

(NC.)

## PERFORMANCE OF SOYBEAN VARIETIES, OKLAHOMA - 1976

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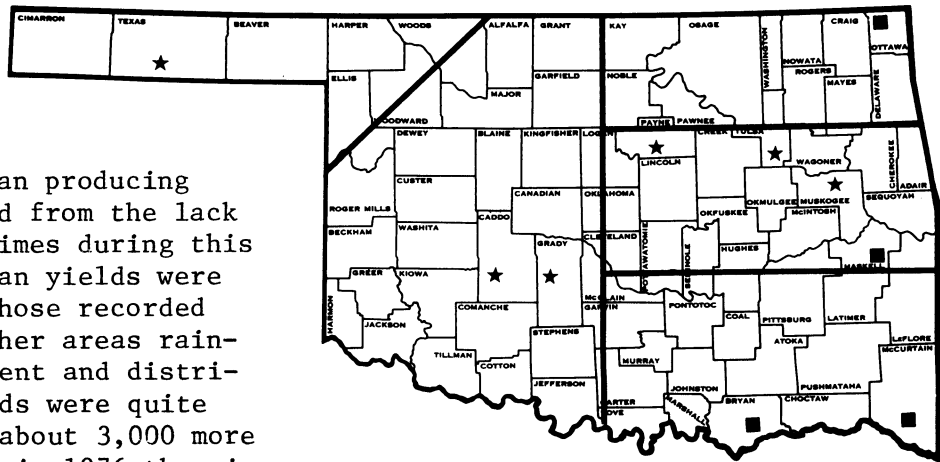
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Several of the soybean producing areas of Oklahoma suffered from the lack of moisture at critical times during this past season and the soybean yields were considerably lower than those recorded for 1975. However, in other areas rainfall amounts were sufficient and distribution such that the yields were quite respectable. There were about 3,000 more acres planted to soybeans in 1976 than in 1975 but the total production was down about 171,000 bushels.

Tables 1 through 14 show the results of soybean tests conducted throughout the state this past season.



**Table 1**  
Soybean Plant Population Study

Davis Farms  
Commerce - 1976

Variety	Yield (Bu/Acre)			
	3/FT.	4/FT.	6/FT.	12/FT.
Calland (III)	16	16	17	16
Columbus (IV)	18	22	18	20
Dare (V)	23	27	28	25
Forrest (V)	27	29	27	26
Lee 74 (VI)	24	22	20	16
Bragg (VII)	23	19	19	21

**Table 2**  
Soybean Date of Planting Study

Wooten Farms  
Idabel - 1976

Variety	Date	Yield (Bu/Acre)
Calland (III)	June 11	23
	June 30	21
Dare (V)	June 11	30
	June 30	20
Columbus (IV)	June 11	24
	June 30	19
Forrest (V)	June 11	33
	June 30	23
Lee 74 (VI)	June 11	38
	June 30	24
Bragg (VII)	June 11	35
	June 30	22

**Table 3**  
**1976 Soybean Variety Test**

Wooten Farm - Idabel<sup>1/</sup>  
Soil Type - Pledger Clay

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>
944	Calland	III	18.6	12	18.4	27.0	3.0	1.5
826	Dare	V	29.3	11	14.3	28.0	2.0	1.5
956	Forrest	V	30.4	10	14.6	29.5	1.0	1.5
958	Essex	V	32.5	6	16.3	24.0	1.0	1.5
969	Lee 74	VI	38.1	2	14.1	31.5	1.0	4.0
974	Hood 75	VI	32.1	7	19.4	26.5	1.0	2.5
---	Coker 136	VI	30.6	9	16.1	28.5	1.5	2.0
800	Davis	VI	35.8	3	17.3	32.1	1.0	2.5
937	Pickett 71	VI	40.0	1	14.0	28.0	1.0	3.5
881	Bossier	VII	31.8	8	13.4	36.5	1.0	3.5
880	Bragg	VII	33.2	5	14.9	37.0	1.0	3.0
970	Ransom	VII	33.6	4	16.6	32.5	1.0	1.5
	Mean		32.2		15.8	30.1	1.3	2.4
	LSD <sub>05</sub>		5.4		0.8	2.9		
	LSD <sub>01</sub>		7.3		1.1	4.1		
	C.V.%		9.9		3.0	4.4		

<sup>1/</sup>Planted June 11 in 34" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.

