

2/13/2009

BROCCOLI

Broccoli is a vegetable belonging to the family **Brassicaceae**. Other Vegetables in the group are - Cauliflower - Cabbage – Brussels sprouts. Broccoli is a source of vitamins, minerals, protein and fiber. Annual crop.

Variety at Agro Grace : **Packman**

Packman – Heat tolerant variety producing excellent heads through.. Heads are dark green in colour and weighing over ½ - 1 lb. Harvesting 45 to 50 days after transplanting.

Site Selection – No family of the Broccoli should have been planted for a good while on the site. PH of 6.5 and higher. Well drained sandy loam is ideal.

Nursery -- Plant seeds in a properly arranged area providing adequate protection from rain, sun and diseased conditions. Use seed trays to plant. Use Actara in nursery and one week after transplanting.

Transplanting -- 30 - 40 days after sowing. Plant seedlings – 3ft. x 1.5ft. Treat seedlings with Actara 14 days before transplanting.

Crop care – Test soil to determine nutrient level before applying fertilizer to crop.

Fertilizing : [Dry blend]

Sulphate of Ammonia	150 – 200 lbs. per acre	Half at transplanting. Side dress balance 3 weeks before cutting.
Phosphorus	150 – 200 lbs. per acre	At transplanting
Potassium	150 – 200 lbs. per acre	90 lbs. at transplanting. Balance 4 weeks .
Trace elements	Boron , Magnesium	7 – 10 days interval

Irrigation - Provide adequate amounts of water, but do not over water.

Diseases :

2/13/2009

Bacterial Soft Rot - Water soaked spots , enlarging and turning brown..
Control - keep plants stem and leaves relatively dry. Kill insects that transmit diseases.

Leaf Spot , Alternaria - Water soaked leaf spots, developing into dark brown sunken spots.
Control - Sancozeb ; Ridomil ; Amistar ; Mankocide

Downy Mildew - Under side of leaves covered with a white fluffy fungal growth.. Leaves will eventually fall.
Control -- reduce water on upper part of plant. Use drip irrigation to water.
Spray with one of the following Anvil; Ridomil ; Sancozeb ; Amistar ; Mankocide.

Powdery Mildew - Upper side of leaves covered with white lesions which merge to give a dusty appearance .
Control - reduce water on upper part of plant.
Spray with one of the following Anvil; Ridomil ; Sancozeb ; Amistar ; Mankocide

Root Rot - Leaf margins turn red to purple. Leaves dying from tip to stem.
Plant wilts and die.
Control - Avoid over wetting of soil.
Treat soil with Ridomil or Mankocide or Amistar

Cauliflower Mosaic - Chlorosis (bleaching) along leaf veins. Mosaic of light and dark green areas on the leaves. Stunted plants.
Control - proper sanitation of plot. Plant resistant varieties.

Hollow Stem -- Center of stem splits due to poor growth.
Control - Allow for normal regular growth by monitoring the level of fertility of the soil. Space plants properly.

Pests :

Pests	Chemical
Army worm	Actara; Xentari : Match ;Karate Zeon; Pegasus; Vertimec
Cabbage Lopper	Actara; Xentari : Match ;Karate Zeon; Pegasus; Vertimec
Cabbage Worm	Actara; Xentari : Match ;Karate Zeon; Pegasus; Vertimec
Diamond Back Moth	Actara; Xentari : Match ;Karate Zeon; Pegasus; Vertimec

2/13/2009

Fruit Worm	Actara; Xentari : Match ;Karate Zeon; Pegasus; Vertimec
Aphids	Actara; Karate Zeon; Pegasus; Vertimec
Whiteflies	Actara; Karate Zeon; Pegasus; Vertimec
Leafminer	Actara; Karate Zeon; Pegasus; Vertimec

Rates per 4 lt.-

Karate Zeon	10ml
Dipel, Xentari	30gm
Malathion	5ml
Match	10ml
Pegasus	5ml
Selecron	5ml
Sevin	15gm
Dimethoate	5ml
Vertimec	3ml
Xentari	30gm
Actara	13 gm/5 gal.

