



# Powdery Mildew & Botrytis Control



*Chardonnay - Cal Poly State University, Santa Maria, CA 2021*

## ProBlad Verde in rotation with other Synthetic Fungicides in a Conventional program



Treatment #	Treatment, amount/A <sup>1</sup>	Days after first application <sup>2</sup>
1	UNTREATED CONTROL	
2	Flint Extra 3.5 fl oz + Serenade ASO 16 fl oz	0
	Luna Experience 8.6 fl oz	14
	Vivando 15.4 fl oz	28
	Scala 18 fl oz + Kumulus 8 lbs	42
	Torino 3.4 fl oz	56
	Serenade ASO 16 fl oz	70
3	Luna Sensation 7.6 fl oz	0
	Luna Experience 8.6 fl oz	14
	Vivando 15.4 fl oz	28
	Scala 18 fl oz + Kumulus 8 lbs	42
	Torino 3.4 fl oz	56
	Serenade ASO 16 fl oz	70
4	Luna Experience 8.6 fl oz.	0
	Luna Sensation 7.6 fl oz	14
	Vivando 15.4 fl oz	28
	Scala 18 fl oz + Kumulus 8 lbs	42
	Torino 3.4 fl oz	56
	Serenade ASO 16 fl oz	70

Treatment #	Treatment, amount/A <sup>1</sup>	Days after first application <sup>2</sup>
5	Miravis 2.74 fl oz	0, 14, 28, 42, 56, 70
6	Quintec 6.6 fl oz	0, 14, 28, 42, 56, 70
7	Luna Experience 7.87 fl oz	0, 14, 28, 42, 56, 70
8	Gatten EC 6.4 fl oz	0, 14, 28, 42, 56, 70
9	Parade 3.2 fl oz	0, 14, 28, 42, 56, 70
10	PROBLAD VERDE 43 fl oz/a	0
	Luna Sensation 7.6 fl oz	14
	Luna Experience 8.6 fl oz	28
	Scala 18 fl oz + Kumulus 8 lbs	56
	PROBLAD VERDE 43 fl oz/a	70
11	Miravis Prime 13.4 fl oz	0
	Aprovia Top 13.3 fl oz	14
	Inspire Super 20 fl oz	28
	Miravis Prime 13.4 fl oz	42
	Quintec 6.6 fl oz	56
	Aprovia Top 13.3 fl oz	70

No app:	6 ( 0, 14, 28, 42, 56, 70 Days after 1 <sup>st</sup> application)
Spray interval:	14 days
Spray volume:	50 GPA

<sup>1</sup> - The nonionic surfactant **Dyne-Amic (0.125% v/v)** was added to all fungicide treatments

<sup>2</sup> - **Spray dates and phenological stages:**

0 = 25 May (bloom);  
 14 = 8 Jun (BB-size berries)  
 28 = 22 Jun (pea size berries)  
 42 = 7 Jul (bunch closure)  
 56 = 20 Jul (pre veraison)  
 70 = 3 Aug (veraison)

