

# Tomato Varieties for Florida - Florida “Red Rounds,” Plum, Cherries, Grapes, and Heirlooms<sup>1</sup>

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Tomatoes were introduced to European culture more than a hundred years before Linnaeus developed the binomial system of naming plants. He published his scheme in *Species plantarum* in 1753 at a time when people struggled to find descriptive means to identify plants and other organisms. Before Linnaeus, plants were described by many methods, and the different naming systems caused much confusion.

The naming of tomato by Europeans began with attempts such as *Poma amoris fructu rubro*, or more colloquially, “pomme d’Amour.” In 1694, Tournefort was first to name the tomato as a *Lycopersicon*, which means “wolf peach” in Greek. Linnaeus, however, placed the cultivated tomato in the genus *Solanum* and named it *Solanum lycopersicum*. Soon after, Miller created the genus *Lycopersicon* and proceeded to name the tomato *Lycopersicon esculentum*.

After his death, an editor of Miller’s work placed tomato back in the genus *Solanum*. Later botanists, trained in classical techniques of classification, returned the tomato to the genus *Lycopersicon* after reviewing Miller’s original work. It is not surprising that the confusion that began centuries ago about the naming of the tomato remains to the present day.

Current phylogenetic techniques have shown the tomato to be situated firmly within the genus *Solanum*. After years of horticulturists’ preference for the name and authority *Lycopersicon esculentum* Miller, there are those now

promoting—with strong molecular DNA evidence—the return to Linnaeus’ original classification, *Solanum lycopersicum* L. For a thorough and easily readable presentation on this topic, see the feature article in the recent *Report of the Tomato Genetics Cooperative* by Peralta, Knapp, and Spooner (2006). Suggested changes also include several species closely related to cultivated tomato. Once again, the evidence about tomato appears to favor those with a preference for the genus *Solanum*.

Can it be said that *Solanum lycopersicum* is now the official name of tomato? Perhaps not. It often takes years for a suggested name change to be accepted by the communities most closely associated with the species in question. In time, if the evidence is considered adequate, the name change will be accepted and reported as *S. lycopersicum* L. (syn. *L. esculentum* Mill.). This process occurs with many plant species; for example, the medicinal plant black cohosh is currently reported as *Actaea racemosa* L. (syn. *Cimicifuga racemosa* [L.] Nutt).

## A Word about Varieties

The term *cultivar* is a botanical term that is a contraction of the two-word term *cultivated variety* and is analogous to what growers call a *variety*. In botanical nomenclature, the term *variety* describes a subgroup that represents variations observed within a species. Cultivars are grouped within botanical varieties.

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What are tomato varieties in botanical terms? Large, round tomatoes are var. *lycopersicum*. Thus, the full name of tomato is reported as *S. lycopersicum* L. var. *lycopersicum*. It is generally understood that “red rounds” are var. *lycopersicum*. Because of this assumption, the variety is not usually listed along with the scientific name. Cherry and grape tomatoes are var. *cerasiforme* (grapes are elongated cherries), and plum tomatoes are var. *pyriforme*.

*Production Handbook for Florida*, edited by S. M. Olson and B. M. Santos, 295-316. Lenexa, KS: Vance Pub.

Peralta, I. E., S. Knapp, and D. M. Spooner. 2006. “Nomenclature for Wild and Cultivated Tomatoes.” *Report of the Tomato Genetics Cooperative* 56:6–12.

## Varieties for Florida: Florida “Red Rounds,” Cherries, Grapes, and Plums

The tables below serve as a guide to varieties used in Florida, separated by regional adaptation. South Florida includes Fort Myers, Palm Beach, and all areas to the south of those cities. Central Florida includes the area between Gainesville and Fort Myers. North Florida includes Gainesville and all areas to the north of Gainesville.

### Disease Key

SUS – Susceptible

R – Resistant

IR – Intermediate Resistance

T – Tolerant

ASC – Alternaria stem canker - *Alternaria alternata* f.sp. *lycopersici*

BS - Bacterial spot - *Xanthomonas* spp. (*X. vesicatoria*, *X. euvesicatoria*, *X. perforans*, and *X. gardneri*)

BSK – Bacterial speck - *Pseudomonas syringae* pv *tomato*

C – Cracking

CLS - Cladosporium leaf mold - *Cladosporium fulvum*

F-R 1, 2, 3 - Fusarium wilt race 1, 2, 3 - *Fusarium oxysporum* f.sp. *lycopersici* races 1, 2, 3

FCR – Fusarium crown rot - *Fusarium oxysporum* f.sp. *radicis-lycopersici*

N – Root knot nematode - *Meloidogyne arenaria*, *M. Incognita*, and *M. javanica*

S – Gray leaf spot - *Syrium solani*

TM – Tobacco mosaic

ToM - Tomato mosaic

TSW – Tomato spotted wilt

TYLC – Tomato yellow leaf curl

V (1) - Verticillium wilt - *Verticillium albo-atrum* and *Verticillium dahliae* race 1

