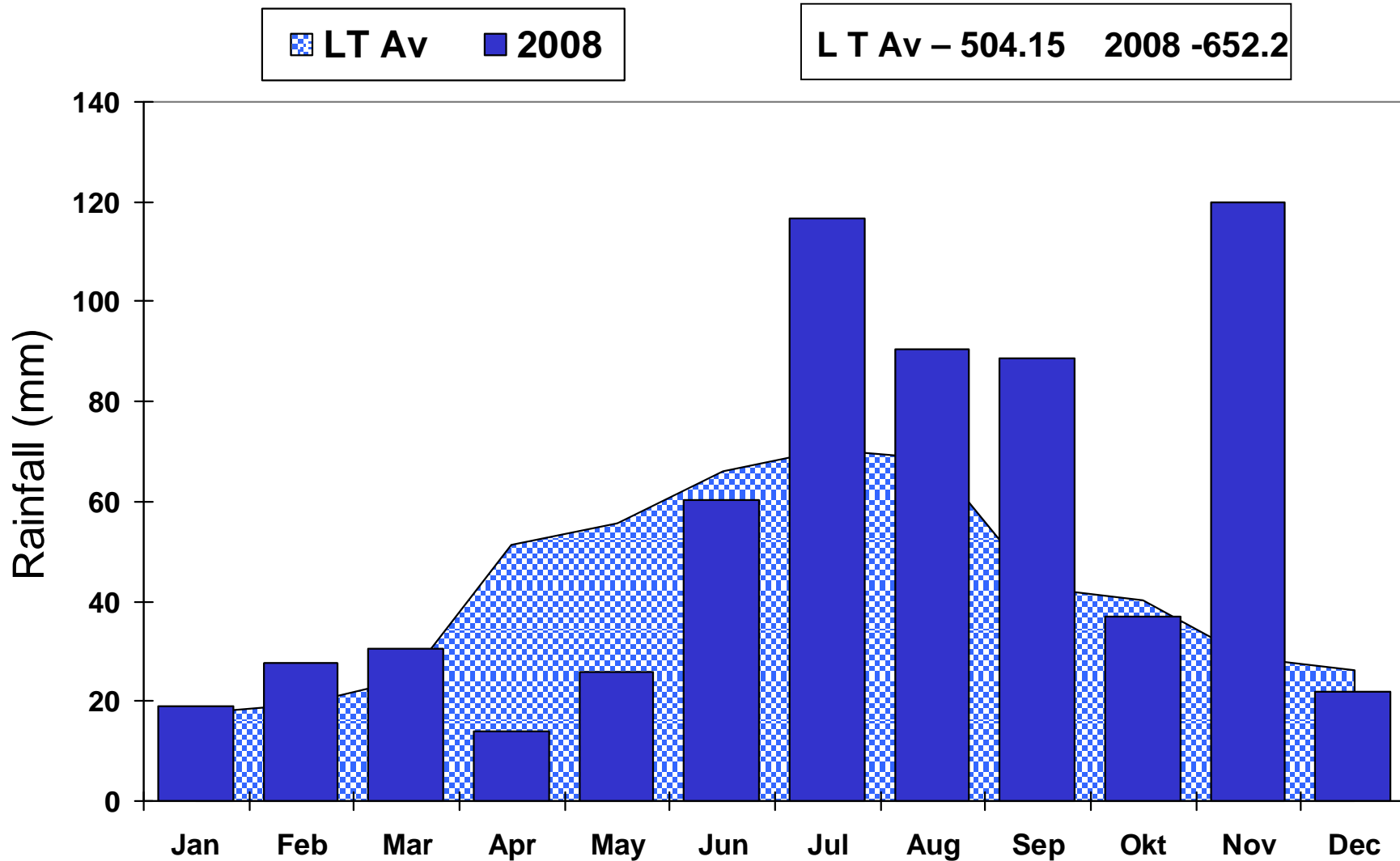


FIGURE 2: Rainfall patterns for Eastern Rûens: Long term vs 2008  
Heidelberg

