Cultivar Trial Results
Kultivar-proefresultate

2019

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What others say about *Sensako* seed | **Wat sê andere oor *Sensako*-saad**

"SST835 is 'n betroubare en stabiele kultivar wat baie goed aangepas is in ons area. Staanvermoë en roesweerstand is goed. Die groeilengte van die medium groeiers van Sensako, soos SST835, werk goed hier en afdroging vir strooptyd is goed. Ons is tevrede met die kultivar, opbrengs is baie aanvaarbaar". ***- Hendrik Odendaal, Villiers***

"Ons familie plant al sedert die 1980's Sensako koring kultivars. Oor die algemeen is ons baie gelukkig met die hele opbrengs, groeiperiode, staanvermoë en siekte verdraagsaamheid pakket van die SSTs. Die wye reeks van groeiperiodes wat beskikbaar is in die SST koring pakket stel ons goed in staat om ons planttyd goed uit te brei. 'n Ander belangrike eienskap wat baie prominent in die Sensako genetika is, is die stabiliteit oor jare wat gekoppel is aan die kultivars". ***- Nico Botha, Groblersdal***

"Sensako se koring kultivars plant ons al vir 'n baie lang tyd. Vir die omgewing waar ons geleë is, stabiliteit en groeiperiode vir ons baie belangrike faktore wanneer dit by kultivar keuse kom. Die vinnig en medium tot vinnig groeiperiode kultivars is goed aangepas in ons omgewing. Die opbrengste wat behaal word, is ook baie aanvaarbaar. Van die kultivars wat goed by ons presteer is SST835, SST884 en SST8135." ***- Pieter du Plessis, Lichtenburg***

"Die Sensako SST reeks bied n uitstekende keuse van kort, medium en lang groei kultivars. Ons plant seisoen is soms tot 2 maande lank en die wye verskeidenheid van SST kultivars help baie om die lang plantseisoen optimaal te bestuur met die regte kultivars. Ons plant al meer as 20 jaar Sensako koring en een ding is altyd seker, die uitstekende opbrengs potensiaal en meer belangrik, die stabiliteit jaar na jaar van die kultivars. Sensako is ook verbind om die genetiese potensiaal van hul kultivars te verbeter deur n uitstekende teeltprogram in plek te hê, sowel as veldproewe reg oor Suid-Afrika om die nuwe kultivars deeglik te toets. Sensako plant jaarliks by my ook proewe en dit gee my groot gemoedsrus om te sien deur die streng maatreëls waardeur kultivars gaan voor dit kommersieel beskikbaar is". ***- Chris de Villiers, Prieska***

"Ons is baie beïndruk met die goeie stoelvermoë en aarvrugbaarheid wat die Sensako kultivars beskik. Ons het SST8154 die jaar vir die eerste keer geplant en sovêr is ons baie beïndruk. Vir 'n vinnige groeier stoel die kultivar baie goed. Die halms lewer ook are met hoë vrugbaarheid. Die staanvermoë, wat vir ons baie belangrik is, is uitstekend. Wat ook ooglopend is, is hoe groen die blare is. Dit is vir ons 'n goeie teken van hoe gesond die kultivars is en ook die stikstof verbuikings vermoë". ***- Rudolf Burger, Jan Kempdorp***

"Van die kultivars van Sensako, bly SST806 al vir die afgelope 16 jaar vir ons 'n staatmaker. Dit is 'n goeie kultivar met goeie stabiele opbrengs gekoppel aan goeie siekte weerstandbiedendheid en staanvermoë. Dit is ook die eerste kultivar waarmee ons 10 ton per hektaar gestroop het. SST806 se stabiliteit van sand na swaargronde is ongelooflik. Die nuwe kultivars van Sensako proef ons ook nog elke jaar en vind dat hulle ook goeie hoë opbrengste haal".
- Hein Mulke, Douglas

"By ons in die wisselende omgewing van die Wes-Vrystaat presteer SST347 die beste van die Sensako droëlandkultivars. Die kultivar tref die oog en presteer meestal onder wisselende produksie omstandighede. Die kiemkragtigheid van die kultivar is veral 'n bate". ***- Le Grange Odendaal, Wesselsbron***

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WHEAT: Crop Yield Trials

Sensako's wheat trials.
The yield data presented in the tables is data generated from Sensako's own multi-locality yield trials. These trials cover the whole of the irrigation and dryland areas of central and northern South Africa extending along the Orange River, up to the Lowveld of Limpopo, the high areas of Natal, the Free State and North West. For the dryland production areas, trials are planted across the Free State. On average 10 irrigation and six dryland research trials are planted each year.

How to interpret the trial results.
The trial design that Sensako normally uses is a complete randomised block design. In simple terms, it is a trial design where each entry in the trial is repeated in three different randomisations. The reason for the repetition and randomisation is to ensure that data is generated three times at each trial location, and also to ensure that an entry does not appear next to itself (the same entry) at every repetition.
In using this specific design, certain advantageous statistical methadologies can be utilised, to identify the best performing cultivars in a specific area,.
Some of the specific statistical parameters which appear on the yield tables, are the coefficient of variation (CV) and the Least Significant Difference (LSD).
The CV is an indication of how reliable the trial has been. The smaller the variation of a specific entry within the repetitions is, the lower the CV and the higher the reliability of the trial. A low CV of between O and 15% is accepted as a good trial.

A high CV indicates a high degree of variation between randomisations and indicates that the data generated may not be reliable. An example of a high CV trial can be explained as follows: In repetition one, a specific entry yielded 6 ton/ha. in repetition two, the same entry yielded 8 ton/ha and in the third repetition, 10 ton/ha. The variation is therefore high between the randomisations and indicates that there may be a high degree of variation in soil/growing conditions through the trial. The data generated from such a trial is therefore not reliable.
Another very useful statistical parameter coming from a complete randomised block design is the lease significant difference (LSD). LSD helps to group cultivars which perform similarly and is useful in identifying a group of cultivars that do not differ statistically in an area. This enables producers to enjoy a wide choice of cultivars that may perform very much the same in a particular area.
A trial with a LSD of 0.45 ton/ha means that there is no statistical difference between the top performing cultivar and any entry that yields LESS than 0.45 tons than the top performer. It is therefore important not to place too much reliance on trial ranking as there may not be a (statistical) difference between a number of top performing cultivars. Performance of a variety in a performance trial should always be measured taking into consideration the LSD of the trial. Another advantage of LSD is that it can identify and group cultivars with different growth periods into the same yield group enabling producers to identify a portfolio of top performing cultivars with differing growing periods.

KORING: Opbrengsproewe

Sensako se koringproewe.
Die opbrengsdata wat in die tabelle voorgedra word, is die data wat afkomstig is van Sensako se eie multilokaliteit-opbrengsproewe. Onder besproeiing en droëland beslaan Sensako se koringproewe die hele besproeiings- en droëlandgebied van die sentrale en noordelike gebiede van Suid-Afrika. Onder besproeiing strek die proewe van al langs die Oranjerivier tot in die Laeveld van Limpopo en die hoogliggende gebiede van Natal, Vrystaat en Noordwes. Onder besproeiing word elke jaar 'n gemiddeld van 10 lokaliteite geplant. In die sentraal-droëland-koringproduksieareas beslaan die proewe die hele Vrystaat. Daar word gemiddeld elke jaar ses lokaliteite oor die Vrystaat geplant.

