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VEGETABLE VARIETY TRIALS

1955 and 1956

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Department of Horticulture

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Vegetable variety trials are planted each year at several locations in Oklahoma. The purpose of these tests is to determine which of the newer varieties show promise of usefulness under Oklahoma conditions.

This publication reports results of the trials for the years 1955 and 1956. A summary of earlier trials is contained in Oklahoma Experiment Station Bulletin B-463. This bulletin also gives a more complete description of the Station's vegetable variety testing program, and describes many of the varieties currently recommended as a result of their performance in the tests.

A list of recommended varieties is given in Oklahoma Extension Circular E-443, which is revised as necessary, usually annually.

Tests are located near Stillwater (the Perkins Farm) and at the following special stations: Oklahoma Vegetable Research Station, Bixby; Kiamichi Field Station, Idabel; Oklahoma Irrigation Experiment Station, Altus and Blair (Postoffice: Lone Wolf); and the Eastern Oklahoma Field Station, Stilwell (Postoffice: Westville).

The testing program with several crops is conducted in cooperation with twelve other southern states and the U. S. D. A. Regional Vegetable Breeding Laboratory, Charleston, S. Car.

Many numbered lines from breeders throughout the United States are included in the tests of several of the crops, but the data for these are omitted from this publication because seed are not available to the public.

When a breeding line has been proven superior to existing varieties, it is named and released for general distribution. Many new varieties that are released

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have been tested at one or more locations in Oklahoma for three to five years previous to release, and Stations recommendations as to their value for this region are based on the results of the testing program.

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CUCUMBERS

Perkins

TABLE I --- Yield and Characteristics of Cucumber Varieties in Replicated Trials*; Perkins, 1955 and 1956.

Variety	Yield		Av. Wt.	Ave. Length	Season	Color	Shape	Vine Vigor	Uniformity
	Fancy	Total							
	bu. / A	bu. / A	lb.	in.					
<u>1955</u>									
Ashley	142	208	.47	6.5	Med.	Excel.	Very Good	Good	Good
Marketer	156	242	.49	7.0	Med. Early	Very Good	Very Good	Excel.	Very Good
Palomar	177	250	.51	7.7	Early	Good	Good	Very Good	Fair
Stono	137	198	.47	7.0	Med. Late	Good	Excel.	Good	Very Good
<u>1956</u>									
Ashley	118	269	.44	7.1	Med. Early	Excel.	Good	Very Good	Very Good
Marketer	115	225	.43	7.0	Med.	Very Good	Good	Excel.	Good
Palomar	101	236	.45	7.9	Med. Early	Good	Good	Very Good	Good
SC50 C-7	134	273	.42	7.5	Med. Early	Excel.	Excel.	Good	Very Good
SC50 E-4	132	290	.43	7.2	Early	Fair	Good	Good	Good
Stono	129	297	.45	7.5	Med. Early	Very Good	Very Good	Excel.	Very Good

* Four replications per variety. Plots consisted of 20 hills of 3 plants each, spaced 3 feet apart in rows 6 feet apart. 600 pounds per acre of 5-10-5 fertilizer was applied in bands prior to planting. Harvest periods were June 24 to July 15 in 1955 and June 20 to July 20 in 1956.

In addition to the varieties reported, six numbered lines were grown in single plots for observation in 1955, and four in 1956.

CUCUMBERS

Bixby

TABLE III --- Yield and Characteristics of Cucumber Varieties in Replicated Trials*; Bixby, 1956.**

Variety	Yield		Av. Wt.	Ave. Length	Season	Color	Shape	Vine Vigor	Uniformity	
	Fancy	Total								
	bu. /A	bu. /A	lb.	in.						
	<u>1956</u>									
Ashley	243	514	.51	7.3	Med.	Very Good	Good	Fair	Good	
Marketer	268	603	.55	8.0	Med. Early	Good	Good	Excel.	Fair	
Palomar	300	571	.53	8.3	Early	Excel.	Good	Good	Fair	
Stono	271	611	.52	7.5	Early	Fair	Good	Good	Good	

* Four replications per variety. Plots consisted of 20 hills of 3 plants each, spaced 3 feet apart in rows 6 feet apart. 600 pounds per acre of 5-10-5 fertilizer was applied in bands prior to planting. Harvest period was June 22 to August 8 in 1956.