**Table 5**  
**1976 Soybean Variety Test**

Carmen Farm - Bryan County<sup>1/</sup>

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>
944	Calland	III	14.6	4	14.3	24.5	3.5	1.0
826	Dare	V	16.3	2	11.9	24.0	2.5	1.0
956	Forrest	V	14.6	4	11.9	24.5	1.5	1.0
958	Essex	V	11.7	8	11.3	23.0	3.0	1.0
969	Lee 74	VI	11.3	9	13.0	30.0	1.5	2.0
974	Hood 75	VI	16.3	2	15.5	22.0	3.0	1.0
800	Davis	VI	14.1	6	13.3	29.5	2.5	1.0
937	Pickett 71	VI	16.9	1	12.3	29.0	1.0	1.0
880	Bragg	VII	9.3	10	14.4	31.5	1.0	1.0
970	Ransom	VII	12.8	7	15.5	27.5	1.5	1.0
	Mean		13.8		13.4	26.6	2.1	1.1
	LSD <sub>05</sub>		8.2		1.9	5.0		
	LSD <sub>01</sub>		11.2		2.6	7.2		
	C.V.%		34.7		8.1	8.3		

<sup>1/</sup>Planted June 11 in 34" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.

**Table 4**  
**1976 Soybean Variety Test**

Overstreet Farms - Keota<sup>1/</sup>  
Soil Type - Vian Silt Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>	Maturity Score <sup>4/</sup>
944	Calland	III	30.4	2	19.5	31.5	1.0	1.5	1.0
874	Cutler	IV	19.5	15	16.7	23.5	1.0	1.5	1.0
962	Cutler 71	IV	18.8	17	18.8	24.0	1.5	1.5	1.0
802	Oksoy	IV	20.9	14	17.7	26.0	1.0	1.5	1.0
933	Columbus	IV	26.8	6	18.7	25.5	1.0	1.0	1.0
968	Kent	IV	23.6	10	20.4	24.5	1.0	1.0	1.0
956	Forrest	V	31.3	1	15.9	31.5	1.0	3.0	2.0
958	Essex	V	28.8	3	17.0	23.0	1.0	2.0	1.0
660	Lee	VI	23.2	11	15.7	33.0	1.0	4.0	3.0
969	Lee 74	VI	28.1	4	15.9	35.0	1.0	4.0	3.5
974	Hood 75	VI	26.5	7	18.6	26.5	1.0	2.5	2.5
800	Davis	VI	23.0	12	16.0	33.0	1.0	3.0	3.0
920	Kino	VI	25.3	8	17.1	41.5	1.0	4.0	4.0
937	Pickett 71	VI	24.5	9	15.5	33.5	1.0	5.0	3.0
878	Jackson	VII	27.0	5	16.1	34.0	1.0	2.5	4.0
880	Bragg	VII	19.2	16	16.1	39.0	1.0	4.0	4.0
970	Ransom	VII	21.4	13	18.9	33.0	1.0	2.5	4.0
	Mean		24.6		17.3	30.5	1.0	2.6	2.4
	LSD <sub>05</sub>		n.s.		1.6				
	LSD <sub>01</sub>		n.s.		2.2				
	C.V.%		21.2		5.6				

<sup>1/</sup>Replanted June 29 in 38" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.  
<sup>4/</sup>Scored from 1-4 on Nov. 2 with 1=fully mature as of 11/2; 2=ready 11/2; 3=one week from maturity; 4=at least 2 to 3 weeks from maturity.