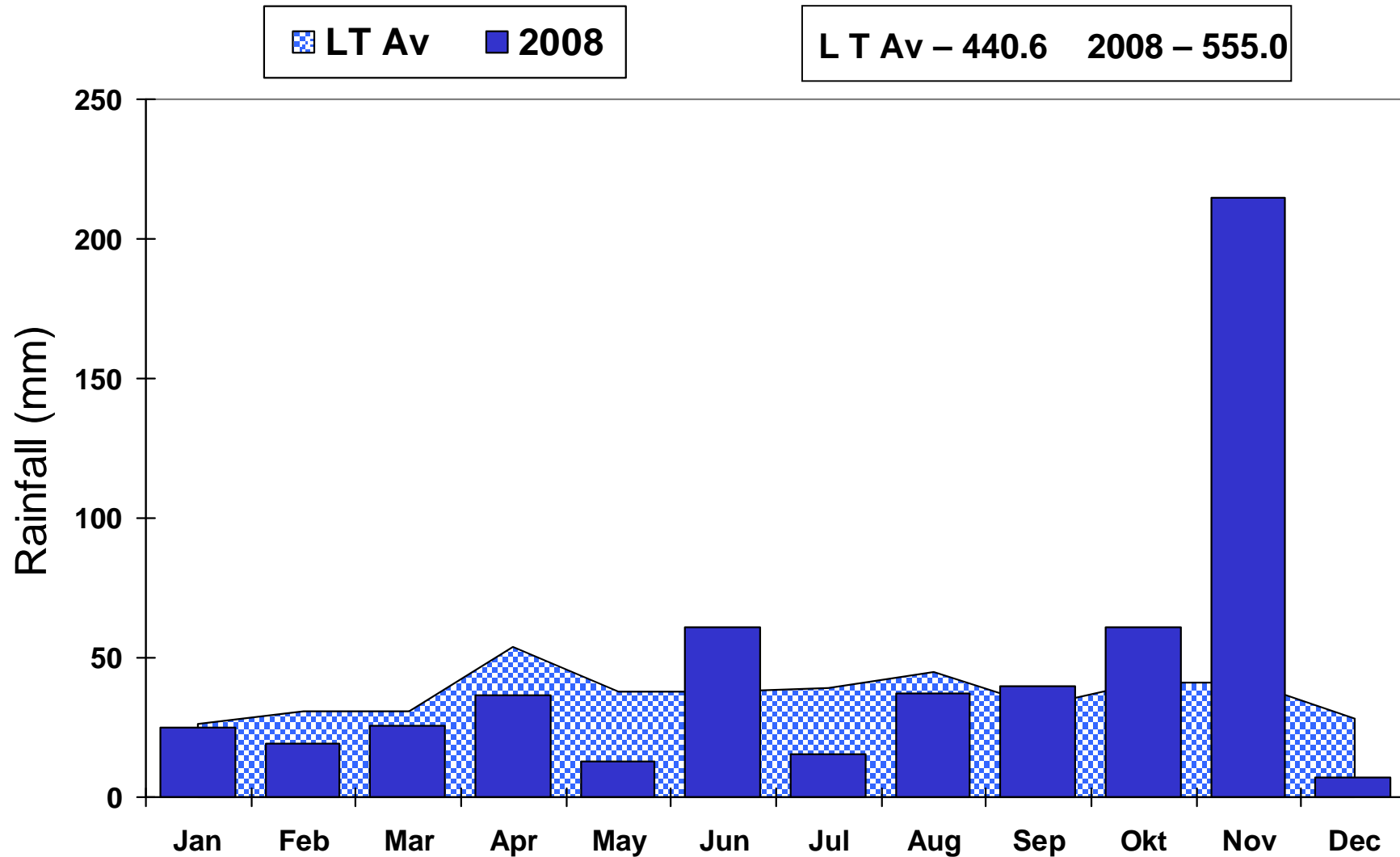


FIGURE 3: Average grain yield and quality parameters for the LE trials in the Rûens, 2008.

