

Costs of Using Certain Ornamental Fungicides

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What questions should be answered before deciding to apply a fungicide for disease prevention or cure?

1. What disease is this?
2. Can the disease affect crop value?
3. Can you change the production regime to control the problem?
4. What fungicides are available for control?
5. Do I use a selective or broad-spectrum product?
6. How effective are the choices for that disease?
7. How much does each choice cost for an effective dose?

Fungicide prices are subject to change and vary somewhat from distributor to distributor and state to state. Check you supplier for current prices. Some of the application intervals and rates may not reflect current fungicide labels. Please follow labeled rates and intervals exactly when using fungicides.

Fungicide	Approximate price	Rate per 100 gal	Price per 100 gal	Application interval	Price per month
Aliette	\$21/lb	1 to 2 lb	\$21 to \$42	30 days	\$21 to \$42
Banner Maxx	\$335/gal	2-6 oz	\$5 to \$15	14 days	\$10 to \$30
Chipco 26019	\$32/lb	1 lb	\$32	7-14 days	\$64 to \$128
Cleary 3336	\$23/lb	1 lb	\$23	14 days	\$46
Compass	\$24/oz	1-2 oz	\$24 to \$48	14-21 days	\$31 to \$96
Decree	\$70/lb	1 lb	\$70	7-14 days	\$140 to \$280
Heritage	\$355/lb	0.5-2 oz	\$11 to \$44	14-21 days	\$15 to \$89
Kocide	\$3/lb	1-2 lb	\$3 to \$6	7-14 days	\$6 to \$24
Phyton 27	\$295/gal	15-25 oz	\$35 to \$58	7-14 days	\$69 to \$230
Protect	\$5/lb	1.5 lb	\$8	7-14 days	\$16 to \$32
Subdue Maxx	\$619/gal	1 oz	\$5	30 days	\$5
Terraguard	\$118/lb	4-8 oz	\$30 to \$60	14-30 days	\$30 to \$118

The final table shows some common diseases, the potential efficacy of products available for their control and the resulting costs (product only) of monthly prevention depending on the product chosen.

Disease	Potential efficacy	Costs/month
Bacterial leaf spots	0-90%	\$6 to \$230
Botrytis	80-100%	\$64 to \$280
Downy mildew	Preventative up to 100% Curative 0-85%	\$6 to \$30 \$41 to \$88
Fungal leaf spots	75-100%	\$10 to \$32
Fusarium wilt	0-50%	\$30 to 118
Phytophthora stem rot	50-100%	\$5 to \$21
Powdery mildew	75-100%	\$10 to \$31

Pythium root rot	75-100%	\$5 to \$21
Rhizoctonia stem/root rot	80-100%	\$15 to \$46

Please check your local broker for current product prices.

Look for an updated version of this article in Greenhouse Product News in early 2002.