

GLADIOLUS

used in these tests. Corms were dipped December 9 and 11,860 corms were planted per treatment, December 10. Diseased plants were counted March 24, 1970 and flowers harvested were counted April 24. Significant differences among treatments was only evident with the variety Captain Bush. The results are shown in Table 3.

TABLE 3. EFFECT OF FUNGICIDE CORM DIP ON A WINTER GLADIOLUS PLANTING

Treatment	Plants diseased	Flowers harvested
	%	%
Thiabendazole, 60W 1.5 lb	4.3 a*	60.5 a
PCNB, 75W 1 lb plus Mors. 2.2% 1.7 pt	4.8 a	54.6 a
Benomyl, 50W 0.5 lb	5.1 a	61.6 a
Untreated check	13.1 b	22.2 b

* Significant 1% level—treatments with differing letters are significantly different.



Healthy gladiolus plants, to left, had been treated with TBZ dip for 10 minutes at 1 lb rate. Dead plants in row to right were not treated for *Fusarium* corm rot.

Results of these trials indicate that benomyl and thiabendazole are effective against *Fusarium*, and with added effectiveness against *Stromatinia* and *Botrytis*, are a possible replacement for the mercurials. In general, benomyl appears to be more effective than thiabendazole when compared on an active ingredient basis.

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