



1-1986

Performance of Soybean Varieties in 1985

University of Tennessee Agricultural Experiment Station

Charles R. Graves

Follow this and additional works at: https://trace.tennessee.edu/utk_agresreport

 Part of the [Agriculture Commons](#)

Recommended Citation

University of Tennessee Agricultural Experiment Station and Graves, Charles R., "Performance of Soybean Varieties in 1985" (1986). *Research Reports*.

https://trace.tennessee.edu/utk_agresreport/63

The publications in this collection represent the historical publishing record of the UT Agricultural Experiment Station and do not necessarily reflect current scientific knowledge or recommendations. Current information about UT Ag Research can be found at the [UT Ag Research website](#).

This Report is brought to you for free and open access by the AgResearch at TRACE: Tennessee Research and Creative Exchange. It has been accepted for inclusion in Research Reports by an authorized administrator of TRACE: Tennessee Research and Creative Exchange. For more information, please contact trace@utk.edu.

5
12
6

Performance of Soybean Varieties in 1985

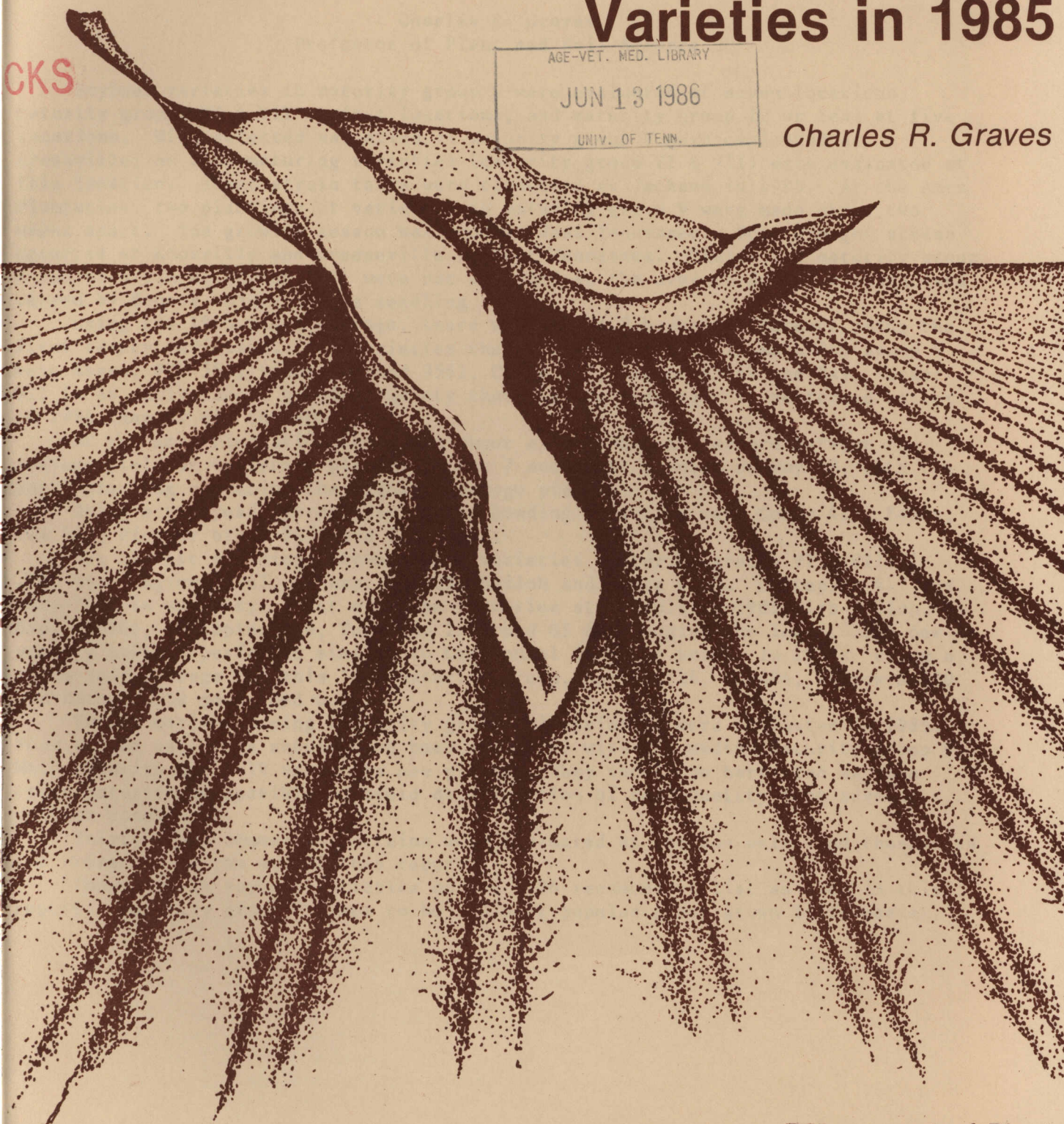
CKS

AGE-VET. MED. LIBRARY

JUN 13 1986

UNIV. OF TENN.

Charles R. Graves



Department of Plant
and Soil Science

Performance of Soybean Varieties in 1985

Charles R. Graves
Professor of Plant and Soil Science

Soybean varieties in maturity group V were evaluated at seven locations, maturity groups VI & VII at four locations, and maturity group IV or less at five locations. Nine selected varieties in maturity group V were evaluated at Crossville; no late-maturing varieties (maturity group VI & VII) were evaluated at this location. Three strain tests were conducted at Jackson in 1985. At the Ames Plantation, two plantings of varieties in maturity group V were made about two weeks apart. The growing season was good in West Tennessee. Some drought stress occurred at Knoxville and Greeneville in East Tennessee. Yields for maturity group V and VI & VII at Spring Hill were not included in the average due to missing data caused by Sencor injury in the seedling stage.