**Table 6**  
**1976 Soybean Variety Test (After Wheat)**

Davis Farm - Commercial<sup>1/</sup>  
Soil Type - Parsons Silt Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>	Maturity Score <sup>4/</sup>
944	Calland	III	5.4	4	10.7	19.5	2.0	1.0	1.0
973	Williams	III	7.0	3	9.5	18.0	2.0	1.0	1.0
760	Clark 63	IV	3.6	17	7.9	18.0	2.0	1.0	1.0
874	Cutler	IV	8.7	2	10.9	21.0	2.0	1.0	1.0
962	Cutler 71	IV	4.3	10	9.7	19.0	2.0	1.0	1.0
802	Oksoy	IV	4.6	8	9.1	20.5	2.0	1.0	1.0
933	Columbus	IV	3.0	19	9.1	18.5	1.0	1.0	1.0
972	Pomona	IV	3.7	16	8.9	17.0	2.0	1.0	1.0
968	Kent	IV	4.0	15	9.7	18.5	3.0	1.0	1.0
823	York	V	4.2	13	12.2	26.0	1.0	1.0	2.0
826	Dare	V	3.2	18	10.7	22.5	1.0	1.0	4.0
957	Mack	V	4.8	6	11.9	24.5	1.0	1.0	4.0
956	Forrest	V	10.2	1	11.5	25.0	1.0	1.0	3.0
958	Essex	V	5.3	5	10.9	22.5	1.0	1.0	2.0
660	Lee	VI	1.6	21	10.4	24.0	1.0	1.0	5.0
837	Lee 68	VI	4.2	13	11.3	24.5	1.0	1.0	5.0
969	Lee 74	VI	2.0	20	11.0	24.0	1.0	1.0	5.0
91	Hood	VI	4.7	7	14.1	23.5	1.0	1.0	5.0
974	Hood 75	VI	4.4	9	16.2	22.5	1.0	1.0	5.0
	N.K.MV80		4.3	10	8.6	17.5	3.5	1.0	1.0
	N.K.MV90		4.3	10	8.2	19.0	3.5	1.0	1.0
	Mean		4.6		10.6	21.2	1.7	1.0	2.4
	LSD <sub>05</sub>		3.0		1.3				
	LSD <sub>01</sub>		4.0		1.8				
	C.V.%		39.1		7.7				

<sup>1/</sup>Planted June 19 in 30" rows (following wheat).  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.  
<sup>4/</sup>Scored from 1-5 on Oct. 21 with 1=fully mature as of 10/21 to 5=approx. 3 weeks from maturity. Early varieties harvested 10/21; remainder harvested 11/4.

**Table 7**  
**1976 Soybean Variety Test**

Eastern Pasture Research Station - Muskogee<sup>1/</sup>  
Soil Type - Taloka Silt Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>
944	Calland	III	7.2	16	11.8	32.0	3.5	1.0
962	Cutler 71	IV	2.6	20	11.7	30.5	4.0	1.0
802	Oksoy	IV	5.3	18	10.4	33.5	4.0	1.0
933	Columbus	IV	13.5	4	13.2	30.0	3.0	1.0
972	Pomona	IV	3.5	19	12.3	30.5	4.0	1.0
826	Dare	V	10.0	12	10.4	31.5	2.0	1.0
957	Mack	V	10.8	11	11.9	36.0	2.5	1.0
956	Forrest	V	15.1	2	12.4	39.0	1.5	1.0
958	Essex	V	11.3	9	10.9	31.0	2.5	1.0
963	OK-963	V	10.9	10	11.6	29.5	2.0	1.0
969	Lee 74	VI	12.2	7	10.7	33.0	1.5	1.5
91	Hood	VI	13.5	4	14.1	32.0	3.0	1.0
974	Hood 75	VI	15.6	1	13.7	32.5	2.5	1.0
---	Lancer	VI	5.9	17	9.7	35.0	1.5	1.0
---	Coker 136	VI	9.6	13	12.5	35.0	1.5	1.0
937	Pickett 71	VI	13.1	6	10.5	36.5	2.0	2.0
959	R68-208	VI	14.9	3	13.3	31.0	2.5	1.0
975	Centennial	VI	8.5	15	12.9	34.0	1.5	1.0
880	Bragg	VII	9.2	14	10.8	43.0	1.0	1.5
970	Ransom	VII	11.8	8	11.1	36.5	1.5	1.0
	Mean		10.2		11.8	33.6	2.4	1.1
	LSD .05		7.7		2.1			
	LSD .01		n.s.		2.8			
	C.V.%		45.4		10.8			

