

South African
Barley
Breeding
Institute

SSG 564

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It is not practical to produce universally applicable guidelines for spring barley husbandry. These guidelines take the view that growers who have had success with Clipper over many years – and honed their husbandry accordingly – require information about how growing SSG 564 will differ in ways that can affect profitability

Planting date: SSG 564 has an average maturity and must be sowed approximately the same time as Clipper.

Planting density: SSG 564 is a medium tillering variety with erect early growth, and should be planted at the same density as Clipper. It is important that thousand grain weight is taken into account when calculating a seed rate for SSG 564 to ensure the correct plant population is established.

Kernel Nitrogen: Husbandry trial data shows that SSG 564 achieve similar kernel nitrogen levels compared to Clipper. The suggested fertiliser rates should be the same as Clipper.

Straw length: SSG 564 has medium/long straw with average to poor straw strength. In high potential areas straw strength could potentially become a problem.

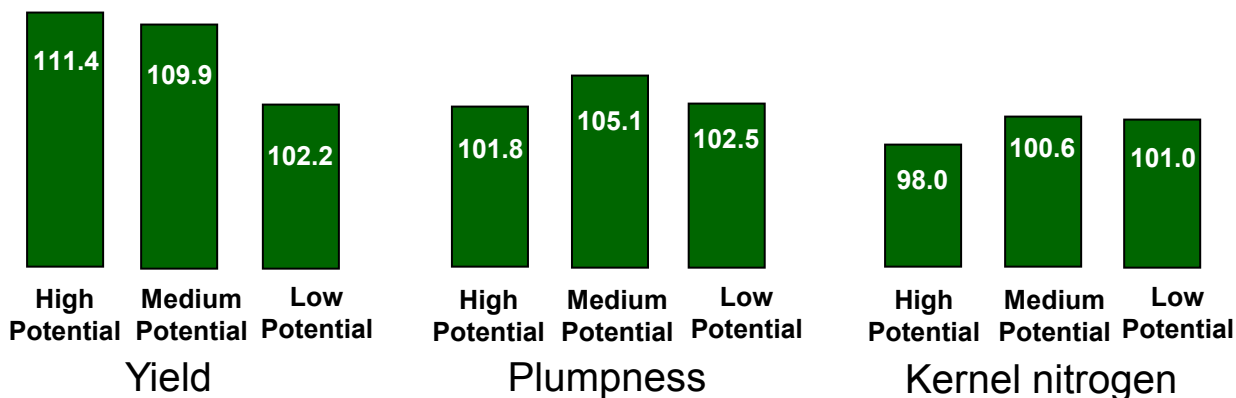
Disease resistance: SSG 564's inherently moderate resistance to the major spring barley diseases provides an opportunity to adopt a managed strategy to disease control and keep fungicide costs down. SSG 564 shows moderate Leaf blotch resistance and moderate susceptibility against the Net blotch complex (spot-form and net-form). An integrated approach must be used for disease management, where attention is given to variety, crop rotation, seeding density, seeding date as well as chemical control. For chemical control the plants/camps must be periodically monitored to prevent delayed fungicide applications. The risk of fungicide resistance must always be considered, especially with the use of strobilurin containing products. Evaluate every season according to its own merits considering differences between disease pressure and intensity between seasons.

Harvesting: During normal harvesting conditions no problem exist with SSG 564.

SSG 564

Medium yield potential
Wide regional adaption

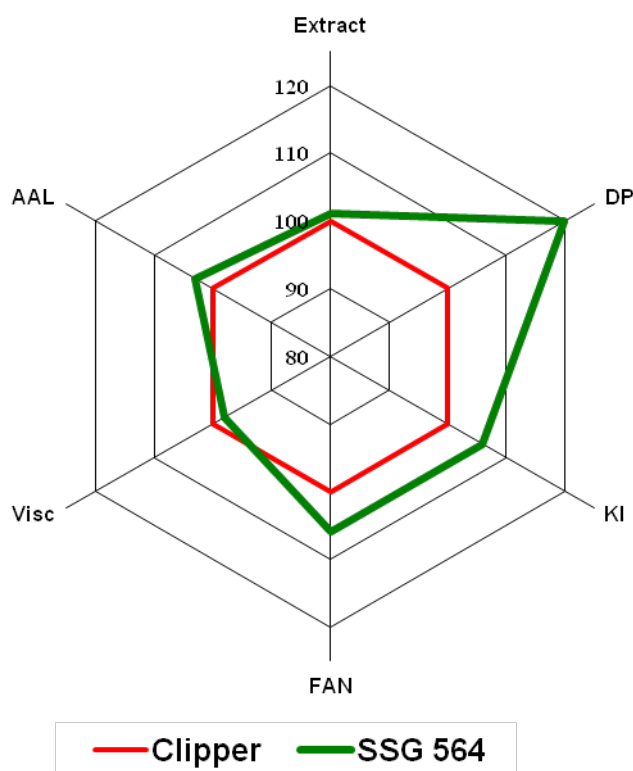
General disease resistance
Good malting quality



Long term regional treated data (6 years) compared to the control in the Southern Cape (Clipper)

Growth period	Medium Fast
Seeding rate	Medium
Straw length	Medium Tall
Straw strength	Medium Weak
Peduncle strength	Medium Weak

Disease	Resistance rating
Leaf blotch	Moderately Resistant
Net-form net blotch	Moderately Susceptible
Spot-form net blotch	Moderately Susceptible
Leaf rust	Susceptible



Average yield (kg/ha)

Region	Cultivar	2007	2006	2005	2004
High Potential	Clipper	4267	3854	4531	3352
	SSG 564	4609	3968	4515	3465
Medium Potential	Clipper	2718	4377	3452	2570
	SSG 564	3782	4291	3642	3106
Low Potential	Clipper	4001	3284	3633	2569
	SSG 564	4942	3607	3340	2904

Average percentage plumpness (> 2.5mm)

Region	Cultivar	2007	2006	2005	2004
High Potential	Clipper	92.7	73.5	86.4	93.9
	SSG 564	93.6	83.3	85.1	93.8
Medium Potential	Clipper	90.4	85.1	83.2	87.0
	SSG 564	90.1	84.4	88.9	87.9
Low Potential	Clipper	78.0	80.8	77.7	87.7
	SSG 564	89.0	84.6	84.4	85.2

Long term quality characteristics as percentage deviation from Clipper (Micromalting results)