

Poinsettia Diseases and Their Control



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Common Diseases

- Botrytis blight (*Botrytis cinerea*)
- Phytophthora root rot (*Phytophthora drechsleri*,
Phytophthora nicotianae)
- Powdery mildew (*Pseudoidium poinsettiae*, *Oidium poinsettiae*, *Leveillula clavata*, *Leveillula taurica*, *Oidiopsis taurica*, *Phyllactinia poinsettiae*, *Ovulariopsis erysiphoides*)
- Pythium root rot (*Pythium aphanidermatum*, *Pythium ultimum*, *Pythium cryptotrichum*)
- Rhizoctonia cutting rot and stem rot (*Rhizoctonia solani*)
- Scab (*Sphaceloma poinsettiae*)
- Soft rot (*Pectobacterium* = *Erwinia*)
- Xanthomonas leaf spot (*Xanthomonas axonopodis* pv. *poinsettiae*)





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BOTRYTIS/SCLEROTINIA ROTATION

- **Chipco 26019, 26GT** (2-iprodione)
- **Daconil Ultrex** (M5-chlorothalonil)
- **Decree** (17-fenhexamid)
- **Pageant Intrinsic** (11 and 7-pyraclostrobin and boscalid)
- **Palladium** (12 and 9–fludioxonil and cyprodinil)



