

Agricultural Experiment Station AUBURN UNIVERSITY

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Vegetable Variety Trials, 1975¹

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VEGETABLE VARIETY and breeding line³ trials were conducted during 1975 at the Gulf Coast Substation, Fairhope; the Chilton Area Horticulture Substation, Clanton; the North Alabama Horticulture Substation, Cullman; the Sand Mountain Substation, Crossville; and the Main Station at Auburn. All trials were conducted in randomized replicated plots with recommended fertilizer rates and applications for each crop and location. Non replicated observational plantings were also made of selected lines of snap beans, pickling cucumbers, and staked fresh market tomatoes. Insect and disease control measures were applied on a regular schedule throughout the growing season with irrigation applied when needed. Summaries of results are reported in this publication.

RESULTS

Snap Beans (Clanton). Seed were planted April 28 and spaced 2 inches apart in 44-inch rows. Harvest dates varied by varieties with varieties harvested once over to simulate machine harvesting. Yield was highest for Exp. 146-B24 and lowest for MSU 867, Table 1, both of which were in the observational trial. E 2202 produced the highest yield for the replicated trial. Differences in maturity for the varieties tested are indicated in the sieve sizes. MSU 867 is a flat bean and will not fit into the scale used for bean diameters.

Bell Pepper (Cullman). Seed were planted in the greenhouse at Auburn March 24 and seedlings field

transplanted May 13. Plants were spaced 2 feet apart in 44-inch rows. Four harvests were made beginning July 10 and ending August 26. Hybrid No. 19 was the highest yielding variety, with Canape Hybrid and NCX 4007 producing the highest number of marketable fruits per plant, Table 2. Yolo Select Pak produced the largest pods again this year. Canape Hybrid, Pick-A-Peck, and Early Bountiful Hybrid produced the smallest pods. Sixteen varieties produced pods with 3 to 4 lobes; NCX 4007 and Pick-A-Peck produced pods with 2 lobes; NCX 4007 had the longest pod and California Wonder the shortest. NCX 4007 produced pods with the largest diameter but several varieties had fruits with a 3-inch diameter. Pod wall thickness of all varieties ranged from 4 to 6 mm. Delaware Belle and Early Bountiful Hybrid produced the earliest harvest.

Cabbage (Auburn). Seed were planted on January 6 and seedlings were field transplanted February 28. Plants were spaced 15 inches apart in 40-inch rows. Excessive rainfall during maturity caused some varieties to split. Marketable yields were generally lower than the 1974 yields. Prime Pak and Market Topper produced the highest marketable yields, Table 3. Golden Acre has consistently been a poor performing variety. Heads of this variety will split before they reach market maturity. Red Danish is not adapted for commercial growing but could be grown in the home garden. Asgrow XP 1058 produced the most uniform heads. Stonehead produced the most desirable head size and uniformity for the named varieties. Stonehead is well adapted for commercial production. Green Boy and Blue Chip had the most variable head sizes. Sanible, Head Start, Jet-Pak, Copenhagen Market, Banner, XP 1058, Golden Acre, and Stonehead were the earliest maturing varieties. Red Danish was the latest maturing variety.

¹Data presented in this publication are a true evaluation of each entry. Variety and company names are used for identification and do not imply endorsement of one over the other.

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³Seed of breeding lines are not available for planting until named and released.

TABLE 1. SNAP BEAN VARIETY TRIAL, CLANTON, 1975¹

Variety	Market-able yield/acre	Growing days	Color ²	Shape	Straight-ness ³	Bean length	Sieve sizes ⁴				
							1	2	3	4	5
	Bu.	No.				In.	Pct.	Pct.	Pct.	Pct.	Pct.
Replicated											
E 2202	257	52	G	Heart	S	5.50	4	6	8	24	58
XI 68-2988	233	52	DG	Heart	S	5.25	14	8	30	22	26
BBL-68-115	228	52	DG	Heart	SC	4.75	8	12	18	24	38
Torrent (E 2203)	224	50	G	Heart	SC	5.25	9	15	15	31	30
XP-B 51	218	52	G	Round	SC	5.50	8	15	17	34	26
BBL Supreme	213	52	G	Heart	SC	5.25	0	10	6	26	58
Astro (check)	165	52	DG	Round	S	5.25	14	10	10	35	31
W. S. Provider	158	50	LG	Heart	S	4.75	14	4	6	18	58
B 4000-3	149	50	G	Heart	SC	4.75	2	2	8	14	74
Observational											
Exp. 146-B 24	275	50	LG	Round	SC	5.25	17	12	8	31	32
Exp. 113-70	271	50	LG	Round	VC	5.00	11	4	6	33	46
GP 71-135	263	50	G	Heart	CTD	4.50	14	10	10	35	31
H 109-3	251	50	G	Heart	SC	4.75	22	12	12	32	22
E 4218	204	50	G	Heart	CTD	5.00	25	4	5	25	41
Blue Crop	192	52	G	Round	CTD	5.25	6	17	13	36	28
E. Gallatin (ck.)	177	50	G	Round	VC	4.50	10	16	12	34	28
Code 140	176	50	G	Round	CTD	4.50	15	12	9	35	29
Code 112	171	52	DG	Heart	VC	5.00	22	17	19	16	26
NCX 8005	171	50	LG	Heart	CTD	5.25	19	11	11	34	25
E 4204	142	50	DG	Round	SC	5.25	28	12	12	22	26
MSU 867	114	50	G	Flat	CTD	4.50	0	0	0	0	100

¹ Soil test p = 290 (VH); k = 300 (VH); pH = 5.5. 1½ tons of limestone applied per acre.

² G = green; LG = light green; DG = dark green.

³ S = straight; SC = slightly curved; VC = very curved; CTD = curved in two directions.

⁴ Sieve size was determined from a 100 pod sample taken at random from the four replications. Sieve denotes canning size grades with size 1 having the smaller diameter and 5 having the larger.