Using the 1985 state average, there was only a 3 bushel difference among the first twenty varieties. The varieties that resisted lodging in maturity group V were Essex, FFR 561, Pioneer brand 9561, Coker 425, Asgrow A5149 and Bay. Coker 425 is an early, short growing variety that resists lodging. It performed better in 1984 than it did in 1985.

At the Ames Plantation there was about a 10 bushel difference between the average yield of varieties planted on May 7 and those planted on May 18, with the May 7 planting producing the highest average yield.

Using a two-year average yield, the leading varieties were Coker 425, Essex, FFR 561, Pioneer brand 5482 and Coker 485.

The highest yielding late-maturing varieties (maturity groups VI & VII) in 1985 were Asgrow A6242, Ga Exp. 79-402, Shiloh and Hartz 6130. Deltapine 417 was very late in maturity. Most of these varieties stood well in 1985 with Shiloh, Ga Exp. 79-402, Deltapine 566, Funk Exp 2910 and GI 652 lodging the least. The new variety Leflore performed similar to Centennial in these trials in 1985. Using a three-year average for this late maturity group, Hartz 7126, RA 604, Asgrow A6520 and Hartz 6383R performed well.

Twelve early-maturing (maturity group IV) varieties were evaluated in 1985. Four of the varieties should have been evaluated with the medium maturity group V. When maturity group IV varieties are planted, they should be harvested as soon after maturity as possible to avoid deterioration of seed quality from adverse weather conditions.

Thirty-seven commercial strains were evaluated at Jackson only, and these data are presented at the end of this report.

There are 24 soybean varieties on the 1986 recommended list as seen in this report. Maturity group V seems to be the most popular group grown in Tennessee.