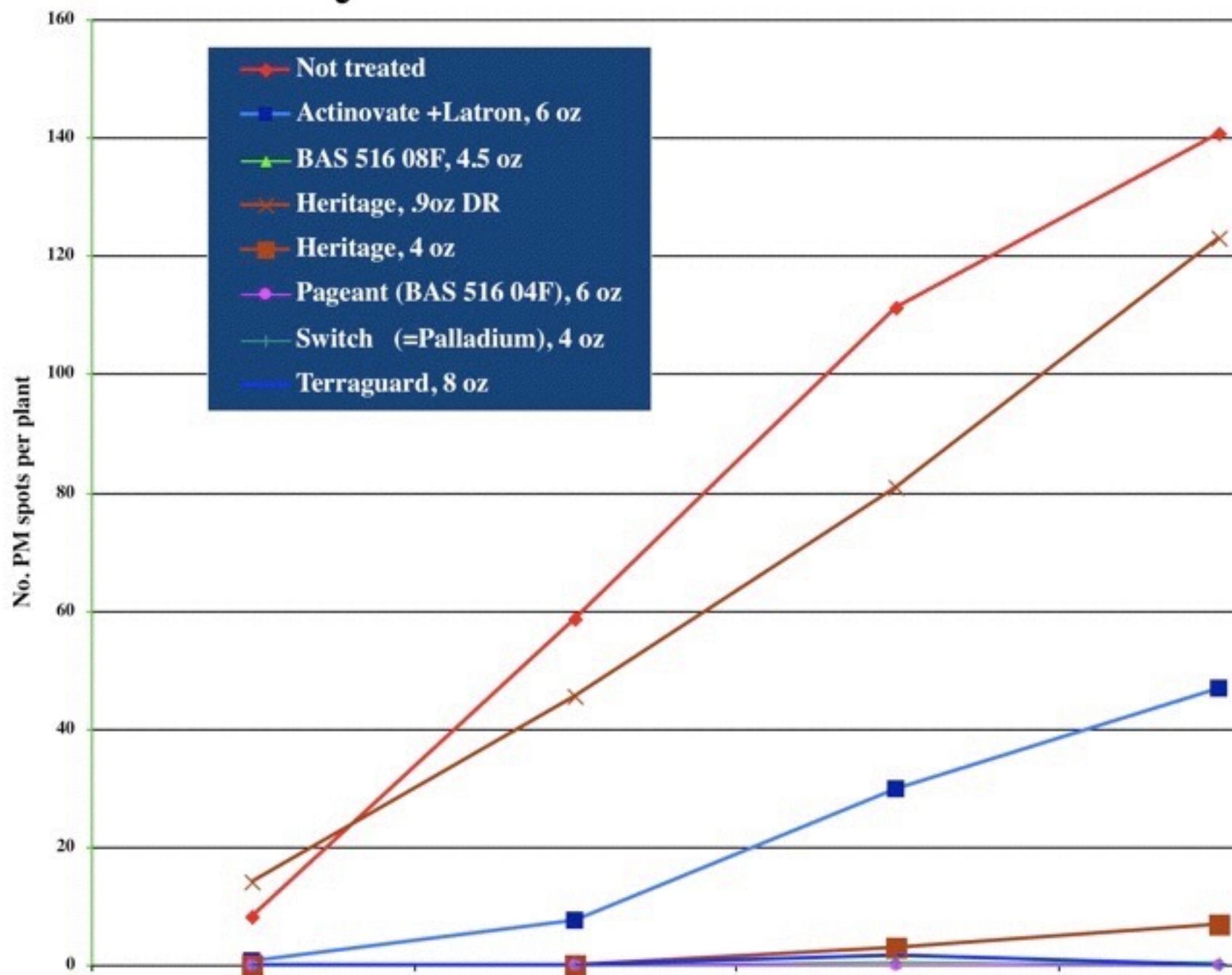
PHYTOPHTHORA ROTATION

- **Adorn** (43-fluopicolide) (tank-mix as directed)
- **FenStop** (11-fenamidone)
- **Segway O** (21-cyazofamid)
- **Subdue MAXX** (4-mefenoxam)
- **Stature SC**(40-dimethomorph) OR **Orvego** (40 and 45-ametoctradin) OR **Micora** (40-mandipropamid)
- **Terrazole** or **Truban** (14-etridiazole)





Powdery Mildew Control on Poinsettia



POWDERY MILDEW ROTATION

- Compass O, Disarm O, Heritage or Pageant Intrinsic (11-strobilurins)
- MilStop (nc-K bicarbonate)
- Palladium (9 - cyprodinil and12 - fludioxonil)
- Phyton 27 (M1-copper)
- Terraguard, Banner MAXX, Eagle and many others (3-sterol inhibitors)





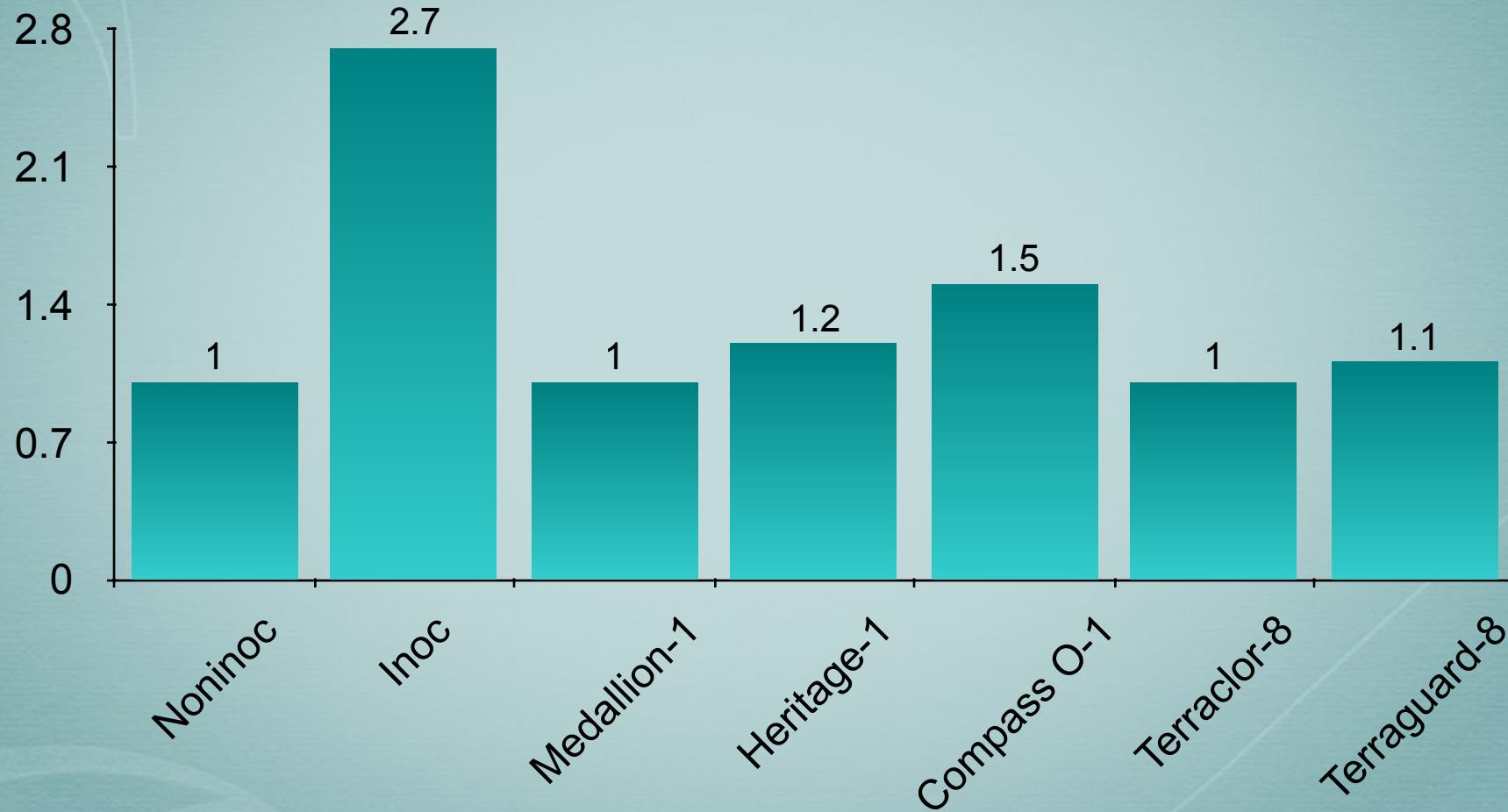


PYTHIUM ROTATION

- RootShield Plus (nc-*Trichoderma harzianum* and *T. virens* G-41)
- Segway O (21-cyazofamid)
- Subdue MAXX (4-mefenoxam) consider adding KleenGrow)
- Terrazole or Truban (14-etridiazole)



