

Example Soybean Product Target

Product Target

Develop a MG5-6 soybean variety for use in dryland and irrigated production regions of South Africa in rotation with maize on ground inoculated with Rhizobia bacterial strain WB74, having high yield, excellent yield stability, high resistance to lodging and pod shattering yield, and tolerance to glyphosate herbicide

Characteristic	Measurement Standard	Threshold Level / Range
High seed yield	Machine harvest; seed weight at 13% moisture basis, expressed per unit of land	10% greater than Variety X
High yield stability	Use regression analysis or GGE biplot analysis	Comparable to Variety X
Lodging resistance	1-5 scale; 1=plant erect, 5=prostrate	Score ≤ 2
Resistance to pod shattering	Oven dry method; 10 point scale measuring percentage affected; 0=none, 1=1-10%, 10=91-100%	Score ≤ 1
Medium maturity	Maturity Group; day length and temperature requirement to initiate floral development; full range includes Group 000 to Group 9	MG 5-7
RR1 event (Roundup Ready 1)	Integrate 40-3-2	Pre-determined level of glyphosate tolerance