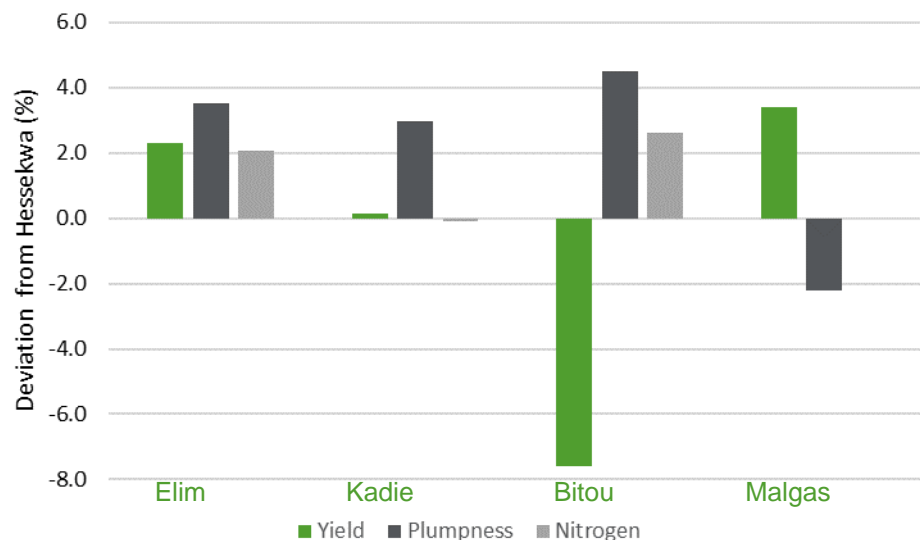


Long term relative agronomic performance of varieties in the Eastern Rûens (4 localities)

Napky • Swellendam • Heidelberg • Hdb Vlakte



Yield in kg/ha

Variety	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	6041	4651	3452	2849	3770	4153	100.0
Elim	***	5072	3541	2942	3506	3765	102.3
Kadie	5647	5079	3612	3111	3343	4158	100.1
Bitou	5551	4648	3096	2584	3310	3838	92.4
Malgas	6052	5417	3617	2825	3557	4294	103.4

Kernel plumpness

Variety	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	91.5	90.0	80.9	84.0	95.8	88.4	100.0
Elim	***	92.1	83.1	91.1	96.7	90.8	103.5
Kadie	94.3	93.7	76.9	92.3	98.2	91.1	103.0
Bitou	94.0	92.4	89.2	89.3	97.2	92.4	104.5
Malgas	91.7	91.0	67.1	86.2	96.4	86.5	97.8

Kernel nitrogen

Variety	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	2.09	2.03	2.41	2.27	1.93	2.15	100.0
Elim	***	2.08	2.56	2.27	1.91	2.21	102.1
Kadie	2.06	2.03	2.49	2.26	1.88	2.14	99.9
Bitou	2.11	2.09	2.58	2.26	1.97	2.20	102.6
Malgas	2.06	2.03	2.54	2.24	1.86	2.15	100.0



Long term agronomic performance of barley varieties for the Rûens 2022

Variety	Straw length	Scald	Net form of net blotch	Spot form of net blotch	Leaf rust
Hessekwa	M	R	S	MS	R
Elim	M	MR	MR	S	R
Kadie	MS	R	MR	S	MR
Bitou	MS	R	MS	S	MR
Malgas	MS	R	S	MS	MR

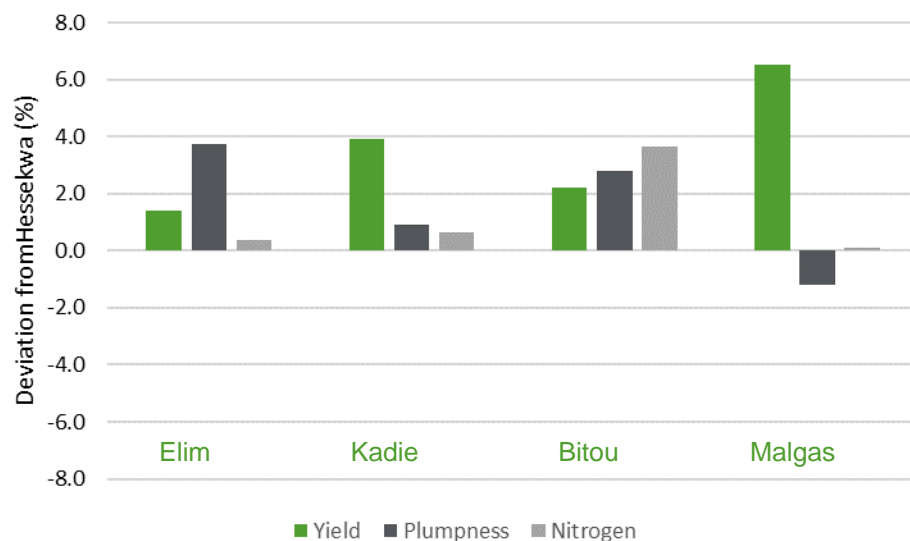
MT = Medium Tall
M = Medium
MS = Medium Short
S = Short