Hoe om die proefresultate te interpreteer.
Die proefontwerp wat oor die algemeen gebruik word, is 'n volledige ewekansigheidsblokontwerp. In eenvoudige terme is dit 'n proefontwerp waar elke inskrywing in die proef herhaal word in drie verskeie ewekansighede. Die rede vir herhaling en ewekansigmaking is om te verseker dat data gegenereer word van elke inskrywing drie keer op 'n lokaliteit en ook dat elke inskrywing nie by elke herhaling langs dieselfde inskrywing staan nie.
Deur die spesifieke ontwerp te doen, kan sekere statistiek op die proef geïmplementeer word, wat help om kultivars uit te wys wat die beste vir 'n spesifieke omgewing presteer.
Van die spesifieke statistieke parameters wat in die opbrengs tabelle te voorskyn kom, is die koëffisiënt van variasie (KV) en die kleinste betekenisvolle verskil (KBV).
Die KV is 'n aanduiding van hoe betroubaar die proef op sigself was. 'n KV van tussen 0 en 15% word aanvaar as 'n goeie proef. Hoe kleiner die variasie van 'n spesifieke inskrywing oor die herhalings is, hoe laer is die KV en hoe hoër is die betroubaarheid van die proef. Wanneer daar 'n proef is waar daar groot variasie was tussen die verskillende herhalings, sal die KV hoog wees (groter as 15%).
'n Voorbeeld van 'n hoë KV-proef kan soos volg geskets word: In herhaling een het 'n spesifieke inskrywing 6 ton/ha gegee, in herhaling twee het dieselfde inskrywing 8 ton/ha gegee en in herhaling drie 10 ton/ha. Die voorbeeld skets 'n prentjie waar daar 'n groot grondneiging (trend) is waar herhaling een in 'n swak kol staan en herhaling drie in 'n goeie kol. Die data wat uit so proef gegenereer is, is dus nie betroubaar nie.
Die een baie nuttige statistieke parameter wat uit so volledige gerandomiseerde blokontwerp uitkom, is die kleinste betekenisvolle verskil (KBV). Die parameter help om kultivars te groepeer wat statisties dieselfde presteer in 'n omgewing. Waar KBV's baie nuttig is, is om 'n groep kultivars uit te wys wat baie dieselfde presteer in 'n omgewing wat produsente in staat kan stel om 'n wye keuse te hê van kultivars.
'n Goeie voordeel van die KBV parameter is om top presterende kultivars uit te wys.
As daar na 'n voorbeeld gekyk word en ons neem 'n KBV van 0.45 ton/ha, beteken dit dat as daar verskeie kultivars in die topposisie geleë is en daardie kultivars se opbrengste verskil nie meer as 0.45 ton/ha tussen mekaar nie, presteer die groep kultivars statisties dieselfde. Daar kan 'n situasie wees waar die top-4-kultivars waarvan die opbrengste nie meer as 0.45 ton/ha met mekaar verskil nie dus statisties dieselfde presteer.
Wat die parameter nog meer belangrik maak, is dat dit verskillende tipes groeiperiode kultivars kan groepeer in dieselfde opbrengsgroep en die produsent dan help om 'n groter verskeidenheid kultivars met gemoedsrus te plant.

Cultivar (PBR) Kultivar (PTR)	WESSELSBRON (Le Grange Odendal)				REITZ (Francois Steyn)			
	2016-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK
OPP 1	1.26	10	1.30	11	2.03	11	1.16	10
OPP 2	2.32	3	2.75	3	2.56	6	1.51	9
OPP 3	2.57	1	2.81	2	2.20	9	2.02	1
SST3149	2.06	5	2.53	5	2.14	10	1.12	11
SST316	1.56	7	1.65	9	3.10	1	1.85	3
SST317	1.33	9	1.84	7	2.75	4	1.83	6
SST347	2.44	2	2.82	1	2.60	5	1.90	2
SST356	1.15	11	1.61	10	3.09	2	1.85	4
SST374	1.43	8	1.72	8	2.37	7	1.58	7
SST387	2.21	4	2.61	4	2.32	8	1.52	8
SST398	1.96	6	1.87	6	2.90	3	1.83	5
Gem/Ave	1.84		2.14		2.55		1.65	
KV%/CV%	10.51		8.71		9.68		11.36	
KBV/LSD (0.05)	0.28		0.26		0.34		0.26	

PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

Sensako trial results| **Sensako proefresultate**

Cultivar (PBR) Kultivar (PTR)	BETHLEHEM I (Sensako) 16 JUN				BETHLEHEM II (Sensako) 21 JUL				BETHLEHEM III (Sensako) 18 AUG			
	2016-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK	2015-2017	RANK	2017	RANK
OPP 1	2.30	10	1.52	11	2.28	5	2.14	2	-	-	0.27	10
OPP 2	2.69	3	2.36	2	1.93	8	1.55	7	-	-	0.11	11
OPP 3	2.26	11	2.33	3	0.53	11	0.47	11	-	-	0.34	8
SST3149	2.50	8	2.02	6	1.75	10	1.45	10	1.07	6	0.38	7
SST316	2.52	6	1.76	9	2.40	2	2.05	4	2.08	2	1.75	1
SST317	2.52	5	1.83	8	2.30	4	1.81	6	1.76	4	1.44	4
SST347	2.92	1	2.89	1	1.78	9	1.48	9	0.69	8	0.29	9
SST356	2.61	4	1.70	10	2.41	1	2.22	1	2.03	3	1.69	3
SST374	2.50	7	1.98	7	2.34	3	2.10	3	2.17	1	1.73	2
SST387	2.36	9	2.09	5	2.19	7	1.96	5	0.71	7	0.54	6
SST398	2.71	2	2.16	4	2.25	6	1.53	8	1.34	5	0.59	5
Gem/Ave	2.54		2.06		2.01		1.71		1.33		0.84	
KV%/CV%	8.25		7.62		9.83		7.27		10.02		10.41	
KBV/LSD (0.05)	0.31		0.21		0.29		0.18		0.19		0.12	

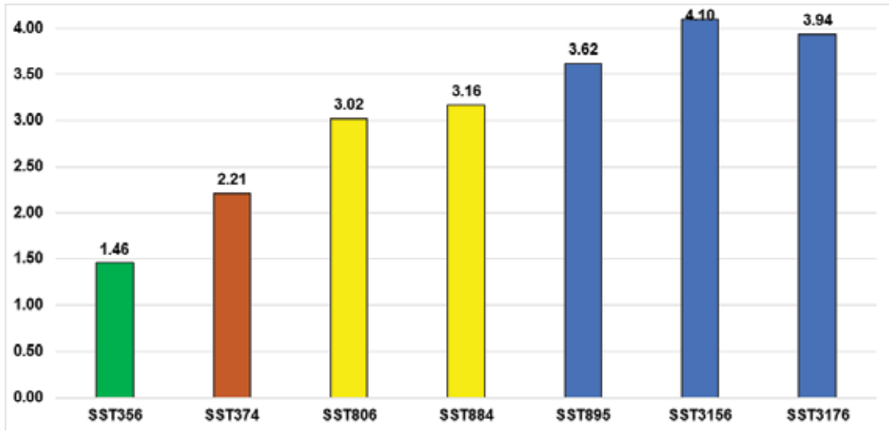
PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

Lentekoring aanplanting Oktober 2016 – Bethlehem

Spring planting October 2016 - Bethlehem

Dryland | **Droëland**

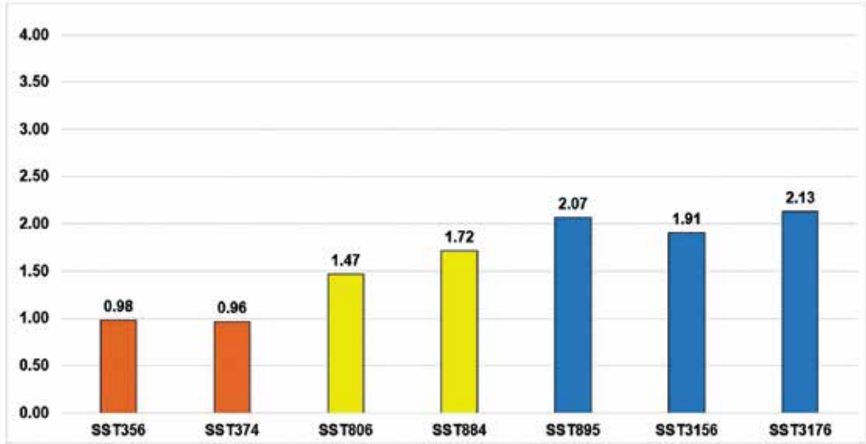
- Opbrengsproewe geplant in Oktober 2016 geplant was opgevolg deur goeie November reën
- Besonderse goeie opbrengs deur kultivars vrygestel vir lente aanplantings asook goeie opbrengste behaal deur besproeiingskultivars in vergelyking met tradisionele droëland kultivars
- Yield trials planted in October 2016 followed up by good rainfall in November.
- Exceptional yields achieved by new cultivars released for spring wheat plantings. Good yields achieved by the irrigation cultivars when compared to the traditional dryland cultivars



Lentekoring aanplanting Oktober 2017 – Bethlehem

Spring planting October 2017 - Bethlehem

- Opbrengsproewe geplant in Oktober 2017 geplant was nie opgevolg deur goeie reën nie wat 'n beduidend negatiewe effek op opbrengs gehad het
- Goeie opbrengste is behaal deur cultivars vrygestel vir lente aanplantings asook redelike opbrengste behaal deur bespreoiingskultivars en was steeds beter in vergelyking met die van die tradisionele droëland kultivars
- Yield trials planted in October 2017 was not followed up by good rainfall which had a severe impact on the yields achieved.
- Good yields were achieved by new cultivars released for spring wheat plantings as well good yields achieved by irrigation cultivars which were still better compared to the yields of the traditional dryland cultivars.



