

# BLUEBERRIES – EVALUATING PENERGETIC K & P Visalia, CA – January thru June 2019

**Objectives:** to evaluate Penergetic K and P in terms of yield and quality enhancement of the blueberries compared to Control.

**Crop:** Emerald Blueberries (16 year old plants) **Study Design:** Randomized Complete Block (4 replicates)

**Treatment:**

**Control:** Growers Standard Practice (GSP)

**Penergetic-Treated:** GSP + 200 g/acre Penergetic K (at pre-bloom in 12" band at base of plants) + Penergetic P 400 g/ac. – four 100 g/ac. foliar applications (at post bloom, pre-harvest, 1st harvest, and 2nd harvest)

## EVALUATION RESULTS

<u>Plant Vigor</u> : evaluated three times	<u>Mar. 19</u>	<u>Apr. 19</u>	<u>May 17</u>		
<b>Control</b> (mean rate):	8.8	7.8	7.8	<b>23% more vigor</b>	
<b>Penergetic-Treated</b> (mean rate):	10.0	10.0	10.0		
<u>Weight</u> (in grams per 100 berries)	<u>May 20</u>	<u>May 31</u>	<u>June 4</u>	<u>June 12</u>	
<b>Control</b> (mean weight):	313.5	311.0	295.8	277.5	
<b>Penergetic-Treated</b> (mean weight):	351.8	346.5	331.5	311.0	
				<b>12% heavier</b>	
<u>Brix Reading</u>	<u>May 20</u>	<u>May 31</u>	<u>June 4</u>	<u>June 12</u>	
<b>Control</b> (mean rate):	13.72	14.05	13.95	13.92	
<b>Penergetic-Treated</b> (mean rate):	15.12	15.37	15.20	15.30	
				<b>9.6% higher brix</b>	
<u>Yield</u> (in lbs. from 4 plants per plot)	<u>May 20</u>	<u>May 31</u>	<u>June 4</u>	<u>June 12</u>	<b>June 12*</b>
<b>Control</b> (mean):	8.73	18.10	10.17	11.70	<b>17,678.1</b>
<b>Penergetic-Treated</b> (mean):	10.13	19.25	11.15	12.65	<b>19,320.7</b>

\* = Yield in lbs. per acre

## TRIAL COMMENTS / OBSERVATIONS

Within seven days following the first foliar spray the blueberry canopy in the Penergetic-treated plots was fuller than the (untreated) Control plots. This difference remained throughout the growing season. This trend is also evident in the measurements of plant vigor.

The berry weight and brix was significantly improved with the Penergetic treatment compared to the untreated Control.

**The Penergetic-treatment plots produced a 9.29% yield increase compared to the Control plots.**

**The Penergetic treatment resulted in a yield increase of 1,642.6 lbs./acre.**