### References

Olson, S. M., W. M. Stall, G. E. Vallad, S. E. Webb, S. A. Smith, E. H. Simonne, E. McAvoy, and B. M. Santos. 2010. “Tomato Production in Florida.” In *2010-2011 Vegetable*

Table 1. Tomato varieties in south Florida

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
'BHN 730'	BHN Seed	Fall through winter	Smooth fruit and a strong bush.	R to BSK FCR, F-R (1, 2), and V (1).	Produces well even on poor soils.
'BHN 975'	BHN Seed	Early Fall	Strong vine and smooth, large fruit.	R to FCR, F-R (1, 2), and V (1).	Heat tolerance.
'Charger'	Sakata Seed America, Inc.	Midseason	Determinate vigorous plant with early maturity and good cover. Extra-large, smooth, deep oblate fruit with excellent firmness, red color, and good flavor.	R to ASC, F-R (1, 2, 3), and V (1). IR to S and TYLC.	Adapted for mature-green and vine-ripe markets.
'FL 47'	Seminis Vegetable Seed, Inc.	Midseason	Determinate plant. Medium-sized bush. Very large, deep oblate, firm, smooth fruit.	R to ASC, F-R (1, 2), S, and V (1).	Uniform green fruit are adaptable to both mature-green and vine-ripe harvest.
'FL 91'	Seminis Vegetable Seed, Inc.	Midseason	Determinate plant. Strong vine. Large, deep oblate, firm fruit with uniform green shoulders.	R to ASC, F-R (1, 2), S, and V (1).	Heavy early yield with high pack-out and heat-set capabilities.
'HM 1823'	Harris Moran Seed Company	Early season	Determinate round tomato with strong plant habit. Good fruit cover deep, smooth, globe-shaped excellent size, color, and firmness.	R to FCR, F-R (1, 2), and V (1). IR to S.	High yield potential.
'HM 8849CR'	Harris Moran Seed Company	Main season	Early maturing variety with a strong plant and good leafmonti cover. Extra-large, smooth, slightly flattened, globe-shaped fruit.	R to FCR, F-R (1, 2), S, and V (1).	Produced high yield in spring 2010 trial.
'Phoenix'	Seminis Vegetable Seed, Inc.	Early midseason	Determinate plant. Vigorous vine with good leaf cover for fruit protection. Large to extra-large, firm, globe-shaped fruit. Fruit have uniformly colored shoulders and jointed pedicles.	R to ASC, F-R (1, 2), S, and V (1).	Heat-set capabilities. High-quality fruit.
'Raceway'	Sakata Seed America, Inc.	Main season	Determinate vigorous plant with early maturity and good cover. Extra-large, smooth.	R to ASC, FCR, F-R (1, 2), and V (1). IR to S.	Adapted for mature-green and vine-ripe markets.
'Rally'	Sakata Seed America, Inc.	Midseason	Plants are determinate and medium to tall in height suited for light pruning. Excellent quality fruit with good flavor and color for the premium markets. Large, very smooth, globe shaped fruit with excellent firmness.	R to ASC, FCR, F-R (1, 2), ToM, and V (1). IR to S and TYLC.	Wide adaptability for the late spring production slots.
'RigdeRunner'	Syngenta	Midseason	Medium tall, determinate bush.	R to FCR, F-R (1, 2), V (1), and TYLC.	Performs best under warm season conditions.
'Rocky Top'	Syngenta	Midseason	Tall, determinant plant. Mostly extra-large and large. Firm fruit and great eating quality.	R to F-R (1, 2, 3), S, and V (1).	Well adapted for vine-ripe production as well as greenhouse/high tunnel-production conditions.
'Sanibel'	Seminis Vegetable Seed, Inc.	Main season	Determinate plant. Large, firm, smooth fruit with light-green shoulders and a tight blossom-end scar.	R to ASC, F-R (1, 2), N, S, and V (1).	Well adapted for SE Florida. High yield potential, jointless pedicels.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
‘Sebring’	Syngenta	Main season	Determinate plant. Medium to tall bush. Extra-large to large, smooth, deep oblate fruit. Fruit have uniform green shoulders and tight blossom ends. Low incidence of gray wall.	R to FCR, F-R (1, 2, 3), S, and V (1).	Very popular variety in South Florida for FCR.
‘Security 28’	Harris Moran Seed Company	Early in the main season, fall, late in the main season, spring	Medium vine with good leaf cover. Extra large, round, firm, dark-red fruit.	R to ASC, F-R (1, 2), S, and V (1). IR to TYLC.	Vine-ripe or organic production only.
‘SevenTY III’	Syngenta	Midseason	Vigorous determinate bush with good plant cover	R to F-R (1, 2, 3) and V (1). IR to TYLC.	Best for spring production and has good gray wall tolerance.
‘Solar Fire’	Harris Moran Seed Company	Early season	An early, determinate, jointed hybrid. Fruit are large, flat-round, smooth, and firm, with light green shoulder and blossom scars are smooth.	R to F-R (1, 2, 3) and V (1). IR to S.	Good fruit setting ability under high temperatures.
‘Soraya’	Syngenta	80 days	Determinate bush. Very smooth, extra-large and large fruit.	R to FCR, F-R (1, 2, 3), S, and V (1).	High-quality fruit.
‘Tasti-Lee’	Bejo Seeds, Inc.	Midseason	Determinate, jointed hybrid plant. Fruit are uniform green with a high lycopene content and deep red interior color due to the crimson gene.	R to F-R (1, 2, 3), V (1), and S.	Moderate heat-tolerance.
‘Volante’	Sakata Seed America, Inc.	Midseason	Determinate medium-sized plant and concentrated set. Extra-large, smooth, deep oblate, firm with good color and flavor.	R to ASC, F-R (1, 2), and V (1). IR to S and TSW.	Good heat tolerance Adapted for mature-green and vine-ripe markets.
<b>Plum tomato</b>					
‘BHN 685’	BHN Seed	Midseason	Determinate plant. Vigorous bush. Large to extra-large, deep, blocky, globe-shaped fruit.	R to F-R (1, 2, 3), TSW, and V (1).	Strong plant in poor soils.