**Plants were severely stunted by adverse weather conditions shortly after being set in the field. Slow and incomplete recovery resulted in low and erratic yields.

In addition to the varieties reported, six numbered lines were grown in single plots for observation in 1955, and four in 1956.

CUCUMBERS

Stilwell

TABLE III --- Yield and Characteristics of Cucumbers in Observational Trials;*
Stilwell, 1955 and 1956.

Variety	1955 Yields	Yield		1956		
		Number	Weight	Average Weight	Color	Shape
		no. /A.	lb. /A.	lb.		
Ashley	19080	22950	7200	.31	Fair	Good
Marketer	38430	17730	5400	.30	Good	Good
Palmetto	36720				Good	Good
Santee	25020				Good	Good
Stono	22860	22950	7830	.34	Very good	Fair

* Plots single row 60 feet long. Rows 8 feet apart, with hills 3 feet apart in row.
Harvest period June 28 to July 28.

MUSKMELONS

Stilwell

TABLE IV --- Yields, and Fruit Size and Quality, of Muskmelon Varieties; Stilwell, 1956*.

Variety	Acre Yield		Average Weight	Quality Rating	Appearance
	Number	Pounds			
	no. /A.	lb. /A.			
Golden Delight	3307	14722	4.45	Excel.	Good
Mildew Resistant ⁴⁵	6704	16353	2.44	Good	Excel.
Purdue 44	4303	10691	2.48	Good	Excel.
Rocky Ford	2673	5345	2.00	Good	Good

* Single-row plots 120 feet long, with rows 8 feet apart. Hills 6 feet apart in rows. Seed planted in 2 1/2-inch rose pots April 24 and set in field May 4. Plants reset May 14 following hill damage by water erosion. Harvest period July 24 to September 10.

PICKLING CUCUMBERS

Idabel and Stilwell

TABLE V --- Yield and Characteristics of Pickling Cucumber Varieties in Replicated Trials;* Idabel 1955, and Stilwell 1955 and 1956.

	Yield (by lengths)				Length/Diam.		Season	Color	Shape	Vine Vigor
	Up to 1 1/8"	1 1/8" to 1 1/2"	1 1/2" to 2"	Total	Ratio					
	lb. /A.	lb. /A.	lb. /A.	lb. /A.	Early	Late				
<u>Idabel - 1955</u>										
Magnolia	68	94	70	232	3.27	3.03	Late	Dk Gr.	Excel.	Fair
Model	90	122	105	317	2.95	2.53	Early	Green	Good	Excel.
National	67	90	90	247	2.73	2.74	Late	Lt.Gr.	Excel.	Good
Ohio MR 17	109	121	126	365	3.21	2.80	Early	Green	Fair	Excel.
Short MR17	83	102	102	287	3.05	2.97	Med.	Green	Excel.	Excel.
SMR 12	88	116	85	289	2.97	2.55	Med.	Too Lt	Fair	Good
SMR 9	76	116	100	292	3.05	2.82	Med.	Too Lt	Poor	Good
Wis. SR6	61	86	136	283	2.85	2.41	Med.	Lt.Gr.	Fair	Good
4032	110	114	65	289	3.46	3.14	Late	Dk.Gr.	Poor	Fair
<u>Stilwell - 1955</u>										
Magnolia	16	7	5	28	3.26	2.50	Late	Lt.Gr.	Fair	Good
Model	43	65	65	173	2.65	2.53	Early	Lt.Gr.	Good	Good
National	42	39	35	116	2.83	2.64	Med.	Lt.Gr.	Excel.	Good
Ohio MR 17	51	33	50	134	2.85	2.92	Med.	Green	Good	Excel.
ShortMR 17	45	51	30	126	2.92	3.07	Med.	Green	Good	Excel.
SMR 12	53	47	130	230	2.74	2.74	Med.	Dk.Gr.	Good	Good
SMR 9	44	39	33	116	3.19	3.00	Early	Green	Fair	Good
Wis. SR6	41	32	21	94	2.75	2.53	Med.	Green	Good	Excel.
4032	42	36	33	111	3.07	3.08	Late	Green	Fair	Poor
<u>Stilwell - 1956</u>										
Mich. St.#1	14	59	46	119	2.9	2.8	Med.	Lt.Gr.	Good	Good
Model	16	58	45	119	2.8	2.4	Early	Green	Excel.	Fair
M.R. Nat.**	21	64	48	133	2.8	2.7	Late	Green	Excel.	Excel.
Ohio MR 17	21	85	65	171	3.0	3.0	Med.	Green	Good	Good
Ohio MR 25	18	87	65	170	2.9	2.7	Early	Lt.Gr.	Good	Excel.
W. Spine**	21	66	30	117	2.5	3.0	Med.	Lt.Gr.	Fair	Fair

