

BLUEBERRY (*Vaccinium corymbosum* 'Bluetta')
 Mummy Berry; *Monilinia vaccinii-corymbosi*

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Evaluation of fall, soil applied Actinovate for suppression of spring mummy berry apothecia, 2016.

Actinovate AG treatments were arranged in a randomized complete block design, with each treatment replicated 8 times, in a field of 'Bluetta' blueberries planted in 1999 on 5 x 10 ft spacing. Round wire mesh corrals (cages) were placed between bushes and 100 mature mummies (pseudosclerotia) were placed into each corral, in direct contact with the soil, on 24 Sep 15. Each corral of pseudosclerotia was drenched with 500 ml Actinovate AG (2 tsp/gal) on 24 Sep 15, 27 Oct 15 or 2 Dec 15. A duplicate (control) set of pseudosclerotia corrals were also drenched with 500 ml water on each application date.

Spring weather conditions were warm and wet in mid February pushing plant growth ahead of average by 2 weeks. Pseudosclerotia in an adjacent block were at germination/emergence on 29 Feb 16, differentiation on 7 Mar 16 and at sporulation on 15 Mar 16. Last apothecium was found on 31 Mar 16 for a 16 day primary infection period. Stage of pseudosclerotia development above ground was determined for each treatment on 18, 22, 25 and 28 Mar 16.

Open, sporulating apothecia were not observed in any plot treated with water or Actinovate. A few stipe initials (pseudosclerotia stage differentiation) were observed in some plots but much fewer than expected overall. A change in experimental protocol from black plastic corrals to open wire mesh corrals may have been a contributing factor. No conclusions can be drawn from this meager data set.

Month	Temperature (°F)*		Treatment	Ave # of Stipe Initials**
	Air	Soil		
Sept	37 to 83	55 to 60	Water	0.0
			Actinovate AG at 2 tsp/gal...	0.3
Oct	40 to 69	52 to 56	Water	0.1
			Actinovate AG at 2 tsp/gal...	0.6
Dec	39 to 60	39 to 60	Water	0.0
			Actinovate AG at 2 tsp/gal...	0.0

* Temperature range (in degrees Fahrenheit) during the first week after treatment application.

** Means did not differ significantly based on Fisher's protected LSD (P=0.05).