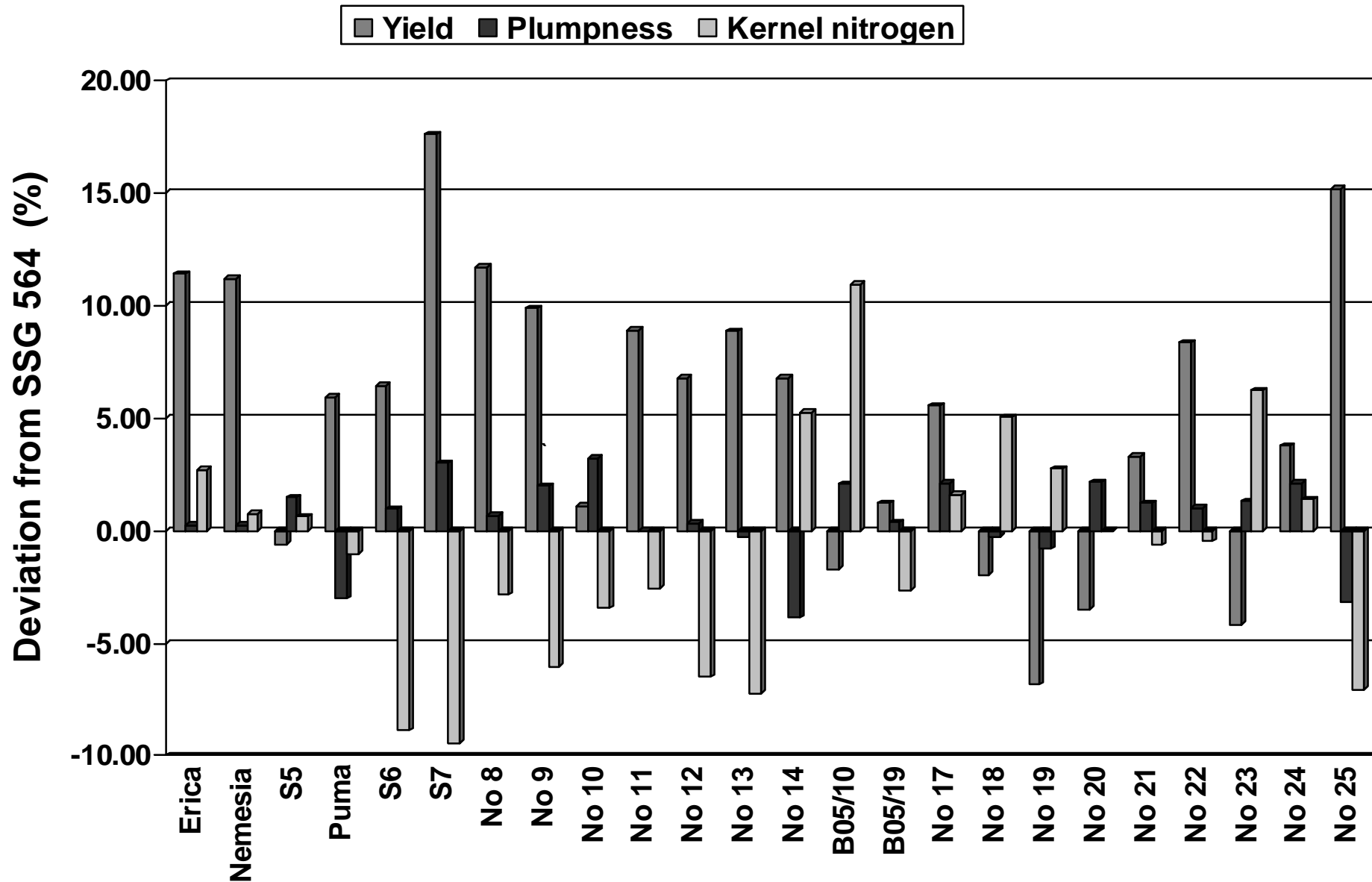


FIGURE 4: Long term relative performance of lines in the LE trial  
2008 (4<sup>th</sup> yrs.)