Recommended Soybean Varieties for 1986

Variety	Resistant to cyst nematode	Maturity Group
	races	
		Medium
Asgrow A5474	3,4	V
Bedford	3,4	V
Forrest	3	V
Hartz 5171	3	V
Hartz 5252	3	V
Pioneer brand 9561	3	V
TN 5-85	3	V
		Late
Asgrow A6520	3,4	VI
Centennial	3	VI
Hartz 6383R	3	VI
Jeff	3,4	VI
RA 604	3	VI
		Very Late
Hartz 7126	3	VII
		Medium
Bay	None	V
Deltapine 105	None	V
Essex	None	V
FFR 561	None	V
Pioneer brand 5482	None	V
York	None	V
RA 502	None	V
		Late
Coker 156	None	VI
N.K. S69-96	None	VI
		Very Late
N.K. S72-60	None	VII
		Early
Mitchell	None	IV

Table 1. Soybeans: Yield of varieties (Maturity Group V) evaluated at seven locations in 1985.

Variety	Avg.	Greene-1/ ville	Knox-2/ ville	Spring-3/ field	Ames4/ Plantation	Milan5/ Martin6/ Hill	Spring7/8/ Hill
Bushels per acre							
Pioneer brand 9531	49	41	46	38	58	60	50
Coker 485	48	35	51	36	55	65	49
Asgrow A5980	48	40	51	35	55	56	52
Essex	48	46	43	38	62	51	55
Asgrow A5474	48	44	45	34	55	55	53
DeKalb-Pfizer 4904	48	35	47	36	52	62	46
Coker 575	48	42	53	37	53	56	49
Terra Vig 515	48	30	50	33	60	59	46
TN 5-85	48	36	45	34	59	62	52
FFR 561	47	46	42	36	61	52	58
Pioneer brand 9561	47	40	47	34	56	60	50
Pioneer brand 5482	47	43	45	34	58	54	51
Hartz 5252	47	41	47	34	57	57	49
Bedford	47	37	46	30	55	60	48
Pioneer brand 9571	47	39	46	34	54	58	48
Forrest	47	39	49	37	55	54	56
Coker 425	47	45	48	37	55	51	54
Terra Vig 553	46	40	46	34	58	58	46
Coker 355	46	35	51	36	52	56	49
FFR 562	46	44	47	29	61	50	49
Deltapine 105	46	47	52	32	57	39	54
Hatz 5171	46	35	45	35	58	55	48
FFR 560	45	36	49	34	51	56	46
Asgrow A5149	45	42	51	39	53	46	46
Hartz 5370	45	33	45	35	54	56	48
Epps	45	38	48	29	50	53	40
GI 569	44	36	38	35	54	48	46
Bay	43	44	38	33	55	48	50
Yield King 503	43	40	51	34	55	36	47
Wilstar 550	41	37	44	28	52	46	51
Yield King 563	41	33	41	30	52	46	--8/
RA 480	39	35	47	35	53	30	52
L.S.D. (.05)	3.0	7.2	8.2	4.5	6.5	7.4	4.8
C.V. %	10.4	13.0	12.4	9.4	8.4	10.0	7.0
Avg.	45.9	39.4	46.7	34.2	55.4	52.9	49.5

1/ Nolichuckey-Waynesboro silt loam (2% to 5% slopes).

2/ Sequatchie silt loam (2% to 5% slopes).

3/ Dickson silt loam (2% to 5% slopes).

4/ Grenada silt loam (2% to 5% slopes).

5/ Collins silt loam (2% to 5% slopes).

6/ Collins silt loam (2% to 5% slopes).

7/ Maury silt loam (2% to 5% slopes).

8/ Not included in average because of missing data due to Sencor herbicide injury.

Table 2. Soybeans: Yield and other characteristics of varieties (Maturity Group V) evaluated at seven locations in 1985.