<sup>1/</sup>Planted June 3 in 36" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.

**Table 9**  
**1976 Soybean Variety Test**

Agronomy Research Station - Perkins<sup>1/</sup>  
Soil Type - Teller Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>	1st Bloom	1st Pod
944	Calland	III	5.0	12	12.9	24.0	1.7	1.0	6/26	7/8
962	Cutler 71	IV	6.1	10	11.9	23.0	2.7	1.0	6/26	7/12
802	Oksoy	IV	5.2	11	10.6	26.7	1.0	1.0	6/29	7/18
933	Columbus	IV	4.3	13	11.7	23.3	1.0	1.0	6/27	7/13
972	Pomona	IV	3.7	15	12.3	24.7	2.3	1.0	6/27	7/12
826	Dare	V	9.2	1	12.4	23.7	2.3	1.0	7/15	8/6
957	Mack	V	8.8	2	15.4	26.3	2.0	1.0	7/6	7/19
956	Forrest	V	8.7	3	11.8	25.7	2.0	1.0	7/16	8/1
958	Essex	V	6.2	9	11.3	23.3	3.0	1.0	7/12	7/25
963	OK-963	V	7.5	7	15.2	21.3	1.7	1.0	7/19	8/7
969	Lee 74	VI	4.1	14	14.3	27.0	1.0	1.0	7/27	8/12
91	Hood	VI	6.8	8	16.8	24.3	1.7	1.0	7/21	8/9
974	Hood 75	VI	7.6	4	19.1	27.3	1.0	1.0	7/22	8/10
---	Lancer	VI	7.6	4	16.1	24.7	1.7	1.0	7/22	8/6
---	Coker 136	VI	2.7	18	14.7	27.0	1.0	1.0	7/20	8/6
937	Pickett 71	VI	3.6	16	13.5	26.3	1.0	1.3	7/27	8/13
959	R68-208	VI	7.6	4	16.9	25.3	1.7	1.0	7/20	8/6
975	Centennial	VI	2.4	19	12.3	28.0	1.0	1.0	7/20	8/13
880	Bragg	VII	1.6	20	13.3	32.0	1.0	1.0	7/30	8/23
970	Ransom	VII	3.1	17	14.1	26.7	1.0	1.0	7/24	8/13
	Mean		5.6		13.8	25.5	1.6	1.0	7/14	8/1
	LSD .05		2.4		1.7	2.6				
	LSD .01		3.2		2.3	3.4				
	C.V.%		26.0		7.4	6.0				

<sup>1/</sup>Planted May 19, in 40" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.

