

## OBJECTIVE

To evaluate the impact of three cover spray protocols with Timac Agro USA's bio-nutritional products on fruit sizing, firmness and total soluble solids (BRIX%) on early season variety of Peach – Ruby Prince.

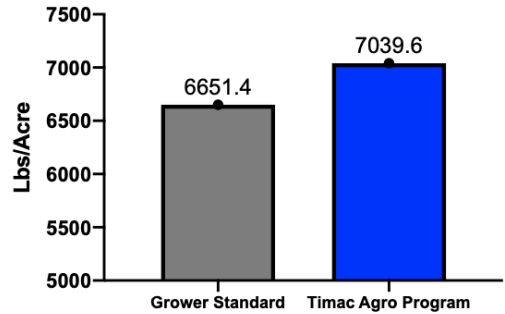
**Site Location:**  
Fort Valley, GA

**Researchers:**  
Michael Pisciotta, CCA  
Timac Agro USA

## STUDY INFORMATION

Tree Planting Date	2013
Harvest Dates	22-May-19, 25-May-19, 27-May-19
Crop Variety	Ruby Prince
Population	132

**Harvest Volume of Ruby Prince Peach for Three Pickings**



## TIMAC AGRO PRODUCTS



## KEY FINDINGS

**+ 388 lbs/acre**

(7.76 more bu/acre with 297 less peaches\*)

ROI per acre of Timac Program @\$0.75/Lb:

**\$243.14**

**35.2%+" more fruit**

in >2.75" desirable market category

Fruit firmness (lbs/force) was much improved:

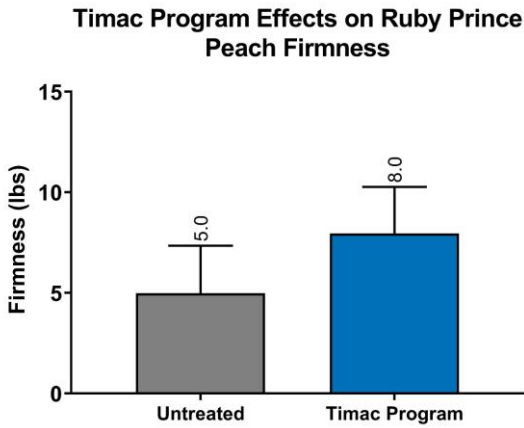
**59.5% + over Grower Standard**

*\*based on picking volume of trial\**

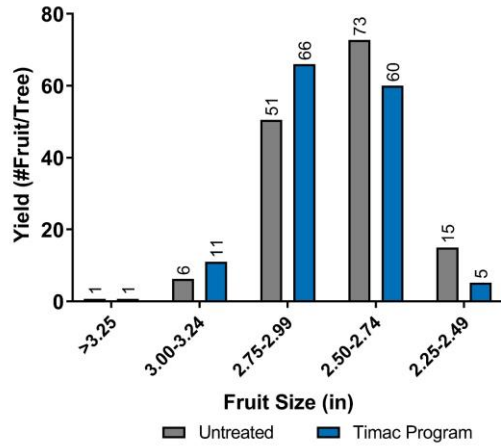
## TIMING

Treatment	Application Rate
Control	Grower Standard Program
Timac Agro Spray Program	Fertileader Gold, 1.5 Qt/Ac @ Early Shuck Split (3-April)
	TimaCal, 1.5 Qt/Ac, 14 days following 1 <sup>st</sup> application (17-April)
	TimaCal, 2 Qts/Ac, 14 days following 2 <sup>nd</sup> application (1-May)
	TimaCal, 2.5 Qt/Ac, 14 days following 3 <sup>rd</sup> application (14-May)

## FRUIT SIZING & FIRMNESS



Timac Program Effects on Ruby Prince Peach Size and Number of Fruit Per Tree



## DATA COLLECTION

- Soil and Tissue tests were done
- Sizing trays were used to measure fruit picked from trees, all sizes were counted
- Scales were used to measure final weights in each size category
- A penetrometer was used to determine fruit firmness on 10 randomly selected fruit of the same size and color per picking
- A refractometer was used to measure total soluble solids or sugar (brix, %) on 10 randomly selected fruit of the same size and color per picking.

## RETURN ON INVESTMENT

TIMAC TREATMENT				
Sizing Category	Timac Treat. (#)	Total Wt (Lbs.)		\$/lb
>3.25	3	1.8656		\$0.75
3.00-3.24	44	22.1584		\$0.75
2.75-2.99	264	105.3338		\$0.75
2.50-2.74	240	78.6038		\$0.75
2.25-2.49	21	5.3614		\$0.75
<b>Total #</b>	<b>572</b>	<b>213.323</b>		<b>\$159.99</b>
	T. Wt - 132 trees	<b>7039.659</b>	X 33 = 132 Trees	<b>\$5,279.74</b>
		lbs/ac		Gross
GROWER STANDARD				
Sizing Category	Gr. Standard (#)	Total Wt (Lbs.)		\$/lb
>3.25	3	1.9316		\$0.75
3.00-3.24	25	12.4432		\$0.75
2.75-2.99	202	81.0216		\$0.75
2.50-2.74	291	90.7478		\$0.75
2.25-2.49	60	15.4154		\$0.75
<b>Total #</b>	<b>581</b>	<b>201.5596</b>		<b>\$151.17</b>
	T. Wt - 132 trees	<b>6651.4668</b>	X 33 = 132 Trees	<b>\$4,988.60</b>
		lbs/ac		Gross
	Difference	from Revenue of Timac Program over	Grower Std.	\$291.14
		MINUS	Spray Program	-\$48.00
	<b>Return on Investment/Acre for Ruby</b>	<b>Prince Variety</b>		<b>\$243.14</b>

Trial ID: DT-19-SE-PEA-FLGO-TC-2

## RESULTS AND CONCLUSIONS

The Timac Agro spray program made a quantifiable improvement on Ruby Prince peach yield, sizing and firmness over Grower Standard practices. Proper timing of Timac Treatment is critical but can be achieved without changing current Integrated Pest Management Cover Spray program.

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