TABLE 2. BELL PEPPER VARIETY TRIAL, CULLMAN, 1975¹

Variety	Seed source	Yield per acre	Market-able pods per plant	Pod weight	Fruit color ²	Lobes ³	Eye appeal ⁴	Pod length		Pod diameter	Wall thickness	Harvest season ⁵
								In.	In.			
		Cwt.	No.	Lb.				In.	In.	mm		
Hybrid No. 19	T. Sakata	203	13.7	.25	G ⁶	2-3	1.5	3.54	2.89	5	M	
Emerald Giant	Twilley	193	11.2	.29	G	3-4	3.5	2.95	2.86	6	L	
NCX 4007	Niagara	191	14.0	.23	G	2	2.0	4.26	3.29	6	M-L	
Canape Hybrid	T. Sakata	186	14.9	.21	G ⁶	2-3	3.0	3.09	2.32	4	L	
World Beater	Ferry-Morse	178	11.5	.26	LG	3-4	1.5	3.74	2.76	5	E-M	
NCX 4008	Niagara	172	10.7	.27	G	3	2.0	3.81	2.75	5	M	
Pick-A-Peck	T. Sakata	166	13.3	.21	G ⁶	2	1.5	3.59	2.51	6	M	
Midway	Petoseed	164	9.5	.29	G	3	4.0	3.25	3.10	6	M	
Mercury	Petoseed	163	8.6	.32	G	3-4	4.5	3.18	3.41	6	L	
Miss Belle	MAFES	159	8.4	.32	G	3	3.5	3.19	2.80	6	E-M	
Twilley's Big Pack	Twilley	155	8.4	.31	G	3-4	1.5	3.03	3.08	6	M	
Delaware Belle	Letherman	155	9.7	.27	DG	3-4	2.0	2.86	2.93	6	E	
Belair	Niagara	153	8.9	.29	G	3	4.5	3.31	3.21	6	M	
Yolo Wonder L	Keystone	147	8.8	.28	DG	4	2.0	3.24	3.26	6	M	
NCX 4002	Niagara	146	8.2	.30	G	3	3.0	3.34	2.90	6	E-M	
California Wonder	Keystone	137	8.5	.27	G	3	4.0	2.54	2.64	4	M	
California Wonder 300	Petoseed	133	8.3	.27	G	3	1.5	2.98	2.75	4	M	
Yolo Select Pak	Twilley	132	6.7	.33	G	3-4	4.5	3.26	3.36	6	L	
Titan (TMR)	Twilley	130	7.3	.30	G	3	1.5	3.20	2.79	4	E-M	
Early Bountiful Hybrid	T. Sakata	116	9.3	.21	LG ⁶	3	2.0	2.71	2.61	5	E	

¹ Soil test p = 470 (EH); k = 140 (H); pH = 6.1.

² LG = light green; G = green; DG = dark green.

³ Numbers in this column occurred most often for each variety.

⁴ Rating index: 5 = excellent; 4 = good; 3 = fair; 2 = poor; 1 = very poor.

⁵ E = early; M = mid-season; L = late.

⁶ Turns red early.

TABLE 3. HYBRID CABBAGE VARIETY TRIAL, AUBURN, SPRING, 1975¹

Variety	Seed source	Marketable yield/acre	Mean head weight	Uniformity of heads ²	Growing days	Season ³	Color ⁴	Harvest	Remarks
		Cwt.	Lb.	Lb.	No.			No.	
Prime Pak	Ferry-Morse	389.5	3.73	± .84	89	L	BG	1	
Market Topper	Harris	385.7	3.69	± .55	83	M	LG	1	
Sanibel	NK	381.4	3.65	± .92	71	E	BG	1	Some split heads
King Cole	Harris	372.6	3.66	± .60	82	M	LG	1	
NCX 907	Niagara	369.1	3.53	± .61	89	L	BG	1	
Green Boy	NK	367.8	3.60	±1.07	83	M	BG	1	
Blue Chip	Ferry-Morse	360.2	3.66	±1.04	82	M	BG	1	
Express	Asgrow	356.0	3.41	± .45	78	M	DG	1	
Tastie	NK	355.2	3.40	± .85	74	E	G	1	
Jackpot	Niagara	347.5	3.32	± .82	82	M	DG	1	
Rio Verde	NK	332.6	3.34	± .93	82	M	BG	1	
Round Dutch ⁵	Ferry-Morse	329.8	3.15	± .92	74-82	E-M	DG	2	Some split heads
Head Start	Asgrow	325.3	3.20	± .41	71	E	DG	1	Some split heads
Hercules	NK	316.8	3.11	± .57	82	M	BG	1	
Market Prize	Harris	316.5	3.03	± .66	82	M	BG	1	
NCX 903	Niagara	306.8	2.93	± .50	83	M	DG	1	
Green Back ⁵	Local	300.0	2.93	± .74	83-90	M-L	BG	2	
Jet-Pak	NK	297.4	2.85	± .47	71	E	DG	1	
Copenhagen Market ⁵	NK	295.9	2.83	± .55	71-82	E-M	G	2	Split badly
Headmaster	Ferry-Morse	294.3	2.82	± .69	83	M	BG	1	
Banner	Asgrow	293.3	2.81	± .63	71	E	LG	1	Split badly
XP 1058	Asgrow	254.8	2.44	± .26	71	E	DG	1	Some split heads
Golden Acre ⁵	NK	231.1	2.27	± .67	64-71	E	G	2	Split badly
Stonehead	NK	206.1	1.97	± .33	71	E	G	1	
Red Danish ⁵	Stokes	179.4	1.91	± .51	91	L	R	1	Not adapted

¹ Soil test p = 570 (EH); k = 80 (M); pH = 6.2.

² Standard deviation.

³ E = early; M = medium; L = late.

⁴ G = green; BG = bluegreen; LG = light green; DG = dark green; R = red.

⁵ Not a hybrid.

Sweet Corn (Cullman). Seed were planted May 6 and spaced approximately 9 inches apart with 2 plants per hill in 44-inch rows. Golden Security has produced excellent yields for the past two years. This year it was the highest yielding variety, Table 4. Capitan and Apache also produced good yields. Golden Queen produced the largest ear weight and G-80 produced the smallest. Goldenrod produced the longest ear; NCX 243 had the largest ear diameter; Bittersweet had the largest cob diameter and Silver Queen produced the most consistent number of kernel rows. Triumphant II, Tendersweet, XP 1791 and XP 362 produced straight kernel rows; XP 1331 had the best tip cover; Tendersweet and Seneca Feather had the best ear filling and Seneca Feather was rated best for eye appeal. Sweet Tennessee was rated highest for ease of snapping, Table 5. Fanfare, Aztec, XP 1331, XP 72-1651, Comanche, and XP 72-1707 were the earliest maturing. XP 72-1707 was the shortest and Goldenrod the tallest growing plants.