‘Mariana’	Sakata Seed America, Inc.	Midseason	Determinate compact plant. Classic saladette shape, predominately extra-large and highly uniform. Fruit wall is thick. External and internal fruit color are very good with excellent firmness.	R to ASC, F-R (1, 2), N, and V (1). IR to S.	Exceptional fruit set; excellent uniformity and shelf life.
‘Monticello’	Syngenta	Early Medium	Uniform fruit size and a unique blocky shape. Large firm fruit with good interior quality and small blossom end scar.	R to BSK, F-R (1, 2), S, N, TSW, and V (1).	Improved disease resistance package
‘Sunoma’	Seminis Vegetable Seed, Inc.	Main season	Determinate plant. Good fruit cover. Medium-large, elongated, cylindrical fruit.	R to F-R (1, 2), N, S, ToM, and V (1). IR to BSK.	Widely adapted and maintains fruit size through multiple harvests.
‘Supremo’	Sakata Seed America, Inc.	Midseason	Determinate mid compact plant. Uniform predominately extra-large fruit.	R to BSK, F-R (1, 2, 3), N, and V (1). IR to TSW.	Suited for concentrated harvests for vine ripe and mature green markets.
‘Tachi’	Sakata Seed America, Inc.	Mid and late season	Determinate compact plant. Classic “Mariana” saladette shape, predominately extra-large.	R to ASC, F-R (1, 2), N, and V (1). IR to TSW.	Exceptional fruit set; excellent uniformity and shelf life.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Grape tomato</b>					
'Amai'	Sakata Seed America, Inc.	Early main season	Smooth uniform fruit, ~1-2gr more than 'Sweet Hearts.' Dark red, firm, elongated grape-shaped fruit.	R to CLS, F-R (1), and ToM. IR to N and S.	High yield potential and uniform sizing.
'BHN 785'	BHN Seed	Midseason	Determinate hybrid plant. Vigorous bush with good cover. Strong set of fruit with uniform size and shape.	R to F-R (1).	Very uniform size and shape.
'Jolly Girl'	Sg <sup>2</sup>	Early season	Determinate plant. Fruit are firm, flavorful, and grape shaped.	R to C and V (1). IR to F-R (1, 2).	Extended market life and average 10% brix.
'Santa'	Available only by contract	75 days	Determinate plant. Vigorous bush. Firm, elongated, grape-shaped fruit.	R to F-R (1, 2, 3), N, TM, and V (1).	Outstanding in flavor and up to 50 fruit per truss.
'Sweet Hearts'	Sakata Seed America, Inc.	Early to midseason	Indeterminate plant. Well suited for both indoor and outdoor production. Continuous sets and full clusters to the top of the plant; high yield potential. Uniform fruit with brilliant red color and excellent flavor.	R to C, CLS, F-R (1), and TM. IR to S.	Excellent flavor, high brix, and excellent shelf life.
<b>Cherry tomato</b>					
'BHN 268'	BHN Seed	Early to midseason	Determinate tall bush with high yields.	R to F-R (1) and V (1).	Very good shelf life.
'Camelia'	Hazera Seeds, Inc.	Midseason	Indeterminate bush. Deep globe, cocktail-cherry-sized fruit with excellent firmness.	R to F-R (1), TM, and V (1).	Outdoor or greenhouse production and long shelf life.
'Shiren'	Hazera Seeds, Inc.	Midseason	Compact plant with nice cluster.	R to F-R (1, 2) and ToM. IR to N.	High yield potential.
'Sweet Treats'	Sakata Seed America, Inc.	Early main season	Strong, vigorous, indeterminate plant. Deep pink, firm, globe shaped fruit with outstanding flavor potential.	R to CLS, F-R (1, 2), and ToM. IR to FCR and S.	Strong against cracking.
<b>Heirloom tomato<sup>3</sup></b>					
'Amana Orange'	TG, Sg <sup>2</sup>	85-90 days	Indeterminate plant. Large, orange fruit; relatively smooth for an heirloom.	SUS to BS, FCR, and TYLC.	Excellent sweet, almost tropical fruit flavors.
'Brandywine'	JS, TG, Sg, SE <sup>2</sup>	78 days	Indeterminate plant. A large, pink fruit. Also comes in yellow and red. The yellow often get gray wall.	SUS to BS, FCR, and TYLC.	May be the most well-known heirloom tomato.
'Big Zebra'	TG <sup>2</sup>	85 days	Indeterminate plant. Red-and-green striped with some yellow as it ripens. Larger than 'Green Zebra'; more like an irregular 4 x 5 tomato size.	SUS to BS, FCR, and TYLC.	One of the most unusual tomatoes you have ever seen.
'Cherokee Purple'	JS, Sg, SE, TG <sup>2</sup>	80 days	Indeterminate plant. A purple/black with green shoulders. Fruit not as large as some other heirlooms, but plants are often more productive.	SUS to BS and TYLC.	Excellent sweet flavor.
'Green Zebra'	JS, SE <sup>2</sup>	75 days	Indeterminate plant. Small, firm fruit with light-green and dark-green stripes. Ripens to yellow stripes.	SUS to BS, FCR, and TYLC.	Tart flavor, but excellent color contrast for heirloom mixes.
'(Jaune) Flamme'	TG <sup>2</sup>	70 days	Indeterminate plant. A very small orange tomato (probably about 6 x 7 tomato size); very soft and fragile when ripe.	SUS to BS, FCR, and TYLC.	One of the best-tasting heirloom tomatoes.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Heirloom tomato<sup>3</sup></b>					
'Pruden's Purple'	JS, TG <sup>2</sup>	67 days	Indeterminate plant. Pink-red fruit, similar to 'Brandywine'. Early maturity.	SUS to BS, FCR, and TYLC.	More heat-set capabilities than most heirlooms.
'Striped German'	JS, Sg <sup>2</sup>	78 days	Indeterminate plant. Large yellow fruit with red streaks.	SUS to BS, gray wall, FCR, and TYLC.	Not as productive as 'Pruden's Purple' (in South Florida), but striking color.

