

## 2021 High Tunnel Tomato Screening Trial Descriptive Data

### Yield\* and Brix Levels

Variety (color=approx fruit color)	Firsts lbs/plant	First lbs Total	Firsts Average Fruit weight (lb)	Firsts Average Fruit weight (oz)	Seconds lbs/ plant	Seconds lbs Total	Seconds Average Fruit weight	Total (potentially marketable) lbs/plant**	Total lbs Harvested	% Firsts (no culls)	Brix (Jul-Aug)
Cauralina (3 plants)	16.8	50.3	0.4	6.7	2.2	5.9	0.2	19.0	56.1	89.53	no data
Frederik (4 plants)	13.4	53.8	0.4	6.4	2.8	7.3	0.2	16.3	61.0	88.11	no data
Marbonne (3 plants)	13.0	39.0	0.6	9.0	2.6	7.3	0.4	15.6	46.3	84.32	4.0
Marnouar (4 plants)	10.7	42.8	0.5	8.3	3.4	11.3	0.3	14.1	54.0	79.17	5.5
Dark Star (6 plants)	11.2	67.0	0.6	8.8	2.9	15.0	0.3	14.0	82.0	81.71	5.5
Gin Fizz (6 plants)	9.7	58.3	0.6	9.6	3.6	21.8	0.4	13.3	80.0	72.81	4.5
New Girl (8 plants)	10.3	82.0	0.2	3.8	1.7	9.3	0.2	11.9	91.3	89.86	4.7
Marnero (4 plants)	9.5	38.0	0.5	7.2	2.1	8.1	0.3	11.6	46.1	82.38	5.0
BHN 589 (7 determinates)	10.0	69.8	0.5	7.7	1.1	8.0	0.3	11.1	77.8	89.71	3.5
Margold (6 plants)	9.1	54.8	0.5	8.0	1.7	10.4	0.3	10.9	65.1	84.07	5.5
Esterina (cherry)											7.5
Rosella (Cherry) outdoor											7
Toronjina (cherry)											6.5
Sakura (Cherry)											5.2
Black Cherry (Cherry)											4.8

\* Cultural Methods @ So Su Co Urban Ag Demo Site:

- All indeterminate except BHN 589
- Two leaders @ 12" plant spacing on 5 ft centers,
- Two lines drip irrigation per bed
- Custom blood meal, alfalfa meal, bone meal, sulfur, and kelp meal blend @ 7.5#/100 sqft
- First harvests for research 7/13 and last 9/30
- Planting date 4/22 Plants set back due to 2-4D drift damage, but recovered

Credit: Zack Grant

Average Brix Levels:  
3.8-5.0 (GH tomato)  
5-8 (cherry)

Source: <https://ohioline.osu.edu/factsheet/HYG-1651>

above ave
  below ave  
 ave

\*\* (data organized by Total lbs/plant)

### High Tunnel Petiole Sap Data (ppm)

Date Sampled	Crop	NO <sub>3</sub> -N	K	Brix	NO3-N Ideal Levels*	K Ideal Levels*	Growth Stage*
6/18/2021	Tomato(Indeter)	930.0	4107.0	5.0	800-1200	4000-5000	Transplant to fifth fruit cluster
7/8/2021	Tomato (Deter)	160	3500		300-400	2500-3000	First Harvest (field levels)
7/8/2021	Tomato(Indeter)	160.0	4700.0	4.0	700-900	3500-4000	Greenhouse Harvest season
7/8/2021	Cucumbers	260.0	5200.0		400-600	NR	First Harvest (field levels)
7/8/2021	Peppers (aphid)	220.0	1300.0		800-1000	2400-3000	First Harvest (field levels)
7/8/2021	Eggplant (field)	130.0	5750.0		1200-1600	4500-5000	Fruits Two-Inches Long

\*University of Florida Recs

<https://edis.ifas.ufl.edu/publication/CV004>



in range

deficiency possible correction needed

Fertigated and hand applied 14-0-0 Soybean Meal

NR=No recommendations