

Common pests and diseases on cabbage in Ghana



Black rot

Xanthomonas campestris pv. Campestris
(CABI. Teresia Kodwaran, Kenya)

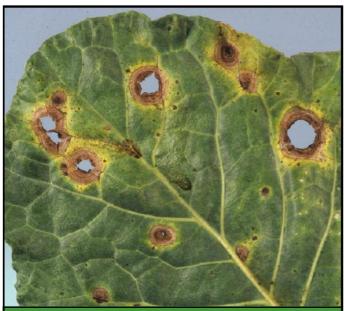
- Yellow areas along leaf edges which expand to the leaf midrib, giving a distinctive 'V' shaped lesions with yellow margins and brown necrotic tissue in the centre
- Leaf veins can appear brown/black
- Plants may be stunted
- Heads are smaller and outer leaves may die



Cabbage ring spot

Mycosphaerella brassicicola (syn. Cercospora albomaculans) (David B. Langston, buggwood.org)

- Light brown grey/dark brown spots surrounded by a yellow halo, up to 20 mm wide angular and limited by veins, tiny black dots (fruiting bodies) inside the spots, arranged in concentric circles
- Spots occur on seedlings but usually on older leaves of mature plants



Leaf spot/black spot

Alternaria brassicicola

(Gerald Holmes, Bugwood.org)

- Light brown to grey/dark brown spots surrounded by a yellow halo, up to 25 mm wise, tiny black dots (fruiting bodies) inside the spots arranged in concentric circles. Lesions are not limited by leaf veins as they are with Cabbage ring spot disease
- Spots occur on seedlings but usually on older leaves of mature plants



Nematodes

Meloidgyne spp.
(CABI. Scott Bauer, Bugwood.org)

- Affected plants appear in patches
- Stunted and yellow, may wilt in hot weather
- Roots are severely distorted and swollen, with lumps (galls) which may be pinhead-sized to 25 mm wide



Common pests and diseases on cocoyam in Ghana



Aphids

Brevicoryne brassicae

(Kimberly Steinmann and Alton N. Sparks, Bugwood.org)

- Adults: Greyish-green body with greyish-white to powdery blue waxy covering. Found in clusters on lower leaves, stems or growing points
- Nymphs: brownish, on underside of leaves and stems
- Wilting or yellowing of plants and the presence of sooty mould where aphids have been feeding
- Ants may be protecting the aphids



Diamondback moth (DBM)

Plutella xylostella

(Sipher Wu Bettaman. David Coppaert, Bugwood.org. A. M. Varela. CABI)

- Small, grey moths which have a diamond pattern on their wings when resting
- Caterpillars are yellowish/green, around 1 cm long when fully grown. Hang from a web when disturbed and often appear at the 4 leaf stage
- Leaves: irregular holes, windowing and skeletonised underside

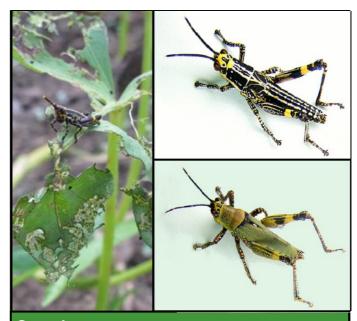


Webworm

Hellula undalis

(Alton N. Sparks and Natasha Wright, Bugwood.org)

- Larvae: creamy white, light pinkish-brown stripes along the body, Dark brown/black head. Feed on underside of leaves. Up to 12-15 mm long.
 Often covered in weds which become covered in dirt and frass.
- Adult: Sandy brown moth with a black spot and zigzagging light brown lines on wings, about 12 mm wide
- Plant stunting, multiple growing points/heads, mining of leaves, bore holes in stems



Grasshopper

Zonocerus variegatus

(Georg Goergen, IITA Insect Museum)

- Juveniles: 2mm long at their smallest. All instars have yellow and black stripes parallel to the body axis
- Adults: can grow to 30-52 mm, yellow and black stripes with red spots, main body is a yellow-green colour
- Chewed leaves and stems