Variety	Avg. Yield Bu/A	Date First Flower	Date Mature	Plant Ht. In.	Lodging %	Date Last Flower	Date First Pod
Pioneer brand 9531	49	7-4	9-25	34	12	8-4	8-12
Coker 485	48	7-11	10-6	34	21	8-7	8-22
Asgrow A5980	48	7-9	10-3	44	31	8-7	8-22
Essex	48	7-3	9-24	28	6	7-28	8-10
Asgrow A5474	48	7-9	9-29	36	10	8-7	8-21
DeKalb-Pfizer 4904	48	7-22	10-5	46	38	8-9	8-16
Coker 575	48	7-10	10-2	39	14	8-7	8-23
Terra Vig 515	48	7-14	10-7	34	12	8-7	8-21
TN 5-85	48	7-7	9-27	36	17	8-5	8-13
FFR 561	47	7-5	9-27	33	5	8-6	8-13
Pioneer brand 9561	47	7-10	10-2	36	6	8-9	8-21
Pioneer brand 5482	47	7-6	10-6	40	15	8-11	8-26
Hartz 5252	47	7-10	10-4	37	19	8-6	8-21
Bedford	47	7-19	10-5	46	36	8-9	8-25
Pioneer brand 9571	47	7-10	10-6	39	25	8-5	8-23
Forrest	47	7-6	9-29	38	12	8-4	8-18
Coker 425	47	7-4	9-25	27	3	8-4	8-13
Terra Vig 553	46	7-10	9-30	38	17	8-7	8-22
Coker 355	46	7-9	10-4	37	20	8-7	8-23
FFR 562	46	7-11	10-3	40	11	8-8	8-19
Deltapine 105	46	7-11	10-4	38	21	8-6	8-25
Hatz 5171	46	7-10	10-2	40	23	8-7	8-24
FFR 560	45	7-11	10-3	45	34	8-11	8-25
Asgrow A5149	45	7-4	9-26	30	0.7	8-4	8-13
Hartz 5370	45	7-10	10-2	39	21	8-8	8-23
Epps	45	7-9	10-1	36	50	8-7	8-24
GI 569	44	7-10	10-5	37	11	8-9	8-26
Bay	43	7-8	10-1	36	7	8-7	8-15
Yield King 503	43	7-3	9-26	42	18	8-9	8-18
Wilstar 550	41	7-11	10-7	36	11	8-8	8-25
Yield King 563	41	7-10	9-29	37	20	8-7	8-25
RA 480	39	7-6	9-25	42	29	8-9	8-19
L.S.D. (.05)	3.0						
C.V. %	10.4						
Avg.	45.9						

Table 3. Soybeans: Yield and other characteristics of varieties (Maturity Group V) evaluated at Ames Plantation at two planting dates in 1985.

Variety	Avg. Yield	Date Planted		Planted May 7 ^{1/}		Planted May 18 ^{2/}	
		May 7	May 18	Ht.	Maturity	Ht.	Maturity
	Bushels per acre			In.		In.	
Terra Vig 515	55	60	50	31	9-27	31	9-27
Deltapine 105	54	57	50	34	----	34	10-9
Hartz 5171	53	58	49	39	9-27	33	10-9
Pioneer brand 5482	53	58	49	38	9-27	34	10-9
TN 5-85	53	59	47	34	9-16	33	10-4
Coker 485	53	55	51	35	9-21	34	10-9
FFR 562	53	61	45	38	9-27	32	10-2
FFR 561	52	61	43	33	9-19	34	10-4
Essex	52	62	42	26	9-17	42	10-2
Pioneer brand 9561	51	56	46	32	9-24	31	10-9
Terra Vig 553	51	58	44	38	9-23	31	10-9
Hartz 5252	50	57	44	35	9-27	30	10-9
Asgrow A5980	50	55	46	48	9-27	36	9-27
Coker 425	50	55	45	27	9-17	23	10-9
Hartz 5370	50	54	45	36	9-27	32	10-4
Asgrow A5474	50	55	44	31	9-23	32	9-27
Forrest	50	55	44	35	9-24	32	9-27
Coker 575	49	53	46	37	9-27	35	10-4
Pioneer brand 9571	49	54	45	39	10-1	33	10-4
Pioneer brand 9531	49	58	41	32	9-16	30	9-27
GI 569	49	54	44	34	9-27	29	10-2
Yield King 503	49	55	43	47	9-19	34	9-27
Bedford	49	55	42	48	9-27	35	9-27
DeKalb-Pfizer 4904	49	52	46	46	9-24	34	10-9
Epps	48	50	47	33	9-23	30	10-2
RA 480	48	53	44	48	9-18	37	10-9
Coker 355	48	52	45	38	9-27	35	10-2
Wilstar 550	48	52	44	33	9-27	34	10-2
Bay	48	55	41	35	9-18	31	10-2
FFR 560	47	51	42	46	9-27	43	10-4
Yield King 563	47	52	42	36	9-27	36	9-27
Asgrow A5149	46	53	39	28	9-17	29	10-4
L.S.D. (.05)	7.1	6.5	5.2				
C.V. %	14.3	8.4	8.3				
Avg.	50.1	55.4	44.8				