Herfskoring kultivarstrookproef 2019

LOKALITEIT: SETTLERS (Semi Besproeiing)
PLANTDATUM: 20/02/2019
PLANTDIGTHEID: 65-70Kg/Ha
RYWYDTE: 40cm
GRONDVOG: 0,5-0,6m (54 mm reen vanaf plant tot oes
30mm besproei voor plant en blom)
BEMESTING: GEEN
OPBRENGS PER KULTIVAR:

MEDEWERKER: WILLIE DYKEMA
STROOPDATUM: 18/07/2019

KULTIVARS	OPB/HEKT	RANGORDE	VOG
SST 8156	2342kg	1	11.57
SST 895	2303kg	2	9.81
Gars 1	2214kg	3	12.48
SST 835	2017kg	4	11.48
SST 8135	1972kg	5	9.51
SST 8154	1874kg	6	9.21
Opp 1	1815kg	7	8.76
Opp2	1729kg	8	9.43
SST 884	1654kg	9	9.94
SST 843	1264kg	10	8.42
Opp 3	1143kg	11	8.21
Gars 2	637kg	12	13.62

** Hoë-opbrengskultivarpakket vir die Sprinbokvlakte onder aanvullende besproeiing*
** High yielding cultivar package for Springbok flats under supplementary irrigation*

Herfskoring kultivarstrookproef 2019

LOKALITEIT: SETTLERS (Droëland)
PLANTDATUM: 21/02/2019
PLANTDIGTHEID: 65-70Kg/Ha
RYWYDTE: 40cm
GRONDVOG: 0,4-0,5m (54 mm reen vanaf plant tot oes)
BEMESTING: GEEN
OPBRENGS PER KULTIVAR:

MEDEWERKER: WILLIE DYKEMA
STROOPDATUM: 27/06/2019

KULTIVARS	OPB/HEKT	RANGORDE	VOG
SST 8154	705kg	1	9.72
SST 835	696kg	2	11.48
SST 884	660kg	3	9.94
SST 895	656kg	4	9.81
SST 8156	624kg	5	11.42
SST 8135	602kg	6	9.51
Opp 1	584kg	7	9.14
Opp 2	575kg	8	9.48
Gars 1	464kg	9	12.11
SST 843	419kg	10	9.11
Opp 3	276kg	11	9.62
Gars 2	125kg	12	13.47

** Toppresterende kultivarpakket vir die Sprinbokvlakte onder onder droëlandtoestande*
** Top performing cultivar package for Springbok flats under dryland conditions*

Sensako trial results| ***Sensako* proefresultate**

Cultivar (PBR) / Kultivar (PTR)	BERGVILLE (Christof Brits)				DOUGLAS (Hein Mulke)				GROOTPAN (Kobus du Preez)			
	2016-2018	RANK	2018	RANK	2017-2018	RANK	2018	RANK	2017-2018	RANK	2018	RANK
OPP 1	6.35	8	8.47	2	11.35	6	12.49	7	9.23	9	8.28	8
SST806	7.89	4	7.94	7	11.47	5	13.23	2	9.09	10	7.16	12
SST8135	7.95	2	7.83	9	11.70	2	13.73	1	9.31	8	7.74	11
SST8154	6.93	6	8.24	3	9.85	10	12.65	6	10.15	1	8.83	3
SST8156	7.91	3	8.02	5	11.76	1	13.20	3	9.46	7	8.14	10
SST8175	8.19	1	9.49	1	11.58	3	13.02	4	9.64	5	8.41	6
SST835	-	-	7.84	8		-	12.48	8		-	8.92	2
SST843	5.15	11	7.01	11	8.90	11	10.64	12	9.03	11	8.23	9
SST875	7.69	5	7.99	6	11.33	7	12.76	5	9.81	2	8.99	1
SST877	6.00	10	6.70	12	11.55	4	12.33	10	9.59	6	8.37	7
SST884	6.84	7	8.06	4	10.60	9	12.34	9	9.80	3	8.75	5
SST895	6.29	9	7.46	10	10.67	8	12.25	11	9.71	4	8.81	4
Gem/Ave	7.02		7.92		10.98		12.59		9.53		8.38	
KV%/CV%	5.87		5.03		3.70		3.66		4.55		4.63	
KBV/LSD (0.05)	0.33		0.54		0.39		0.63		0.41		0.52	

PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

Sensako trial results| ***Sensako* proefresultate**

Cultivar (PBR) / Kultivar (PTR)	GROBLERSDAL (Nico Mostert)				HARTSWATER (Theo Boshoff)				KOEDOESKOP (Andries Pretorius)			
	2017-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK
OPP 1	7.53	9	8.79	11	6.14	10	6.70	12	7.87	10	8.70	10
SST806	8.13	4	9.40	7	6.71	8	8.52	4	7.95	9	9.48	6
SST8135	8.30	2	9.85	2	6.95	5	8.37	7	9.04	2	9.50	5
SST8154	8.19	3	8.98	10	6.89	6	9.16	2	8.29	8	8.14	11
SST8156	8.02	7	9.72	4	7.19	3	8.40	5	8.76	4	9.64	4
SST8175	8.61	1	10.76	1	7.35	2	9.10	3	8.90	3	9.79	2
SST835		-	9.32	9		-	7.18	11		-	10.10	1
SST843	7.44	10	9.36	8	6.09	11	8.06	9	6.95	11	6.87	12
SST875	8.10	5	9.59	6	7.41	1	9.30	1	8.33	7	9.41	7
SST877	7.36	11	8.44	12	6.64	9	7.46	10	8.50	6	9.04	8
SST884	8.04	6	9.81	3	6.83	7	8.38	6	8.62	5	8.94	9
SST895	7.80	8	9.62	5	6.96	4	8.18	8	9.09	1	9.65	3
Gem/Ave	7.96		9.47		6.83		8.23		8.39		9.10	
KV%/CV%	6.25		4.64		5.02		3.98		5.24		3.88	
KBV/LSD (0.05)	0.48		0.59		0.27		0.45		0.35		0.49	

PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

Sensako trial results| ***Sensako* proefresultate**

Cultivar (PBR) Kultivar (PTR)	LICHTENBURG (Pieter du Plessis)				ORANIA (Dissie Kruger)				PRIESKA (Chris de Villiers)			
	2016-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK	2016-2018	RANK	2018	RANK
OPP 1	9.39	9	10.49	8	10.84	8	12.70	2	11.25	8	11.87	8
SST806	9.53	6	10.02	11	11.04	6	12.10	6	11.30	6	11.37	9
SST8135	9.75	4	10.94	4	11.25	4	11.97	8	11.89	2	12.81	2
SST8154	9.90	1	10.80	6	10.62	9	11.19	12	11.04	10	12.28	5
SST8156	9.67	5	10.43	10	10.98	7	12.05	7	11.28	7	13.09	1
SST8175	9.80	3	11.27	1	11.61	3	11.71	10	11.63	3	11.10	10
SST835		-	11.14	2		-	12.69	3		-	11.89	7
SST843	8.87	11	10.47	9	10.13	10	11.25	11	9.94	11	9.67	12
SST875	9.85	2	10.90	5	10.11	11	12.30	5	11.41	4	12.45	3
SST877	9.19	10	9.60	12	11.23	5	11.82	9	12.10	1	11.10	11
SST884	9.45	8	11.10	3	12.14	1	12.59	4	11.24	9	12.29	4
SST895	9.46	7	10.54	7	12.01	2	12.99	1	11.40	5	12.14	6
Gem/Ave	9.53		10.64		11.09		12.11		11.32		11.84	
KV%/CV%	5.36		4.19		5.62		4.40		4.22		3.81	
KBV/LSD (0.05)	0.40		0.61		0.48		0.73		0.37		0.60	

PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

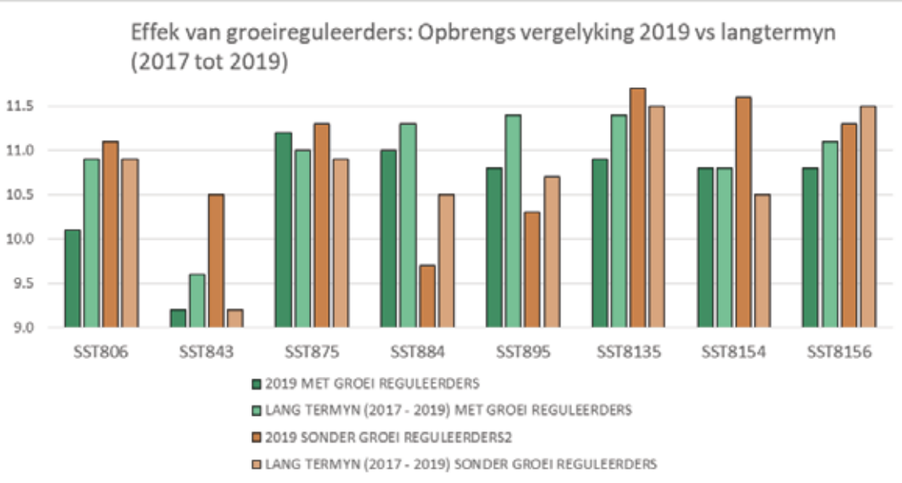
Sensako trial results| ***Sensako* proefresultate**