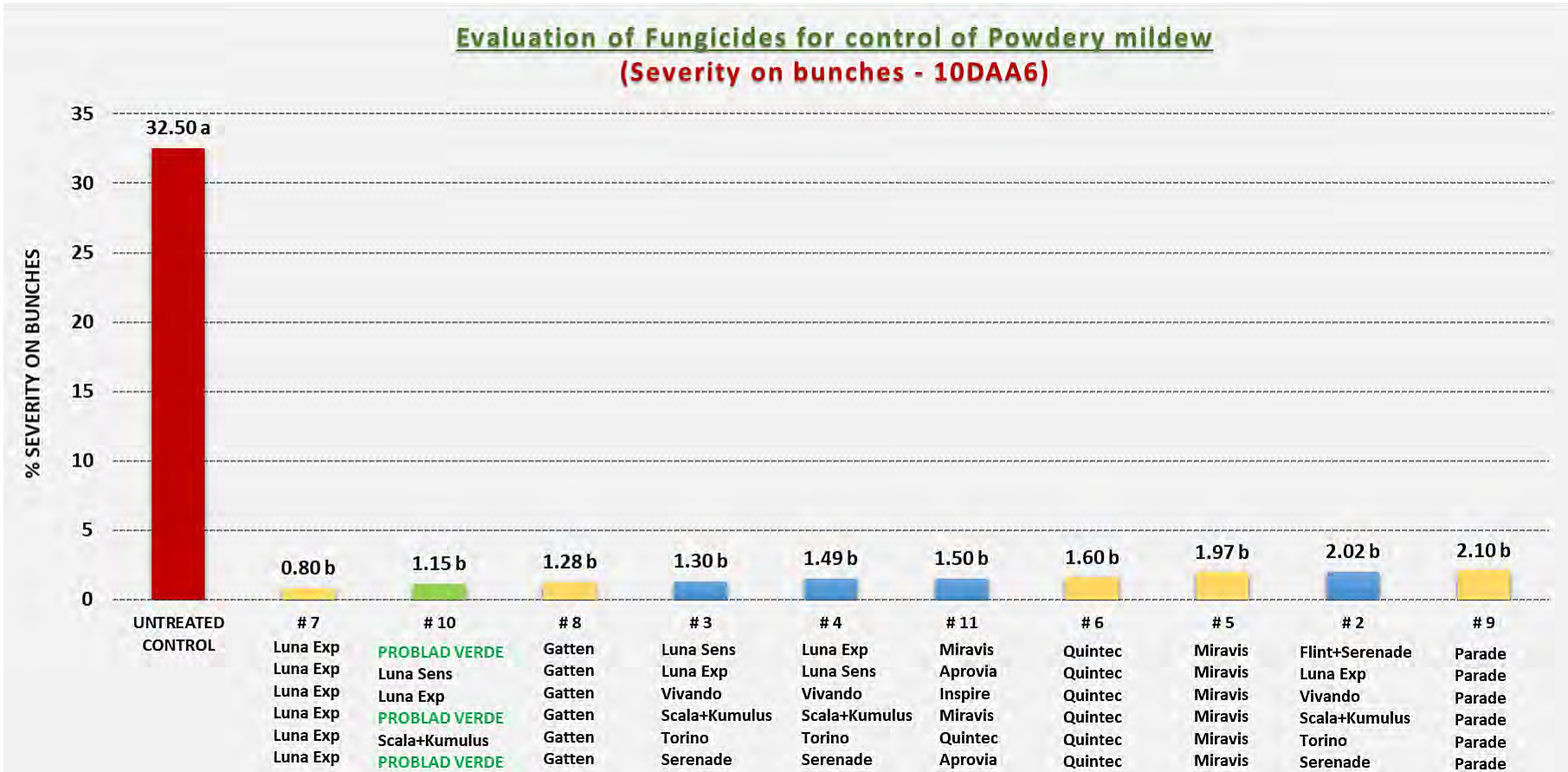


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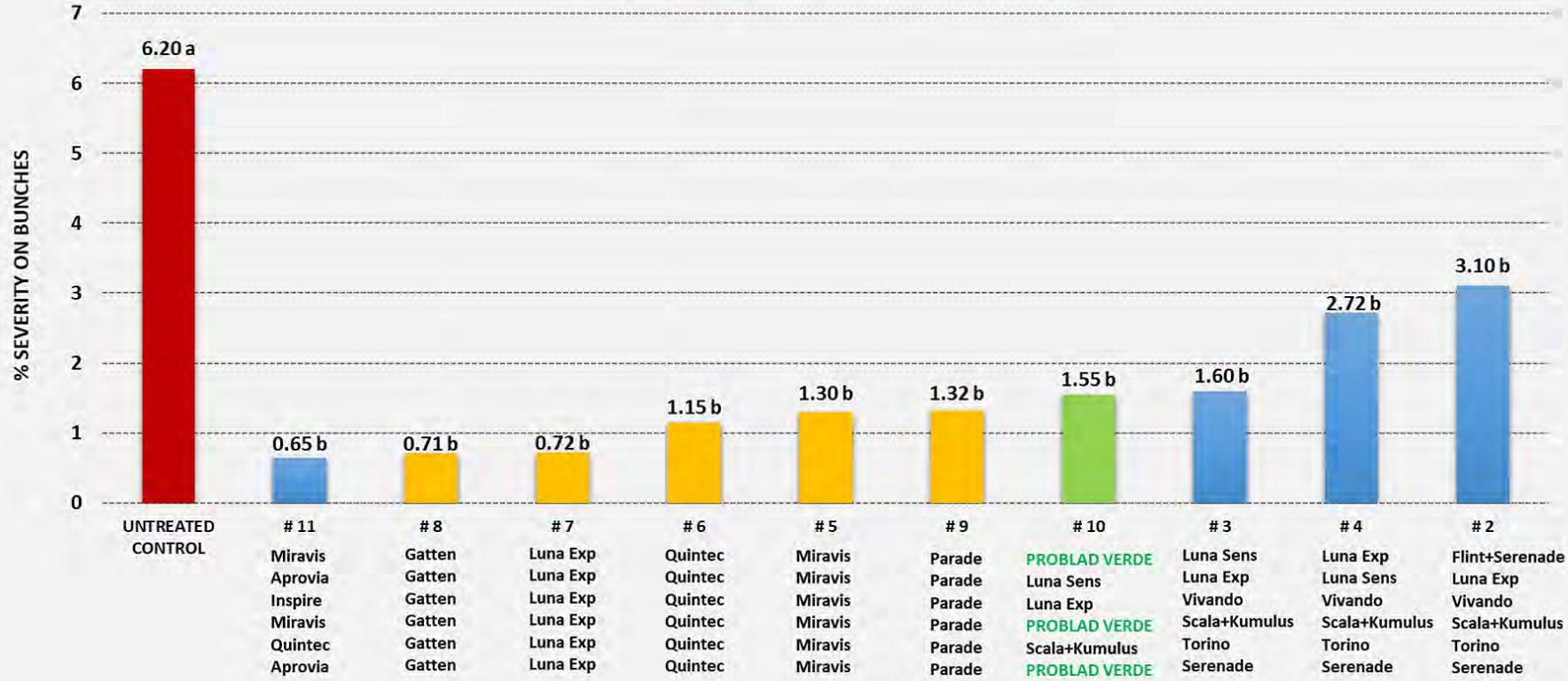
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**ProBlad Verde in rotation with other Synthetic Fungicides in a Conventional program**

Evaluation of Fungicides for control of Botrytis bunch rot  
(Severity on bunches - 20DAA6)