* Four replications per variety. Plots single row 50 feet long. Rows 8 feet apart, and plants 12 inches apart in row. 300 pounds per acre of 12-24-12 fertilizer applied in bands, then ridges thrown up to form rows. Side-dressed with 100 pounds per acre of ammonium nitrate after vines were 18 to 24 inches long. Harvest periods in 1955 were May 27 to July 9 at Idabel, June 16 to July 25 at Westville. Harvest periods in 1956 was June 19 to July 27. Average harvest frequency three times per week.

**Pickling strains.

IRISH POTATOES

Idabel

TABLE VI --- Yield of Spring-crop Irish Potato Varieties in Observation Trials; Idabel, *
1955 and 1956. * (Bushels per Acre)

Variety	1955		1956			
			<u>Certified Seed</u>		<u>Seed from 1955 Fall Crop</u>	
	<u>No. 1</u>	<u>No. 2</u>	<u>No. 1</u>	<u>No. 2</u>	<u>No. 1</u>	<u>No. 2</u>
Cherokee			313	54		
Dazoc			162	20		
Irish Cobbler	431	55			149	32
Kennebec			246	46		
LaSoda	451	40	225	31	172	16
Pontiac			200	46		
Sheridan			139	38		
Red Warba	393	58			122	29
Triumph	372	34	197	46	202	21

* Rows 3 feet apart with seed pieces dropped at 9-inch intervals. 500 pounds per acre of 10-20-10 fertilizer applied in bands at planting. Side-dressed with 100 pounds per acre of ammonium nitrate when plants were 4 to 6 inches tall.

LIMA BEANS

Bixby and Perkins

TABLE VII --- Yields of Baby Bush Type* Lima Bean Varieties; Bixby 1956 and Perkins, 1955 and 1956.

Variety	Yields of Usable Pods			Pod Characteristics (Perkins, 1955)	
	Perkins		Bixby 1956	Wt. per 100 pods	Shelling Percentage
	1955	1956			
	lb. /A	lb. /A	lb. /A	grams	pct.
Allgreen	1602	1396	487	376	42
Clark's Bush	1131	349	307	408	42
Early Thorogreen	1948	822	840	408	40
Limagreen	1342	115	55	373	45
Nemagreen	1981	469	643	405	38

* Yields for Fordhook types grown in this trial during the 1955 and 1956 seasons were very low.