Cultivar (PBR) Kultivar (PTR)	VILLIERS (Hendrik Odendaal)				WINTERTON			
	2016-2018	RANK	2018	RANK	2017-2018	RANK	2018	RANK
OPP 1	7.26	5	8.61	11	7.63	11	8.02	11
SST806	8.05	3	10.07	2	8.87	4	8.32	10
SST8135	7.36	4	9.26	8	9.02	3	8.46	7
SST8154	6.70	11	9.51	5	8.55	6	8.37	9
SST8156	8.26	1	9.60	4	8.67	5	8.53	6
SST8175	8.19	2	9.74	3	9.37	1	9.24	1
SST835		-	9.50	7		-	8.67	4
SST843	6.79	10	7.97	12	7.84	8	7.33	12
SST875	7.10	8	10.26	1	9.08	2	9.20	2
SST877	7.15	7	8.89	10	7.84	9	8.41	8
SST884	7.18	6	9.50	6	7.80	10	8.55	5
SST895	7.01	9	8.91	9	8.50	7	8.82	3
Gem/Ave	7.37		9.32		8.47		8.49	
KV%/CV%	5.98		4.38		5.15		4.80	
KBV/LSD (0.05)	0.35		0.57		0.42		0.56	

PBR - Cultivars protected by Plant Breeders' Rights
PTR - Kultivar beskerm deur planttelersregte

Effek van groeireguleerders:
Opbrengs vergelyking 2019 vs langtermyn (2017 tot 2019)

- Opbrengsproewe geplant in Prieska om die effek van groeilregullerders op koring te toets. Let op die verskil tussen die oprengste van verskillende cultivars.
- 'n Belangrike aspek om in gedagte te hou is dat veskillende kultivars nie dieselfde reageer nie en dit dus belangrik is om sulke behandelingss op kultivars te toets voor dit op grootskaal aangewend word.
- Yield trials were planted in Prieska to test the effect of growth regulators on wheat. Note the differences between the yield achieved for the different cultivars.
- An important aspect to keep in mind is that different cultivars react differently to such treatments and it is therefore important to test the different cultivars before applying such treatments on a large scale.



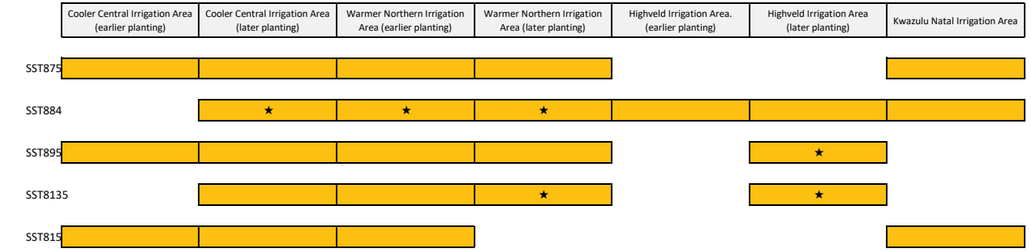
Koring kultivarstrookproef 2019: Opsomming warm gebiede

LOKALITEITE OPBRENGS TON/HA						
KULTIVAR	**SKUINSDRIF**	**MAKOPPA**	**KOEDOESKOP**	**ATLANTA**	**GEM KULTIVAR**	**RANG**
SST 8154	6.976	7.548	7.246	7.333	7.276	1
SST 884	6.632	7.269	6.861	7.333	7.024	3
SST 8135	6.091	7.721	7.003	8.001	7.204	2
SST 895	6.476	7.261	6.876	7.048	6.915	4
SST 8156	5.593	7.598	6.604	6.095	6.473	8
SST 806	5.955	7.532	6.235	6.095	6.454	9
Opp1	6.379	7.474	5.514	7.143	6.628	7
Opp2	6.249	7.582	5.996	7.429	6.814	5
Opp3	6.478	7.537	5.362	7.619	6.754	6
GEMID/LOK	6.314	7.504	6.411	7.121		

** Toppresterende cultivarpaket soos in strookproewe oor die Noordelike warm besproeiingsgebiede gedemonstreer*
** Top performing cultivar package as shown in strip trials over the Northern warm irrigation areas*

TOP PERFORMING SENSAKO CULTIVARS IN THE ARC TRIALS

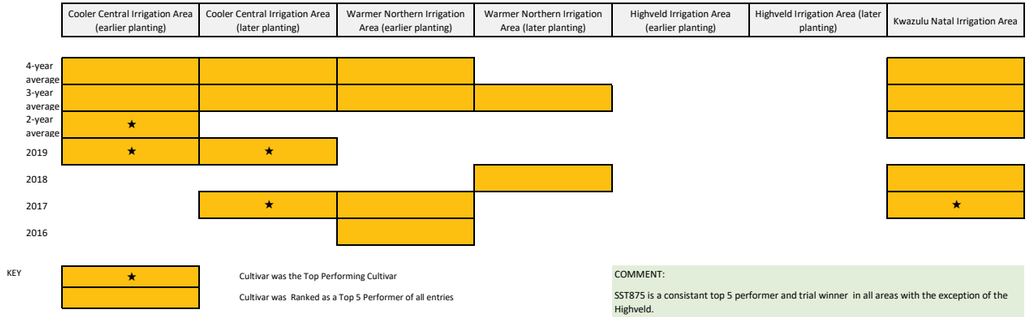
Sensako Cultivars Amongst the Top 5 Performers of All Trial Entries. Ranked on Average Yield for the Past 3 Years (2016-2018)



ARC/**LNR** - NCEP

SENSAKO SST875 PERFORMANCE IN THE ARC TRIALS

Incidence of This Sensako Cultivar Being Amongst the Top 5 Performers of All Trial Entries (Ranked on Yield.)



SENSAKO SST884 PERFORMANCE IN THE ARC TRIALS

Incidence of This Sensako Cultivar Being Amongst the Top 5 Performers of All Trial Entries (Ranked on Yield.)

	Cooler Central Irrigation Area (earlier planting)	Cooler Central Irrigation Area (later planting)	Warmer Northern Irrigation Area (earlier planting)	Warmer Northern Irrigation Area (later planting)	Highveld Irrigation Area (earlier planting)	Highveld Irrigation Area (later planting)	Kwazulu Natal Irrigation Area
4-year average		★	★				
3-year average		★	★	★			
2-year average		★		★			
2019				★			
2018		★		★		★	
2017			★	★			
2016							

KEY

★ Cultivar was the Top Performing Cultivar

Cultivar was Ranked as a Top 5 Performer of all entries

COMMENT:

SST884 is a National Top Seller - the absolute market leading cultivar. A consistant top 5 performer and perennial trial winner over seasons. Adapted for all planting times in all irrigation areas. Highly suited for late plantings without yield loss.

ARC/**LNR** - NCEP

SENSAKO SST895 PERFORMANCE IN THE ARC TRIALS

Incidence of This Sensako Cultivar Being Amongst the Top 5 Performers of All Trial Entries (Ranked on Yield.)

	Cooler Central Irrigation Area (earlier planting)	Cooler Central Irrigation Area (later planting)	Warmer Northern Irrigation Area (earlier planting)	Warmer Northern Irrigation Area (later planting)	Highveld Irrigation Area (earlier planting)	Highveld Irrigation Area (later planting)	Kwazulu Natal Irrigation Area
4-year average				★		★	
3-year average						★	
2-year average						★	
2019							
2018							
2017						★	
2016		★					

KEY

★ Cultivar was the Top Performing Cultivar

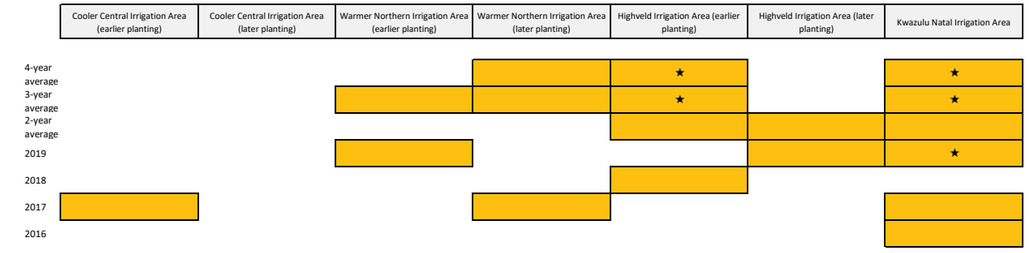
Cultivar was Ranked as a Top 5 Performer of all entries

COMMENT:

SST895 is a consistant top 5 performer and stable cultivar over all production regions. Underestimated potentiol. Adapted for all planting times in all irrigation areas. Highly suited for late plantings in the Highveld irrigation areas

SENSAKO SST8135 PERFORMANCE IN THE ARC TRIALS

Incidence of This Sensako Cultivar Being Amongst the Top 5 Performers of All Trial Entries (Ranked on Yield.)



