

PRODUCTION GUIDELINES FOR BROCCOLI

Crop	Broccoli
Botanical Name	<i>Brassica oleraceae var. cymosa</i>
Number of Seeds per kg	220 000 - 350 000
Number of Seeds for Direct Sowing (kg/ha)	1 - 1.2
Number of Seeds for Transplanting (g/ha)	200 - 600
Sowing Depth (cm)	1-1.5
Optimum Soil Temperature for Germination	22°C
Days to Emergence	5
Days from Germination to Transplant	21-42
In Row Spacing (cm)	25-50
Between Row Spacing (cm)	45-60
Population per Hectare	20 000 - 40 000
Temperature Range for Growth	15-25°C
Sensitivity to Frost	Hardy
Days to Maturity	65 - 120
Expected Yields (ton/ha)	8-15
Harvest Period	14 days
Effective Rooting Depth (cm)	45-60
Optimum Soil Type	Loam
Soil pH	6-6.8
Sensitivity to Salinity	Fairly Tolerant
Total Water Requirement (mm)	440
Weekly Water requirement (mm)	30 - 38
Storage Temperature (°C)	0
Ideal Humidity for Storage	95-100
Storage Duration	7-10
Perishability	Easily Perishable
Pests	American Bollworm , Aphids, Bagrada Bug, Diamond Back Moth, Greater Cabbage Moth, Nematodes, Red Spider Mite
Diseases	Bacterial Spot (Warm water treatment Seed), Black Rot (<i>Xanthomonas campestris</i>), (Warm water treatment Seed), Black Leg (<i>Leptosphaeria maculans</i> , <i>Phoma lingam</i> , (Warm water treatment of Seed), Black Ring (VirusControl Aphids), Cabbage Yellows, (High temperatures, Clubroot (<i>Plasmodiophora brassicae</i>) (Fumigate - Methyl Bromide), Damping Off, Downy Mildew (<i>Peronospora parasitica</i>), Mosaic Virus (Control aphids), Ring Spot, Soft Rot (Secondary Infection), Stem Rot, White Blisters, White Rust.
Physiological Disorders	Oedema (Overwatering and high humidity), Frost Damage (Exposed leaves become waterlogged, Brown Bead, Hollow Stem
Suggested amount of: Nitrogen (N)	100-150 kg/ha
Phosphorus (P)	40-60 kg/ha
Potassium (K)	100-150 kg/ha
Micro-element Sensitivity: Low	Manganese (Mn) , Zinc (Zn), Copper (Cu)
High	Boron (B), Molybdenum (Mo), Iron (Fe)