1/ Planted May 7, 1985 on a Lexington silt loam (2% to 5% slopes).

2/ Planted May 18, 1985 on a Lexington silt loam (2% to 5% slopes).

Table 4. Soybeans: Yield of varieties (Maturity Group V) evaluated at Crossville in 1985.^{1/}

Variety	Yield Bu/A	Variety	Yield Bu/A
FFR 561	44	Coker 425	38
Essex	42	Forrest	31
Asgrow A5474	40	TN 5-85	30
Bay	38	Pioneer brand 5482	30
		Epps	28
L.S.D. (.05)	5.0		5.0
C.V. %	9.5		9.5
Avg.	35.7		35.7

^{1/} Hartsells loam (2% to 5% slopes).

Table 5. Soybeans: Yields of varieties (Maturity Group V) evaluated at six locations for two years (1984-85).

Variety	Avg.	Greene- ville	Knox- ville	Spring- field	Spring Hill	Ames Plantation	Milan	Martin
Bushels per acre								
Coker 425	48	48	50	39	47	55	55	45
Essex	48	48	47	39	49	57	50	46
FFR 561	48	46	47	39	51	57	51	43
Pioneer brand 5482	47	44	46	39	45	57	52	47
Coker 485	47	39	47	40	38	54	60	48
Deltapine 105	46	44	46	36	45	58	48	47
Pioneer brand 9561	46	43	43	36	43	54	56	46
Asgrow A5980	46	45	43	37	42	52	53	49
Asgrow A5474	46	44	42	36	44	52	53	50
Hartz 5252	45	44	44	37	42	54	52	46
TN 5-85	45	41	45	28	43	53	55	45
Bay	45	45	43	38	45	54	50	42
Pioneer brand 9571	45	43	41	35	42	52	53	49
Forrest	45	41	44	38	46	51	50	44
Hartz 5171	44	38	45	36	41	54	53	43
Hartz 5370	44	40	39	35	41	54	53	42
Coker 355	44	38	43	36	41	51	52	45
FFR 562	44	44	44	30	43	55	46	43
Bedford	43	39	43	32	38	49	54	46
Yield King 503	43	42	42	36	42	56	40	42
FFR 560	42	38	42	33	38	47	54	45
Epps	41	38	42	33	35	48	50	44
Yield King 563	40	38	36	31	-- ^{1/}	51	43	44
RA 480	39	40	40	34	39	49	35	37

^{1/} No yield at Spring Hill in 1985 due to Sencor herbicide injury.

Table 6. Soybeans: Yield and other characteristics of varieties (Maturity Group V) evaluated at six locations for two years (1984-85).

