

Tomato Variety Trials, 1980¹

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TOMATO VARIETIES AND BREEDING LINES were evaluated during 1980 at the Gulf Coast Substation, Fairhope, Chilton Area Horticulture Substation, Clanton, and the North Alabama Horticulture Substation, Cullman. All evaluation trials were conducted in randomized complete block designs with four replications. Observational plantings were also made of selected varieties and lines at Fairhope and Cullman.

Treflan herbicide and fertilizer were broadcast and incorporated preplant. Nitrogen sidedress was applied to each side of the row when the first fruits were approximately $\frac{3}{4}$ inch in diameter. Recommended insect and disease control treatments were applied at each location. A subsoil plow was used directly beneath the row prior to planting to aid root penetration into the soil and to provide a slot for stakes.

Production data recorded, given in the tables, included yield of

¹Data presented in this report represent an unbiased evaluation of each entry. Variety, company, and chemical names are used for identification and do not imply endorsement of one over the other. Seed of breeding lines are not available for planting until named and released.

²Respectively, Research Associate and Field Superintendent, Department of Horticulture; Superintendent, Associate Superintendent, and Assistant Superintendent, Gulf Coast Substation; Superintendent and Assistant Superintendent, Chilton Area Horticulture Substation; Superintendent, North Alabama Horticulture Substation; and Senior Systems Analyst, Department of Research Data Analysis.

marketable and cull fruit and harvest dates for each variety in the trials. Plant and fruit characteristics were recorded for each variety in the Cullman trial. Marketable yield data included both total yield and yield of each size in the marketable classification. Culls in the harvest were classified as cracks, catfaces, blossom end-rot, and other. Harvest dates given identify both total harvest season and time of highest yield.

FAIRHOPE TRIAL

Seed were planted in the greenhouse at Auburn February 29, and plants were transplanted April 16 at a 15-inch spacing in 5-foot rows. Sixteen harvests were made, beginning June 10 and ending August 4.

Bonnie Nematode Resistant produced the highest yield of marketable fruits, table 1. Size distribution was about equal between large (5 x 6) and medium size (6 x 6). Better Boy VFN produced the highest yield of large-size fruits. Early Cascade is a small fruited variety that showed a high yield potential. This variety produced fruits that were mostly in the small-size range (6 x 7), and many of its cull tomatoes (listed in the "other" column) were of high quality but too small for a marketable size arrangement. Saturn, while low yielding, does have resistance to southern bacterial wilt. This vari-

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TABLE 1. STAKED FRESH MARKET TOMATO TRIAL, FAIRHOPE, 1980¹

Variety and seed source	Marketable yield/acre ²				Culls					
	Total ³	5 x 6 ⁴	6 x 6	6 x 7	Total	Pct. of total yield	Cracks	Cat-face	Blossom end-rot ⁵	Other ⁵
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.	Pct.	Pct.	Pct.	Pct.	Pct.
Replicated										
Bonnie Nematode Resistant (Bonnie Farms) . . .	612	268	292	52	12	2	11	17	13	59
Terrific VFN (Petoseed)	584	316	235	33	23	4	14	34	8	44
Flora-Dade (U. Florida)	565	284	248	33	21	4	13	12	13	62
Better Boy VFN (Petoseed)	558	428	124	6	28	5	57	13	15	15
Tempo (Asgrow)	552	384	154	14	20	3	18	33	15	34
Count (Petoseed)	551	272	248	31	14	2	10	9	23	58
Floradel (Asgrow)	534	300	200	34	30	5	42	20	7	31
Four Way Hybrid (Four Way Farms)	515	339	149	27	22	4	24	37	7	32
Early Cascade (Petoseed)	500	---	23	477	31	6	0	0	0	100
Walter Villemaire (Petoseed)	477	227	210	40	21	4	46	9	7	37
Walter (Asgrow)	473	283	172	18	20	4	48	20	0	32
Big Girl (Burpee)	471	351	105	15	39	8	42	27	22	9
Walter PF (U. Florida)	470	274	173	23	23	5	46	25	14	15
Tropic (Asgrow)	427	315	105	7	66	13	58	16	15	11
Duke (Petoseed)	409	292	106	11	33	7	35	26	20	19
AU 76 FMN (Auburn U.)	382	105	214	63	13	3	7	23	11	59
AU F ₃ G80-11 (Auburn U.)	359	238	100	21	37	9	8	50	15	27
Saturn (Twilley)	341	129	180	32	13	4	33	16	13	38
Observational										
XPH 674 (Asgrow)	538	321	192	25	15	3	15	23	10	52
Winner (Asgrow)	506	335	143	28	61	11	52	12	10	26
Calypto (Petoseed)	469	303	140	26	20	4	18	9	29	54
Hybrid 7718VF (Petoseed)	406	263	129	14	23	5	30	9	28	33
Tamiami (Petoseed)	398	232	143	23	69	15	61	19	10	10
XP 2041 (Asgrow)	356	210	126	20	14	4	11	43	21	25