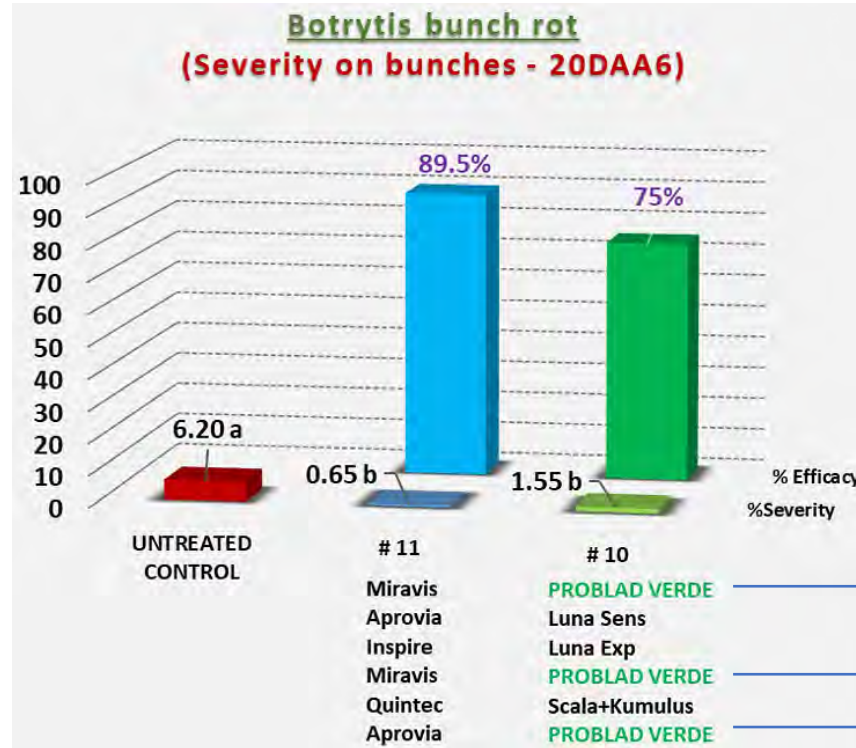
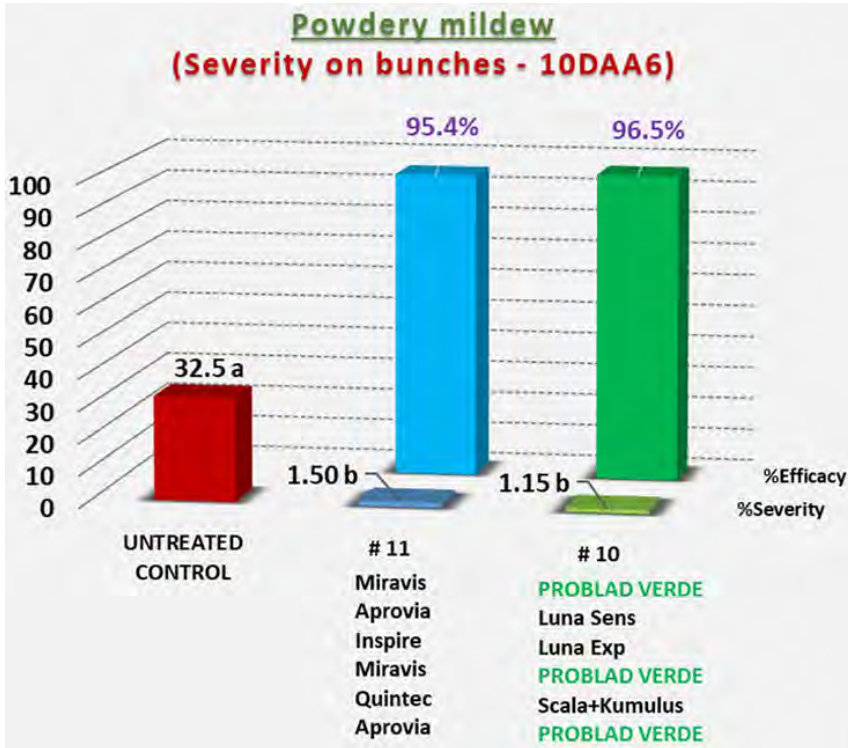


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## Conventional Program



### CONCLUSIONS:

➤ PROBLAD VERDE applied @ 43 fl oz/A in rotation with other synthetic fungicides (Luna Sensation, Luna Experience and Scala + Kumulus) provided a statistically equivalent control as a Standard Conventional Program exclusively with synthetic fungicides.

→ Bloom

→ Bunch closure

→ Veraison

A Conventional program integrating PROBLAD VERDE applied at bloom, bunch closure and veraison provides a proven solution for PM and Botrytis bunch rot control in grapevines and performs equally well as a standard top line program and gives them a break from developing resistance and residues management.