Pickling Cucumbers (Auburn). Seed were planted May 2 and spaced 6 inches apart in 40-inch rows. A hail storm on May 26 completely defoliated the crop. Regrowth occurred rapidly and ten harvests were made for all entries. Calypso, Score, Triple Cross, and Explorer were the highest yielding varieties in the replicated trial, Table 6. FX 3808 and 11C2

were the overall highest yielding entries. Calypso is a new variety that matures early and has performed well in grower trials in the Montgomery County area. It has also performed well in commercial brining studies with Whitfield Pickle Company. Calypso, Triple Cross, and Sumter had a dark green fruit color with good shape and internal structure as reflected by the low percent carpel separation of No. 4 size cucumbers. All the varieties had white spines. This characteristic is highly desirable for our pickling industry.

Slicing Cucumbers (Cullman). Seed were planted June 5 with plants spaced 6 inches apart in 5-foot rows. Overall yields were less than last year. Twelve harvests were made beginning July 14 and ending August 12. Victory was the highest yielding variety for ground and trellis production, Table 7. Victory and Sweet Slice grown on trellis produced 15 and 53 percent respectively more marketable yield than the ground treatment. In a wet growing season, fewer fruits are lost to pythium rot from the trellis treatment. To date, there are no effective means of controlling diseases on the cucumber fruit that lies on the ground.

Eggplant (Cullman). Seed were planted in the greenhouse at Auburn March 14 and field transplanted May 3. Plants were spaced 2 feet apart in 5-foot rows. Seven harvests were made beginning

TABLE 4. SWEET CORN VARIETY TRIAL, CULLMAN, 1975¹

Variety	Ears per acre	Ear wt.	Color ²	Ear length	Ear diameter	Cob diameter	Kernel rows	Row shape ³	Ear set ht.	Tip cover ⁴	Ear filling ⁴	Eye appeal ⁴
	Doz.	Lb.		In.	In.	In.	No.	In.				
Golden Security	2,219	.56	Y	7.63	1.45	.59	14-16	S-SC	27	3.38	2.88	3.08
Capitan	2,195	.72	Y	7.83	1.63	.66	14-16	S-SC	30	2.70	3.25	3.60
Apache (XP 358)	2,186	.59	Y	6.88	1.50	.66	14-16	S-SC	31	3.20	3.50	3.00
Goldenrod	2,096	.69	Y	9.03	1.55	.59	14-16	S-SC	35	2.88	2.63	2.90
Calumet	2,087	.57	Y	7.73	1.48	.60	12-14	SC	27	2.80	3.25	3.30
Merit	2,087	.70	Y	7.70	1.72	.78	16-18	SC	31	2.73	3.00	3.55
G-80 (La Se Co)	2,079	.45	Wh	6.43	1.48	.60	12-14	S-SC	21	2.75	2.88	2.83
Triumphant II	2,063	.71	Y	7.90	1.68	.59	16-18	S	31	2.58	3.13	3.68
Fanfare	2,038	.61	Y	7.53	1.60	.82	16-18	S-SC	19	2.78	4.13	3.73
Golden Queen	2,036	.74	Y	7.43	1.67	.63	14-16	S-SC	32	2.78	3.25	3.63
XP 185 A (Asgrow)	2,030	.57	Y	7.85	1.48	.68	14-16	S-SC	31	3.20	3.25	3.68
XP 27786 (La Se Co)	2,030	.53	Wh	6.18	1.54	.73	12-14	SC	26	2.93	3.75	3.58
Keystone Ev. Gr. Hybrid	2,021	.64	Wh	7.15	1.58	.64	14-16	S-SC	31	2.63	2.50	2.40
Aztec	2,013	.53	Y	7.00	1.56	.62	12-14	S-SC	22	2.50	3.25	3.03
Hybrid Seneca Scout	2,013	.57	Y	6.70	1.53	.51	14-16	S-SC	28	2.80	3.88	3.95
Silver Queen	2,005	.67	Wh	6.90	1.64	.66	14	S-SC	31	2.35	3.75	3.43
XP 70-2428 (Rogers)	1,997	.61	Y	7.65	1.68	.73	16-18	SC	25	2.63	2.75	3.25
XP 194 (Robson)	1,972	.66	Y	7.30	1.61	.64	16-18	S-SC	31	2.53	3.00	3.25
XP 1331 (Asgrow)	1,964	.56	Y	7.60	1.36	.60	14-16	S-SC	22	3.73	3.50	3.38
Comet	1,922	.67	Wh	7.35	1.70	.65	14-16	S-SC	29	3.03	3.50	3.40
NCX 243 (Niagara)	1,906	.69	Y	7.65	1.83	.81	18-20	S-SC	37	2.55	3.00	3.51
Tendersweet	1,898	.53	Y	7.88	1.45	.50	12-14	S	25	2.85	4.50	4.13
XP 71-2291 (Rogers)	1,881	.58	Y	7.58	1.69	.77	16-18	S-SC	25	2.53	3.00	3.43
XP 72-1651 (Rogers)	1,881	.60	Y	7.18	1.47	.77	14-16	S-SC	17	3.08	3.13	3.35
Commander	1,873	.68	Y	7.90	1.65	.75	16-18	S-SC	29	2.83	2.75	3.35
Comanche	1,856	.49	Y	7.28	1.41	.66	14-16	SC	22	3.13	3.25	3.13
Wintergreen	1,856	.65	Y	7.60	1.45	.69	14-16	S-SC	22	2.98	3.50	3.40
XP 64-2160	1,856	.59	Y	7.38	1.58	.69	12-14	SC	19	2.80	2.50	2.65
Buttersweet	1,840	.62	Y	7.53	1.68	.84	18-20	S-SC	32	2.20	3.00	3.53
Hybrid Seneca Chief	1,832	.49	Y	7.75	1.50	.53	12-14	S-SC	19	2.85	3.50	3.26
XP 1791 (NK)	1,823	.70	Y	7.83	1.70	.66	16-18	S	24	2.38	2.50	2.93
XP 27787 (La Se Co)	1,815	.49	Wh	6.53	1.53	.62	12-14	S-SC	22	3.05	2.38	2.53
Sweet Tennessee	1,799	.73	Y	7.55	1.63	.75	16-18	S-SC	34	3.03	2.75	3.38
Seneca Feather	1,799	.59	Y	7.25	1.44	.61	12-14	SC	22	2.95	4.50	4.25
Silverliner	1,774	.50	Wh	7.95	1.55	.62	12-14	SC	29	2.65	2.63	3.38
Salute	1,741	.62	Y	7.08	1.68	.75	18-20	S-SC	25	2.58	2.88	3.63
NCX 2008 (Niagara)	1,724	.70	Y	8.15	1.72	.83	18-20	S-SC	30	2.65	3.00	2.90
Bicolor Silver Queen	1,683	.51	Wh	8.15	1.48	.52	12-14	S-SC	30	3.20	3.13	3.40
XP 362 (Asgrow)	1,667	.59	Y	7.63	1.58	.57	16-18	S	26	2.75	3.50	3.13
XP 72-1707 (Rogers)	1,584	.48	Y	7.18	1.54	.73	12-14	S-SC	11	2.90	2.00	2.35
Florida Sweet	1,559	.60	Y	7.90	1.55	.69	14-16	S-SC	24	2.90	2.50	2.53

¹ Soil test p = 280 (very high); k = 130 (high); pH = 6.4.

