Cantaloupe (*Cucumis melo* L. 'Athena')
    Gummy stem blight; *Didymella bryoniae*

C. -H. Huang and G. E. Vallad
Department of Plant Pathology
University of Florida, GCREC
Wimauma, FL 33598

Evaluation of selected fungicides for management of gummy stem blight on cantaloupe, fall 2011.

Treatment, rate/A (application)[z]	Disease severity (%)[y]				AUDPC[x]
	28 Oct	10 Nov	21 Nov	30 Nov	
Pristine, 18.5 fl oz (1,3,5);					
Bravo WeatherStik, 3 pt (2,4,6)......................	1.13 c[w]	4.50 d	23.3 cd	43.8 c	472 d
Inspire Super, 20 fl oz (1,3,5);					
Bravo WeatherStik, 3 pt (2,4,6)......................	1.50 c	7.88 d	28.0 c	43.8 c	551 d
Fontelis, 24 fl oz (1,3,5);					
Bravo WeatherStik, 3 pt (2,4,6)......................	6.75 c	18.5 c	37.5 b	72.0 b	883 c
Luna Experience, 10 oz (1-6)……....................	32.8 b	72.0 b	83.9 a	92.9 b	1993 b
Luna Experience, 10 oz (1,3,5);					
Bravo WeatherStik, 3 pt (2,4,6);					
Pristine, 18.5 fl oz (2,4,6)…............................	0.75 c	3.00 d	16.1 d	23.3 d	295 e
Luna Experience, 10 oz (1,3,5)………...............	83.9 a	96.3 a	92.1 a	96.3 a	2469 a
Non-treated Control.........................	79.1 a	95.1 a	92.9 a	98.5 a	2462 a
P > F	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*

[z] Listed treatments were applied weekly over a six week period (1 to 6) on a per acre rate basis unless noted otherwise.

[y] The severity of bacterial spot was assessed as the percentage of canopy affected. The Horsfall-Barratt scale was used for all ratings, but values were converted to mid-percentages prior to statistical analyses.

[x] Area under the disease progress curve (AUDPC) values were calculated using the formula: $\Sigma([(x_i+x_{i-1})/2](t_i-t_{i-1}))$ where x_i is the rating at each evaluation time and (t_i-t_{i-1}) is the time between evaluations.

[w] Means followed by the same letter are not significantly different according to Fisher's LSD test ($\alpha=0.05$).