

Critical periods for diseases and pests

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Sunflower

Emergence – 4th–5th leaf – weevils (grey corn weevil *Tanymecus dilaticolis*, black beet weevil *Psalidium maxilosum*)

Emergence – bud formation – downy mildew *Plasmopara halstedii*

Germination – emergence – flowering – grey mould *Botritis cinerea*

Cotyledons – beginning of flowering – rust *Puccinia helianthi*

5th–6th leaf – bud formation – grey leaf spots *Diaporthe helianthi*, brown leaf spots *Alternaria sp.*, charcoal rot *Macrophomina phaseolina*, verticillium wilt *Verticillium sp.*

Flowering – yellow ripeness – sclerotinia *Sclerotinia sclerociorum*

Flowering – seed filling – dry head rot *Rizopus sp.*

Maize

Before sowing – during sowing – 6th–7th leaf – wireworms from the family *Elateridae*

Germination – seed and seedling rot *Fusarium sp.*, *Aspergillus sp.*, *Nigrospora oriza*

Emergence – 5th–7th leaf – weevils (grey corn *Tanymecus dilaticolis* and grey beet *Tanymecus palitatus*), cutworms from the family *Noctuidae*

From the beginning of vegetation – aphids *Aphis evonymi*, *Rhopalosiphum maidis*,

1st–9th leaf – viral diseases (maize dwarf mosaic *Maize dwarf mosaic virus* and wheat streak mosaic *Wheat streak mosaic virus*)

5th–6th leaf – flowering – common smut *Ustilago zeaе*

6th–8th leaf – tasselling – European corn borer *Ostinia nubilalis*, cotton bollworm *Helicoverpa armigera*

Flowering – milk ripeness – stalk rot *Fusarium sp.*, leaf blight *Helminthosporium turcicum*

Milk ripeness – full ripeness – ear fusariosis

Oilseed rape

Cotyledons – rosette formation – crucifer flea beetles of the genus *Phyllotreta*: black cabbage flea beetle (*Phyllotreta atra* L.), wavy-striped flea beetle (*Phyllotreta undulata* Kutsch.) and others, rape stem flea beetle (*Psylliodes chrysocephala* L., rape leaf sawfly (*Atalia rosae* Christ.), rape beetle (*Entomoscelis adonidis* Pall.).

Stem elongation – formation of flower stalks - cabbage bug (*Eurydema ornata* L.), turnip bug (*Eurydema oleraceum* L.), large white butterfly (*Pieris brassicae* L.), small white butterfly (*Pieris rapae* L.), cabbage moth (*Mamestra brassicae* L.), seed weevils of the genus *Ceutorhynchus*.

Bud formation – flowering_ rape blossom beetle (*Meligethes aeneus* F.), hairy beetle (*Tropinota hirta* Poda.), seed weevils of the genus *Ceutorhynchus*: rape stem weevil (*Ceutorhynchus napi* Gyll.), cabbage stem weevil (*Ceutorhynchus pallidactylus* (Marsh.) (synonym *Ceutorhynchus quadridens*).

Pod formation – pod weevil (*Ceutorhynchus assimilis* Payk.), cabbage aphid (*Brevicorynae brassicae* L.), pod midge (*Dasyneura brassicae* Winn.).

Monitor the crops and take measures in good time!