² Y = yellow; Wh = white.

³ S = straight; SC = slightly curved.

⁴ Rating index: 5 = excellent; 4 = good; 3 = fair; 2 = poor; 1 = very poor.

July 2 and ending August 29. Blackoval Hybrid was the highest yielding variety again this year, Table 8. Midnite Hybrid and Jersey King Hybrid also produced good yields. Early Beauty Hybrid produced the largest number of marketable fruits per plant but also the smallest fruits in the trial. Blacknite Hybrid had the highest eye appeal. Early Beauty Hybrid and Long Purple had the fewest spines.

Potatoes (Crossville and Fairhope). Seed potatoes obtained from Frito Lay Company Baldwin County, Alabama, USDA, Wisconsin, and North Dakota, were brought to Auburn and stored at 40° F. until planting time. Seed pieces were cut to approximately 1½ ounces each, dipped for rot control in a solution of 1 pound of Benlate in 50 gallons of water, dried, calloused, and presprouted at 55° F. for approximately 2 weeks and planted on February 26 at Fairhope and March 3 at Crossville. Plots were harv-

ested June 5 at Fairhope and July 2 at Crossville. Red La Soda—North Dakota, and B6987-56 were the two highest yielding varieties at Crossville while B7139-4 and Red La Soda—Wisconsin were the two highest yielding varieties at Fairhope, Table 9. Specific gravity was in general higher for the Crossville trial. B6987-56 had the highest specific gravity for both locations. This line has performed very well in Alabama and will be tested in grower trials for the 1976 season. B7679-9 had a solid russet skin and was rated outstanding for eye appeal.

Sweet Potatoes (Auburn, Clanton, and Cullman). Varieties and breeding lines were obtained from breeders in February and stored at 55° F. until time for presprouting. Seed were presprouted at 85° F. for 2 weeks; treated with 8 ounces of Mertect 340-F in 7.5 gallons of water for 15 to 20 seconds and placed in electric heated beds. Seeds of new introductions are limited, therefore, plant production was

TABLE 5. PLANT CHARACTERISTICS OF SWEET CORN VARIETIES, CULLMAN, 1975^a

Variety	Plant height	Ease of snapping ²	Shank length	Flag leaves ³	Growing days	Harvest season
	In.		In.		No.	
Golden Security	94	2.63	3.63	3.25	72	Mid-season
Capitan	83	3.50	3.48	2.25	75	Late
Apache	93	3.00	3.63	3.00	70	Mid-season
Goldenrod	99	3.13	3.85	2.75	72	Mid-season
Calumet	95	2.63	2.98	3.50	72	Mid-season
Merit	90	3.25	3.23	3.00	70	Mid-season
G-80 (La Se Co)	78	2.63	2.80	2.75	68	Early
Triumphant II	91	3.13	2.70	2.25	72	Mid-season
Fanfare	78	3.50	3.05	3.38	65	Early
Golden Queen	92	3.25	3.13	3.25	75	Late
XP 185 A (Robson)	89	3.63	3.90	3.50	72	Mid-season
XP 27786 (La Se Co)	79	3.38	3.20	2.00	68	Early
Keystone Ev. Gr. Hybrid	98	2.75	2.85	1.75	75	Late
Aztec	70	3.75	2.18	1.88	65	Early
Hybrid Seneca Scout	84	3.13	2.68	3.50	72	Mid-season
Silver Queen	94	3.00	3.05	2.75	75	Late
XP 70-2428 (Rogers)	83	2.50	3.33	2.50	70	Mid-season
XP 194 (Robson)	88	3.00	3.10	3.25	75	Late
XP 1331 (Asgrow)	86	3.13	3.38	3.13	65	Early
Comet	86	2.88	3.30	2.00	75	Late
NCX 243	96	3.75	2.95	1.50	72	Mid-season
Tendersweet	86	2.88	3.28	3.75	72	Mid-season
XP 71-2291 (Rogers)	83	3.13	3.13	2.25	72	Mid-season
XP 72-1651 (Rogers)	72	3.25	3.18	3.25	65	Early
Commander	91	2.50	3.05	3.00	72	Mid-season
Comanche	77	3.75	2.85	2.00	65	Early
Wintergreen	74	3.13	3.60	2.75	68	Early
XP 64-2160 (Rogers)	76	3.25	3.25	2.63	70	Mid-season
Buttersweet	95	3.00	3.40	2.75	72	Mid-season
Hybrid Seneca Chief	77	2.63	2.70	3.25	72	Mid-season
XP 1791 (NK)	89	3.50	3.40	3.13	72	Mid-season
XP 27787 (La Se Co)	86	3.25	2.93	2.75	68	Early
Sweet Tennessee	93	4.40	4.40	2.50	72	Mid-season
Seneca Feather	77	2.25	3.25	3.00	68	Early
Silverliner	82	3.25	2.05	2.13	72	Mid-season
Salute	82	3.00	3.50	2.00	72	Mid-season
NCX 2008 (Niagara)	97	3.25	2.38	3.00	70	Mid-season
Bicolor Silver Queen	91	3.00	2.58	2.88	72	Mid-season
XP 362 (Asgrow)	79	3.75	2.85	2.25	72	Mid-season
XP 72-1707 (Rogers)	62	4.00	2.85	3.63	62	Early
Florida Sweet	76	3.63	3.33	4.00	72	Mid-season

¹ Soil test p = 280 (very high); k = 130 (high); pH = 6.4.

² Rating index: 5 = very easy; 4 = easy; 3 = average difficulty; 2 = difficult; 1 = very difficult.