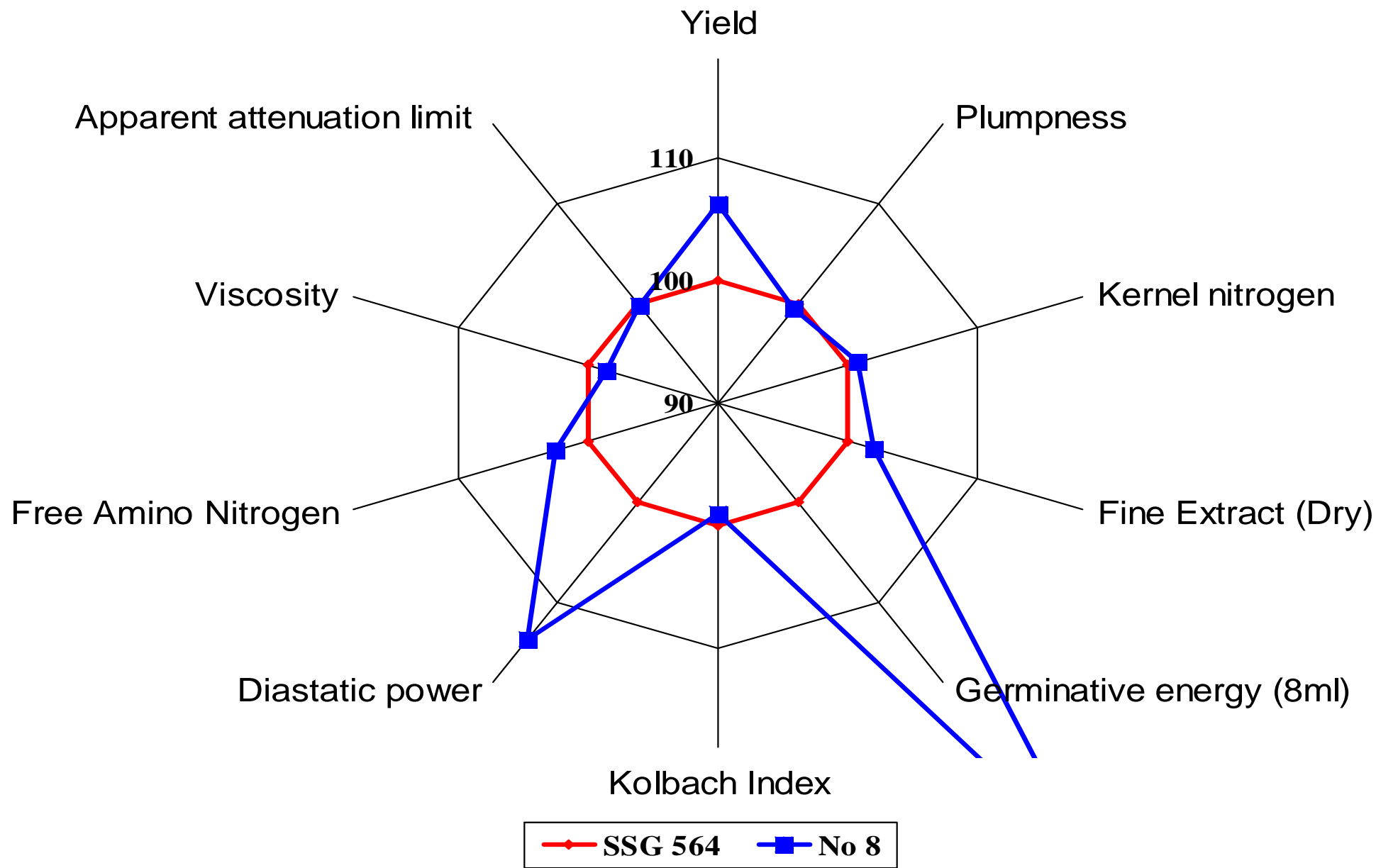




FIGURE 5: Long term relative performance of lines in the LE trial 2008 (3<sup>rd</sup> yrs.)

