

South African
Barley
Breeding
Institute

COCKTAIL

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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 Puma over many years – and honed their husbandry accordingly – require information about how growing Cocktail will differ in ways that can affect profitability

Planting date: Cocktail has an average maturity and must be planted approximately the same time as Puma (1st June to 21st June).

Planting density: Cocktail is a good tillering variety, and should be planted at the a seed density of 60-80 kg/ha depending on the seedbed. It is important that thousand grain weight is taken into account when calculating a seed rate for Cocktail to ensure the correct plant population is established.

Kernel Nitrogen: Husbandry trial data shows that Cocktail achieve 5% lower kernel nitrogen levels compared to Puma. The suggested fertiliser rates should be 20 kg/ha Nitrogen (N) higher than Puma.

Straw length: Cocktail is 1-2 cm shorter than Puma and shows good straw strength with excellent resistance to lodging. It is import to control aphids during September and October as the "honeydew" produced by aphids tend to increase the plant weight, and could lead to potential lodging.

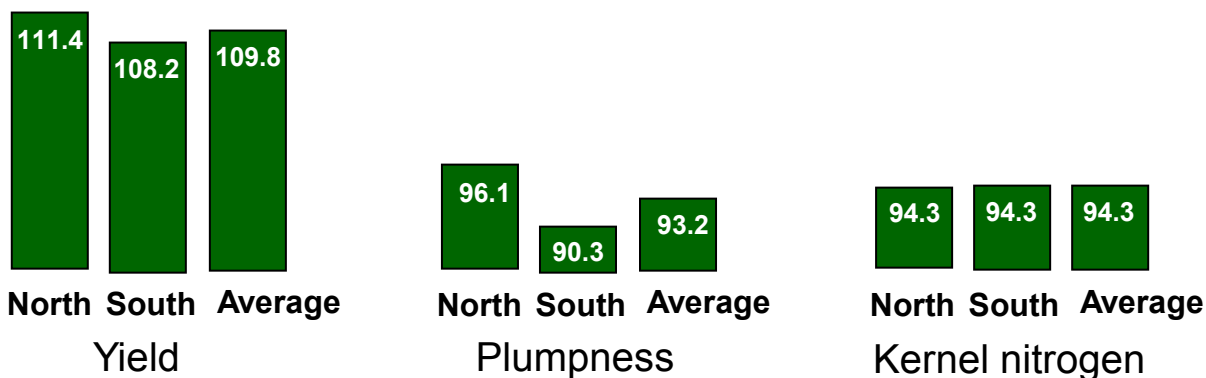
Irrigation scheduling Cocktail requires an adjusted irrigation schedule due to the higher yield potential, longer grain filling period and a longer growing season. Special attention must be paid to the plant available moisture during grain filling and until the end of the growing season. Do not decrease irrigation during stem elongation with Puma. Irrigate until the secondary or side-ears are physiological ripe. Ensure the soil profile remains completely filled at all times. Cocktail is a high yielding variety and requires sufficient available soil water.

Harvesting: During normal harvesting conditions no problem exist with Cocktail and it reaches harvest maturity approximately 5 days later than Puma.

Cocktail

High yield potential
Wide regional adaption

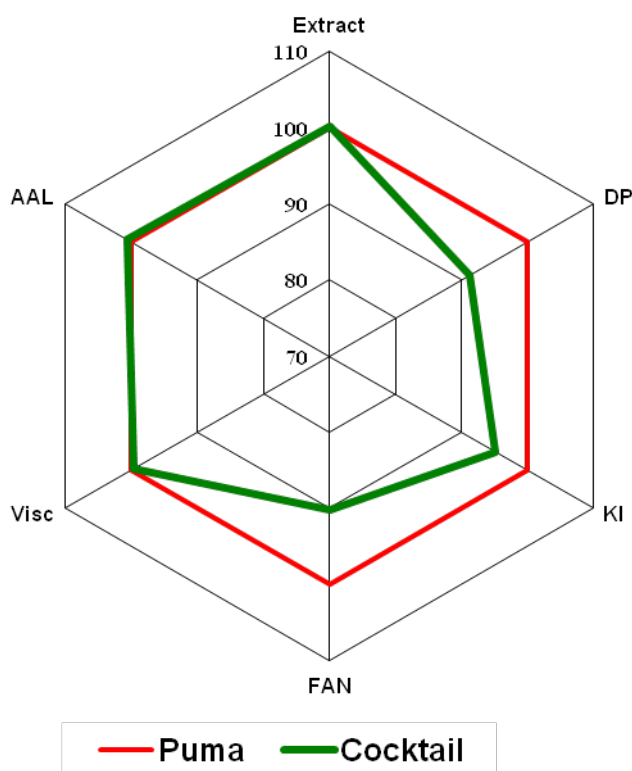
Resistance to lodging
Irrigation spring barley



Long term regional treated data (6 years) compared to the control in the Northern Cape (Puma)

Growth period	Medium Long
Seeding rate	Medium
Straw length	Medium Short
Straw strength	Strong
Peduncle strength	Medium Strong

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



Average yield (kg/ha)

Region	Cultivar	2010	2009	2008	2007
North	Puma	7712	7204	7732	10004
	Cocktail	9162	7947	9109	9916
South	Puma	5325	6369	8539	7249
	Cocktail	6053	6355	9178	7728
Average	Puma	6519	6787	8135	8627
	Cocktail	7607	7151	9144	8822

Average percentage plumpness (> 2.5mm)

Region	Cultivar	2010	2009	2008	2007
North	Puma	97.2	92.3	96.0	97.0
	Cocktail	94.2	82.6	95.7	94.4
South	Puma	83.2	93.7	94.7	85.1
	Cocktail	73.5	88.9	86.3	73.9
Average	Puma	90.2	93.0	95.4	91.0
	Cocktail	83.8	85.7	91.0	84.5

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