

CARROTS

Cultural Information

General

Climate Requirement: Carrots require generally temperate conditions to perform to best potential, heat approaching maturity will effect colour, cold temperatures in the early stages (5-8 true leaf) will cause excessive bolting.	
Frost Sensitivity: Generally not considered frost tender but cold temperatures will effect yields and maturity schedules	
Seed Requirement Direct Plant (kg/ha): 2-5	Seed Planting Depth (cm): 1.5
Seed Requirement Transplant (gm/ha):	Seeds per gram (aprox): 600-1000
Plant Population: 900000-1500000 per ha	
Row spacing: Usually 2- 4 rows per 1.5 m to 1.8 m bed	Plant Spacing: 30-60 mm
Potential Disease Problems: Major diseases of carrots include alternaria leaf blight and various root infections, control of most is possible by variety selection or chemical application.	

Germination Information

Germination Temperature: Range 8-30 C, Optimum 22-25 C	
Days to Emergence: 6-8 days	Emergence to Transplant: direct seed only
Plant to Maturity: Depending on variety and season 130- 170 days	
Transplant Recommendation: Direct seeding is the only viable option for commercial production.	

Soil and Nutrition

Salinity Sensitivity: Low to moderate tolerance	Optimum pH: 5.5- 7
Nutrient Removal (kg/ha) (At average yield, greater if yield is higher)	
Vegetative: N 62 Kg, P 95 Kg, K 105 Kg, Ca 70 Kg, Mg 11 Kg. per Ha	
Harvested Product: N 90Kg,P 65 Kg, K 90 Kg, Ca 25 Kg, Mg 12 Kg. per Ha	
Total Nutrient Removal	
N 152 Kg, P 150 Kg, K 195Kg, Ca 95 Kg, Mg 23 Kg. per Ha	
Fertiliser Application: Up to 100% P, 50 % N and K, as a basal application and the balance as 2 evenly spaced sidedressing's other elements should be applied at 50% basal and balance at first sidedress.	

Irrigation Requirement

Irrigation System: Sprinkler irrigation is preferred, however flood irrigation is sometimes used
Water Usage (average): 4.1-5 MI per Ha for average crop cycle

Yield Potential

Average Yield: 40 tonne per Ha
Packing: Carrots are usually packed in cartons or bags of 10 -12 kg, after size grading. Sometimes prepacked into smaller packs.

This information is subject to the following disclaimer.