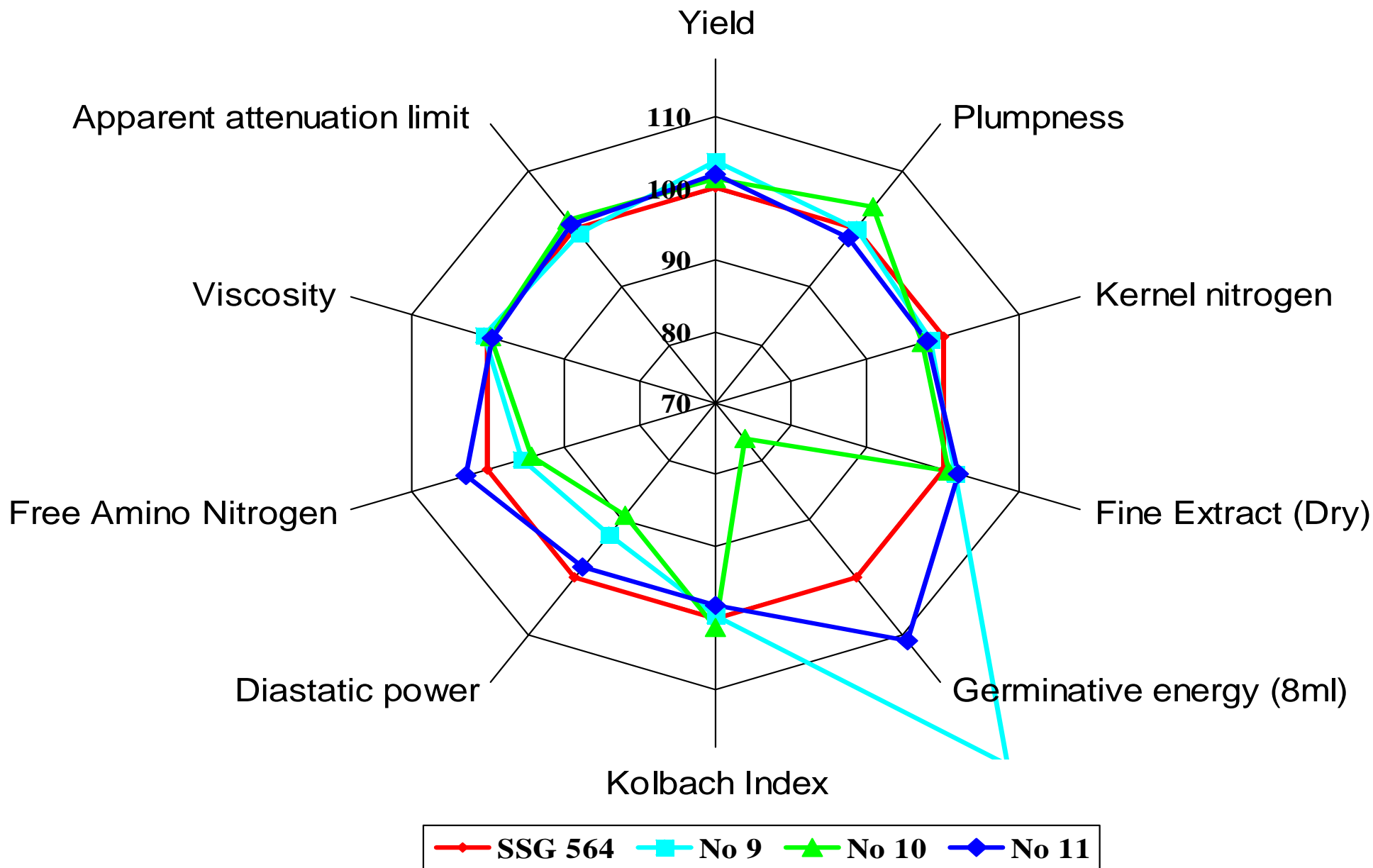


FIGURE 6: Long term relative performance of lines in the LE trial  
2008 (2<sup>nd</sup> yrs.)