¹Soil test: P = 180 (H); K = 140 (H); pH = 6.0.

²Size yields reported here are in accordance with the size standards established by the USDA for the Los Angeles type lug arrangements.

5 x 6 arrangement: minimum diameter 2 11/16 inches, maximum diameter 3 3/16 inches.

6 x 6 arrangement: minimum diameter 2 8/16 inches, maximum diameter 2 14/16 inches.

6 x 7 arrangement: minimum diameter 2 4/16 inches, maximum diameter 2 10/16 inches.

³While fruits were graded as carefully as possible under field conditions, no rigid effort was made to grade for a strict U.S. No. 1 grade. Fruits were separated for cull conditions as reported above.

⁴Some fruits in this size arrangement were larger than standard sizes.

⁵Others were mostly tomatoes too small to be marketed in the above sizes. Some were culled because of rots, insect damage, mechanical damage, and misshapen fruits.

TABLE 2. HARVEST DATES FOR STAKED FRESH MARKET TOMATO TRIAL, FAIRHOPE, 1980

Variety and seed source	Harvest dates ¹															
	6/10	6/13	6/17	6/20	6/24	6/27	6/30	7/3	7/7	7/11	7/15	7/18	7/22	7/25	7/29	8/4
Replicated																
Bonnie Nematode Resistant (Bonnie Farms)											X					
Terrific VFN (Petoseed)											X					
Flora-Dade (U. Florida)											X					
Better Boy VFN (Petoseed)											X	X	X			
Tempo (Asgrow)											X					
Count (Petoseed)													X			
Floradel (Asgrow)													X			
Four Way Hybrid (Four Way Farms)											X					
Early Cascade (Petoseed)											X					
Walter Villemaire (Petoseed)											X					
Walter (Asgrow)									X							
Big Girl (Burpee)												X	X			
Walter PF (U. Florida)									X							
Tropic (Asgrow)											X					
Duke (Petoseed)											X					
AU 76 FMN (Auburn U.)											X					
AU F ₃ G80-11 (Auburn U.)											X	X	X			
Saturn (Twilley)													X			
Observational																
XPH 674 (Asgrow)											X	X	X			
Winner (Asgrow)									X		X					
Calypto (Petoseed)											X					
Hybrid 7718 (Petoseed)										X						
Tamiami (Petoseed)											X					
XP 2041 (Asgrow)										X	X					

¹X means peak harvest date, the date at which the highest yield occurred. In some varieties, yield was approximately the same for two or three harvest dates.

ety may be useful in home gardens where southern bacterial wilt is a problem. Observational line XPH 674 produced a high yield of total marketable and 5 x 6 size fruits.

Early Cascade, Walter Villemaire, and Walter in the replicated trial and XP 2041 in the observational trial were harvested on June 10, 3 days ahead of any other varieties, table 2. Several varieties began maturing on June 13 and June 17. The latest entry was AU F₃ G80-11. Its first harvest was June 27, 17 days later than the earliest maturing varieties. Peak harvest occurred on July 15 for a large number of entries and continued for two to three harvest dates for Better Boy VFN, AU F₃ G80-11, and XPH 674. Varieties Walter, Walter PF, Winner, Hybrid 7718, and XP 2041 produced peak harvests on July 11, 4 days ahead of the other varieties. Saturn, Winner, AU F₃ G80-11, and Flora-Dade had the shortest harvest periods and XP 2041 had the longest harvest period.

CLANTON TRIAL

Seed were planted in the greenhouse at Auburn March 12, and plants were transplanted April 21 at a 15-inch spacing in 8-foot rows. Eight harvests were made, beginning June 24 and ending August 5. Count, a new variety, produced the highest yield of total marketable fruits, followed by Flora-Dade, table 3. Early Cascade produced a good yield of small fruits. The yield for Early Cascade in the "other" cull column was mostly for fruit too small for marketable size arrangements.