# Powdery Mildew & Botrytis Control



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## ProBlad Verde in rotation with Cinnerate in an Organic program



Treatment #	Treatment, amount/A	Days after first application <sup>2</sup>
<b>1</b>	<b>UNTREATED CONTROL</b>	
<b>2</b>	Switch 62.5 WG 14 oz	0, 28, 56
<b>3</b>	Switch 62.5 WG 14 oz	0, 28
<b>4</b>	Switch 62.5 WG 14 oz	0, 28
	A22613[A] 27.4 fl oz	56, 70
<b>5</b>	Switch 62.5 WG 14 oz	0, 28
	Regalia 50 SC 2 qt	56, 70
<b>6</b>	A22613[A] 27.4 fl oz	0, 14, 28, 42, 56, 70
<b>7</b>	A22613[A] 54.7 fl oz	0, 14, 28, 42, 56, 70
<b>8</b>	A22613[A] 27.4 fl oz + Kinetic 0.05%	0, 14, 28, 42, 56, 70
<b>9</b> <sup>1,3</sup>	BC18 10 <sup>13</sup> CFU/A	0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70
<b>10</b> <sup>1,3</sup>	Serenade ASO 16 fl oz	0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70
<b>11</b> <sup>1</sup>	Luna Experience 8.6 fl oz	0
	Luna Sensation 7.6 fl oz	14
	Vivando 15.4 fl oz	28
	Scala 18 fl oz + Kumulus 8 lbs	42
	Torino 3.4 fl oz	56
	Serenade ASO 16 fl oz	70
<b>12</b>	<b>PROBLAD VERDE 40 fl oz</b>	0, 14, 28, 42, 56, 70
	Cinnerate 25 fl oz	14, 42, 70

<b>No app:</b>	6 ( 0, 14, 28, 42, 56, 70 Days after 1 <sup>st</sup> application) 11 (0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70 Days after 1 <sup>st</sup> application)
<b>Spray interval:</b>	14 days (7 days – Trt # 9 and 10)
<b>Spray volume:</b>	50 GPA

<sup>1</sup> - The nonionic surfactant **Dyne-Amic (0.125% v/v)** was added

<sup>2</sup> - **Spray dates and phenological stages:**

0 = 25 May (bloom);  
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<sup>3</sup> - 11 applications | 7 days spray interval



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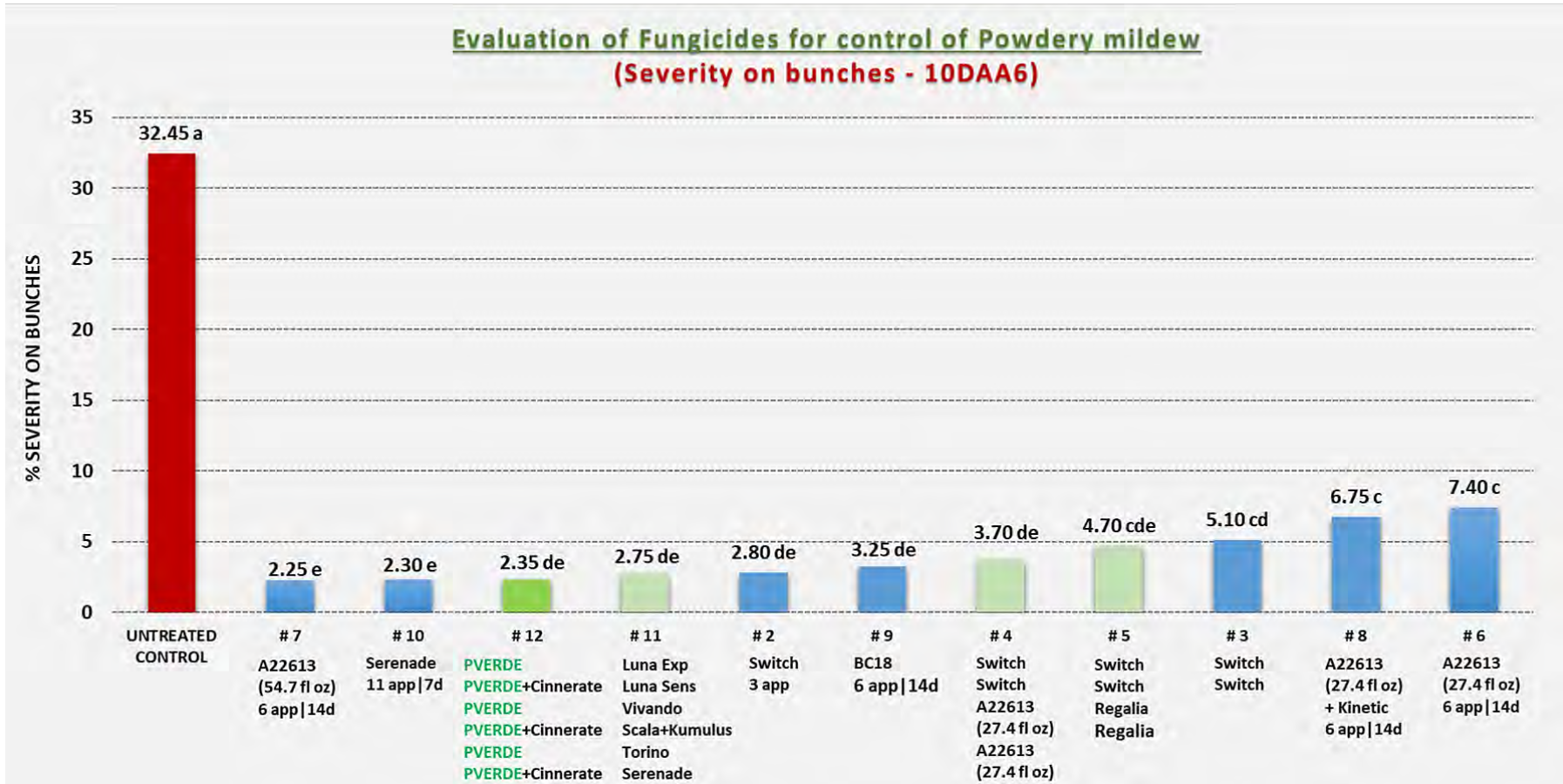


