

POTENTIAL ADDITIVE GROWTH REGULATOR EFFECTS OF
TRIAZOLE FUNGICIDES ON PGR-TREATED BEDDING PLANTS

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Fungicides such as triadimefon and propiconazole are chemically very similar to triazole growth regulators (PGRs) frequently used during bedding plant production. The possibility of additive or synergistic effects when fungicides and PGRs are both applied was investigated. Seedlings of *Viola ×wittrockiana* (pansy), *Petunia ×hybrida*, and *Catharanthus roseus* (annual vinca) were grown in a greenhouse and treated with the PGRs paclobutrazol or uniconazole. The fungicides triadimefon or propiconazole were applied as sprays in a factorial experiment. Both fungicides reduced plant width and root dry weight of petunia, and triadimefon reduced width and root dry weight of pansy. For annual vinca, a physiological leaf spot occurred on all plants treated with triadimefon, but with propiconazole, the leaf spot occurred only on plants also treated with a PGR.