MUSKMELONS

Perkins

TABLE VIII --- Yields, and Fruit Size and Quality, of Muskmelon Varieties; Perkins, 1955.*

Variety	Acre Yield		Average Weight	Quality Rating	Appearance
	Number	Pounds			
	no. /A.	lb. /A	lb.		
Golden Delight	3749	14920	3.98	Excel	Good
Mildew Resistant ⁴⁵	6355	14348	2.26	Good	Excel.
Penn Sweet	4600	7408	1.61	Fair	Fair
Rio Sweet	4467	9942	2.23	Excel	Good
Superfecto	4733	10333	2.18	Good	Excel.
Ten Gold	5983	7924	1.32	Fair	Poor

Single-row plots 234 feet long, with rows 7 feet apart. Hills 6 feet apart in row. Seed planted in 2 1/2-inch rose pots in greenhouse April 15 and set in field April 28. Harvest period July 20 to August 12.

SOUTHERN PEA (Edible Cowpea)

Perkins

TABLE IX --- Yield and Characteristics of Southern Pea (Edible Cowpea) Varieties; Perkins, 1955.*

	Days to Maturity	Yield of Green Pods	Shelling Percent (Green)	General Pod Length	Ease of Shelling	Color of Green Peas	Pea Size	Appear- ance	Growth Habit	Loca- tion of Pods
	days	lb./A.	pct.	in.						
Ark. -1	62	1593	57	7-8	Vy. G.	Lt. Green	Sml.	Fair	S. V.	1
Brown Sugar Crowder	65	471	50	7-8	Good	Lt. Green	Med.	Good	S. V.	2
Bush Baby Purple Hull	54	1438	52	5-6	Poor	Lt. G. R. Eye	Sml.	Poor	S. V.	1
Combine Crowder #1575	65	146	66	5-6	Good	Gr. Tan	Med.	Good	V.	2
Dixilee	60	2165	75	7-8	Fair	Lt. Green	Sml.	Fair	S. V.	1
Extra Early Blackeye	56	730	58	7-8	Good	Green	Sml.	Good	V.	3
FE 15-2210	60	1620	36	5-6	Fair	Lt. Green	Vy. S.	Fair	B.	2
FE 16-10-210		very few pods	set	7-8	Good	Lt. Green	Med.	Good	V.	1
FE 18-20-12110		very few pods	set	7-8	Good	Lt. Green	Med.	Good	V.	1
FE 28-19100	56	2299	38	9-10	Fair	Lt. Green	Large	Fair	B.	3
L-3	64	755	54	7-8	Good	Lt. Green	Sml.	Fair	S. V.	1
Miss. S-1	65	463	55	5-6	Fair	Cream	Med.	Good	V.	1
Peacock Crowder	67	43	52	7-8	Poor	Lt. Green	Sml.	Fair	S. V.	1
Purple Hull	62	1296	58	5-6	Good	Lt. Green	Sml.	Poor	V.	1
Purple Hull T-49	63	678	49	7-8	Good	Lt. Green	Sml.	Poor	S. V.	1
Taes Cream #8	56	2954	43	7-8	Good	Lt. Green	Sml.	Fair	B.	3
Taes Purple Hull #5	54	2422	48	7-8	Good	Gr. Cream	Sml.	Poor	B.	3
White Acre	65	438	61	3-4	Good	Lt. Green	Sml.	Fair	B.	1

Single-row plots 100 feet long. Planted June 17.

* A Similar planting in 1956 failed to set sufficient pods for satisfactory yield records or evaluations.

/ B, Bunch; S. V., semi-vining; V, vining.

// 1 - scattered in foliage. 2 - Scattered at foliage level. 3 - Concentrated slightly above foliage level.

SWEET CORN (Yields)

Bixby and Perkins

TABLE X --- Yields and Average Ear Weights of Sweet Corn Varieties in Replicated* Trials; Bixby and Perkins, 1955 and 1956.

