

Davis R.M., Raid R.N. 2002. *Compendium of Umbelliferous Crop Diseases*. APS Press
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This compendium is an international account of diseases of umbelliferous crops and of practical guidelines for their control. To family *Umbelliferae* (syn. *Apiaceae*) belong 250 genera and more than 2500 species, among which are many used as vegetables, spices or both. In a tabular form a list of 31 edible umbelliferous plants is given e.g. angelica (*Angelica archangelica*), anis (*Pimpinella anisum*), carrot (*Daucus carota*), celery (*Apium graveolens*), coriander (*Coriandrum sativum*), parsley (*Petroselinum crispum*), parsnip (*Pastinaca sativa*), cumin (*Cuminum cuminum*). However, the book deals mainly with diseases of carrot, celery and parsnip.

In "Introduction" (p. 1–9) interesting information on origin and domestication of carrot and celery are given together with diseases resistance breeding.

Part I "Infectious Diseases" (p. 10–59) contains three chapters. Chapter "Diseases caused by bacteria" (p. 10–15) provides information on symptoms, diseases cycle, epidemiology and control of *Pseudomonas cichorii*, *Xanthomonas campestris*, *Pseudomonas marginalis*, *Pseudomonas syringae*, *Streptomyces scabies*, *Erwinia carotovora* and *E. chrysanthemi*. Chapter "Diseases caused by fungi" (p. 15–41) provides information on pathogens causing foliar, crown, root and wilt diseases., that belong to genera: *Alternaria*, *Mycocentrospora*, *Cercospora*, *Passalora*, *Colletotrichum*, *Plasmopara*, *Septoria*, *Erysiphe*, *Protomyces*, *Acremonium*, *Leptosphaeria*, *Pythium*, *Sclerotinia*, *Rhizoctonia*, *Fusarium*, *Itersonilia*, *Phoma*, *Phymatotrichopsis*, *Phytophthora*. Chapter "Diseases caused by nematodes" (p. 45–50) emphasizes that out of 90 species of plant parasitic nematodes associated with umbelliferous plants of economic importance are: *Heterodera carotae*, *Pratylenchus penetrans*, *P. hamatus*, *Longidorus africanus*, *L. elongatus*, *Meloidogyne arenaria*, *M. chitwoodi*, *M. fallax*, *M. hapla*, *M. incognita*, *M. javanica*, *Belonolaimus longicaudatus*, *Paratrichodorus minor*, *Dolichodorus heterocephalus*, *Rotylenchus robustus*. Chapter "Diseases caused by viruses and phytoplasmas" (p. 42–59) describes the following pathogens: alfalfa mosaic virus, potato calico virus, carrot motley virus, carrot thin leaf virus, carrot virus Y, celery mosaic and many others that are listed in the table giving their names, symptoms, transmission and distribution. Of special significance is aster yellows caused by phytoplasma attacking more than 300 plant species.

Part II "Injuries and abiotic and noninfectious biotic disorders" (p. 60–67) describes injury to crop caused by air pollution, fertilizers, salinity and herbicides.

Description of causative agents is supported by 136 color photographs and voluminous index makes easy to use this very helpful compendium.

Jerzy J. Lipa
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