Variety	Yield Bu/A	Plant Ht. In.	Lodging %	Date Mature
Coker 425	48	27	3	9-28
Essex	48	30	7	9-26
FFR 561	48	34	7	10-1
Pioneer brand 5482	47	37	11	10-4
Coker 485	47	35	22	10-7
Deltapine 105	46	38	26	10-6
Pioneer brand 9561	46	37	7	10-4
Asgrow A5980	46	42	35	10-5
Asgrow A5474	46	38	9	10-2
Hartz 5252	45	37	26	10-6
TN 5-85	45	37	20	9-30
Bay	45	37	13	10-3
Pioneer brand 9571	45	39	21	10-7
Forrest	45	38	16	10-2
Hartz 5171	44	40	28	10-5
Hartz 5370	44	40	29	10-6
Coker 355	44	38	15	10-6
FFR 562	44	40	16	10-5
Bedford	43	44	41	10-8
Yield King 503	43	43	20	9-29
FFR 560	42	43	39	10-6
Epps	41	37	52	10-2
Yield King 563	40	38	31	9-30
RA 480	39	42	35	10-1

Table 7. Soybeans: Yields of varieties (Maturity Group V) evaluated at six locations for three years 1983-85.

Variety	3 Yr. Avg. Yield	Greene- ville	Knox- ville	Spring- field	Spring Hill	Milan	Martin
	Bushels per acre						
Pioneer brand 5482	43	46	47	31	47	45	40
FFR 561	43	47	48	31	49	42	39
Deltapine 105	42	47	48	29	45	43	40
Essex	41	47	46	32	43	41	38
Tn 5-85	41	43	45	28	42	49	37
Hartz 5171	41	42	45	29	42	49	37
Bay	40	46	45	30	44	42	36
Asgrow A5474	40	43	42	29	42	46	40
Pioneer brand 9561	40	43	43	29	40	49	38
Hartz 5252	40	43	42	30	41	45	40
Forrest	40	43	44	30	42	41	38
Hartz 5370	39	40	41	29	41	47	38
FFR 560	39	39	43	27	40	49	38
Yield King 503	39	45	44	29	43	36	36
Bedford	39	40	43	26	39	45	38
Coker 355	38	39	44	29	40	42	37
Epps	37	29	42	26	36	42	36

Table 8. Soybeans: Yield and other characteristics of varieties (Maturity Group V) evaluated at six locations for three years (1983-85).

Variety	Yield	Plant	Lodging	Date Mature
	Bu/A	Ht. In.		
Pioneer brand 5482	43	38	15	10-4
FFR 561	43	36	6	10-2
Deltapine 105	42	40	26	10-8
Essex	41	31	14	9-28
Tn 5-85	41	38	30	10-2
Hartz 5171	41	42	33	10-7
Bay	40	39	11	10-5
Asgrow A5474	40	48	15	10-3
Pioneer brand 9561	40	38	9	10-5
Hartz 5252	40	38	23	10-6
Forrest	40	39	14	10-4
Hartz 5370	39	41	28	10-7
FFR 560	39	44	40	10-7
Bedford	39	45	41	10-8
Coker 355	38	39	20	10-8
Epps	37	37	47	10-2

Table 9. Soybeans: Yield of varieties (Maturity Group VI & VII) evaluated at three locations in 1985.

Variety	Yield	Knoxville ^{1/}	Milan ^{2/}	Ames ^{3/} Plantation	Spring Hill ^{4/}
Bushels per acre					
Asgrow A6242	50	50	49	50	50
Ga Exp 79-402	48	48	50	48	43
Shiloh	48	45	48	50	41
Hartz 6130	48	48	50	46	44
Asgrow A6520	47	45	49	47	--5/
Leflore	46	40	52	47	42
Centennial	46	47	46	46	46
Hartz 7126	46	42	51	45	46
Yield King 593	46	48	43	46	47
Asgrow A6381	46	49	45	43	50
Young	45	47	47	42	45
Hartz H-79-21046	45	43	52	40	48
GI 651	44	46	42	46	--5/
Hartz 6383R	44	42	48	42	48
Bradley	44	43	44	44	39
Deltapine 566	43	43	46	41	44
Funk Exp. 2910	42	44	43	40	44
RA 604	42	46	40	40	45
Terra Vig 616	41	40	42	41	41
Yield King 613	41	37	44	42	46
Terra Vig 606	40	41	42	38	--5/
Deltapine 417	39	44	40	33	43
FFR 669	38	44	40	31	47
Asgrow A7372	38	42	44	27	49
GI 652	36	36	36	35	39
FFR 668	36	41	34	32	52
L.S.D. (.05)	3.1	5.8	4.9	5.9	5.3
C.V. %	8.9	9.4	7.8	10.1	8.4
Avg.	43.4	43.7	44.9	41.6	44.9

^{1/} Sequatchie silt loam (2% to 5% slopes).

