

Cabbage Fusarium yellows wilt (132)

Summary

- Worldwide distribution. Members of the brassica family are hosts, especially cabbage. The fungus enters the roots, blocking the flow of the water and food; leaves yellow and slowly wilt. A brown stain occurs, often one-sided, when stems cut; on young plants, twisting, stunting and often death. Important soil-borne disease.
- Spread is by spores in soil water, in infected seedlings, soil from nurseries, and on machinery and footwear; plants in the horticultural trade. Survival is by resistant spores in the soil.
- Cultural control: tolerant varieties (cabbage, broccoli, cauliflower); nursery hygiene: clean trays, pasteurise soil or use soilless mixes, monitoring; plant in well-drained fields; raised beds; crops rotations, collect and burn trash after harvest.
- Chemical control: not recommended.



Photo 1. Root decay and stem rot caused by Fusarium wilt. Often the disease is more severe on one side of the plant, and this causes the leaves to bend sideways.

Common Name

Fusarium wilt of cabbage, Fusarium yellows, brassica Fusarium wilt

Scientific Name

Fusarium oxysporum f.sp. *conglutinans*. There are several strains of the fungus.

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Information (and Photo 1) *Diseases of vegetable crops in Australia* (2010). Editors, Denis Persley, et al. CSIRO Publishing; and from CABI (2019) *Fusarium oxysporum* f.sp. *conglutinans* (cabbage fusarium wilt). Crop Protection Compendium. (<https://www.cabi.org/cpc/datasheet/24632>).

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