

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 to mid-season variety of Peach – June Flame

Site Location:

Fort Valley, GA

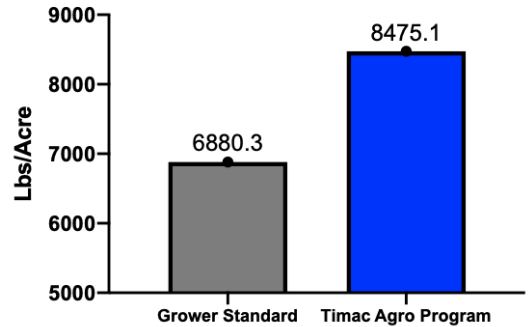
Researchers:

Michael Pisciotta, CCA
Timac Agro USA

STUDY INFORMATION

Tree Planting Date	2013
Harvest Dates	4-June-19, 6-June-19, 9-June-19, 12-June-19
Crop Variety	June Flame
Population	132

Harvest Volume of June Flame Peach for Four Pickings



TIMAC AGRO PRODUCTS



KEY FINDINGS

+ 1,594 lbs/acre

(31.8 more bu/acre with 6,138 more peaches*)

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

\$1,148.10

23.5%+" more fruit

in >2.5" desirable market categories

Fruit firmness (lbs/force) was much improved:

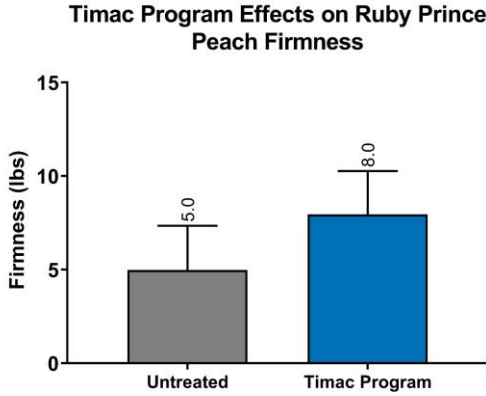
47.8% + over Grower Standard

based on picking volume of trial

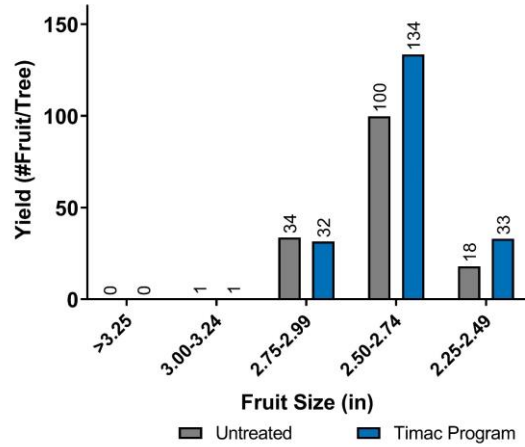
TIMING

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 st application (17-April)
	TimaCal, 2 Qts/Ac, 14 days following 2 nd application (1-May)
	TimaCal, 2.5 Qt/Ac, 14 days following 3 rd application (14-May)

FRUIT SIZING & FIRMNESS



Timac Program Effects on June Flame 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. (#)	Wt/lbs	\$/lb
>3.25	0	0	\$0.75
3.00-3.24	2	0.9768	\$0.75
2.75-2.99	126	49.6958	\$0.75
2.50-2.74	534	170.6188	\$0.75
2.25-2.49	132	35.5322	\$0.75
Total #	794	256.8236	\$192.62
T. Wt - 132 Trees		8475.1788	\$6,356.38
		lbs/acre	Gross
GROWER STANDARD			
Sizing Category	Gr. Standard (#)	Wt/lbs	\$/lb
>3.25	0	0	\$0.75
3.00-3.24	2	0.9174	\$0.75
2.75-2.99	135	54.791	\$0.75
2.50-2.74	399	133.111	\$0.75
2.25-2.49	72	19.6768	\$0.75
Total #	608	208.4962	\$156.37
T. Wt - 132 Trees		6880.3746	\$5,160.28
		lbs/acre	Gross
Difference from Revenue of Timac Program over		Grower Std.	\$1,196.10
		MINUS Spray Program	-\$48.00
Return on Investment/Acre for June		Flame Variety	\$1,148.10

RESULTS AND CONCLUSIONS

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

The Timac Agro spray program made a quantifiable improvement on June Flame 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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