*Note:* Other heirloom varieties with heat tolerance that may be adapted to Florida include 'Homestead', 'Super Sioux', 'Porter', 'Old Virginia', 'Arkansas Traveler', 'Nebraska', 'Wedding', 'Nepal', 'Eva Purple Ball', 'Amana Orange', 'Boondocks', 'Brandywine Pink', 'Fireworks', 'Goose Creek', 'Sun Master', and the plum variety, 'Costoluto Genevese'. None of the heirloom varieties available have any resistance to TSW.

While this list includes a number of varieties currently popular with Florida growers, it is by no means a comprehensive list of all varieties that may be adapted to the state.

<sup>1</sup> See "Disease Key" below for disease abbreviations.

<sup>2</sup> JS = Johnny's Selected Seeds, SE = Southern Exposure Seed Exchange, Sg = Siegers Seed Company, TG = Tomato Growers Supply. Since these are open-pollinated varieties, many are also available from other companies or individuals. Some have developed their own strains of a certain variety.

<sup>3</sup> Most heirlooms, especially the larger-fruited varieties, are extremely susceptible to cracking. Most growers will find it best not to water or fertilize heavily when there is fruit on the plants

Table 2. Tomato varieties in central Florida

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
'BHN 602'	BHN Seed	Early to midseason	Determinate medium plant with a concentrated set. Large, firm, globe-shaped fruit with uniform green shoulders.	R to F-R (1, 2, 3), TSW, and V (1).	Light to no pruning.
'BHN 975'	BHN Seed	Midseason	Strong vine and smooth large fruit.	R to FCR, F-R (1, 2), and V (1).	Heat tolerance.
'Charger'	Sakata Seed America, Inc.	Early in the main season, fall, late in the main season	Determinate vigorous plant with early maturity and good cover. Extra-large, smooth, deep oblate fruit with excellent firmness, red color, and good flavor.	R to ASC, F-R (1, 2, 3), and V (1). IR to S and TYLC.	Adapted for mature-green and vine-ripe markets.
'FL 47'	Seminis Vegetable Seed, Inc.	Midseason	Determinate plant. Medium-sized bush. Very large, deep oblate, firm, smooth fruit.	R to ASC, F-R (1, 2), S, and V (1).	Uniform green fruit are adaptable to both mature-green and vine-ripe harvest.
'FL 91'	Seminis Vegetable Seed, Inc.	Midseason	Determinate plant. Strong vine. Large, deep oblate, firm fruit with uniform green shoulders.	R to ASC, F-R (1, 2), S, and V (1).	Heavy early yield with high pack-out and heat-set capabilities.
'HM 1823'	Harris Moran Seed Company	Early season	Determinate round tomato with strong plant habit. Good fruit cover deep, smooth, globe-shaped excellent size, color, and firmness.	R to FCR, F-R (1, 2), and V (1). IR to S.	High yield potential.
'Phoenix'	Seminis Vegetable Seed, Inc.	Early midseason	Determinate plant. Vigorous vine with good leaf cover for fruit protection. Large to extra-large, firm, globe-shaped fruit with uniformly colored shoulders and jointed pedicles.	R to ASC, F-R (1, 2), S, and V (1).	Heat-set capabilities. High-quality fruit.
'Raceway'	Sakata Seed America, Inc.	Main season	Determinate vigorous plant with early maturity and good cover. Extra-large, smooth.	R to ASC, FCR, F-R (1, 2), and V (1) and IR to S.	Adapted for mature-green and vine-ripe markets.
'Rally'	Sakata Seed America, Inc.	Midseason	Plants are determinate and medium to tall in height suited for light pruning. Excellent quality fruit with good flavor and color for the premium markets. Large, very smooth, globe shaped fruit with excellent firmness.	R to ASC, FCR, F-R (1, 2), ToM, and V (1). IR to S and TYLC.	Wide adaptability for the late spring production slots.
'RigdeRunner'	Syngenta	Midseason	Medium tall, determinate bush.	R to FCR, F-R (1, 2), V (1), and TYLC.	Performs best under warm season conditions.
'Rocky Top'	Syngenta	Midseason	Tall, determinate plant. Mostly extra-large and large. Firm fruit and great eating quality.	R to F-R (1, 2, 3), S, and V (1).	Well adapted for vine-ripe production as well as greenhouse/high tunnel-production conditions.