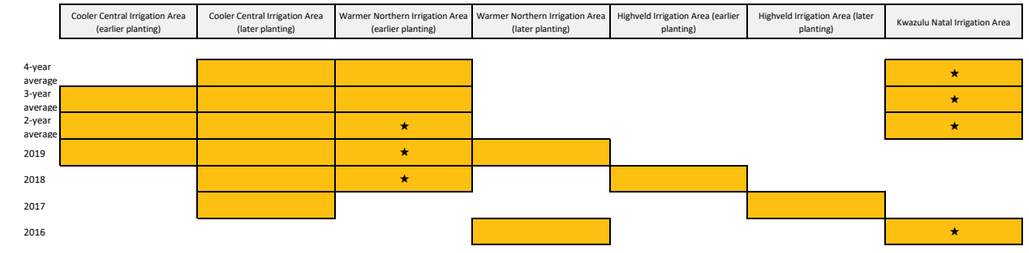
COMMENT:

SST8135 is a new MEDIUM GROWTH season variety. A consistant top 5 performer and trial winner over seasons in the Warmer, Highveld and KZN irrigation areas. Regular top 10 performer in all irrigation areas - a variety to look out for!

ARC/**LNR** - NCEP

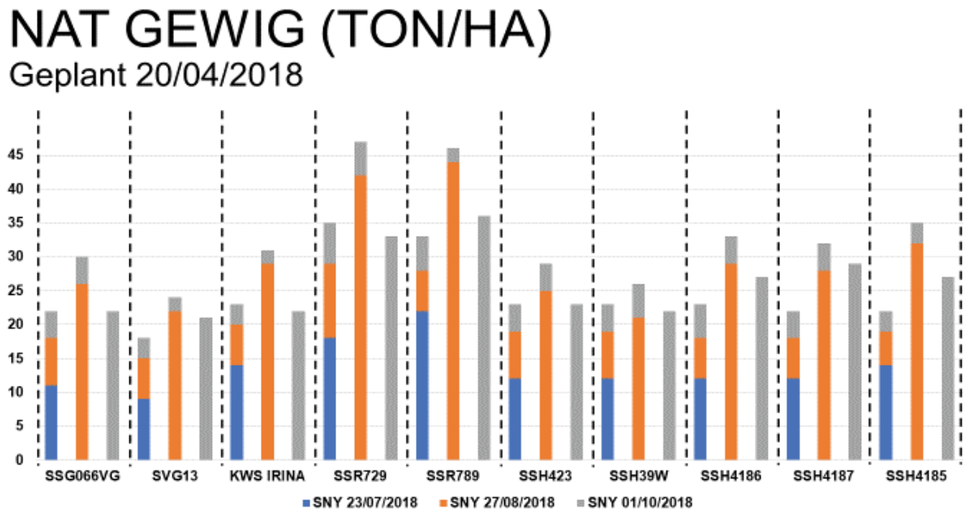
SENSAKO SST8154 PERFORMANCE IN THE ARC TRIALS

Incidence of This Sensako Cultivar Being Amongst the Top 5 Performers of All Trial Entries (Ranked on Yield.)

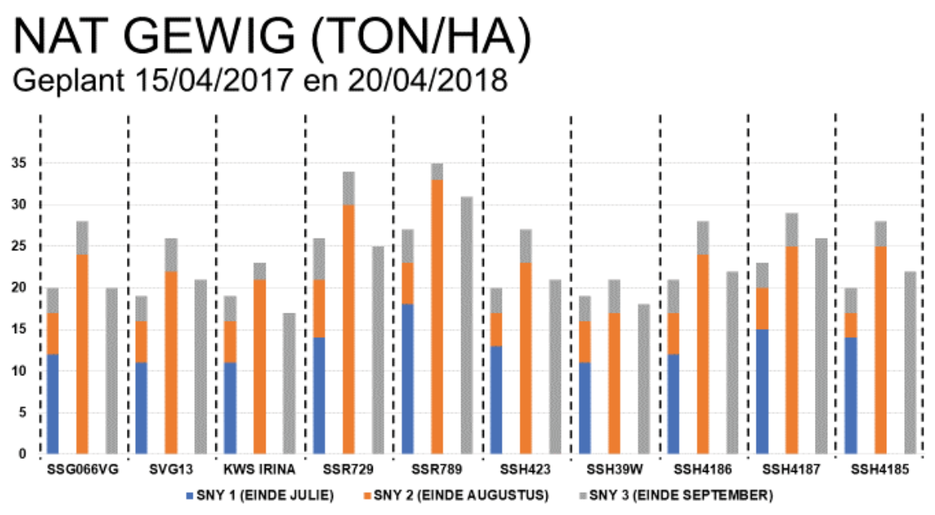


COMMENT:

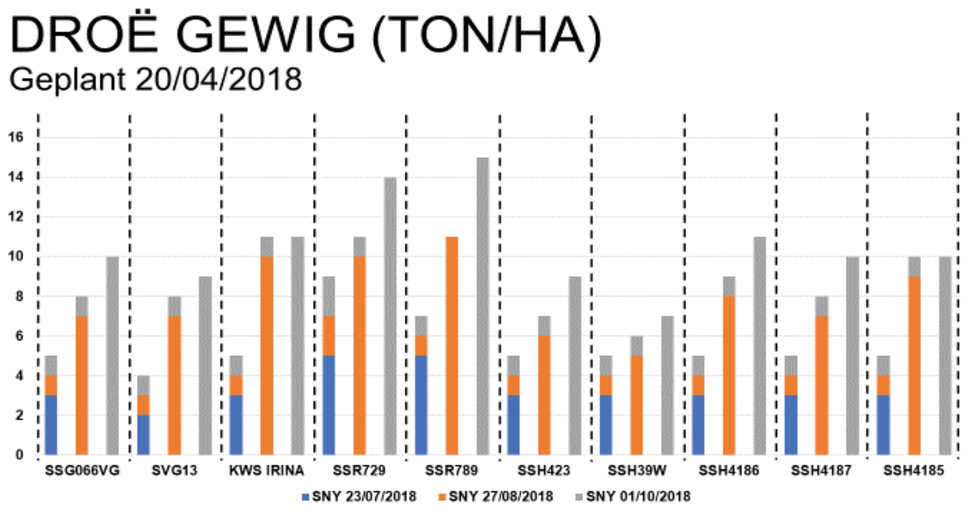
New ULTRA SHORT growing season cultivar. A National Top Seller over seasons - a market leading cultivar! A consistant top 5 performer in the cooler, warmer and KZN irrigation areas. Regular trial winner and highly suited for very late late plantings.



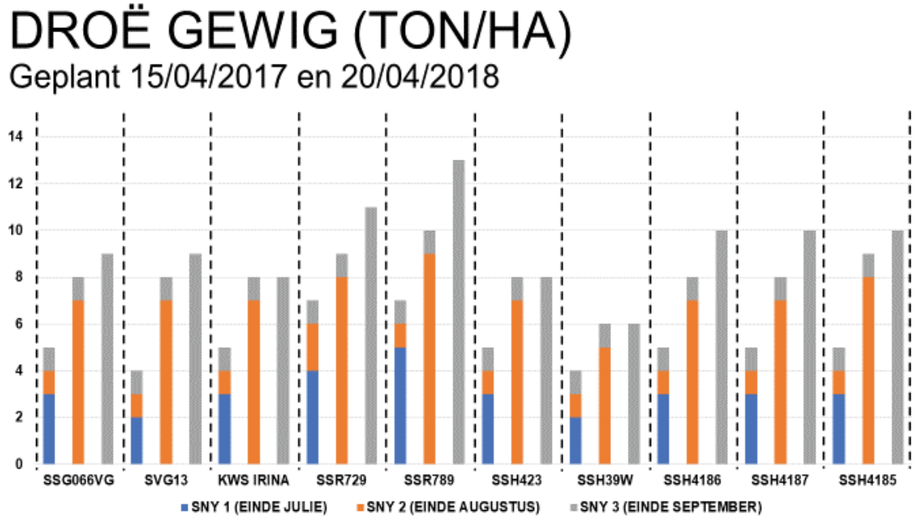
** Uitstekende natgewig resultate behaal deur stoelrogcultivars SSR729 en SSR789 asook Nuwe hawervariteite SSH4185, SSH4186 and SSH4187*
** Excellent wet weight results achieved for stooling rye cultivars SSR729 and SSR789 as well as new oats varieties SSH4185, SSH4186 and SSH4187*



