

has been kindly loaned by the Ohio Experiment Station.] They germinate on the leaves of the raspberry and blackberry; the germinating tubes enter the stomata or breathing pores of the leaf, develop a mycelium inside and finally produce on the surface, the spores of the *teleuto* stage, which had heretofore been considered an entirely different fungus, called by botanists *Puccinia peckiana*. These *Puccinia* spores are believed to be washed down to the underground shoots, and to infect them with the mycelium, which subsequently produces the orange spores of spring. Blackberries are most commonly affected by this fungus, especially certain varieties, but black cap raspberries often suffer also.

TREATMENT.

"All diseased canes should be cut out and burned as soon as they show signs of disease. Insist on your neighbours keeping the rust in check, and also look out for wild plants that have it. A spraying with fungicides will doubtless assist in preventing infection, especially of the *Puccinia* stage."

SELECT LIST OF RASPBERRIES FOR GARDEN CULTURE.

YELLOW—Brinckle's Orange, Golden Queen.

RED—Heebner, Cuthbert.

BLACK—Older, Gregg.

PURPLE—Shaffer.

LIST FOR COMMERCIAL PURPOSES.

YELLOW—Golden Queen.

RED—Hansell, Marlboro', Cuthbert.

BLACK—Older, Hilborn, Gregg.

PURPLE—Shaffer (for near market).