Bonnie Nematode Resistant and Early Cascade were harvested on all harvest dates, table 4. Six entries, Flora-Dade, XPH 674, Bonnie Nematode Resistant, Walter PF, XP 2041, and Early Cascade, reached peak harvest on July 14. Better Boy VFN and AU F₃ G80-11 maintained a peak harvest later than the other entries.

CULLMAN TRIAL

Seed were planted in the greenhouse at Auburn March 28, and plants were transplanted May 7 at a 15-inch spacing in 5-foot rows. Fourteen harvests were made, beginning July 3 and ending August 18. Thirty-six replicated and 7 observational entries were planted. Floramerica was the highest yielding entry, table 5, producing a good yield of large (5 x 6) and medium (6 x 6) fruits. Marketable yields for Tropic and XPH 674 were also good. Duke, Count, Contessa, and Calypso are new varieties with high yield potential for the Cullman area. Early Cascade produced a good yield of small-size fruits. This variety is highly desirable for home gardens and direct marketing.

Harvest dates at Cullman were variable for the different varieties, table 6. Duke, Bigset, Bonnie Nematode Resistant, Red Glow Hybrid, Baron, and Early Cascade were the first varieties harvested. Roadside Red was the earliest to reach peak harvest in the replicated trial and Starshot was first in the observational trial. Early Cascade was the only variety at Cullman that was harvested over the entire harvest season.

Fruit characteristics for each variety at Cullman are presented in table 7. Fruit shape was variable for the different varieties, with several entries having mixed fruit shape. Fruit firmness was rated for three categories by examination and feel of each variety at pink and/or red ripe maturity. Eye appeal was rated for the overall appearance of fruit before sizing and grading was done.

Varieties in the Cullman trial also were rated for their potential use in home gardens, roadside markets, or commercial shipping. Those designated "3," in table 7, would have potential for all three uses. However, entries rated home garden and roadside use ("1" and "2") should be studied carefully before any plantings for shipping are made. There are situations where some of these varieties could be used for shipping. For instance, Supermarket can be grown for early shipping when it is harvested mature green.

TABLE 3. STAKED FRESH MARKET TOMATO TRIAL, CLANTON, 1980¹

Variety and seed source	Marketable yield/acre ²				Culls					
	Total ³	5 x 6 ⁴	6 x 6	6 x 7	Total	Pct. of total yield	Cracks	Cat-face	Blossom end-rot	Other ⁵
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.	Pct.	Pct.	Pct.	Pct.	Pct.
Count (Petoseed)	369	207	93	69	126	25	12	6	1	81
Flora-Dade (U. Florida)	307	165	83	59	174	36	12	8	1	79
XPH 674 (Asgrow)	291	188	68	35	161	36	12	10	0	78
Four Way Hybrid (Four Way Farms)	268	214	38	16	258	47	53	5	0	42
Tempo (Asgrow)	257	187	42	28	237	48	29	26	0	45
Better Boy VFN (Petoseed)	249	202	32	15	315	56	60	5	3	32
Tropic (Asgrow)	240	193	33	14	223	48	37	12	1	50
Bonnie Nematode Resistant (Bonnie Farms)	233	154	51	28	296	56	40	5	4	51
Tamiami (Petoseed)	217	127	50	40	288	57	35	12	0	53
Duke (Petoseed)	215	142	42	31	249	54	33	5	0	62
Walter PF (U. Florida)	214	126	52	36	211	49	35	12	0	53
Winner (Asgrow)	209	141	40	28	296	59	19	8	0	73
Calypso (Petoseed)	208	131	46	31	191	48	30	4	3	63
XP 2041 (Asgrow)	195	128	40	27	159	45	11	20	7	62
AU F ₃ G80-11 (Auburn U.)	194	143	36	15	327	63	41	8	0	51
Early Cascade (Petoseed)	111 ⁶	1	10	100	359	76	0	0	2	98

¹Soil test: P = 208 (H); K = 242 (H); pH = 5.8. One ton limestone applied per acre.

²Size yields reported here are in accordance with the size standards established by the USDA for the Los Angeles type lug arrangements.

5 x 6 arrangement: minimum diameter 2 11/16 inches, maximum diameter 3 3/16 inches.

6 x 6 arrangement: minimum diameter 2 8/16 inches, maximum diameter 2 14/16 inches.