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**ProBlad Verde in rotation with Cinnerate in an Organic program**



**Evaluation of Fungicides for control of Powdery mildew  
(Severity on bunches - 10DAA6)**





# Powdery Mildew & Botrytis Control

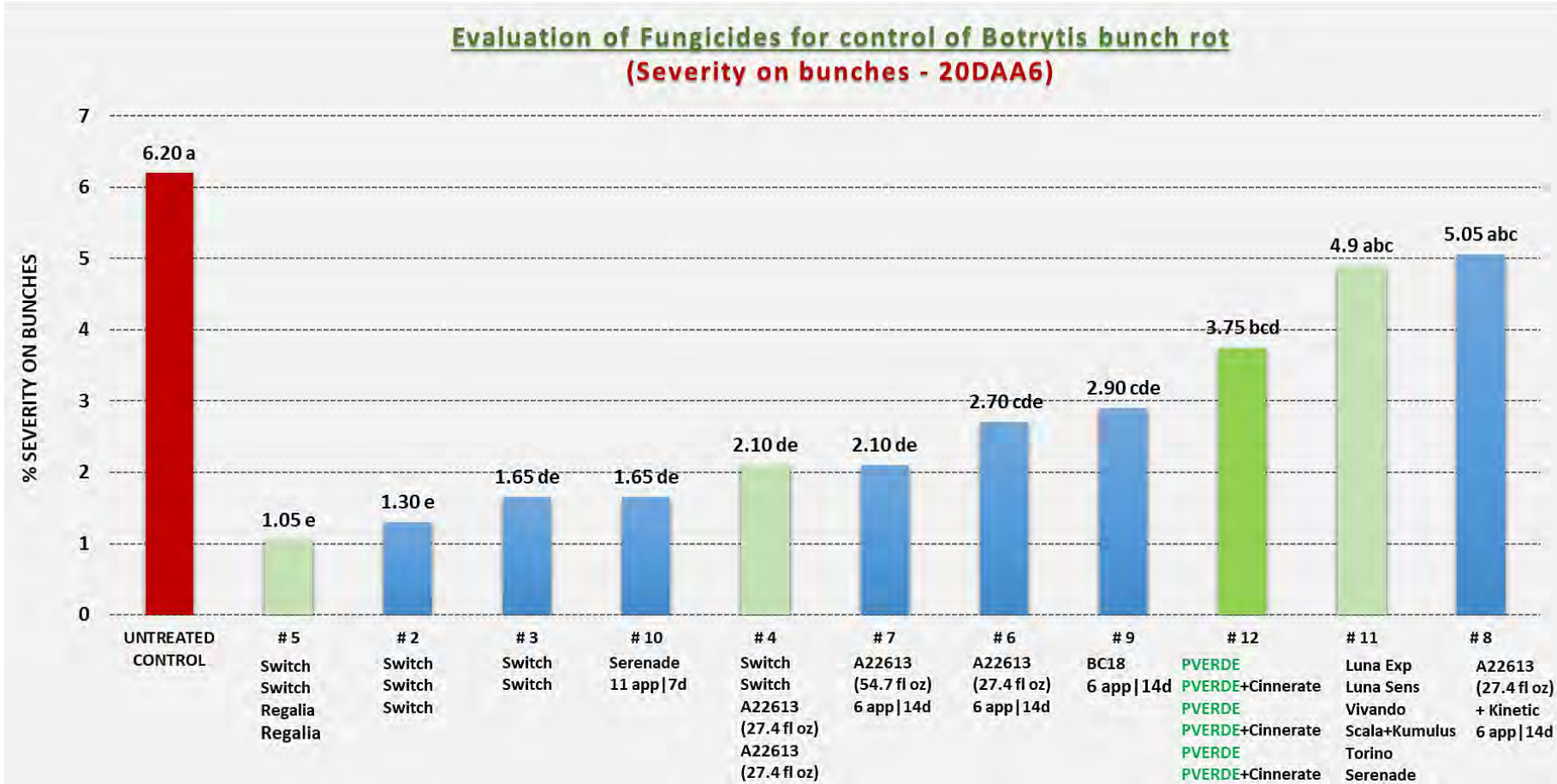


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**ProBlad Verde in rotation with Cinnerate in an Organic program**