**Table 8**  
**1976 Soybean Variety Test**

Vegetable Research Station - Bixby<sup>1/</sup>  
Soil Type - Reinach Silt Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>
944	Calland	III	26.3	11	16.8	33.7	1.7	1.0
962	Cutler 71	IV	19.2	20	14.8	34.7	2.0	1.0
802	Oksoy	IV	19.7	18	14.9	36.3	2.3	1.0
933	Columbus	IV	25.4	13	15.7	35.3	1.0	1.0
972	Pomona	IV	19.9	17	16.6	33.0	2.7	1.0
826	Dare	V	29.5	7	14.0	31.7	1.0	1.0
957	Mack	V	30.5	5	16.1	38.3	1.0	1.7
956	Forrest	V	37.0	1	14.0	33.3	1.0	1.0
958	Essex	V	33.6	2	14.6	26.7	1.0	1.0
963	OK-963	V	32.0	3	16.2	26.7	1.0	1.0
969	Lee 74	VI	23.5	14	13.4	35.0	1.0	1.0
91	Hood	VI	30.7	4	15.1	30.3	1.0	1.0
974	Hood 75	VI	29.7	6	15.4	30.0	1.0	1.0
---	Lancer	VI	25.6	12	14.9	35.3	1.0	1.0
---	Coker 136	VI	29.2	8	15.5	37.0	1.0	1.3
937	Pickett 71	VI	22.7	15	12.0	35.7	1.0	1.7
959	R68-208	VI	27.5	9	17.6	33.7	1.0	1.0
975	Centennial	VI	22.3	16	12.3	38.3	1.0	1.0
880	Bragg	VII	19.3	19	11.8	41.7	1.0	1.3
970	Ransom	VII	26.9	10	14.8	35.0	1.0	1.3
	Mean		26.5		14.8	34.1	1.2	1.1
	LSD .05		5.1		1.3	3.7		
	LSD .01		6.8		1.7	5.0		
	C.V.%		11.6		5.3	6.6		

<sup>1/</sup>Planted June 17 in 40" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.

**Table 10**  
**1976 Soybean Variety Test**

Caddo Research Station - Ft. Cobb<sup>1/</sup>  
Soil Type - Cobb Fine Sandy Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds	Plant Ht (in)	Shatter Score <sup>2/</sup>	Lodging Score <sup>3/</sup>	Maturity Score <sup>4/</sup>
944	Calland	III	35.2	11	15.8	37.0	2.0	2.0	1.5
760	Clark 63	IV	37.1	9	16.1	28.0	2.0	1.0	1.0
962	Cutler 71	IV	32.5	15	15.9	29.5	2.0	2.5	1.0
802	Oksoy	IV	33.2	12	14.1	38.5	3.0	2.0	1.0
933	Columbus	IV	40.9	8	16.3	35.0	2.5	2.5	1.5
972	Pomona	IV	43.0	7	17.4	31.0	2.5	2.0	1.0
968	Kent	IV	32.6	13	16.1	31.0	3.0	2.0	1.0
826	Dare	V	44.4	5	13.5	33.0	1.5	1.5	2.0
956	Forrest	V	47.2	4	12.7	33.5	1.0	2.0	2.0
958	Essex	V	49.7	1	14.1	29.0	1.5	2.5	2.0
963	OK-963	V	48.8	3	15.6	27.5	1.0	1.5	2.0
964	D69-1423	V	32.6	13	8.0	25.5	2.0	4.0	2.0
969	Lee 74	VI	23.8	19	13.4	31.5	1.0	3.5	5.0
91	Hood	VI	49.2	2	17.5	27.0	1.0	2.5	2.0
974	Hood 75	VI	44.3	6	17.3	32.0	1.0	2.5	2.0
937	Pickett 71	VI	23.9	18	12.4	30.0	1.0	3.5	4.5
959	R68-208	VI	37.0	10	17.5	35.5	1.0	2.0	3.0
971	Tracy	VI	31.1	16	16.7	37.0	1.0	4.0	3.0
970	Ransom	VII	24.8	17	15.4	32.0	1.0	2.5	5.0
	Mean		37.4		15.0	31.8	1.6	2.4	2.2
	LSD .05		11.6		1.5	6.5			
	LSD .01		15.6		2.1	8.8			
	C.V.%		18.7		6.2	9.7			

<sup>1/</sup>Planted May 19 in 36" rows.  
<sup>2/</sup>Scored from 1-5 with 1=none and 5=over 20% shattered.  
<sup>3/</sup>Scored from 1-5 with 1=none and 5=severe lodging.  
<sup>4/</sup>Maturity notes taken Oct. 25: 1=already harvested; 2=fully mature 10/25; 3=approx. 1 week from maturity; 4=approx. 2 weeks from maturity; 5=approx. 3 weeks from maturity.