³ Rating index: 5 = long; 3 = medium length; 1 = short.

not sufficient for an adequate number of plants for planting in all locations.

Plants were set at Auburn June 4 and harvested October 22, at Clanton May 26 and harvested October 21, and at Cullman May 12 and harvested October 23. Plants were spaced 12 inches apart in 44-inch rows at all locations.

At Auburn yields were well below last year. Jewel produced the highest yield of marketable roots, Ta-

ble 10. Jasper produced the second highest yield and is the only variety in the trial with soil rot resistance. This disease is a problem in some soils, especially in wet years. Skin color varied from copper to red to white.

At Clanton, Redmar produced the highest yield of marketable roots. Jasper was a close second and Jewel was third. Red Jewel and Centennial also produced good yields. Jewel produced the highest yield and percent of No. 1 potatoes. Yields of Jumbo size roots were low for most varieties. Redmar, Goldmar, and VP 9-51 produced the highest yields of canners.

At Cullman, yields were very good for all varieties. L1-207 was the highest yielding and Keyline White was the lowest. Jasper also produced well. Red Jewel, Ti-1885, Jewel, Redmar, and Goldmar produced above 600 bushels of marketable potatoes. Nine of the 15 entries produced above 50 percent U.S. No. 1 roots.

Fresh Market Tomatoes (Fairhope and Cullman). Seed were planted March 1 and 14 in the greenhouse at Auburn for Fairhope and Cullman respectively and plants were field transplanted at Fairhope April 15 and May 5 at Cullman. Plants were spaced 15 inches apart in 5-foot rows. Plants were pruned and staked to a 2-leader system at Fairhope and the binder twine trellis method was used for staking at Cullman.

At Fairhope, seventeen harvests were made beginning May 29 and ending July 29, Table 11, with fruits harvested at pink and red ripe maturity. Monte Carlo VFN was the highest yielding variety. AU-75-8, Floradel, Terrific VFN, and AU-75-84 also yielded well. Monte Carlo VFN had the highest yield of 5 × 6 size fruits. Terrific VFN produced the highest yield of culls. Early Girl produced the highest yield of the observational varieties. This variety is reported not to be resistant to Fusarium wilt. Caution should be exercised in planting this variety where Fusarium wilt is known to be present. Saturn has performed somewhat better than Venus in the Baldwin County area.

At Cullman, eighteen harvests were made beginning June 27 and ending August 28, Table 12, with fruits harvested at pink and red ripe maturity. AU-75-12 (a breeding line from Dr. Walter Greenleaf) produced 680 cwt. with Terrific VFN and Better Boy producing 628 and 612 cwt. respectively. Better Boy produced the highest yield of 5 × 6 fruits in the replicated trial and Wonder Boy VF for the observational trial. Wonder Boy VF produced the highest yield of marketable fruit for all varieties. AU-75-84 and Bonus VFN also produced well in the observational trial. Florida MH-1 was among the four lowest yielding varieties.

TABLE 6. PICKLING CUCUMBER VARIETY TRIAL, AUBURN, 1975¹

Variety	Marketable yield per acre ²					Harvest season ³	Color ⁴	Fruit shape	Spine color ⁵	Vine vigor	Carpel separation ⁶	
	No. 1	No. 2	No. 3	No. 4	Total						No. 3's	No. 4's
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.						Pct.	Pct.
Replicated												
Calypso (NC) (G-18).....	23.46	116.01	164.17	33.65	337.29	E	DG	Good	Wh	Excellent	2	0
Score (Asgrow).....	18.20	98.14	162.37	47.39	326.10	L	G	Good	Wh	Excellent	1	23
Triple Cross (TAMU).....	18.93	99.15	162.08	42.77	322.93	M	DG	Good	Wh	Excellent	2	0
Explorer (Asgrow).....	19.47	95.10	142.54	61.45	318.56	M	G	Good	Wh	Excellent	0	0
Carolina (Asgrow).....	17.61	82.46	139.96	26.17	266.20	M	G	Good	Wh	Good	0	7
Sumter (Asgrow).....	16.07	64.26	114.93	22.84	218.10	M-L	DG	Good	Wh	Good	5	0
Observational												
FX 3808 (Ferry Morse).....	21.50	115.26	173.74	57.63	368.13	E	G	Good	Wh	Good	4	25
11C2 (JH).....	22.74	109.38	173.54	49.66	355.32	E	G	Fair	Wh	Good	2	6
Perfecto Verde (NK).....	20.91	99.71	182.49	26.92	330.03	M-L	G	Fair	Wh	Good	1	10
Sampson (NC) (M-28).....	22.41	112.45	154.20	39.60	328.66	M	DG	Good	Wh	Excellent	7	0
Expt. 816 (NK).....	24.89	103.43	166.87	30.45	325.64	M	G	Fair	Wh	Excellent	0	0
Green Spear (NK).....	26.79	105.07	138.72	46.00	316.58	M-L	G	Good	Wh	Good	3	13
Addis (NC) (M-11).....	26.59	97.55	128.39	17.58	270.11	M	DG	Good	Wh	Good	0	20
NCX 5004 (Niagara).....	16.27	83.18	106.44	57.11	263.00	M	G	Good	Wh	Good	0	4
73-15 (AR).....	18.62	86.51	129.44	22.61	257.18	M	DG	Fair	Wh	Good	3	11
PSX 474 (Peto).....	15.62	79.32	116.37	35.54	246.85	E	G	Poor	Wh	Excellent	3	0
73-58 (AR).....	24.31	77.10	105.46	32.41	239.10	M-L	DG	Good	Wh	Good	7	41
NCX 5002 (Niagara).....	10.78	68.08	112.25	39.99	231.10	E	G	Fair	Wh	Excellent	2	6

¹ Soil test p = 520 (EH); k = 70 (low); pH = 5.4. 1 ton limestone applied per acre.

² No. 1 size ranged up to 1 1/8 inch in diameter; No. 2 size ranged from 1 1/8 to 1 1/2 inches in diameter; No. 3 size ranged from 1 1/2 to 2 inches in diameter; No. 4 size ranged from 2 to 2 1/4 inches in diameter.

³ E = early; M = mid-season; L = late.

⁴ G = green; LG = light green; DG = dark green.

⁵ Wh = white.

⁶ Carpel separation was based on the percent of fruits cut that had open or air spaces in the middle.