6 x 7 arrangement: minimum diameter 2 4/16 inches, maximum diameter 2 10/16 inches.

³While fruits were graded as carefully as possible under field conditions, no rigid effort was made to grade for a strict U.S. No. 1 grade. Fruits were separated for cull conditions as reported here.

⁴Some fruits in this size arrangement were larger than standard sizes.

⁵Others were mostly tomatoes too small to be marketed in the above sizes. Some were culled because of rots, insect damage, mechanical damage, and misshapen fruits.

⁶Most fruits of this variety were too small for marketable size arrangements; however, cull yields reported under "other" averaged between 1 and 2 inches in diameter with good quality.

TABLE 4. HARVEST DATES FOR STAKED FRESH MARKET TOMATO TRIAL, CLANTON, 1980

Variety and seed source	Harvest dates ¹							
	6/24	7/1	7/8	7/14	7/17	7/22	7/28	8/5
Count (Petoseed)					X			
Flora-Dade (U. Florida)				X				
XPH 674 (Asgrow)				X				
Four Way Hybrid (Four Way Farms)					X			
Tempo (Asgrow)					X			
Better Boy VFN (Petoseed)						X	X	
Tropic (Asgrow)					X			
Bonnie Nematode Resistant (Bonnie Farms)				X				
Tamiami (Petoseed)					X	X		
Duke (Petoseed)						X		
Walter PF (U. Florida)				X				
Winner (Asgrow)						X		
Calypso (Petoseed)					X			
XP 2041 (Asgrow)				X				
AU F ₃ G80-11 (Auburn U.)					X	X	X	
Early Cascade (Petoseed)				X				

¹X means peak harvest date, the date at which the highest yield occurred. In some varieties, yield was approximately the same for two or three harvest dates.

TABLE 5. STAKED FRESH MARKET TOMATO TRIAL, CULLMAN, 1980¹

Variety and seed source	Marketable yield/acre ²				Culls				
	Total ³	5 x 6 ⁴	6 x 6	6 x 7	Total	Pct. of total yield	Cracks	Cat-face	Other ⁵
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.	Pct.	Pct.	Pct.	Pct.
Replicated									
Floramerica (Petoseed)	667	324	301	52	79	10	3	50	67
Tropic (Asgrow)	608	204	305	99	131	18	4	37	59
XPH 674 (Asgrow)	603	100	408	95	108	15	2	13	85
Duke (Petoseed)	591	130	377	84	78	12	2	16	82
Walter (Petoseed)	559	37	394	128	281	33	2	8	90
Count (Petoseed)	557	47	359	151	125	22	3	8	89
Flora-Dade (U. Florida)	554	42	365	147	144	21	1	5	94
Contessa (Petoseed)	552	151	319	82	126	19	2	37	61
Bigset (Petoseed)	551	110	333	108	169	23	2	12	86
Better Boy VFN (Petoseed)	550	160	313	77	79	13	7	20	73
Winner (Asgrow)	543	150	313	80	166	23	5	21	74
Calypso (Petoseed)	542	115	343	84	88	14	3	15	82
77 18VF (Petoseed)	538	152	305	81	110	17	6	25	69
Tempo (Asgrow)	537	60	364	113	170	24	1	20	79
Four Way Hybrid (Four Way Farms)	535	82	374	79	77	13	4	14	82
Pink Delight Hybrid (Twilley)	511	73	344	94	115	18	2	27	71
Super Red Hybrid (Agway)	507	151	278	78	93	16	3	17	80
Walter Villemaire (Petoseed)	505	52	326	127	191	27	3	11	86
Walter F (Petoseed)	498	105	291	102	182	27	5	8	87
Floradel (Asgrow)	494	75	305	114	184	27	2	8	90
Tamiami (Petoseed)	488	43	295	150	240	33	4	8	88
Walter PF (U. Florida)	484	45	311	128	169	26	3	9	88
Big Girl (Burpee)	472	176	246	50	46	9	6	20	74
Hybrid 980 (Agway)	468	76	285	107	169	27	2	9	89
Supermarket (Asgrow)	456	44	290	122	119	21	5	3	92
Traveler (Twilley)	439	22	285	132	129	23	3	5	92
Bonnie Nematode Resistant (Bonnie Farms)	428	50	270	108	156	27	2	6	92
Red Glow Hybrid (Twilley)	427	62	264	101	150	26	3	8	89
Walter Early Strain (Petoseed)	421	48	263	110	185	31	2	9	89
Roadside Red (Agway)	403	38	255	110	121	23	6	9	85
Patriot (USDA Charleston)	403	45	219	139	247	39	1	2	97
Homestead 24 (Niagara)	392	20	246	126	175	31	3	8	89
XP 2041 (Asgrow)	382	77	246	59	92	19	12	29	59
Baron (Petoseed)	372	48	244	80	119	24	3	9	88
AU 76 FMN (Auburn U.)	344	13	219	112	211	38	2	16	82
Early Cascade (Petoseed)	550 ⁶	---	---	---	---	---	0	0	---