Rhizoctonia cutting rot control on Poinsettia



Two drenches on a 7 day interval

Rhizoctonia cutting rot control on Poinsettia

Treatment	Rate/100 gal.	Disease severity 8-12-11	Disease severity 8-19-11	Disease severity 8-26-11	Disease severity 9-1-11
Water Noninoculated	-----	1.0 a	1.0 a	1.0 a	1.0 a
Water inoculated	-----	2.2 b	4.4 b	5.0 b	5.0 b
Medallion	1 oz	1.0 a	1.0 a	1.0 a	1.0 a
Hurricane WP	1.5 oz	1.0 a	1.0 a	1.0 a	1.0 a
Cleary's 3336	16 oz	1.0 a	1.0 a	1.0 a	1.0 a
KleenGrow	6 oz	2.3 b	4.1 b	4.8 b	5.0 b

RHIZOCTONIA ROTATION

- 3336, Fungo, OHP-6672 (1-thiophanate methyl)
- **Heritage, Empress Intrinsic** (11- strobilurins) or **Pageant Intrinsic** (11 and 7-pyraclostrobin and boscalid)
- **Medallion** (12-fludioxonil), **Hurricane** or **Palladium**
- **RootShield or RootShield Plus** (44-*Trichoderma harzianum*) root rot root zone mainly





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Scab control on Poinsettia

Treatment	Rate/100 gal.	# spots per plant
Water noninoculated	-----	0 a
Water inoculated	-----	72 b
Phyton 27	25 oz	19 a
Dithane Rainshield	24 oz	0.3 a
Terraguard	8 oz	0.6 a
Spectro	16 oz	6 a
Eagle 20EW	8 oz	6 a
Junction	48 oz	7 a
Heritage and Latron	2 oz and 0.06%	5 a
Heritage and Latron	4 oz and 0.06%	3 a
Rubigan	4 oz	5 a
MilStop	40 oz	43 b
Protect T&O	16 oz	0 a

SCAB ROTATION

- Compass O, Disarm O, Heritage or Pageant Intrinsic(11-stroblilurins) OHP, Syngenta, BASF
- Mancozeb (M3 - BAD residue sometimes)
- MilStop (nc-K bicarbonate)
- Palladium (9 - cyprodinil and12 - fludioxonil)
- Phyton 27 (M1-copper)
- Terraguard, Banner MAXX, Eagle and many others (3-sterol inhibitors)





Prevention of Xanthomonas leaf spot on poinsettia



Treatment	Rate/ 100 gal.	Height (cm) 10-21-10	Top grade 10-21-10	# Xanthomonas leaf spots 10-29-10	Phytotoxicity 10-29-10
Water Noninoculated	---	20.1 c	3.7 b	0.0 a	1.0 a
Water Inoculated	---	19.4 bc	3.6 ab	13.2 b	1.0 a
Phyton 27 Spray weekly	20 oz	18.8 bc	3.5 ab	1.8 a	1.0 a
KleenGrow Spray weekly	0.1%	17.3 abc	3.4 ab	0.6 a	2.7 b

BACTERICIDE ROTATION

- **Agri-Mycin** (antibiotic-streptomycin sulfate) (best for *Erwinia*)
- **Copper** (M1-Camelot, Kocide and Phyton 27) (most bacteria)
- **KleenGrow** (nc-quaternary ammonium) (most bacteria)
- **Triathlon BA** (nc-*Bacillus amyloliquifaciens*) or **Cease** (nc-*Bacillus subtilis*) (best for *Pseudomonas* and *Xanthomonas*)

Uncommon Diseases

- Alternaria leaf spot (*Alternaria euphorbiae*, *A. euphorbiicola*)
- Anthracnose (*Colletotrichum truncatum*)
- Bacterial blight (*Curtobacterium flaccumfaciens* pv. *poinsettiae*)
- Choanephora wet rot (*Choanephora cucurbitarum*)
- Corynespora leaf spot (*Corynespora cassiicola*)
- Greasy canker (*Pseudomonas viridiflava*)
- Rhizopus blight (*Rhizopus stolonifer*)
- Thielaviopsis root rot (*Thielaviopsis basicola*)



**....There is always
a practical solution**

QUESTIONS???