**Evaluation of Fungicides for control of Botrytis bunch rot  
(Severity on bunches - 20DAA6)**



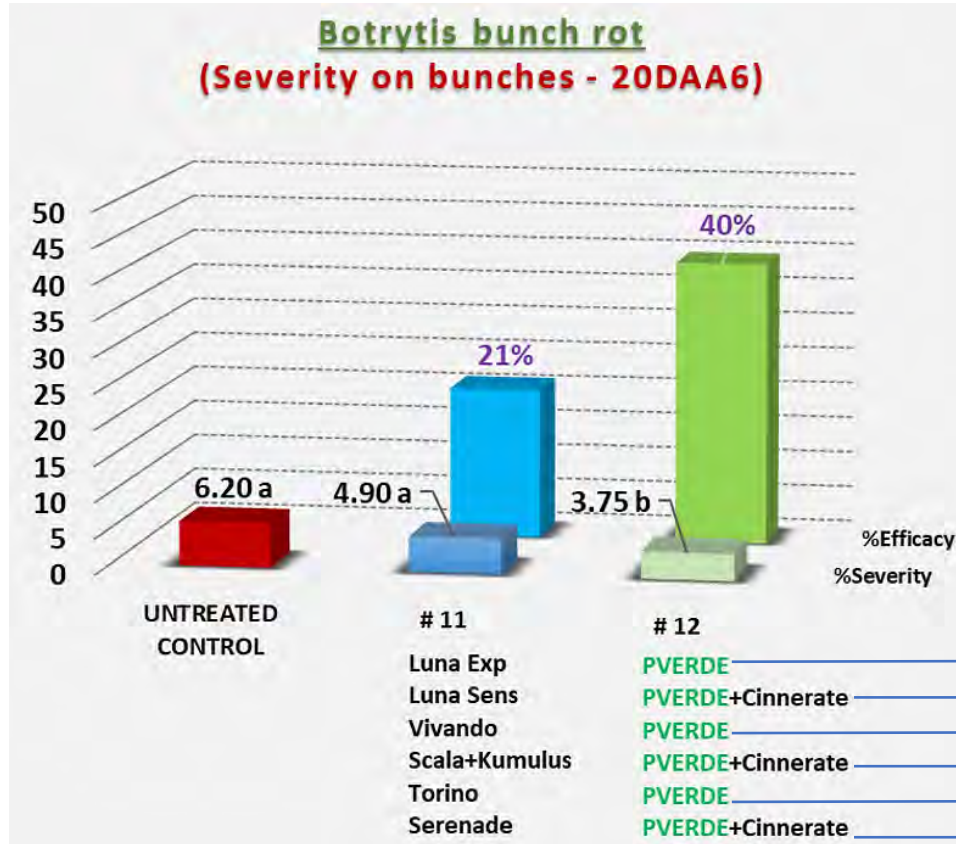
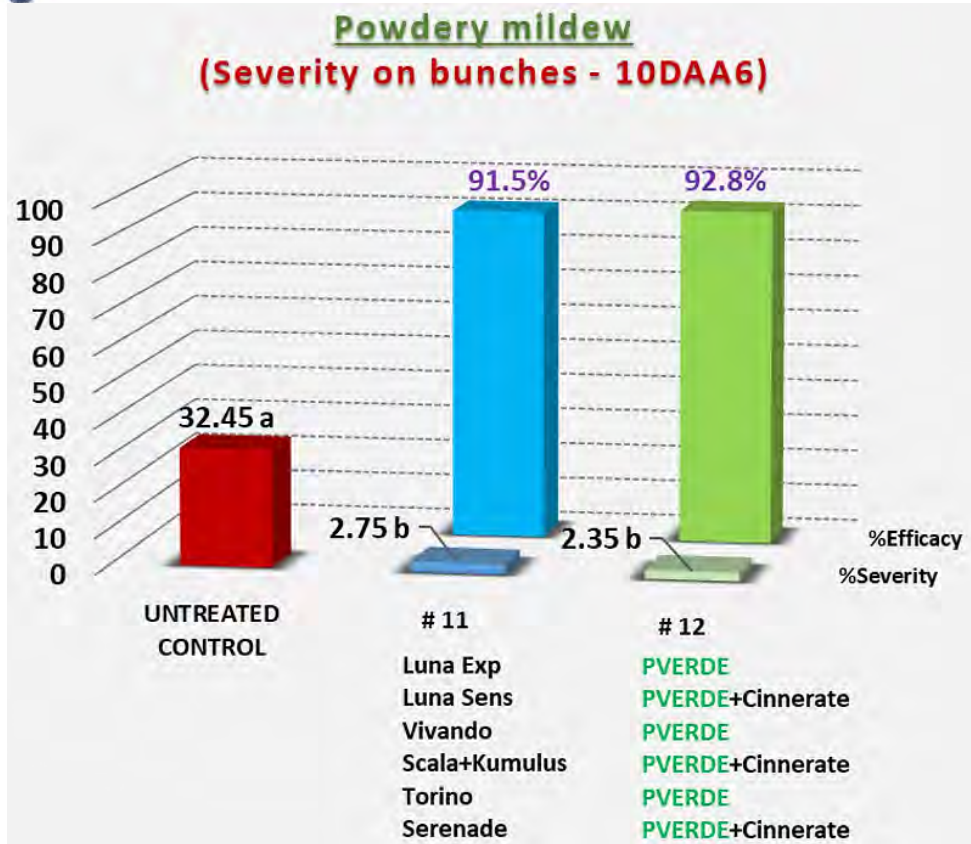


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## Organic Program



- Bloom
- BB-size berries
- Pea size berries
- Bunch closure
- Pre veraison
- Veraison

The Organic Program ProBlad Verde @ 40 fl oz/A in rotation with Cinnerate @ 25 fl oz/A provided good control of PM and Botrytis bunch rot.

