

TOMATOES, OPEN FIELD DETERMINATE

Cultural Information

General

Climate Requirement: Ideal conditions are mild temperate climate with warm to hot days (25 -32 c) and mild nights (15-18 c) temperatures outside of these ranges will reduce yield potential. Rain at or approaching maturity will degrade fruit quality.	
Frost Sensitivity: Sensitive to low temperatures and frosts	
Seed Requirement Direct Plant (kg/ha): 1.5	Seed Planting Depth (cm): 1.0
Seed Requirement Transplant (g/ha): 100	Seeds per gram (approx): 250-350
Plant Population: 6800-13000 /ha	
Row spacing: 1.5-1.8 Metres	Plant Spacing: 0. 5-0.8 Metre
Potential Disease Problems: A wide range of diseases effect tomatoes, genetic resistances to many are now available. Consult variety descriptions for details.	

Germination Information

Germination Temperature: Range 15-35 C Optimum 23-28 C	
Days to Emergence: 5-7 days	Emergence to Transplant: 24-42 days
Plant to Maturity: Depending on variety and area, 65 to 120 days	

Soil and Nutrition

Salinity Sensitivity: Medium tolerance	Optimum pH: 5.5-6.8
Nutrient Removal (kg/ha) (At average yield, greater if yield is higher)	
Vegetative: N 70 Kg, P 30 Kg, K 100 Kg, Ca 90 Kg, Mg 22 Kg. per Ha	
Harvested Product: N 60 Kg, P 20 Kg, K 86 Kg.	
Total Nutrient Removal	
N 130 Kg , P 50 Kg, K 170 Kg, Ca 100 Kg, Mg 25 Kg. per Ha	
Fertiliser Application: A basal dressing of all P and 60-70 % of the other element totals, balance should be applied in regular applications in line with fruit production.	

Irrigation Requirement

Irrigation System: Trickle irrigation with plastic mulch, flood irrigation or sprinklers are all suitable.
Water Usage (average): 3.8-5.5 Ml per Ha depending on system.

Yield Potential

Average Yield: 5500-7000 cartons per Ha
Packing: Tomatoes are marketed in cartons of size and colour graded fruit, in volume filled 10 Kg cartons, or tray packed "gourmet" style fruit by count.

This information is subject to the following disclaimer.