Variety	1955			<u>Bixby</u>			1956			1955			<u>Perkins</u>			1956		
	Yield		Ave.	Yield		Ave.	Yield		Ave.	Yield		Ave.	Yield		Ave.			
	Ears	Rank		Ears	Rank		Ears	Rank		Ears	Rank		Ears	Rank				
	doz./A.		lb.	doz./A.		lb.	doz./A.		lb.	doz./A.		lb.	doz./A.		lb.			
Aristogold																		
Bantam Evergreen	1301	2	.64	1225	6	.62	993	2	.71	326	10	.60						
Aristocross	96	7	.62				990	3	.72									
Asgow Golden 60				1084	8	.66				637	3	.61						
Burpee's Surcross	622	10	.66				524	10	.69									
Calumet				1072	9	.55												
Chedder Cross	1076	6	.64	1272	5	.58	926	4	.66	653	2	.60						
Expt. Golden 2057	705	9	.70				879	6	.75									
Golden Cross Bantam										583	4	.47						
Golden Hyb. 3952				1430	3	.58				663	1	.56						
Golden Security				1601	2	.51				342	9	.52						
Paymaster	1164	4	.61	1652	1	.54	824	7	.53	357	8	.52						
Prosperity	905	8	.54				793	8	.62									
Seneca Supermarket				1365	4	.47				539	5	.53						
Sweetangold	1229	3	.63				884	5	.76									
Tempo	1392	1	.59				1068	1	.56	497	6	.53						
Topyield	1107	5	.62	1222	7	.57	744	9	.64	456	7	.51						

* Four replications per variety. Plots single row 100 feet long. Rows 42 inches apart with plants 12 inches apart in row. 5-10-5 fertilizer at 600 pounds per acre rate, applied in bands at planting time.

SWEET CORN (Characteristics)

Bixby and Perkins

TABLE XI --- Characteristics Scores of Sweet Corn Varieties in Replicated* Trials; Bixby and Perkins, 1955.

Variety	Total Score		Appearance of Ears		Plant Vigor	Quality	Maturity		Ear-worm Injury	Personal Preference
	Score	Rank	Husk On	Husk Re-moved			Days to:	Uniformity		
Possible Score** (100)			(15)	(20)	(10)	(20)	(5)	(10)	(10)	(10)

BIXBY

Aristogold Bantam										
Evergreen	83	4	15	15	10	10	5	10	8	10
Aristocross	73	9	13	10	6	15	5	10	6	8
Burpee's Surcross	74	8	10	15	10	10	5	10	6	8
Chedder Cross	96	1	15	20	10	18	5	10	8	10
Expt. Golden 2057	90	2	13	20	10	20	4	5	8	10
Paymaster	87	3	15	15	10	15	4	10	8	10
Prosperity	79	5	15	10	10	15	5	10	6	8
Sweetangold	78	6	10	15	10	19	4	10	6	8
Tempo	69	10	10	15	10	10	5	5	6	8
Topyield	77	7	10	15	8	15	4	5	10	10

PERKINS

Aristogold Bantam										
Evergreen	71	4	10	14	10	14	4	6	5	8
Aristocross	71	4	8	19	8	11	3	10	6	6
Burpee's Surcross	62	10	11	16	4	14	2	6	4	5
Chedder Cross	76	3	12	16	7	14	3	9	8	7

(Cont. on next page)

*

** Scores for appearance, plant vigor, and quality are based on totals of sub-items, as follows:

appearance with husk on: Appearance, 7; color, 3; and protection, 5.

Appearance with husk removed: Fill, 5; shape, 3; length, 3; color, 3; row alignment, 3; and kernel dept., 3.

Plant vigor: Seedling vigor, 5; stalk type, 5.

Quality: Flavor, 9; pericarp, 6; texture, 5.

SWEET CORN (Characteristics)

Bixby and Perkins

TABLE XI --- Continued.

