

Table 1. Tomato plant horticultural characteristics ratings, Snyder Research and Extension Farm, Pittstown, NJ

Variety	Habit	Maturity	Projected yield	Foliage cover	Disease resistance
TRW4002	4	4	3.5	4	2.5
BHN589	3.5	4.5	3.5	4.5	3.5
TRW4004	4.5	4.5	3.5	4	2.5
Rutgers NJAES	4	5	2	4.5	2.5
TRW4001	4	3.5	4	4.5	3

Habit 1-5: 1=highly determinate; 5=highly indeterminate

Maturity 1-5: 1=earliest; 5=latest

Projected Yield 1-5: 1=lowest yield; 5=highest yield

Foliage cover 1-5: 1=poor cover, 5=good cover

Disease Resistance 1-5: 1 = least resistance (most disease); 5 = most resistant

Table 2. Tomato plant horticultural characteristics ratings August 10, 2015, Donaldson Farms, Hackettstown, NJ

Variety	Habit	Maturity	Projected yield	Foliage cover	Plant Height (feet)	Comments
TRW4002	3	3	3	5	4	
BHN 589	2	2	4	5	3.5	
TRW4004	4	3	2	5	4.5	small fruit size
Celebrity	4	3	3	5	4.5	
Rutgers NJAES	4	4	3	4	4	green shoulders
TRW4001	4	3	4	5	4	good fruit size

Habit 1-5: 1=highly determinate; 5=highly indeterminate

Maturity 1-5: 1=earliest; 5=latest

Projected Yield 1-5: 1=lowest yield; 5=highest yield

Foliage cover 1-5: 1=poor cover, 5=good cover

Table 3. Tomato fruit quality data from replicated research trials

Location	Variety	Average fruit weight (g)	Firmness	External color	Internal color	pH	Brix
Snyder	TRW4002	244.60 b	3.75 a	3.38 a	2.50 b	4.15 a	4.273 bc
	BHN 589	313.15 a	3.00 b	2.50 b	2.63 ab	4.16 a	5.008 a
	TRW4004	194.05 c	3.13 b	3.63 a	3.25 a	4.13 a	5.375 a
	Celebrity	274.33 ab	3.00 b	2.50 b	2.13 b	4.32 b	4.010 c
	TRW4001	281.20 ab	3.25 ab	3.63 a	3.13 ab	4.11 a	4.588 b
RAREC	TRW4002	203.25 a	3.63 a	4.13 ab	3.88 a	4.03 a	3.853 b
	BHN 589	188.93 ab	3.50 a	3.63 b	3.50 a	4.12 abc	3.800 b
	TRW4004	150.05 b	3.63 a	3.88 ab	4.00 a	3.98 a	4.483 a
	Celebrity	196.60 ab	3.50 a	3.88 ab	3.75 a	4.29 b	3.853 b
	Rutgers NJAES	86.00 c	3.38 a	4.00 ab	3.88 a	4.39 bc	4.535 a
	TRW4001	211.03 a	3.75 a	4.38 a	3.75 a	3.98 a	3.800 b

Firmness 1-5: 1=softest; 5=most firm

External color 1-5: 1=poorest; 5=best (most intense red/orange)

Internal color 1-5: 1=poorest (yellow;inconsistent;white tissue); 5=best (intense red;consistent)

Fruit weight: Average of eight representative fruit

pH taken of locular contents of eight combined fruits

Brix taken of filtered locular contents of eight combined fruits (digital refractometer)

Means within a column followed by the same letter are not significantly different

Table 4. Marketable yield from replicated trials

Location	Variety	Marketable Fruit #	Marketable Fruit Weight (kg)	Rank
Snyder	TRW4002	307	67.163	1
	BHN589	234	61.513	3
	TRW4004	308	54.125	5
	Celebrity	2265	56.513	4
	Rutgers	139	26.450	6
	TRW4001	298	65.225	2
RAREC	TRW4002	138	55.96	3
	BHN589	127	46.64	4
	TRW4004	221	59.88	2
	Celebrity	125	43.93	5
	Rutgers	17	2.67	6
	TRW4001	203	78.27	1

Means of four replications of 10 plant plots

Table 5. Summary of consumer taste test results

Location	Rank of entry in tasting event				
	TRW4002	BHN589	TRW4004	Celebrity	TRW4001
Earth Center	4	3	3	2	1
Marucci Research Center	1	2	4	1	3
Margate Farmer's Market	1	2	5	4	3
Snyder Farm	2	1	3	4	5
Salem County Community College	4	3	2	5	1
Mean rank	2.4	2.2	3.4	3.2	2.6