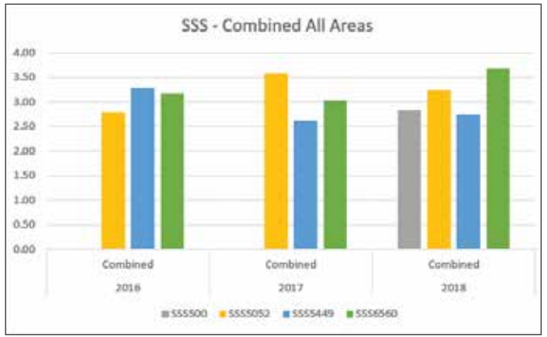
** Uitstekende natgewig resultate behaal oor twee agtereenvolgende seisoene deur stoelrogcultivars SSR729 en SSR789 asook Nuwe hawervariteite SSH4185, SSH4186 en SSH4187*
** Excellent wet weight results achieved over two consecutive seasons for stooling rye cultivars SSR729 and SSR789 as well as new oats varieties SSH4185, SSH4186 and SSH4187*

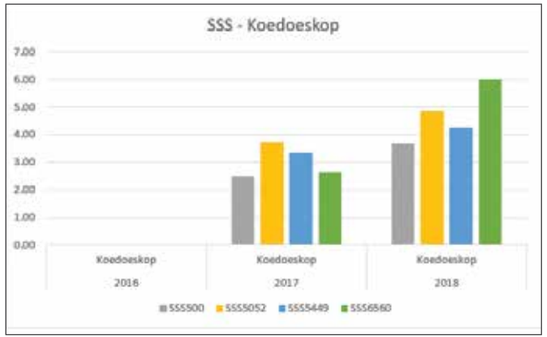


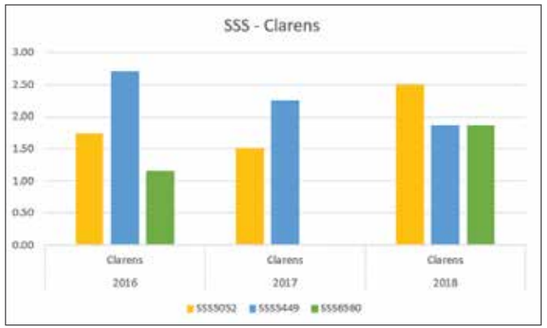
** Uitstekende droeë gewig resultate behaal deur stoelrogcultivars SSR729 en SSR789 asook Nuwe hawervariteite SSH4185, SSH4186 en SSH4187*
** Excellent dry weight results achieved for stooling rye cultivars SSR729 and SSR789 as well as new oats varieties SSH4185, SSH4186 and SSH4187*

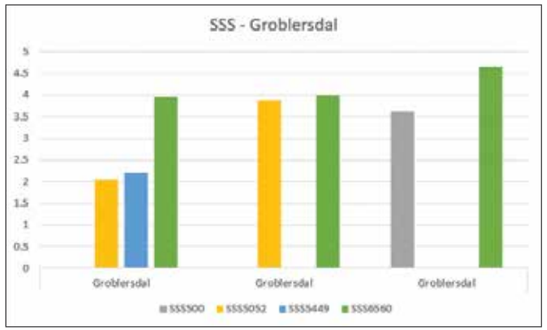


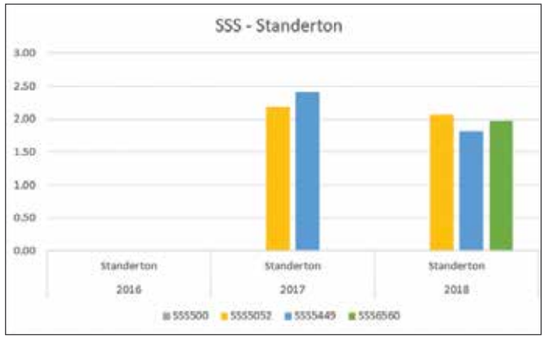
** Uitstekende droeë gewig resultate behaal oor twee agtereenvolgende seisoene deur stoelrogcultivars SSR729 en SSR789 asook Nuwe hawervariteite SSH4185, SSH4186 en SSH4187*
** Excellent dry weight results achieved over two consecutive seasons for stooling rye cultivars SSR729 and SSR789 as well as new oats varieties SSH4185, SSH4186 and SSH4187*

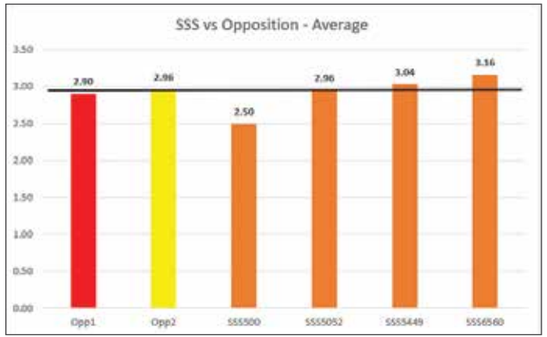

SSS - Combined All Areas
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Combined
2016
Combined
2017
Combined
2018
SSS500
SSS5052
SSS5449
SSS6560

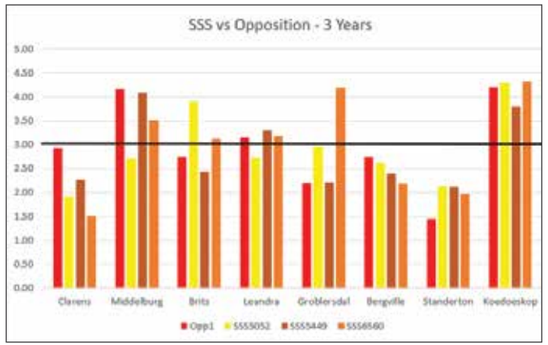

SSS - Koedoeskop
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Koedoeskop
2016
Koedoeskop
2017
Koedoeskop
2018
SSS500
SSS5052
SSS5449
SSS6560


SSS - Clarens
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Clarens
2016
Clarens
2017
Clarens
2018
SSS5052
SSS5449
SSS6560


SSS - Groblersdal
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Groblersdal
Groblersdal
Groblersdal
SSS500
SSS5052
SSS5449
SSS6560


SSS - Standerton
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Standerton
2016
Standerton
2017
Standerton
2018
SSS500
SSS5052
SSS5449
SSS6560


SSS vs Opposition - Average
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
2.90
2.96
2.50
2.96
3.04
3.16
Opp1
Opp2
SSS500
SSS5052
SSS5449
SSS6560


SSS vs Opposition - 3 Years
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Clarens
Middelburg
Brits
Leandra
Groblersdal
Bergville
Standerton
Koedoeskop
Opp1
SSS5052
SSS5449
SSS6560

GTP SOYBEAN STRIP TRIALS

Sensako Cultivars in the Top 6 Performers of all trial entries.

	Planting Date	Harvest Date	SSS5052	SSS5449	SSS6560
Beestekraal - Theo du Plessis	30/11/2018	23/4/2019			
Bethlehem - Hennie v Zyl	9/11/2018	27/05/2019			
Clarens - Corné v Rensburg	3/12/2018	12/5/2019			
Devon/Balfour - Rasnie Bdy	30/10/2018	3/5/2019			
Kestell - Quintis v Staden	11/12/2018	5/6/2019			
Meets - Meets BV	14/11/2018	30/5/2019 & 20/6/2019			
Petrus Steyn - Sonop BV	29/11/2018	27/5/2019			
Skuinsdrif - Dirkie v Rensburg	4/12/2018	18/4/2019			
Villiers - Nova Vita Trust	30/11/2018	6/5/2019			
Villiers - PG Odendaal	20/12/2018	20/05/2019			

KEY Cultivar was Ranked as a Top 6 Performer of all entries

COMMENT:

SSS Soybeans have consistently performed well in strip-trials in the Highveld and Eastern free State. Sensako provides a well balanced, stable soya cultivar package.