MR = Moderately Resistant
MS = Moderately Susceptible
R = Resistant
S = Susceptible



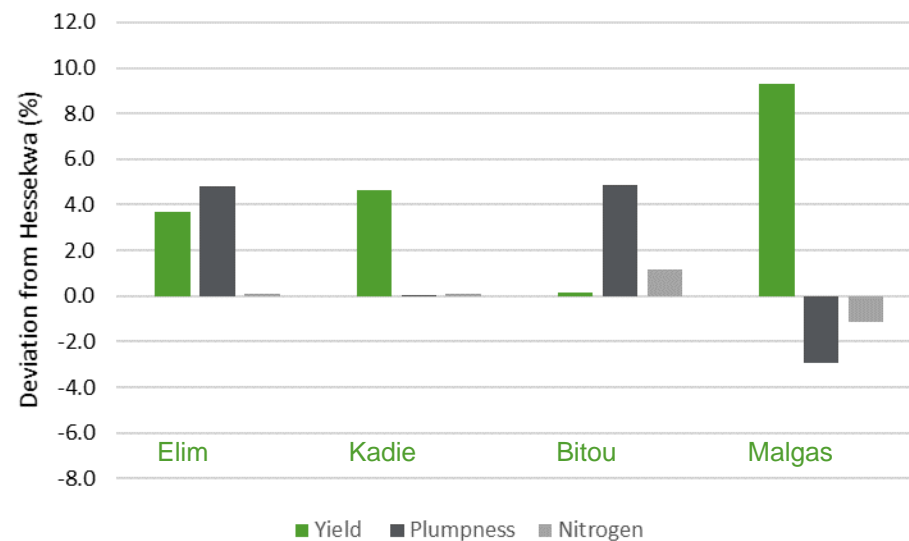
Long term relative agronomic performance of varieties in the Western Rûens (4 localities)

Caledon • Rietpoel • Greyton • Tygerhoek



Long term relative agronomic performance of varieties in the Southern Rûens (4 localities)

Napier • Klipdale • Bredasdorp • Proteem



Yield in kg/ha

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	5419	5270	3500	6507	4397	5019	100.0
Elim	***	6125	3356	6122	4349	4988	101.4
Kadie	5597	6422	3741	6216	4103	5216	103.9
Bitou	5578	5340	3609	6290	4828	5129	102.2
Malgas	6205	6112	3947	6096	4375	5347	106.5

Kernel plumpness

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	95.2	93.4	74.3	95.4	91.5	90.0	100.0
Elim	***	95.4	80.1	97.0	95.3	92.0	103.7
Kadie	97.5	94.7	71.0	97.2	93.5	90.8	100.9
Bitou	97.6	92.3	81.2	96.8	94.5	92.5	102.8
Malgas	95.5	92.0	68.1	95.0	93.9	88.9	98.8

Kernel nitrogen

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	1.54	1.80	2.17	1.89	2.21	1.92	100.0
Elim	***	1.78	2.29	1.85	2.18	2.03	100.4
Kadie	1.57	1.76	2.22	1.88	2.24	1.93	100.6
Bitou	1.63	1.83	2.32	1.90	2.28	1.99	103.6
Malgas	1.58	1.75	2.19	1.89	2.21	1.92	100.1

Yield in kg/ha

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	5437	5218	3216	5376	3370	4523	100.0
Elim	***	6000	3028	5673	3117	4455	103.7
Kadie	6062	5638	3445	5507	3021	4735	104.7
Bitou	5457	5432	3003	5446	3316	4531	100.2
Malgas	5816	6192	3436	5935	3347	4945	109.3

Kernel plumpness

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	96.5	95.9	77.0	82.2	96.9	89.7	100.0
Elim	***	97.9	84.0	90.1	96.9	92.2	104.8
Kadie	97.5	97.3	68.6	87.6	97.8	89.8	100.1
Bitou	98.2	97.8	86.0	91.1	97.2	94.1	104.9
Malgas	96.7	97.0	59.8	84.8	97.1	87.1	97.1

Kernel nitrogen

Varieties	2021	2020	2019	2018	2017	Average	% dev
Hessekwa	1.65	2.05	2.39	2.24	2.01	2.07	100.0
Elim	***	2.05	2.47	2.26	1.92	2.18	100.1
Kadie	1.63	2.06	2.35	2.24	2.07	2.07	100.1
Bitou	1.73	2.05	2.41	2.20	2.07	2.09	101.2
Malgas	1.65	2.04	2.30	2.30	1.93	2.04	98.8