'Sebring'	Syngenta	Main Season	Determinate plant. Medium to tall bush. Extra-large to large, smooth, deep oblate fruit with uniform green shoulders and tight blossom ends. Low incidence of gray wall.	R to FCR, F-R (1, 2, 3), S, and V (1).	Very popular variety in South Florida for FCR.
'Security 28'	Harris Moran Seed Company	Early in the main season, fall, late in the main season, spring	Medium vine with good leaf cover. Extra large, round, firm, dark-red fruit.	R to ASC, F-R (1, 2), S, and V (1). IR to TYLC.	Vine ripe or organic production only.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
'SevenTY III'	Syngenta	Midseason	Vigorous determinate bush with good plant cover	R to F-R (1, 2, 3) and V (1). IR to TYLC.	Best for spring production and has good gray wall tolerance.
'Solar Fire'	Harris Moran Seed Company	Early season	An early, determinate, jointed hybrid. Fruit are large, flat-round, smooth, and firm, with light green shoulder and blossom scars are smooth.	R to F-R (1, 2, 3) and V (1). IR to S.	Good fruit setting ability under high temperatures.
'Soraya'	Syngenta	80 days	Strong, large bush. Very smooth large and extra-large fruit.	R to FCR, F-R (1, 2, 3), S, and V (1).	High-quality fruit.
'Tasti-Lee'	Bejo Seeds, Inc.	Midseason	Determinate, jointed hybrid plant. Fruit are uniform green with a high lycopene content and deep red interior color due to the crimson gene.	R to F-R (1, 2, 3), V (1), and S.	Moderate heat-tolerance.
'Volante'	Sakata Seed America, Inc.	Midseason	Determinate medium-sized plant and concentrated set. Extra-large, smooth, deep oblate, firm with good color and flavor.	R to ASC, F-R (1, 2), and V (1). IR to S and TSW.	Good heat tolerance Adapted for mature-green and vine-ripe markets.
<b>Plum tomato</b>					
'BHN 685'	BHN Seed	Midseason	Determinate plant. Vigorous bush. Large to extra-large, deep, blocky, globe-shaped fruit.	R to F-R (1, 2, 3), TSW, and V (1).	Strong plant in poor soils.
'Mariana'	Sakata Seed America, Inc.	Midseason	Determinate compact plant. Classic saladette shape, predominately extra-large and highly uniform. Fruit wall is thick. The external and internal fruit color is very good with excellent firmness.	R to ASC, F-R (1, 2), N, and V (1). IR to S.	Exceptional fruit set; excellent uniformity and shelf life.
'Monticello'	Syngenta	Early Medium	Uniform fruit size and a unique blocky shape. Large firm fruit with good interior quality and small blossom end scar.	R to BSK, F-R (1, 2), S, N, TSW, and V (1).	Improved disease resistance package
'Sunoma'	Seminis Vegetable Seed, Inc.	Main season	Determinate plant. Good fruit cover. Medium-large, elongated, cylindrical fruit.	R to F-R (1, 2), N, S, ToM, and V (1). IR to BSK.	Widely adapted and maintains fruit size through multiple harvests.
'Supremo'	Sakata Seed America, Inc.	Midseason	Determinate mid compact plant. Uniform predominately extra-large fruit.	R to BSK, F-R (1, 2, 3), N, and V (1). IR to TSW.	Suited for concentrated harvests for vine ripe and mature green markets.
'Tachi'	Sakata Seed America, Inc.	Mid and late season	Determinate compact plant. Classic "Mariana" saladette shape, predominately extra-large.	R to ASC, F-R (1, 2), N, and V (1). IR to TSW.	Exceptional fruit set; excellent uniformity and shelf life.
<b>Grape tomato</b>					
'Amai'	Sakata Seed America, Inc.	Early main season	Smooth uniform fruit, ~1-2gr more than 'Sweet Hearts.' Dark red, firm, elongated grape-shaped fruit.	R to CLS, F-R (1), and ToM. IR to N and S.	High yield potential and Uniform sizing.
'BHN 785'	BHN Seed	Midseason	Determinate hybrid plant. Vigorous bush with good cover. Strong set of fruit with uniform size and shape.	R to F-R (1)	Very uniform size and shape.
'Jolly Girl'	Sg <sup>2</sup>	Early season	Determinate plant. Fruit are firm, flavorful, and grape shaped.	R to C and V (1). IR to F-R (1, 2).	Extended market life and average 10% brix.



Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Grape tomato</b>					
'Santa'	Available only by contract	75 days	Determinate plant. Vigorous bush. Firm, elongated, grape-shaped fruit.	R to F-R (1, 2, 3), N, TM, and V (1).	Outstanding in flavor and up to 50 fruit per truss.
'Sweet Hearts'	Sakata Seed America, Inc.	Early and midseason	Indeterminate plant. Well suited for both indoor and outdoor production. Continuous sets and full clusters to the top of the plant; high yield potential. Uniform fruit with brilliant red color and excellent flavor.	R to C, CLS, F-R (1), and TM. IR to S.	Excellent flavor, high brix, and excellent shelf life.
<b>Cherry tomato</b>					
'BHN 268'	BHN Seed	Early to midseason	Determinate tall bush with high yields.	R to F-R (1) and V (1).	Very good shelf life.
'Camelia'	Hazera Seeds, Inc.	Midseason	Indeterminate bush. Deep globe, cocktail-cherry-sized fruit with excellent firmness.	R to F-R (1), TM, and V (1).	Outdoor or greenhouse production and long shelf life.
'Shiren'	Hazera Seeds, Inc.	Midseason	Compact plant with nice cluster.	R to F-R (1, 2) and ToM. IR to N.	High yield potential.
'Sweet Treats'	Sakata Seed America, Inc.	Early main season	Strong, vigorous, indeterminate plant. Deep pink, firm, globe shaped fruit with outstanding flavor potential.	R to CLS, F-R (1, 2), and ToM. IR to FCR and S.	Strong against cracking.
<p><i>Note:</i> While this list includes a number of varieties currently popular with Florida growers, it is by no means a comprehensive list of all varieties that may be adapted to the state.</p> <p><sup>1</sup> See "Disease Key" below for disease abbreviations.</p> <p><sup>2</sup> Sg = Siegers Seed Company. Since these are open-pollinated varieties, many are also available from other companies or individuals. Some have developed their own strains of a certain variety.</p>					