Strip Trials | **Strookproewe**

Sensako SSS5052 Performance

	Planting Date	Harvest Date	Yield % of Mean	Yield (ton/ha)	Yield Ranking
Beestekraal - Theo du Plessis	30/11/2018	23/4/2019	**110**	4.50	2
Devon/Balfour - Rasnie Bdy	30/10/2018	3/5/2019	**128**	1.87	3
Skuinsdrif - Dirkie v Rensburg	4/12/2018	18/4/2019	**105**	3.85	3
Villiers - Nova Vita Trust	30/11/2018	6/5/2019	**122**	1.16	3
Villiers - PG Odendaal	20/12/2018	20/05/2019	**107**	2.22	7

Strip Trials | **Strookproewe**

Sensako SSS5449 Performance

	Planting Date	Harvest Date	Yield % of Mean	Yield (ton/ha)	Yield Ranking
Clarens - Corné v Rensburg	3/12/2018	12/5/2019	**109**	2.22	3
Devon/Balfour - Rasnie Bdy	30/10/2018	3/5/2019	**121**	1.76	7
Meets - Meets BV	14/11/2018	30/5 & 20/6/2019	**130**	2.69	2

Strip Trials | **Strookproewe**

Sensako SSS6560 Performance

	Planting Date	Harvest Date	Yield % of Mean	Yield (ton/ha)	Yield Ranking
Beestekraal - Theo du Plessis	30/11/2018	23/4/2019	**112**	4.57	1
Clarens - Corné v Rensburg	3/12/2018	12/5/2019	**107**	2.20	4
Devon/Balfour - Rasnie Bdy	30/10/2018	3/5/2019	**110**	1.60	10
Kestell - Quintis v Staden	11/12/2018	5/6/2019	**108**	2.52	2
Skuinsdrif - Dirkie v Rensburg	4/12/2018	18/4/2019	**105**	3.86	2
Villiers - Nova Vita Trust	30/11/2018	6/5/2019	**114**	1.08	6
Villiers - PG Odendaal	20/12/2018	20/05/2019	**130**	2.71	1

ARC/**LNR** - NCEP

Cooler production area | **Koeler produksiegebied** 2017/2018 & 2018/2019

BAPSFONTEIN
2017/2018
- SSS 5449 (tuc) – 5.085 t/ha – 104% van proefgemiddeld
- SSS 5052 (tuc) – 5.082 t/ha – 104% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 6.108 t/ha – 117% van proefgemiddeld

BETHLEHEM
2017/2018
- SSS 5449 (tuc) – 1.961 t/ha – 112% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 3.063 t/ha – 104% van proefgemiddeld

CLARENS
2017/2018
- SSS 5449 (tuc) – 2.458 t/ha – 95% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 2.234 t/ha – 104% van proefgemiddeld

KINROS
2017/2018
- SSS 5449 (tuc) – 3.870 t/ha – 108% van proefgemiddeld
- SSS 5052 (tuc) – 3.555 t/ha – 98% van proefgemiddeld

2018/2019
- SSS 5449 (tuc) – 3.302 t/ha – 106% van proefgemiddeld
- SSS 5052 (tuc) – 2.847 t/ha – 91% van proefgemiddeld

KOKSTAD
2017/2018
- SSS 6560 (tuc) – 3.183 t/ha – 129% van proefgemiddeld

2018/2019
- SSS 6560 (tuc) – nie ingesluit
- SSS 5449 (tuc) – 2.917 t/ha – 99% van proefgemiddeld

BAPSFONTEIN
2017/2018
- SSS 5449 (tuc) – 5.085 t/ha – 104% of trial average
- SSS 5052 (tuc) – 5.082 t/ha – 104% of trial average

2018/2019
- SSS 5052 (tuc) – 6.108 t/ha – 117% of trial average

BETHLEHEM
2017/2018
- SSS 5449 (tuc) – 1.961 t/ha – 112% of trial average

2018/2019
- SSS 5052 (tuc) – 3.063 t/ha – 104% of trial average

CLARENS
2017/2018
- SSS 5449 (tuc) – 2.458 t/ha – 95% of trial average

2018/2019
- SSS 5052 (tuc) – 2.234 t/ha – 104% of trial average

KINROS
2017/2018
- SSS 5449 (tuc) – 3.870 t/ha – 107% of trial average
- SSS 5052 (tuc) – 3.555 t/ha – 98% of trial average

2018/2019
- SSS 5449 (tuc) – 3.302 t/ha – 106% of trial average
- SSS 5052 (tuc) – 2.847 t/ha – 91% of trial average

KOKSTAD
2017/2018
- SSS 6560 (tuc) – 3.183 t/ha – 129% of trial average

2018/2019
- SSS 6560 – not included
- SSS 5449 (tuc) – 2.917 t/ha – 99% of trial average

** Goeie kultivar prestasie van meer as 90% van proefgemiddelde oor jare gemeet*
** Good cultivar performance above 90% of trial averages measured over years*

ARC/**LNR** - NCEP

Moderate production area | **Matige produksiegebied** 2017/2018 & 2018/2019

BERGVILLE
2017/2018
- SSS 5449 (tuc) – 3.702 t/ha – 92% van proefgemiddeld

2018/2019
- SSS 5449 (tuc) – 4.188 t/ha – 108% van proefgemiddeld
- SSS 5052 (tuc) – 4.045 t/ha – 104% van proefgemiddeld

CEDARA
2017/2018
- SSS 6560 (tuc) – 4.238 t/ha – 99% van proefgemiddeld
- SSS 5449 (tuc) – 4.006 t/ha – 93% van proefgemiddeld

2018/2019
- SSS 6560 (tuc) – nie ingesluit
- SSS 5449 (tuc) – 4.568 t/ha – 95% van proefgemiddeld

GREYTOWN
2017/2018
- SSS 5052 (tuc) – 2.159 t/ha – 105% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 4.609 t/ha – 96% van proefgemiddeld

KROONSTAD
2017/2018
- SSS 5052 (tuc) – 4.323 t/ha – 120% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 2.605 t/ha – 124% van proefgemiddeld

POTCHEFSTROOM
2017/2018
- SSS 5052 (tuc) – 3.673 t/ha – 96% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 2.996 t/ha – 90% van proefgemiddeld

STOFBERG
2017/2018
- SSS 5052 (tuc) – 2.000 t/ha - 104% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 1.878 t/ha – 106% van proefgemiddeld

BERGVILLE
2017/2018
- SSS 5449 (tuc) – 3.702 t/ha – 92% of trial average

2018/2019
- SSS 5449 (tuc) – 4.188 t/ha – 108% of trial average
- SSS 5052 (tuc) – 4.045 t/ha – 104% of trial average

CEDARA
2017/2018
- SSS 6560 (tuc) – 4.238 t/ha – 99% of trial average
- SSS 5449 (tuc) – 4006 t/ha – 93% of trial average

2018/2019
- SSS 6560 (tuc) – not included
- SSS 5449 (tuc) – 4.568 t/ha – 95% of trial average

GREYTOWN
2017/2018
- SSS 5052 (tuc) – 2.159 t/ha – 105% of trial average

2018/2019
- SSS 5052 (tuc) – 4.609 t/ha – 96% of trial average

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STOFBERG
2017/2018
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** Goeie kultivar prestasie van meer as 90% van proefgemiddelde oor jare gemeet*
** Good cultivar performance above 90% of trial averages measured over years*

ARC/**LNR** - NCEP

Warm production area | **Warm produksiegebied** 2017/2018 & 2018/2019

BRITS
2017/2018
- SSS 5449 (tuc) – 2.729 t/ha – 96% van proefgemiddeld
- SSS 5052 (tuc) – 2.609 t/ha – 92% van proefgemiddeld
- SSS 6560 (tuc) – 2.700 t/ha – 95% van proefgemiddeld

2018/2019
- SSS 5449 (tuc) – 4.366 t/ha – 119% van proefgemiddeld
- SSS 5052 (tuc) – 4.197 t/ha – 115% van proefgemiddeld

GROBLERSDAL
2017/2018
- SSS 5449 (tuc) – 3.133 t/ha – 94% van proefgemiddeld
- SSS 5052 (tuc) – 3.174 t/ha – 95% van proefgemiddeld
- SSS 6560 (tuc) – 4.080 t/ha – 122% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 4.386 t/ha – 109% van proefgemiddeld
- SSS 6560 (tuc) – 4.382 t/ha – 109% van proefgemiddeld

MARBLE HALL
2017/2018
- SSS 5449 (tuc) – 4.591 t/ha – 98% van proefgemiddeld
- SSS 5052 (tuc) – 4.796 t/ha – 102% van proefgemiddeld
- SSS 6560 (tuc) – 5.126 t/ha – 109% van proefgemiddeld

2018/2019
- SSS 5052 (tuc) – 3.667 t/ha – 104% van proefgemiddeld
- SSS 6560 (tuc) – 3.825 t/ha – 109% van proefgemiddeld

BRITS
2017/2018
- SSS 5449 (tuc) – 2.729 t/ha – 96% of trial average
- SSS 5052 (tuc) – 2.609 t/ha – 92% of trial average
- SSS 6560 (tuc) – 2.700 t/ha – 95% of trial average

2018/2019
- SSS 5449 (tuc) – 4.366 t/ha – 119% of trial average
- SSS 5052 (tuc) – 4.197 t/ha – 115% of trial average

GROBLERSDAL
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- SSS 5449 (tuc) – 3.133 t/ha – 94% of trial average
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- SSS 5052 (tuc) – 3.667 t/ha – 104% of trial average
- SSS 6560 (tuc) – 3.825 t/ha – 109% of trial average

** Goeie kultivar prestasie van meer as 90% van proefgemiddelde oor jare gemeet*
** Good cultivar performance above 90% of trial averages measured over years*

Sensako trial results| ***Sensako* proefresultate**

Year	Area	Opp1	SY3970CL
2015	Bethlehem	1.25	1.35
	Marquard/Senekal	1.97	1.89
	Arlington	1.88	2.03
	Bothaville	3.07	3.36
	Bainsvlei	0.83	1.05
	Settlers		
	Petrusburg		
	Kroonstad		
2016	Bethlehem	2.82	2.95
	Marquard/Senekal	1.30	1.83
	Arlington	2.52	1.95
	Bothaville	2.66	2.72
	Bainsvlei	1.44	1.51
	Settlers	3.02	2.32
	Petrusburg		
	Kroonstad		
2017	Bethlehem	2.27	2.57
	Marquard/Senekal	0.74	1.01
	Arlington	3.02	2.94
	Bothaville	0.70	1.92
	Bainsvlei	1.32	1.34
	Settlers	1.29	0.48
	Petrusburg	1.68	1.07
	Kroonstad		
2018	Bethlehem		
	Marquard/Senekal		
	Arlington		
	Bothaville	2.20	1.82
	Bainsvlei		
	Settlers	0.73	0.85
	Petrusburg		
	Kroonstad	0.95	1.03

Sensako trial results| ***Sensako* proefresultate**

GTP SUNFLOWER STRIP TRIALS

Sensako SY 3970 CL in the Top 7 Performers of all trial entries.