Variety	Total Score		Appearance of Ears		Plant Vigor	Quality	Maturity		Ear- worm Injury	Personal Preference
	Score	Rank	Husk On	Husk Re-			Days to:	Uniform- ity		
Possible Score** (100)			(15)	(20)	(10)	(20)	(5)	(10)	(10)	(10)
Expt. Golden 2057	77	1	13	17	7	13	3	8	8	8
Paymaster	70	7	15	11	5	15	4	8	7	5
Prosperity	77	2	15	15	5	13	4	10	6	9
Sweetangold	70	6	10	16	10	13	3	5	6	7
Tempo	67	9	11	14	10	11	4	7	5	5
Topyield	70	8	8	17	6	11	3	9	7	9

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SWEET CORN (Characteristics)

Bixby and Perkins

TABLE XII --- Characteristics Scores of Sweet Corn Varieties in Replicated* Trials; Bixby and Perkins, 1956

Variety	Total Score		Appearance of Ears		Plant Vigor	Quality	Maturity		Ear-worm Injury	Personal Preference
	Score	Rank	Husk On	Husk Re-moved			Days to:	Uniformity		
Possible Score** (100)			(15)	(20)	(10)	(20)	(5)	(10)	(10)	(10)
<u>BIXBY</u>										
Aristogold Bantam										
Evergreen	66	2	12	19	9	19			8	9
Asgrow Golden 60	62	6	12	19	9	16			8	8
Calumet	64	3	14	19	9	16			8	9
Chedder Cross	61	7	11	16	10	20			6	8
Golden Hyb. 2952	61	7	12	18	9	16			8	8
Golden Security	64	3	14	18	9	17			8	8
Paymaster	70	1	13	19	10	20			8	10
Seneca Supermarket	57	9	11	16	10	18			6	6
Topyield	64	3	13	20	9	17			8	7
<u>PERKINS</u>										
Aristogold Bantam										
Evergreen	84	1	15	18	10	14	4	6	9	8
Asgrow Golden 60	77	8	8	19	10	14	4	9	5	8
Chedder Cross	71	10	9	15	10	15	4	7	5	6
Golden Cross Bantam	83	2	13	20	8	15	5	9	5	8
Golden Hyb. 3952	80	4	11	16	10	17	5	8	6	7
Golden Security	78	7	14	14	10	16	3	7	8	6
Paymaster	82	3	14	18	10	16	4	7	6	7
Seneca Supermarket	79	5	12	17	10	13	5	9	7	6
Tempo	75	9	14	14	10	16	3	6	7	5
Topyield	79	5	14	15	10	15	4	7	7	7

*

** Scores for appearance, plant vigor, and quality are based on totals of sub-items, as follows:

appearance with husk on: Appearance, 7; color, 3; and protection, 5.

Appearance with husk removed: Fill, 5; shape, 3; length, 3; color, 3; row alignment, 3; and kernel dept, 3.

Plant vigor: Seedling vigor, 5; stalk type, 5.

Quality: Flavor, 9; pericarp, 6; texture, 5.

SWEET CORN (Preference Rank)

Bixby and Perkins

TABLE XIII --- Preference Rank* of Sweet Corn Varieties in Observation Plantings. **

1955		1956	
<u>Perkins</u>	<u>Bixby</u>	<u>Perkins</u>	<u>Bixby</u>
Seneca Supermarket	Seneca Supermarket	Mello Cross	F. M. Cross #1
Asgrow Golden 60	Tons O' Gold	Longchief	Golden Yield
Golden Challenger	Asgrow Golden 60	Longold	Longold
Golden Hybrid 2849	Mello Cross	Golden Yield	Golden Hybrid #5
Tons O' Gold	Golden Hybrid 3952	Golden Hybrid 4272	Dixie Blend
Golden Yield	Dixie Blend	Dixie Blend	Longchief
Dixie Blend	Golden Challenger	Golden Hybrid 3494	Mello Cross
Mello Cross	Early Hybrid 0144	Golden Hybrid #5	Golden Hybrid 3494
Golden Hybrid 3952	Golden Hybrid 2849	Cream Cross	Cream Cross
Early Hybrid 0144	White Silk Aristogold	F. M. Cross #1	Golden Hybrid 4272
White Silk Aristogold	Bantam Evergreen		
Bantam Evergreen	Golden Yield		

* Varieties listed in approximate rank of preference, based on scoring system for replicated varieties as described in footnote to Table

** In addition, 10 unnamed breeding lines were included for observation.

SWEET PEPPERS

Bixby and Stilwell

TABLE XIV --- Yields, and Weight of Individual Fruits, of Sweet Pepper Varieties in Replicated Trials; Bixby, 1955 and 1956, and Stilwell, 1956.