Table 3. Tomato varieties in north Florida

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
'Amelia'	Harris Moran Seed Company	Main season	Determinate plant. Vigorous with an excellent leaf canopy. Firm, aromatic fruit.	R to F-R (1, 2, 3), N, V (1). IR to S and TSW.	Ideal for green and vine-ripe harvest. Crack-tolerant skin.
'Bella Rosa'	Sakata Seed America, Inc.	Midseason	Determinate medium-sized plant. Large, smooth, deep oblate, firm fruit with good color and flavor.	R to ASC, F-R (1, 2), and V (1). IR to S and TSW.	Good heat tolerance. Adapted for mature-green and vine-ripe markets.
'BHN 602'	BHN Seed	Fall and spring	Determinate medium plant with a concentrated set. Large, firm, globe-shaped fruit with uniform green shoulders.	R to F-R (1, 2, 3), TSW, and V (1).	Light to no pruning.
'Fletcher'	Seedway	Midseason	High yields of firm and very smooth fruit.	R to F-R (1, 2), N, S, TSW, and V (1).	Good shelf life and color. Use only for vine-ripe production.
'FL 47'	Seminis Vegetable Seed, Inc.	Midseason	Determinate plant. Medium-sized bush. Very large, deep oblate, firm, smooth fruit.	R to ASC, F-R (1, 2), S, and V (1).	Uniform green fruit are adaptable to both mature-green and vine-ripe harvest.
'Quincy'	Seminis Vegetable Seed, Inc.	Full season	Determinate tall plant. Large and extra-large fruit with a deep oblate shape. Fruit are firm and uniformly colored.	R to ASC, F-R (1, 2), S, TSW, and V (1).	Excellent fruit quality.
'Rally'	Sakata Seed America, Inc.	Midseason	Plants are determinate and medium to tall in height suited for light pruning. Excellent quality fruit with good flavor and color for the premium markets. Large, very smooth, globe shaped fruit with excellent firmness.	R to ASC, FCR, F-R (1, 2), ToM, and V (1). IR to S and TYLC.	Wide adaptability for the late spring production slots.
'Red Defender'	Harris Moran Seed Company	Main season	Vigorous vine with smooth, large, deep-red fruit.	R to ASC, F-R (1, 2), S, and V (1). IR to TSW.	Excellent fruit firmness and shelf life.
'Redline'	Syngenta	Main season, spring	Tall determinate plant with good cover.	R to F-R (1, 2, 3), TSW, S, and V (1).	Good fruit quality for vine-ripe or mature-green production.
'RFT 6153 or Red Rave'	Seedway	Main season	Determinate plant. Large, vigorous bush. Red globe fruit 8–10 oz.	R to F-R (1, 2), S, and V (1).	Good eating quality and fancy appearance; sturdy shipping tomato. Firm enough for vine-ripe and green-mature harvest.
'RigdeRunner'	Syngenta/Rogers	Midseason	Medium tall, determinate bush.	R to FCR, F-R (1, 2), V (1), and TYLC.	Performs best under warm season conditions.
'Sebring'	Syngenta	Main season	Determinate plant. Medium to tall. Extra-large to large, smooth, deep oblate fruit with uniform green shoulders and tight blossom ends.	R to FCR, F-R (1, 2, 3), S, and V (1).	Very popular variety in South Florida for FCR.
'Talladega'	Clifton Seed Company	Midseason	Determinate plant. Fruit are large to extra-large, globe to deep globe shape.	R to F-R (1, 2), S, TSW, and V (1).	Some heat tolerance.
'Tasti-Lee'	Bejo Seeds, Inc.	Midseason	Determinate, jointed hybrid plant. Fruit are uniform green with a high lycopene content and deep red interior color due to the crimson gene.	R to F-R (1, 2, 3), V (1), and S.	Moderate heat-tolerance.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Round tomato</b>					
'Tribeca'	Vilmorin	Main season	Determinate vigorous plant. Fruit are large to extra-large, firm, and dark red.	R to F-R (1, 2), S, TSW, and V (1).	Heat tolerant.
'Tribute'	Sakata Seed America, Inc.	Main season, fall	Vigorous plant with good cover. Large and medium large, smooth, globe-shaped fruit with excellent firmness and color. Mid-early maturity and good heat tolerance.	R to ASC, F-R (1, 2), and V (1). IR to S, TSW, and TYLC.	Advantage of IR to TSW and TYLC.
'Volante'	Sakata Seed America, Inc.	Midseason	Determinate medium-sized plant and concentrated set. Extra-large, smooth, deep oblate, firm with good color and flavor.	R to ASC, F-R (1, 2), and V (1). IR to S and TSW.	Good heat tolerance Adapted for mature-green and vine-ripe markets.
<b>Plum tomato</b>					
'BHN 685'	BHN Seed	Midseason	Determinate plant. Vigorous bush. Large to extra-large, deep, blocky, globe-shaped fruit.	R to F-R (1, 2, 3), TSW, and V (1).	Strong plant in poor soils.
'Mariana'	Sakata Seed America, Inc.	Early, mid and late season	Determinate compact plant. Classic saladette shape, predominately extra-large and highly uniform. Good color with excellent firmness.	R to ASC, F-R (1, 2), N and V (1). IR to S.	Exceptional fruit set; excellent uniformity and shelf life.
'Monticello'	Syngenta	Early Medium	Uniform fruit size and a unique blocky shape. Large firm fruit with good interior quality and small blossom end scar.	R to BSK, F-R (1, 2), S, N, TSW, and V (1).	Improved disease resistance package
'Picus'	Seminis Vegetable Seed, Inc.	Main season	Determinate plant. Medium to large vigorous plant that provides good fruit cover. Fruit are large, uniform, and blocky, maturing to a deep-red color with great firmness at the red stage.	R to ASC, F-R (1), S, TSW, and V (1).	Heat-set capability.
'Regidor'	Western Seed	Main season	Determinate plant. Medium-tall plant with short internodes. Six to eight sets with great fruit quality.	R to F-R (1, 2), TYLC, and V (1).	Roma type for open field production.
'Sunoma'	Seminis Vegetable Seed, Inc.	Main season	Determinate plant. Good fruit cover. Medium-large, elongated and cylindrical fruit.	R to F-R (1, 2), N, S, ToM, and V (1). IR to BSK.	Widely adapted and maintains fruit size through multiple harvests.
'Supremo'	Sakata Seed America, Inc.	Midseason	Determinate mid compact plant. Uniform predominately extra-large fruit.	R to BSK, F-R (1, 2, 3), N, and V (1). IR to TSW.	Suited for concentrated harvests for vine ripe and mature green markets.
'Tachi'	Sakata Seed America, Inc.	Midseason	Determinate mid-compact plant. Classic saladette shape, predominately extra-large, uniform, and very similar to 'Mariana'. Wide adaptability. Suited for concentrated harvests for vine-ripe and mature-green markets.	R to ASC, F-R (1, 2), N, and V (1). IR to TSW.	Exceptional fruit set; excellent uniformity and shelf life.
<b>Grape tomato</b>					
'Amai'	Sakata Seed America, Inc.	Early main season	Smooth uniform fruit, ~1-2gr more than 'Sweet Hearts'. Dark red, firm, elongated grape-shaped fruit.	R to CLS, F-R (1), and ToM. IR to N and S.	High yield potential and uniform sizing.