	Planting Date	Harvest Date	Top 7 Perfomer	Yield % of Mean	Yield
Marquard - Willem Botha	11/01/2019	n/a	★	127	1.19
Koster - Koster BV	10/1/2018	n/a		115	2.96
Petrus Steyn - SONOP BV	22/11/2018	n/a		100	2.79
Hoopstad - HN Saad	26/11/2018	26/4/2019		106	1.50
Excelsior - Bertus Wessels	11/1/1018	7/6/2019		101	2.06
Senekal - Pierre Truytsman	15/1/2019	31/5/2019		94	2.15

KEY

★	Cultivar was the Top Performing Cultivar
	Cultivar was Ranked as a Top 7 Performer

COMMENT:

At Excelsior strip trial SY 3970 CL was ouside the Top 7 ranked performers but yielded in line with the mean for all entries.

ARC/**LNR** - NCEP 2018/2019

BOSKOP
SY3970CL
- Top 10 presteerder
- 3.25 t/ha – 105% van proefgemiddeld

COLIGNY
SY3970CL
- 1.23 t/ha – 95% van proefgemiddeld

LICHTENBURG
SY3970CL
- 2.54 t/ha – 94% van proefgemiddeld

POTCHEFSTROOM
SY3970CL – vroeë aanplanting
- Top 10 presteerder
- 2.56 t/ha – 107% van proefgemiddeld

SY3970CL – laat aanplanting
- Top 10 presteerder
- 2.31 t/ha – 114% van proefgemiddeld

VILJOENSKROON
SY3970CL
- 2.58 t/ha – 95% van proefgemiddeld

BOSKOP
SY3970CL
- Top 10 performer
- 3.25 t/ha – 105% of trial average

COLIGNY
SY3970CL
- 1.23 t/ha – 95% of trial average

LICHTENBURG
SY3970CL
- 2.54 t/ha – 94% of trial average

POTCHEFSTROOM
SY3970CL – early planting
- Top 10 performer
- 2.56 t/ha – 107% of trial average

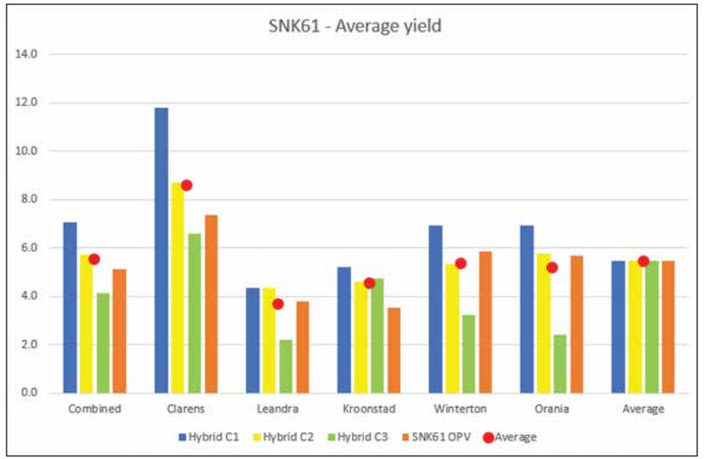
SY3970CL – late planting
- Top 10 performer
- 2.31 t/ha – 114% of trial average

VILJOENSKROON
SY3970CL
- 2.58 t/ha – 95% of trial average

** Goeie cultivar prestasie, behaal meer as 90% van die proefgemiddelde oor die gekombineerde proefresultate oor die verskeie areas*
** Good cultivar performance, achieved above 90% of trial average for the combine trial results over the different aeas*

SNK61OPV

Area	Hybrid C1	Hybrid C2	Hybrid C3	SNK61 OPV	Average
Combined	7.07	5.74	4.15	5.15	5.53
Clarens	11.79	8.68	6.57	7.36	8.60
Leandra	4.36	4.35	2.19	3.80	3.68
Kroonstad	5.20	4.62	4.76	3.56	4.54
Winterton	6.93	5.36	3.24	5.86	5.35
Orania	6.95	5.76	2.43	5.70	5.21
Average	7.05	5.75	3.89	5.24	



Sensako trial results| ***Sensako* proefresultate**

SNK61OPV

Year	Values	Opp1 (Hy)	Opp2 (Hy)	Opp3 (Hy)	SNK 61 OPV
2017	Combined	7.07	4.15	5.74	**5.15**
	Bultfontein				
	Clarens	11.79	6.57	8.68	**7.36**
	Clocolan				
	Leandra	4.36	2.19	4.35	**3.80**
	Kroonstad	5.20	4.76	4.62	**3.56**
	Winterton	6.93	3.24	5.36	**5.86**
	Orania	6.95	2.43	5.76	**5.70**
2018	Combined	6.28	5.49		**4.02**
	Bultfontein				
	Clarens	10.04	7.76		**7.15**
	Clocolan	4.19	5.14		**5.38**
	Leandra	4.64	3.82		**1.57**
	Kroonstad	7.32	5.20		**5.13**
	Winterton	5.14	5.43		**0.62**
	Orania				
2019	Combined	8.07			**5.00**
	Bultfontein	12.13			**7.66**
	Clarens	9.67			**5.29**
	Clocolan				
	Leandra	2.41			**2.05**
	Kroonstad				
	Winterton				
	Orania				

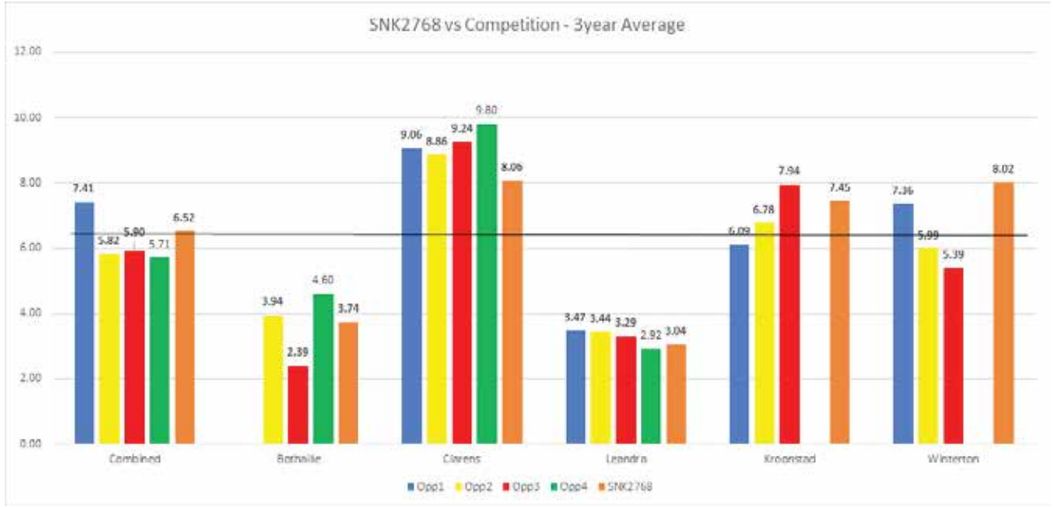
Sensako trial results| ***Sensako*** **proefresultate**

SNK2768

SNK2768 - 4 YR					
Trial	**2016**	**2017**	**2018**	**2019**	**AVE**
Combined	7.89	8.21	5.86	4.13	6.52
Bothaville				3.74	3.74
Clarens	7.15	9.90	7.99	7.19	8.06
Kroonstad	6.67	8.63	7.06		7.45
Leandra		3.67	3.95	1.50	3.04
Winterton	8.50	10.16	5.39		8.02
Grand Total	**7.55**	**8.11**	**6.05**	**4.14**	**6.14**

Sensako trial results| ***Sensako* proefresultate**

SNK2768



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