	Bixby*				Stilwell, 1956**	
	1955		1956		Yield	Ave. Wt.
	Yield	Ave. Wt.	Yield	Ave. Wt.		
	bu. /A.	lb.	bu. /A.	lb.	bu. /A.	lb.
California Wonder	1073	.138				
Calwonder	1160	.141	290	.134	892	.145
Early Bell			266	.121		
Hungarian Wax					1076	.025
Keystone Res. Giant			220	.188	1623	.177
Keystone Wonder Giant	1275	.184				
Liberty Bell			316	.164		
Pennwonder	1227	.128	321			
Wisconsin Lakes	1563	.119		.177		
Yolo Wonder	1269	.168	363	.158	784	.138

* Averages of four replicated plots, each plot a single row 100 feet long, with plants 18 inches apart in row. Rows 3 1/2 feet apart. Harvest season June 29 to October 7 in 1955, and July 2 to November 1 in 1956.

** Averages of four replicated plots, each plot a single row 30 feet long, with plants 18 inches apart in row. Rows 3 1/2 feet apart. Harvest season July 13 to October 31.

TOMATOES

Bixby and Perkins

TABLE XV --- Yield*, and Weight of Individual Fruits, of Tomato Varieties in Single-plot Screening Trials; Bixby and Perkins, 1955 and 1956.

Variety	1955						1956					
	Perkins			Bixby			Perkins			Bixby		
	Early Yield [†]	Total Yield	Ave. Wt.	Early Yield [†]	Total Yield	Ave. Wt.	Early Yield [†]	Total Yield	Ave. Wt.	Early Yield [†]	Total Yield	Ave. Wt.
lb.*	lb.*	lb.	lb.*	lb.*	lb.	lb.*	lb.*	lb.	lb.*	lb.*	lb.	
Big Early Hyb.	15.2	72	.32	45.3	196	.36						
Early Giant Hyb.	29.1	62	.26	58.1	250	.36	10.2	48	.28	17.5	75	.24
Early Prolific	27.0	71	.29	42.2	172	.29	7.0	15	.20	18.3	61	.29
Giant King Hyb.	3.3	34	.31	14.9	152	.36	3.6	19	.27	7.3	38	.25
Homestead	4.6	34	.27	8.0	92	.34	1.7	7	.16	.8	10	.30
Homestead B & L							6.5	18	.19	1.3	57	.32
Homestead 24							0.0	6	.22	0.0	40	.38
Kokomo	3.3	57	.21				3.8	18	.19	2.3	50	.24
Kopiah	16.3	41	.23	15.8	109	.25						
Manatee	12.2	49	.20	13.8	197	.30	1.3	11	.25	2.2	46	.22
Martin Western	33.3	71	.16	51.1	258	.18	24.2	44	.10	20.7	85	.13
Ohio W.R. Brookston	7.3	89	.32	8.4	183	.31	5.7	25	.17	8.8	93	.34
Peto pride							2.5	12	.26	0.0	8	.22
Wiltmaster	4.7	39	.22	4.0	133	.23						

* Yields reported as marketable yield from 15 plants.

** In addition to the varieties reported, 41 numbered lines were included in 1955 and 45 in 1956.

[†] Early yields to following dates:

Perkins: 1955, July 18; 1956, July 20.

Bixby: 1955, July 16; 1956, July 11.

TOMATOES

Bixby, Idabel, Perkins and Stilwell

TABLE XVI --- Yield, and Weight of Individual Fruits, of Tomato Varieties* in Replicated** Trials; Bixby, Idabel, Perkins and Stilwell, 1955 and 1956.

