

**Evaluation of TYLCV Organic Resistant Tomato Varieties
under Commercial Conditions in Southwest Florida.
Spring 2010**



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Table 1. Seed tomato sources and pruning.

Varieties	Company	Number of suckers pruned
Charger	Sakata	No
FL 47	Seminis	No
Katana MT-386	Takii	No
Sebring	Syngenta	No
Security 28	Harris Moran	No
SVR 200	Seminis	No
Tygress	Seminis	No
Tycoon	Hazera	No
UF 8784	UFL	No
UF 8785	UFL	No
XTM 5467	Sakata	No

Table 2. Summary of cultural practices used in TYLCV organic variety evaluation grown with seepage irrigation in Clewiston, FL. during spring 2010.

Crop History	
Location	Clewiston, FL.
Experimental design	CRBD (4 reps)
Irrigation	Seepage
Plot size	18.3 ft
Planting date	21-Jan-2010
Fumigation	None
Mulch	Black
Linear ft per acre	7,260
Bed height	8 in
Bed width	36 in
Bed spacing	6 ft
Plant spacing	22 in
Row run	North – South
Plant population	3,967
Harvest date	27-Apr-10
Planting to harvest	13 weeks

Table 3. Summary of temperature and total rainfall in Clewiston, FL. during spring 2010.

Period	Temperature (°F)			Total rainfall (inch)
	Min	Max	Average	
Jan-10	65.9	54.1	78.3	1.2
Feb-10	58.0	46.3	71.2	2.7
Mar-10	61.7	48.9	75.3	8.6
Apr-10	71.1	60.6	83.0	7.2
Average/Total	64.2	52.5	76.9	19.7

Table 4. Marketable and unmarketable harvest fruit yield by size categories for selected tomato varieties grown in Clewiston, FL. during spring 2010.

Variety	Marketable Yield	Unmarketable
	----- (25-lb boxes/acre) -----	
Charger	18	211b
FL 47	14	143bc
Katana	69	175bc
Sebring	58	205b
Security 28	0	167bc
SVR 200	28	218b
Tygress	33	129bc
Tycoon	0	323a
UF 8784	24	339a
UF 8785	0	86c
XTM 5467	8	228b
P value	0.15	0.0002
Sig	ns	**

^z Within columns, means followed by different letters are significantly different according to Duncan's Multiple Range Test at 5%.

**Significance at $P \leq 0.01$. *Significance at $P \leq 0.05$. ns Non-significance.

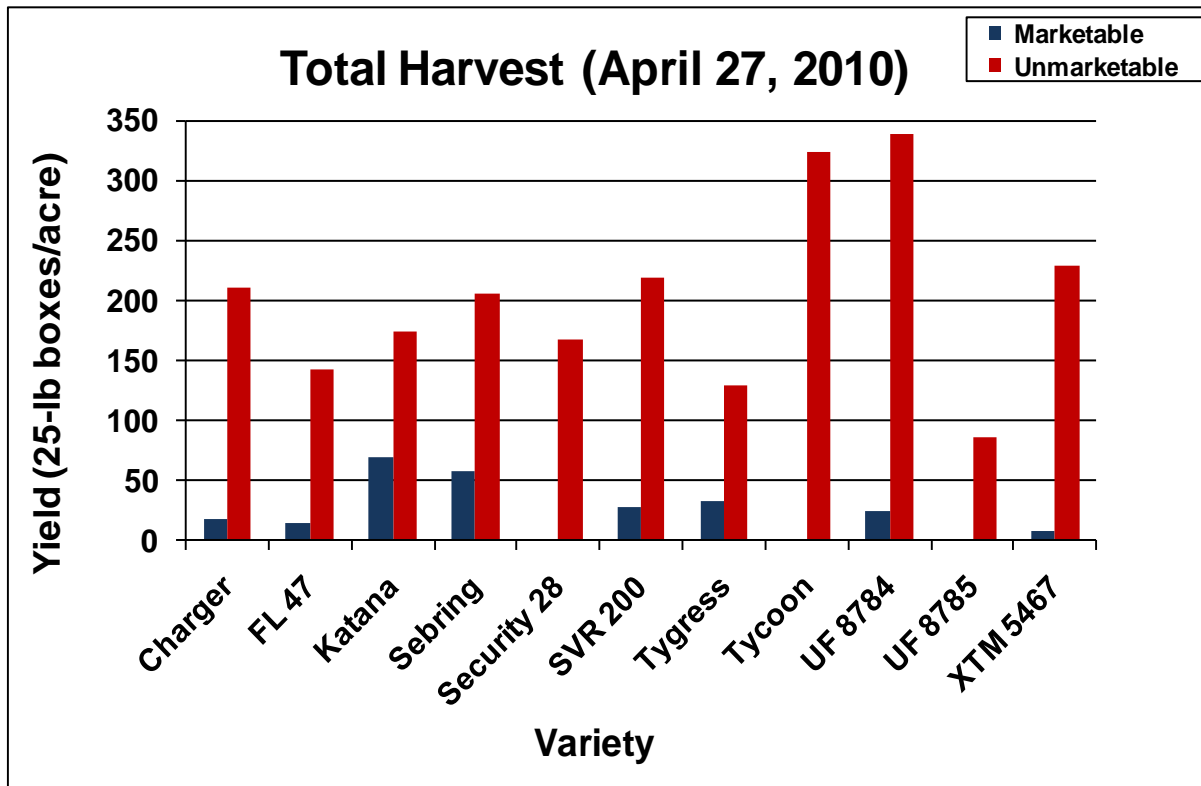


Table 5. Bacterial Speck and Spot and TYLCV disease assessment for selected tomato varieties grown in Clewiston, FL. during spring 2010.

Variety	Bacterial Speck and Spot Rating	TYLCV Symptomatic plants (%)
Charger	68abc	0b
FL 47	75a	8a
Katana	35e	0b
Sebring	55bcd	0b
Security 28	65abc	1b
SVR 200	55bcd	0b
Tycoon	70ab	0b
Tygress	50cde	0b
XTM 5467	60abcd	0b
UF 8784	43de	0b
UF 8785	63abc	0b
P value	0.001	0.0001
Sig	**	**

^Z Within columns, means followed by different letters are significantly different according to Duncan's Multiple Range Test at 5%.

**Significance at $P \leq 0.01$. *Significance at $P \leq 0.05$. ns Non-significance.