TABLE 7. SLICING CUCUMBER VARIETY TRIAL, CULLMAN, 1975¹

Variety	Marketable yield/acre ²	Fruit size		Length	Color ³	Shape	Vine vigor ⁴	Uniformity ⁵	Eye appeal ⁶	Season
		Bu.	Lb.							
Victory.....	731	.35	7.10	3	3.5	4	3.5	3.33	Mid-season	
PSX 233-176-71.....	683	.33	7.63	3	4	4	4	3.67	Early	
Slice Master.....	657	.33	8.05	3.5	3	4	3	3.17	Mid-season	
Sprint.....	643	.33	7.05	3	3	4	3	3.00	Early	
GS-1.....	626	.34	7.43	3	3	4	3	3.00	Early	
Poinsett.....	536	.35	7.30	3	3	4	3	3.00	Late	
FX 3910.....	499	.39	8.60	2	4	4	3	3.00	Mid-season	
Slicerite.....	486	.36	7.28	2	3	4	3	2.67	Mid-season	
Tex-TP.....	350	.34	7.08	3	4	4	4.5	3.83	Mid-season	
Sweet Slice.....	319	.44	8.00	1.5	5	4	5	3.83	Very early	
Victory Trellised ⁴	866	.33	---	---	---	---	---	---	---	
Sweet Slice Trellised ⁴	676	.42	---	---	---	---	---	---	---	

¹ Soil test results: p = 470 (EH); k = 140 (H); pH = 6.0.

² Bushel = 50 pounds.

³ Rating index: 5 = excellent, 4 = good; 3 = fair; 2 = poor; 1 = very poor.

⁴ Trellis material was a commercial nylon net hung between a bottom and top wire approximately 5 to 6 feet apart. Vines were trained on to the trellis and required several corrective treatments to get established.

TABLE 8. EGGPLANT VARIETY TRIAL, CULLMAN, 1975¹

Variety	Yield/acre	Mar-ket-able fruit per plant	Fruit size	Fruit color ²	Eye ap-pear ³	Shape ⁴	Spines ⁵			
								Cwt.	No.	Lb.
								Blackoval Hybrid.....	566	12
Midnite Hybrid.....	433	9	1.07	P	3.0	O	3.0			
Jersey King Hybrid.....	417	12	.78	DP	5.0	E	1.0			
Florida Highbush.....	345	8	1.00	LP	4.0	O	3.0			
Peerless Hybrid.....	344	10	.80	DP	4.0	E	1.0			
Black Magic Hybrid.....	344	7	1.08	P	2.0	R	2.5			

Early Beauty

Hybrid.....	338	13	.59	P	5.0	E	5.0
Pompano Pride.....	337	7	1.06	P	3.0	O	1.0
Mission Bell.....	328	7	1.14	LP	2.5	R	2.5
Florida Market.....	315	7	1.05	LP	3.5	O	2.0
Hybrid No. 29.....	272	5	1.23	P	2.0	R	4.0
Black Beauty.....	268	6	1.10	LP	2.0	R	4.0
Blacknite Hybrid.....	258	8	.70	B	5.0	E	1.0
Long Purple.....	152	6	.60	LP	3.0	E	5.0

¹ Soil test p = 320 (VH); k = 150 (H); pH = 6.1.

² P = purple; B = very dark purple that could be considered black; DP = dark purple; PB = purple to black; LP = light purple.

³ Rating index: 5 = excellent; 4 = good; 3 = fair; 2 = poor; 1 = very poor.

⁴ R = round; E = elongated; O = oval.

⁵ 1 = many; 5 = few to none.

TABLE 9. POTATO VARIETY TRIALS, CROSSVILLE AND FAIRHOPE, 1975¹

Variety	Marketable yield/acre			Specific gravity	Eye depth ^a	Eye size ⁴	Skin color ⁵	Shape	Eye appeal ⁶
	Total	Size A ²	Size B						
	Cwt.	Cwt.	Cwt.						
Crossville									
Red La Soda—North Dakota	284	264	20	1.074	D	L	Red	Round	3.5
B6987-56	266	247	19	1.094	S	S	Wh-SR	Round	4.0
Red La Soda—Wisconsin	263	243	20	1.076	D	L	Red	Round	3.5
B6987-29	256	239	17	1.091	S	S	Wh	R-flat	3.0
B7603-1	252	233	19	1.080	M	M	Pink	Oval	3.0
Wisconsin 729R	252	217	35	1.080	D	L	Red	Round	3.0
B7139-4	238	225	13	1.094	S	S	Wh	R-flat	2.5
B7152-14	235	214	21	1.077	S	S	Wh	Round	4.0
Frito Lay 795	229	207	22	1.093	M	M	Wh	R-flat	3.0
Kennebec	227	199	28	1.083	S	S	Wh	R-long	2.5
La Rouge Wisconsin	220	200	20	1.082	D	L	Red	Round	3.5
Wischip (Wis. 623)	208	179	29	1.086	S	S	Wh	Round	4.0
La Chipper—Wisconsin	193	163	30	1.084	M	M	Wh	R-flat	3.5
La Chipper—North Dakota	191	166	25	1.084	M	L	Wh	R-flat	4.0
B7679-9	181	151	30	1.090	S	S	Russet	Long	5.0
Frito Lay 162	179	153	26	1.090	S	S	Wh-SR	Round	4.0
Superior Wisconsin	178	159	19	1.086	M	M	Wh-SR	Round	4.5
B6567-12	177	163	14	1.080	M	M	Wh	Round	3.5
B7768-4	170	150	20	1.090	S	S	Wh-SR	Round	3.5
Norchip North Dakota	166	146	20	1.089	S	S	Wh	Round	3.0
Frito Lay 282	161	145	16	1.093	M	M	Wh	R-flat	3.5
B7603-6	159	145	14	1.082	M	M	P-SR	Oval	3.0
B7650-9	156	133	23	1.088	M	M	P-SR	Round	3.0
B6987-43	148	136	12	1.088	M	M	Wh-SR	Round	3.5
Norchip Wisconsin	138	122	16	1.089	S	M	Wh	Round	3.0
B7595-3	127	107	20	1.081	M	M	Pink	R-flat	2.5
B7190-2	123	114	9	1.088	M	M	Wh	Round	3.0
B7669-2	113	91	22	1.073	S	S	Wh	Long	5.0
B7958-1	98	90	8	1.071	M	M	Pink	Round	3.0
Fairhope									
B7139-4	353	333	20	1.086					
Red La Soda—Wisconsin	324	310	14	1.062					
B6567-12	318	300	18	1.073					
Red La Soda—North Dakota	312	300	12	1.060					
B6987-56	295	272	23	1.088					
Frito Lay 795	288	267	21	1.086					
Wischip (Wis. 623)	271	232	39	1.074					
Frito Lay 162	261	240	21	1.077					
Norchip—North Dakota	260	233	27	1.077					
La Rouge—Wisconsin	255	237	18	1.062					
Wisconsin 729R	255	232	23	1.073					
B7152-14	249	225	24	1.059					
B7595-3	233	203	30	1.071					
Norchip—Wisconsin	220	198	22	1.078					
La Chipper—North Dakota	211	188	23	1.069					
La Chipper—Wisconsin	210	182	28	1.068					
Frito Lay 282	206	191	13	1.086					
B7190-2	190	172	18	1.077					
Superior—Wisconsin	174	149	25	1.074					