^{2/} Falaya silt loam (2% to 5% slopes).

^{3/} Grenada silt loam (2% to 5% slopes).

^{4/} Maury silt loam (2% to 5% slopes).

^{5/} Not included in average because of missing data due to Sencor herbicide injury.

Table 10. Soybeans: Yield and other characteristics of varieties (Maturity Group VI & VII) evaluated at three locations in 1985.

Variety	Yield Bu/A	Date First Flower	Date Mature	Plant Ht. In.	Lodging %	Date Last Flower
Asgrow A6242	50	7-6	10-8	38	11	8-11
Ga Exp 79-402	48	7-7	10-11	41	8	8-15
Shiloh	48	7-5	10-8	38	1	8-12
Hartz 6130	48	7-7	10-13	44	11	8-19
Asgrow A6520	47	8-7	10-12	36	12	8-11
Leflore	46	7-9	10-15	43	19	8-16
Centennial	46	7-10	10-15	41	19	8-17
Hartz 7126	46	7-13	10-16	42	12	8-15
Yield King 593	46	7-10	10-12	44	26	8-12
Asgrow A6381	46	7-9	10-11	38	12	8-12
Young	45	7-21	10-13	46	29	8-23
Hartz H-79-21046	45	7-17	10-18	43	21	8-21
GI 651	44	7-12	10-10	42	14	8-16
Hartz 6383R	44	7-10	10-17	40	20	8-22
Bradley	44	7-9	10-9	36	17	8-12
Deltapine 566	43	7-9	10-16	40	6	8-19
Funk Exp. 2910	42	7-8	10-16	40	8	8-23
RA 604	42	7-13	10-13	43	13	8-18
Terra Vig 616	41	7-16	10-20	46	28	8-27
Yield King 613	41	7-22	10-10	51	35	8-24
Terra Vig 606	40	7-14	10-16	41	13	8-21
Deltapine 417	39	7-20	10-25	48	29	8-28
FFR 669	38	7-9	10-17	42	15	8-26
Asgrow A7372	38	7-15	10-18	38	18	8-22
GI 652	36	7-12	10-11	39	8	8-13
FFR 668	36	7-13	10-16	39	11	8-3
L.S.D. (.05)	3.1					
C.V. %	8.9					
Avg.	43.4					

Table 11. Soybeans: Yield and other characteristics for varieties (Maturity Group VI & VII) evaluated at three or four locations for two years 1984-85.

Variety	Avg. Yield Bu/A	Plant Ht. In.	Lodging %	Date Mature
Asgrow A6242	44	39	16	10-11
Asgrow A6381	44	39	14	10-14
Hartz 7126	43	43	22	10-20
Yield King 593	43	45	23	10-16
Hartz 6382R	42	40	28	10-18
RA 604	41	45	15	10-14
Deltapine 5667	41	41	8	10-20
Centennial	41	42	18	10-18
Bradley	41	38	28	10-15
Yield King 613	40	48	27	10-14
Deltapine 417	39	50	23	10-25
FFR 668	38	43	12	10-18
FFR 669	38	42	20	10-20
Asgrow A6520 ^{1/}	39	39	16	10-15
Terra Vig 606 ^{1/}	39	41	15	10-18

^{1/} No yields obtained at Spring Hill in 1985 due to Sencor herbicide injury.

Table 12. Soybeans: Yield of varieties (Maturity Group VI & VII) evaluated at four locations for two years 1984-85.