Continued

TABLE 5 (CONTINUED). STAKED FRESH MARKET TOMATO TRIAL, CULLMAN, 1980¹

Variety and seed source	Marketable yield/acre ²				Culls					
	Total ³	5 x 6 ⁴	6 x 6	6 x 7	Total	Pct. of total yield	Cracks	Cat-face	Other ⁵	
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.	Pct.	Pct.	Pct.	Pct.	
Observational										
Castle 1020 (Castle)	521	76	338	107	168	24	2	4	94	
XP 2032 A (Asgrow)	490	60	326	104	170	26	2	18	80	
Golden Queen (Stokes)	331	48	204	79	60	15	1	3	96	
Castle 1025 (Castle)	310	22	210	78	103	25	8	5	87	
AU F ₁₀ G80-12 (Auburn U.)	249	22	149	78	208	46	1	8	91	
Amex VFN (Asgrow)	233	37	156	40	86	27	13	8	79	
Starshot (Stokes)	47	3	20	24	326	87	0	0	100	

¹Soil test: P = 330 (VH); K = 160 (H); pH = 5.0. Two and one-half tons limestone applied per acre.

²Size yields reported here are in accordance with the size standards established by the USDA for the Los Angeles type lug arrangements.

5 x 6 arrangement: minimum diameter 2 11/16 inches, maximum diameter 3 3/16 inches.

6 x 6 arrangement: minimum diameter 2 8/16 inches, maximum diameter 2 14/16 inches.

6 x 7 arrangement: minimum diameter 2 4/16 inches, maximum diameter 2 10/16 inches.

³While fruits were graded as carefully as possible under field conditions, no rigid effort was made to grade for a strict U.S. No. 1 grade. Fruits were separated for cull conditions as reported here.

⁴Some fruits in this size arrangement were larger than standard sizes.

⁵Others were mostly tomatoes too small to be marketed in the above sizes. Some were culled because of rots, insect damage, mechanical damage, and misshapen fruits.

⁶Fruits of this variety averaged between 1 and 2 inches in diameter. No size arrangement could be made.

TABLE 6. HARVEST DATES FOR STAKED FRESH MARKET TOMATO TRIAL, CULLMAN, 1980

Variety and seed source	Harvest dates ¹													
	7/3	7/8	7/10	7/14	7/17	7/21	7/24	7/28	7/31	8/4	8/7	8/11	8/14	8/18
Replicated														
Floramerica (Petoseed)										X				
Tropic (Asgrow)											X	X		
XPH 674 (Asgrow)										X				
Duke (Petoseed)											X			
Walter (Petoseed)											X			
Count (Petoseed)										X				
Flora-Dade (U. Florida)											X			
Contessa (Petoseed)										X				
Bigset (Petoseed)										X				
Better Boy VFN (Petoseed)										X				
Winner (Asgrow)										X				
Calypso (Petoseed)											X			
7718 VF (Petoseed)										X				
Tempo (Asgrow)										X				
Four Way Hybrid (Four Way Farms)											X	X		
Pink Delight Hybrid (Twilley)										X				
Super Red Hybrid (Agway)										X				
Walter Villemaire (Petoseed)										X				
Walter F (Petoseed)										X				
Floradel (Asgrow)										X	X			
Tamiami (Petoseed)										X				
Walter PF (U. Florida)										X	X			
Big Girl (Burpee)										X				
Hybrid 980 (Agway)										X				
Supermarket (Asgrow)										X				
Traveler (Twilley)										X				
Bonnie Nematode Resistant (Bonnie Farms)										X				
Red Glow Hybrid (Twilley)											X			
Walter Early Strain (Petoseed)										X	X			
Roadside Red (Agway)							X							
Patriot (USDA)									X					
Homestead 24 (Asgrow)										X				
XP 2041 (Asgrow)										X				
Baron (Petoseed)										X				
AU76 FMN (Auburn U.)									X	X				
Early Cascade (Petoseed)										X				
Observational														
Castle 1020 (Castle)										X				
XP 2032 A (Asgrow)										X				
Golden Queen (Stokes)										X				
Castle 1025 (Castle)										X				
AU F ₁₀ G80-12 (Auburn U.)											X			
Amex VFN (Asgrow)												X		
Starshot (Stokes)						X								

¹X means peak harvest date, the date at which the highest yield occurred. In some varieties, yield was approximately the same for two or three harvest dates.