¹ Crossville: Soil test p = 300 (VH); k = 90 (M); pH = 5.3. Fairhope: Soil test p = 340 (VH); k = 220 (VH); pH = 5.2.

² Size A = potatoes with 1 1/8 inches diameter and larger. Size B = potatoes with 1 1/2 to 1 7/8 inches diameter.

³ S = shallow; M = medium; D = deep.

⁴ S = small; M = medium; L = large.

⁵ Wh = white; SR = some russet.

⁶ 5 = excellent; 4 = good; 3 = poor; 2 = fair; 1 = very poor.

TABLE 10. SWEET POTATO VARIETY TRIALS, AUBURN, CLANTON AND CULLMAN, 1975¹

Variety	Marketable yield per acre				U.S. No. 1	Skin color
	U.S. No. 1 ²	Canners ³	Jumbo ⁴	Total		
	Bu. ⁵	Bu.	Bu.	Bu.	Pct.	
Auburn						
Jewel.....	274	162	102	538	51	Copper
Jasper (L9-190).....	218	120	77	415	53	Rose to copper
LO-69.....	179	138	58	375	48	Copper
Keyline White ⁶	164	175	23	362	45	White
C11-4919.....	251	101	0	352	71	Yellow
Red Jewel.....	161	132	56	329	49	Red
NC-320.....	155	150	24	329	47	Rose
Centennial.....	147	63	91	301	49	Copper
Ti-1885.....	132	136	16	284	46	Rose
Ti-1890.....	99	109	54	262	38	Yellow
NC-311.....	125	36	80	241	52	Yellow to copper
L1-207.....	93	103	27	223	42	Rose to copper
VP 9-51.....	89	119	15	223	40	Copper
Goldmar.....	79	103	23	205	39	Copper
Redmar.....	118	76	3	197	60	Red
VP-63.....	133	52	44	185	72	Copper to rose
Clanton						
Redmar.....	176	368	4	548	32	
Jasper.....	258	250	26	534	48	
Jewel.....	313	140	80	533	59	
Red Jewel.....	239	207	50	499	48	
Centennial.....	130	349	19	498	26	
Goldmar.....	176	368	4	548	32	
NC-311.....	220	179	68	465	47	
L1-207.....	166	246	33	445	37	
VP 9-51.....	73	360	5	418	17	
Ti-1890.....	111	251	13	375	30	
Keyline White.....	117	241	0	358	33	
Ti-1885.....	145	201	0	346	42	
LO-69.....	140	198	0	338	41	
C11-4919.....	112	185	0	297	38	
NC-320.....	89	204	0	293	30	
Cullman						
L1-207.....	447	190	204	841	53	
Jasper.....	382	287	39	708	54	
Red Jewel.....	381	166	119	666	57	
Ti-1885.....	295	316	44	655	45	
Jewel.....	369	164	117	650	57	
Redmar.....	295	343	11	649	45	
Goldmar.....	376	257	0	633	59	
NC-311.....	308	119	172	599	51	
Ti-1890.....	287	220	85	592	48	
Centennial.....	335	176	75	586	57	
NC-320.....	234	295	30	559	42	
LO-69.....	201	285	16	502	40	
VP 9-51.....	215	277	5	497	43	
C11-4919.....	300	187	0	487	62	
Keyline White.....	245	171	36	452	54	

¹ Auburn: Soil test p = 340 (VH); k = 80 (medium); pH = 6.0.

Clanton: Soil test p = 120 (H); k = 120 (H); pH = 5.9.

Cullman: Soil test p = 300 (VH); k = 140 (H); pH = 6.0.

² U.S. No. 1 roots were 2 to 3½ inches in diameter, 3 to 9 inches in length, well shaped and free of defects.

³ Canners were 1 to 2 inches in diameter and 2 to 7 inches in length.

⁴ Jumbo roots exceeded the diameter, length and weight requirements for the No. 1 grade but are of marketable quality.

⁵ Bushel = 55 pounds.

⁶ This selection was furnished by Dr. Booker T. Whatley of Tuskegee Institute and carries the name of the farm from which it was obtained.