	1955			1956		
	Early Yield ***	Total Yield	Average Weight	Early Yield ***	Total Yield	Average Weight
	lb. /A.	lb. /A.	lb.	lb. /A.	lb. /A.	lb.
<u>BIXBY</u>						
Big Boy Hybrid	2536	24539	.41			
Big Early Hybrid				4559	12463	.29
Homestead-2				779	9170	.31
Manalucie	339	13020	.38			
Moreton Hybrid	7318	32848	.31	4346	14530	.29
Queens	4312	27636	.25			
Rutgers	803	21490	.29	208	7139	.25
Sioux	7991	33251	.25	4559	13867	.24
Urbana	5411	30540	.20			
<u>PERKINS</u>						
Big Boy Hybrid	853	9029	.31			
Big Early Hybrid				5169	10735	.27
Homestead-2				1041	4961	.24
Manalucie	526	7531	.37			
Moreton Hybrid	5871	14609	.29	4656	8867	.20
Queens	1257	10072	.25			
Rutgers	808	8257	.25	450	2541	.20
Sioux	4147	15562	.24	4061	8359	.19
Urbana	2654	10934	.19			
<u>IDABEL</u>						
Big Boy Hyb.	944	27203	.41	5939	22368	.47
Big Early Hyb.	3492	32859	.36	5503	17831	.42
Early Giant Hyb.				5692	28379	.41
Manalee				4037	15624	.31

(Cont. on next page)

* In addition to the varieties reported, five numbered breeding lines were included in the plantings for evaluation.

** Averages of 4 replications. Plants spaced 5'x3'. Fifteen plants per plot.

*** Early yields to following dates:

Bixby: 1955, July 16; 1956, July 11.

Idabel: 1955, June 27; 1956, June 30.

Perkins: 1955, July 18; 1956, July 20.

TABLE XVI --- Continued.

	1955			1956		
	Early Yield ***	Total Yield	Average Weight	Early Yield ***	Total Yield	Average Weight
	lb. /A.	lb. /A.	lb.	lb. /A.	lb. /A.	lb.
Manalucie				2120	10745	.41
Moreton Hyb.				5692	20727	.34
Pearson	160	22963	.36			
Queens	2033	29229	.30			
Rutgers				2744	15987	.37
Sioux	1888	33933	.30	8480	31356	.34
Stokesdale	1358	35349	.31			
<u>STILWELL</u>						
Ace		3888				
Indark					16305	
Kokomo		5505				
Manalucie		2894				
Moreton Hyb.					21387	
Pearson		10419				
Queens		4976			21720	
Rutgers		6002			18483	
Sioux		9921			26197	
Urbana		8086				

WATERMELONS

Perkins

TABLE XVII --- Yield and Quality Rating of Watermelon Varieties in Replicated Trial and Observation Planting; Perkins, 1955.*

Variety	Yield of Marketable Melons		Average Weight	Quality Ratings		
	Number	Pounds		Flesh Color	Flavor	Shipping Durability
	no. /A.	lb. /A.	lb.			
<u>Replicated Trial**</u>						
Black Diamond	786	22421	29	Good	Good	Excel.
Blackstone	895	22070	25	Excel.	Good	Fair
Charleston Gray	847	20449	24	Good	Good	Good
Chriss Cross	762	18489	24	Good	Excel.	Good
Texas BL-3	666	20292	30	Fair	Good	Good
<u>Observation Planting</u>						
Dixie Queen Hyb.	415	14207	34	Excel.	Excel.	Good
Dixie Queen W. R.	933	21155	23	Good	Excel.	Good
Sugar Baby	985	11666	12	Excel.	Good	Excel.
Tri X 317	No crop					
White Hope	570	14622	26	Excel.	Good	Excel.
51-23 W	674	25044	37	Good	Good	Excel.

* The 1956 test was a failure because of extremely dry weather. Four varieties were planted in the replicated trial and nine in the observation planting.

** Five replications of five hills each. Hills spaced 12 x 12 feet.

∕ Single plots of five hills. Hills spaced 12 x 12 feet.