TABLE 7. PLANT HEIGHT AND FRUIT CHARACTERISTICS OF TOMATO VARIETIES, CULLMAN, 1980

Variety and seed source	Plant height	Fruit			Eye appeal ³	Suggested use ⁴
		Color	Shape ¹	Firmness ²		
<i>In.</i>						
Replicated						
Florameric (Petoseed)	34	Red	2	2	3	1,2
Tropic (Asgrow)	49	Red	4	2	2	1,2
XPH 674 (Asgrow)	36	Red	1	1	2	3
Duke (Petoseed)	33	Red	4	1	2	3
Walter (Petoseed)	36	Red	4	2	3	3
Count (Petoseed)	39	Red	1	1	1	3
Flora-Dade (U. Florida)	41	Red	1	2	1	3
Contessa (Petoseed)	39	Red	5	1	3	1
Bigset (Petoseed)	32	Red	1	2	2	1,2
Better Boy VFN (Petoseed)	50	Red	1	3	1	1,2
Winner (Asgrow)	30	Red	5	2	3	1
Calypso (Petoseed)	31	Red	2	1	2	3
7718VF (Petoseed)	39	Red	3	3	3	!
Tempo (Asgrow)	29	Red	4	2	2	3
Four Way Hybrid (Four Way Farms)	48	Red	1	1	1	3
Pink Delight Hybrid (Twilley)	49	Pink	1	2	1	1,2
Super Red Hybrid (Agway)	58	Red	4	2	3	1
Walter Villemaire (Petoseed)	34	Red	1	3	1	1,2
Walter F (Petoseed)	26	Red	1	2	2	3
Floradel (Asgrow)	43	Red	4	2	1	3
Tamiami (Petoseed)	33	Red	1	3	2	1
Walter PF (U. Florida)	36	Red	1	1	2	3
Big Girl (Burpee)	59	Red	2	3	1	1,2
Hybrid 980 (Agway)	41	Red	3	3	3	1
Supermarket (Asgrow)	36	Red	4	3	2	1,2
Traveler (Twilley)	41	Pink	1	2	1	1,2
Bonnie Nematode Resistant (Bonnie Farms)	33	Red	1	3	3	1
Red Glow Hybrid (Twilley)	39	Red	4	3	2	1
Walter Early Strain (Petoseed)	32	Red	2	2	1	3
Roadside Red (Agway)	43	Red	2	3	3	1
Patriot (USDA Charleston)	45	Red	3	3	3	1
Homestead 24 (Niagara)	33	Red	3	3	2	1,2
XP 2041 (Asgrow)	30	Red	5	2	3	1
Baron (Petoseed)	26	Red	2	1	2	3
AU 76 FMN (Auburn U.)	51	Red	3	2	3	1
Early Cascade (Petoseed)	54	Red	1	3	1	1,2
Observational						
Castle 1020 (Castle)	39	Red	2	1	1	3
XP 2032 A (Asgrow)	38	Red	2	2	1	3
Golden Queen (Stokes)	50	Yellow	5	3	3	1
Castle 1025 (Castle)	36	Red	2	3	2	1,2
AU F ₁₀ G80-12 (Auburn U.)	54	Red	3	2	3	1
Amex VFN (Asgrow)	39	Red	1	3	1	1
Starshot (Stokes)	20	Red	---	3	3	1

¹Shape rating: 1 = globe, 2 = deep globe, 3 = oblate, 4 = deep oblate, 5 = mixed.

²Firmness rating: 1 = very firm, 2 = firm, 3 = soft.

³Appearance rating: 1 = smooth, 2 = slightly rough, 3 = rough.

⁴Use rating: 1 = home garden, 2 = roadside and other direct marketing, 3 = commercial shipping.

Information contained herein is available to all without regard to race, color, sex, or national origin.