TABLE 11. STAKED FRESH MARKET TOMATO TRIAL, FAIRHOPE, 1975¹

Variety	Source	Marketable yield/acre ²				Culls				Harvest season ⁶
		5 × 6 ³	6 × 6	6 × 7	Total ⁴	Total	Cracks	Catface	Others ⁵	
		<i>Cwt.</i>	<i>Cwt.</i>	<i>Cwt.</i>	<i>Cwt.</i>	<i>Cwt.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	
Replicated										
Monte Carlo VFN	Petoseed	269.76	127.87	71.14	468.77	107.47	30	31	39	E
AU-75-8 (F ₂)	Greenleaf	133.05	162.74	143.33	439.12	58.89	9	4	87	E
Floradel	Asgrow	219.39	117.65	87.82	424.86	65.24	34	21	55	M
Terrific VFN	Petoseed	197.05	145.72	76.25	419.02	143.43	24	40	36	E
AU-75-84 (F ₂ BC ₂)	Greenleaf	178.86	135.39	89.25	403.50	68.86	9	23	68	M
Tropic	Asgrow	231.34	120.89	47.15	399.38	67.54	50	16	34	L
Better Boy VFN	Petoseed	217.63	111.08	48.23	376.94	99.55	24	46	30	E
Bonnie Nematode Resistant	Bonnie Farms	141.27	126.90	88.27	356.44	67.88	20	12	68	E
Creole	LSU	148.70	102.12	97.87	348.69	78.34	21	14	65	M
AU-75-12 (F ₂)	Greenleaf	122.42	131.64	88.30	342.36	69.00	8	23	69	L
Walter	Asgrow	100.26	109.88	77.90	288.04	63.77	31	9	60	E
Homestead Elite	Ferry Morse	127.30	84.79	67.08	279.17	43.90	13	3	84	E
Homestead 500	Petoseed	109.74	82.76	69.33	261.83	47.46	8	2	90	M
Florida MH-1	Florida AES	110.08	80.43	65.10	255.61	40.42	16	9	75	M
Traveler	Petoseed	76.40	71.11	87.99	235.50	34.01	5	2	93	L
Homestead 24	Niagara	85.42	70.45	70.17	225.04	35.13	15	2	83	E
Homestead 61	Petoseed	79.49	75.95	62.13	217.57	66.56	10	2	88	M
Sunburst	Clemson	44.31	56.24	107.49	208.04	58.13	2	2	96	L
Observational										
Early Girl	Burpee	61.26	156.76	207.68	425.70	125.94	13	4	83	E
Bonus (VFN)	Petoseed	155.16	119.55	67.47	342.18	158.14	11	50	39	M
Wonder Boy (VF)	Petoseed	146.29	82.57	50.76	279.62	168.73	19	58	31	M
XP 2011	Asgrow	134.23	64.14	39.64	238.01	60.49	21	21	58	L
Saturn	Twilley	41.02	71.26	76.33	188.61	112.72	14	0	86	L
Venus	Twilley	41.75	42.46	69.23	153.44	45.79	13	5	82	L

¹ Soil test p = 110 (high); k = 90 (medium); pH = 5.7. 1 ton limestone applied per acre.

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

5 × 6 arrangement: minimum diameter 2-11/16 inches; maximum diameter 3-3/16 inches.

6 × 6 arrangement: minimum diameter 2-8/16 inches; maximum diameter 2-14/16 inches.

6 × 7 arrangement: minimum diameter 2-4/16 inches; maximum diameter 2-10/16 inches.

³ Some fruits in this size arrangement were larger than standard sizes.

⁴ While 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.

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

⁶ E = early; M = mid-season; L = late.

TABLE 12. STAKED FRESH MARKET TOMATO TRIAL, CULLMAN, 1975¹

Variety	Source	Marketable yield per acre ²				Culls			Harvest season ⁶	
		5 × 6 ³	6 × 6	6 × 7	Total ⁴	Total	Cracks	Catface		Others ⁵
		Cwt.	Cwt.	Cwt.	Cwt.	Cwt.	Pct.	Pct.	Pct.	
Replicated										
AU-75-12 (F ₂)	Greenleaf	189.45	382.06	108.88	680.39	89	0	15	85	L
Terrific VFN	Petoseed	209.66	315.95	103.10	628.71	152	1	29	70	L
Better Boy VFN	Petoseed	219.39	324.61	68.53	612.53	141	3	48	49	L
Homestead Elite	Ferry Morse	174.03	325.55	86.32	585.90	187	1	30	69	M
Floradel PS	Petoseed	160.75	290.04	117.33	568.12	226	1	24	75	M-L
Monte Carlo VFN	Petoseed	134.06	306.28	120.26	560.60	204	2	36	62	M-L
Homestead 500	Petoseed	89.49	339.51	120.19	549.19	160	0	16	84	E
Tropic	Asgrow	185.06	286.90	76.96	548.92	187	2	42	56	M-L
Homestead 24	Niagara	85.36	327.68	115.35	528.39	155	1	20	79	M
Bonnie Nematode Resistant	Bonnie Farms	110.02	305.91	103.83	519.76	176	1	22	77	M
Homestead 61	Petoseed	85.43	291.52	134.15	511.10	190	1	16	83	M
Traveler	Petoseed	17.09	303.21	171.99	492.29	131	0	9	91	M
Supermarket	Asgrow	61.45	283.11	130.18	474.74	141	3	13	84	M
XP 2011	Asgrow	103.53	264.97	89.26	457.76	228	2	22	76	M
Saturn	Twilley	4.84	194.64	148.42	347.90	232	1	12	87	L
Venus	Twilley	6.01	173.44	153.03	332.48	255	0	10	90	M
Walter Early Strain	Petoseed	59.54	188.51	83.27	331.32	212	1	18	81	E
Observational										
Wonder Boy VF	Petoseed	332.76	333.46	47.25	713.47	189	5	50	45	L
AU-75-84 (F ₁ BC ₂)	Greenleaf	80.92	421.52	128.07	630.51	99	0	15	85	L
Bonus VFN	Petoseed	227.10	307.67	70.08	604.85	131	0	27	73	E
VFN Bush	Petoseed	170.13	284.05	91.09	545.27	119	0	9	91	L
AU-75-8 (F ₂)	Greenleaf	35.06	274.15	202.26	511.47	214	0	16	84	M-L
Avalanche	Petoseed	149.04	287.50	66.46	503.00	157	1	33	66	M
Early Girl	Burpee	3.52	216.37	258.36	478.25	266	2	5	93	E
Florida MH-1	Florida AES	45.48	249.62	102.24	397.34	189	0	21	79	E

¹ Soil test p = 300 (very high); k = 90 (medium); pH = 5.4. 1 ton limestone applied per acre.

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

5 × 6 arrangement: minimum diameter 2-11/16 inches; maximum diameter 3-3/16 inches.

6 × 6 arrangement: minimum diameter 2-8/16 inches; maximum diameter 2-14/16 inches.

6 × 7 arrangement: minimum diameter 2-4/16 inches; maximum diameter 2-10/16 inches.

³ Some fruits in this size arrangement were larger than standard sizes.

⁴ While 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.

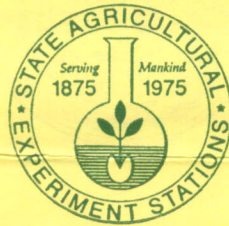
⁵ Others were mostly tomatoes too small to be marketed in the above sizes. Some were from rots, insect damage, mechanical damage and misshapen fruits.

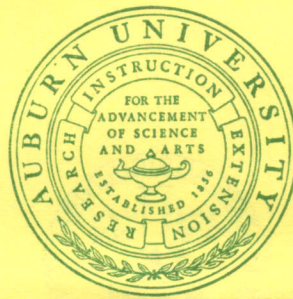
⁶ E = early; M = mid-season; L = late.

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