

# LANDSCAPE REPORT

## Volutella leaf blight and stem canker of pachysandra

Gail Ruhl

ruhlg@purdue.edu

Volutella stem and leaf blight caused by the fungal pathogen *Volutella pachysandricola* can cause major damage to *Pachysandra*, destroying large areas in a bed. (Fig 1) Infected leaves first develop tan or brown blotches with dark brown margins, which expand, often with concentric lighter and darker target-like zones. (Figs 2a,b) Stem and stolon cankers appear as water-soaked diseased areas, turn brown, shrivel and often girdle the stem, causing stem dieback. (Figs 3a,b) Orangish spore masses develop in the cankered areas and the underside of infected leaves. (Fig 4)

Volutella blight of *pachysandra* is often associated with plant stresses such as recent transplanting, exposure to bright sunlight, scale insects, and winter damage. Normally this disease does little damage to vigorous plants, thus providing good growing conditions is the most important control measure.



Fig 1. Large areas of *Pachysandra* ground cover killed by *Volutella* (PPDL)



Fig 2a. Initial dark blotches on leaves. (PPDL)



Fig 2b. Target-like zones on more mature leaf lesions (J. Chatfield)



Fig 3a. Stem dieback due to girdling by the fungus (PPDL)



Fig 3b. Fungal canker girdles stem, contributing to dieback (J. Chatfield)

Unfortunately, a dense planting bed of *pachysandra* is the desired horticultural outcome, thus thinning the planting to allow better air circulation and leaf drying is not an aesthetically pleasing option.

It has been reported that one approach that has worked over the years in severely infected beds involves mowing infected plantings to 1-2" (with a bagger attached to catch the diseased tissue). Mowing improves air movement in dense plantings and reduces extended periods of moisture conducive to fungal infection. This simple cultural practice followed by the use of labeled fungicides, applied according to label directions, and applied several times at two week intervals is reported to protect newly emerging growth and reduce the amount of disease present. It is also wise to avoid overhead irrigation in the evenings and to dig out and destroy severely diseased plants with basal stem cankers.



Fig 4. Orange spore masses of *Volutella* on *Pachysandra* during moist conditions (PPDL)

Note: label specifications change over the years thus be sure to check labels of products containing mancozeb, chlorothalonil, thiophanate-methyl, etc., to be sure they may be applied. The label is the law!!!