Variety	Company	Season	Characteristics of plant and fruit	Resistance <sup>1</sup>	Comments
<b>Grape tomato</b>					
BHN 1022	BHN Seed	Fall and spring	Determinate and very firm fruit.	R to F-R (3) and TSW.	Heat tolerance and tomatoes with great shelf life
‘Brixmore’	Harris Moran Seed Company	Very early season	Determinate plant. Flavorful, grape-shaped fruit.	R to N, ToM, and V (1).	High brix. Excellent firmness and flavor. Early and high total yield.
‘Cupid’	Seminis Vegetable Seed, Inc.	59 days	Indeterminate, vigorous bush. Oval-shaped fruit with an excellent red color.	R to ASC, F-R (1), and S. IR to BSK.	Excellent sweet flavor.
‘Jolly Girl’	Sg <sup>2</sup>	Early season	Determinate hybrid plant. Vigorous bush with good cover. Strong set of fruit with uniform size and shape.	R to C and V (1). IR to F-R (1, 2).	Extended market life and average 10% brix.
‘Santa’	Available only by contract	75 days	Determinate plant. Vigorous bush. Firm, elongated, grape-shaped fruit.	R to F-R (1, 2, 3), N, TM, and V (1).	Outstanding in flavor and up to 50 fruit per truss.
‘Sweet Hearts’	Sakata Seed America, Inc.	Early to midseason	Indeterminate plant. Well suited for both indoor and outdoor production. Continuous sets and full clusters to the top of the plant; high yield potential. Uniform fruit with brilliant red color and excellent flavor.	R to C, CLS, F-R (1), and TM. IR to S.	Excellent flavor, high brix, and excellent shelf life.
‘St. Nick’	Sg <sup>2</sup>	Mid-early season	Indeterminate bush. Oblong, grape-shaped fruit with brilliant red color.	Unknown	Up to 10% brix and fantastic flavor.
‘Smarty’	Seedway	69 days	Indeterminate plant. Vigorous bush with short internodes. Plants are 25% shorter than ‘Santa’.	R to F-R (1) and V (1).	Good flavor, sweet, and excellent red color.
‘Tami G’	Seedway	Early season	Indeterminate bush. Vigorous. Picks for an extended period. Very sweet, firm fruit.	Unknown	Yields well.
<b>Cherry tomato</b>					
BHN 268	BHN Seed	Early to midseason	Determinate tall bush with high yields.	R to F-R (1) and V (1).	Very good shelf life.
‘Camelia’	Hazera Seeds, Inc.	Midseason	Indeterminate bush. Deep globe, cocktail-cherry-sized fruit with excellent firmness.	R to F-R (1), TM, and V (1).	Outdoor or greenhouse production and long shelf life.
‘Shiren’	Hazera Seeds, Inc.	Midseason	Compact plant with nice cluster.	R to F-R (1, 2) and ToM. IR to N.	High yield potential.
‘Sweet Treats’	Sakata Seed America, Inc.	Early main season	Strong, vigorous, indeterminate plant. Deep pink, firm, globe shaped fruit with outstanding flavor potential.	R to CLS, F-R (1, 2), and ToM. IR to FCR and S.	Strong against cracking.
<p>Note: While this list includes a number of varieties currently popular with Florida growers, it is by no means a comprehensive list of all varieties that may be adapted to the state.</p> <p><sup>1</sup>See “Disease Key” below for disease abbreviations.</p> <p><sup>2</sup>Sg = Siegers Seed Company. Since these are open-pollinated varieties, many are also available from other companies or individuals. Some have developed their own strains of a certain variety.</p>					