**Table 11**  
Soybean Date of Planting Study

Davis Farms  
Commerce - 1976

Variety	Yield (Bu/Acre)			
	5/18	6/4	6/19	7/9
Calland (III)	15	11	17	18
Columbus (IV)	16	13	14	19
Forrest (V)	24	21	34	17
Lee 74 (VI)	16	11	16	13
Bragg (VII)	13	7	5	8

**Table 13**  
Soybean Plant Population Study

Wooten Farms  
Idabel - 1976

Variety	Yield (Bu/Acre)			
	3/FT.	4/FT.	6/FT.	12/FT.
Calland (III)	19	19	21	17
Columbus (IV)	19	21	19	23
Dare (V)	26	30	27	28
Forrest (V)	28	31	34	33
Lee 74 (VI)	30	33	33	32
Bragg (VII)	23	27	27	28

**Table 12**  
1976 Soybean Variety Test

Panhandle Research Station - Goodwell<sup>1/</sup>  
Soil Type - Richfield Clay Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds
918	Hark	I	32.3	15	15.1
944	Calland	III	45.2	1	18.3
960	Wayne	III	35.0	12	18.5
973	Williams	III	38.1	11	19.4
760	Clark 63	IV	40.1	7	16.6
874	Cutler	IV	40.9	4	16.6
962	Cutler 71	IV	41.3	3	19.4
802	Oksoy	IV	40.3	6	17.4
933	Columbus	IV	42.9	2	17.9
972	Pomona	IV	39.6	8	18.9
968	Kent	IV	38.2	10	18.3
73	Hill	V	22.3	20	11.7
823	York	V	40.8	5	16.7
826	Dare	V	34.3	13	14.5
957	Mack	V	29.5	17	11.9
956	Forrest	V	31.1	16	11.1
958	Essex	V	38.9	9	13.2
963	OK-963	V	33.0	14	12.9
964	D69-1423	V	25.1	19	6.6
91	Hood	VI	25.9	18	11.4
974	Hood 75	VI	19.0	21	10.5
920	Kino	VI	7.9	23	8.2
959	R68-208	VI	18.8	22	11.7
975	Centennial	VI	7.1	24	8.6
	Mean		32.0		14.4
	LSD .05		6.0		1.1
	LSD .01		8.0		1.5
	C.V.%		11.4		4.8

<sup>1/</sup>Planted June 9, 1976 in 28" rows.

**Table 14**  
1976 Soybean Variety Test

South Central Research Station - Chickasha<sup>1/</sup>  
Soil Type - McClain Silty Clay Loam

Okla. S-No.	Variety	Maturity Group	Yield (bu/A)	Rank	Gms/100 Seeds
944	Calland	III	45.7	6	15.1
760	Clark 63	IV	38.8	12	16.1
962	Cutler 71	IV	35.9	16	17.7
802	Oksoy	IV	37.4	15	14.0
933	Columbus	IV	44.9	7	14.7
972	Pomona	IV	40.1	10	17.9
968	Kent	IV	39.3	11	17.0
826	Dare	V	38.1	14	12.4
956	Forrest	V	19.0	20	10.7
958	Essex	V	49.8	1	12.1
963	OK-963	V	46.9	5	14.5
964	D69-1423	V	38.7	13	8.8
969	Lee 74	VI	40.6	9	12.9
91	Hood	VI	49.5	3	17.2
974	Hood 75	VI	48.6	4	16.7
937	Pickett 71	VI	29.4	18	12.6
959	R68-208	VI	49.7	2	17.4
971	Tracy	VI	34.5	17	15.0
975	Centennial	VI	19.2	19	13.3
970	Ransom	VII	43.9	8	15.3
	Mean		39.5		14.6
	LSD .05		7.6		1.4
	LSD .01		10.2		1.9
	C.V.%		11.7		6.0

<sup>1/</sup>Planted May 14 in 40" rows.

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