

BEANS

Cultural Information

General

Climate Requirement: Beans require mild temperate conditions with maximum daily temperatures in the low 30's and nights in the high teens, low or excessive high temperatures will result in reduce yields or total losses. High humidity is also not recommended.	
Frost Sensitivity: Sensitive to low temperatures and frosts	
Seed Requirement Direct Plant (kg/ha): 60	Seed Planting Depth (cm): 4.0
Seed Requirement Transplant (g/ha):	Seeds per gram (approx): 3-5
Plant Population: 120000 - 150000 PER Ha	
Row spacing: 60 - 90 CM	Plant Spacing: 8 - 15 CM
Potential Disease Problems: Bacterial and Fungal diseases are the major concern and require constant attention.	

Germination Information

Germination Temperature: 15 - 30 degrees C, Optimum 23 - 28 C	
Days to Emergence: 5 - 8 days	Emergence to Transplant: not advisable
Plant to Maturity: 7 - 11 weeks depending on the variety and season.	
Transplant Recommendation: transplanting of beans is not commercially viable	

Soil and Nutrition

Salinity Sensitivity: very sensitive to salt	Optimum pH: 5.8 -7.3
Nutrient Removal (kg/ha) (At average yield, greater if yield is higher)	
Vegetative: N 50 Kg, P 7 Kg, K 38 Kg ,Ca 30 Kg, Mg 4 Kg. per Ha	
Harvested Product: N 85 Kg, P 10 Kg, K 14 Kg ,Ca 5 Kg, Mg 2 Kg. per Ha	
Total Nutrient Removal	
N 135 Kg, P 17 Kg, K 52 Kg ,Ca 35 Kg, Mg 6 Kg. per Ha	
Fertiliser Application: Being fast growing beans need available nutrients (85 -100 %) from very early in their growth cycle (basal), with little need for side dressing (15%) maximum.	

Irrigation Requirement

Irrigation System: Flood or overhead most commonly used
Water Usage (average): 2.4 - 3 MI per Ha

Yield Potential

Average Yield: 400 - 460 ctns per Ha
Packing: Beans are now usually packed in 10 kg cartons, some are still supplied in bags but this is reducing.

This information is subject to the following disclaimer.