Tomato Variety Trial – Fall 2016

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Single row plots containing 12 tomato plants were established on August 17, 2016 at the North Florida Research and Education Center (NFREC) in Quincy, FL. Soil type at NFREC is Norfolk loamy fine sand with pH 6.7. Experimental plots were arranged in a randomized complete block design with four replications. Tomato seedlings were transplanted into raised beds covered with white on black totally impermeable film mulch. Pic-Clor 60 fumigant was applied at a rate of 200 lb/a. Beds were 30 inches wide and 8 inches tall. Row spacing was 6 feet and plants were spaced 20 inches in the row. Total fertilizer application for the season was 190-52-273 lb/acre N-P_2O_5-K_2O. Harvests were performed on November 4, November 10, and November 18. First harvest was initiated when 5-10% of fruit had reached breaker stage. Mature green and any fruit with color were harvested. Fruit were weighed and graded according to USDA standards. Experimental data was analyzed using the GLM procedure in SAS and means separation was performed with Duncan's multiple range test at the 5% level, when appropriate. Fruit yields were below average during this season, which was common throughout the growing region. Whitefly pressure was very high throughout most of the season.

Tomato Variety Trial – Fall 2016 – NFREC Quincy
First Harvest Yields

Variety	Source	% Marketable		Avg Weight (grams)	Marketable Yield (lb/acre)						
					Med	Large		XL		Total	
Camaro	Sakata	92	a	210 ns	644 ns	3062	a	20795	a	24502	a
FL 1395	UF	89	ab	237	438	1461	b	16249	ab	18150	ab
Grand Marshall	Sakata	90	a	238	588	1793	b	14249	bc	16630	bc
FL 8942	UF	95	a	245	371	1069	b	13773	bcd	15214	bcd
Red Morning	Harris Moran	84	a-d	224	392	947	b	12643	b-e	13982	bcd
SV 7631	Seminis	85	abc	215	449	1227	b	10452	b-e	12129	bcd
Quincy	Seminis	93	a	212	258	1660	b	9581	cde	11500	bcd
RFT 890054	Syngenta	90	a	223	428	747	b	9508	cde	10684	cd
BSS 3096	Bejo	84	a-d	238	560	707	b	8832	cde	10101	cd
FL 1049	UF	85	abc	201	269	1486	b	8275	cde	10030	cd
FL 47	Seminis	74	cd	222	359	1310	b	8274	cde	9944	cd
BSS 815	Bejo	77	bcd	190	954	1309	b	7254	de	9514	cd
BHN 602	BHN	72	d	201	359	1597	b	7118	de	9075	cd
Dixie Red	Seminis	85	abc	237	257	753	b	7273	de	8283	d
Resolute	Bejo	83	a-d	194	479	1085	b	6188	e	7752	d
SV 7101	Seminis	92	a	213	329	601	b	6628	e	7559	d

Means are to be compared within columns, means not followed by the same letter are significantly different at *P*≤0.05, ns = not significant

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Cumulative Harvest Yields

Variety	Source	% Marketable		Avg Weight (grams)		Marketable Yield (lb/acre)							
						Med		Large		XL		Total	
Camaro	Sakata	88	a	178	ab	6224	ab	12303	ab	28961	a	47488	a
Grand Marshall	Sakata	87	a	172	abc	6426	ab	13906	a	22850	abc	43182	ab
FL 1395	UF	86	ab	176	ab	6072	ab	11424	abc	25482	ab	42978	ab
FL 8942	UF	87	a	176	ab	6863	a	9739	bcd	18931	bcd	35533	bc
RFT 890054	Syngenta	84	abc	167	a-d	6997	a	10038	bcd	15950	cde	32985	cd
Red Morning	Harris Moran	83	a-d	185	a	5291	a-d	7480	d-g	18016	b-e	30787	cde
Quincy	Seminis	87	a	173	abd	4749	a-d	10670	bcd	14674	cde	30093	c-f
SV 7631	Seminis	82	a-d	170	abc	5783	abc	8863	cde	15447	cde	30093	c-f
FL 47	Seminis	76	cde	170	abc	5186	a-d	8931	cde	14317	de	28434	c-f
BSS 815	Bejo	75	de	151	d	6479	ab	8754	c-f	11478	de	26711	c-f
BHN 602	BHN	73	e	163	bcd	5966	ab	8212	c-g	11296	de	25474	c-f
FL 1049	UF	81	a-d	177	ab	3182	d	7406	d-g	13465	de	24053	def
Resolute	Bejo	78	b-e	156	cd	5124	a-d	8579	c-f	9566	e	23270	def
BSS 3096	Bejo	80	a-e	175	abc	4725	a-d	5526	fg	12793	de	23043	def
Dixie Red	Seminis	81	a-e	171	abc	4524	b	5239	g	10539	de	20303	ef
SV 7101	Seminis	82	a-d	165	bcd	3636	cd	5732	efg	9859	e	19227	f

Means are to be compared within columns, means not followed by the same letter are significantly different at *P*≤0.05, ns = not significant