Variety	Avg.	Knox- ville	Spring Hill	Milan	Ames Plantation
Bushels per acre					
Asgrow A6242	44	39	41	47	50
Asgrow A6381	44	40	43	48	46
Hartz 7126	43	35	40	51	47
Yield King 593	43	39	41	44	48
Hartz	42	39	41	46	44
RA 604	41	38	39	43	45
Deltapine 566	41	35	40	48	42
Centennial	41	40	34	43	47
Bradley	41	36	37	46	43
Yield King 613	40	33	42	42	44
Deltapine 417	39	36	38	40	40
FFR 668	38	35	42	40	37
FFR 669	38	37	38	40	37
Asgrow A7372	37	32	40	40	36
Asgrow A6520	39	39	--1/	47	31
Terra Vig 606	39	34	--1/	42	40

1/ No data for Spring Hill in 1985 due to Sencor herbicide injury.

Table 13. Soybeans: Yield and other characteristics for varieties (Maturity Group VI & VII) evaluated at three or four locations for three years 1983-85.

Variety	Avg. Yield Bu/A	Plant Ht. In.	Lodging %	Date Mature
Hartz 7126	39	45	29	10-22
Asgrow A6520	39	38	23	10-17
RA 604	39	44	22	10-14
Hartz 6383R	38	42	33	10-21
Centennial	37	42	18	10-20
Terra Vig 606	37	41	21	10-20
Deltapine 417	36	48	30	10-27
FFR 668	36	43	18	10-21
Bradley	36	38	32	10-15
Asgrow A7372	35	40	25	10-22

Table 14. Soybeans: Yield of varieties (Maturity Group VI & VII) evaluated at four locations for three years 1983-85.

Variety	Avg.	Knox- ville	Spring Hill	Milan	Ames Plantation
Bushels per acre					
Hartz 7126	39	33	36	44	43
RA 604	39	38	36	42	39
Asgrow A6520	39	38	--	41	38
Hartz 6383R	38	37	37	40	38
Centennial	37	39	33	36	41
Terra Vig 606	37	37	--	37	37
Deltapine 417	36	36	35	36	39
FFR 668	36	35	36	38	34
Bradley	36	33	34	38	38
Asgrow A7372	35	34	37	37	34

Table 15. Soybeans: Yield of early maturing (Maturity Group IV or less) evaluated at five locations in 1985.

Variety	Avg.	Knox-1/ ville	Spring-2/ field	Cross-3/ ville	Milan4/	Ames5/ Plan- tation
Bushels per acre						
RA 405	50	59	60	48	47	34
DeKalb-Pfizer CX482	50	54	56	44	53	41
Pershing	49	57	52	43	52	40
Pioneer brand 9471	49	53	58	40	52	40
RA 451	48	54	53	44	51	39
TN 83-6	48	52	52	31	62	42
RA 452	47	54	58	46	34	45
TN 83-7	45	55	50	33	58	30
Mitchell	45	49	48	43	49	37
Stevens	45	47	51	38	52	36
TN 83-67	44	49	48	37	49	36
T.E. GA 8450A	41	39	51	40	48	29
L.S.D. (.05)	3.7	6.0	6.8	5.1	8.4	12.8
C.V. %	11.7	8.0	8.9	8.8	11.6	23.8
Avg.	46.7	51.9	53.0	40.5	50.7	37.4

1/ Sequatchie silt loam (2% to 5% slopes).
2/ Dickson silt loam (2% to 5% slopes).
3/ Hartsells loam (2% to 5% slopes).
4/ Collins silt loam (2% to 5% slopes).
5/ Loring silt loam (2% to 5% slopes).

Table 16. Soybeans: Yield and other characteristics of early maturing (Maturity Group IV or less) evaluated at five locations in 1985.

Variety	Yield	Moisture at Harvest	Date First Bloom	Date Mature	Plant Ht.	Lodging	Flower Color	Pubes- cence Color	Date Last Flower
	Bu/A	%			in.	%			
RA 405	50	16.6	6-18	9-21	43	23	P	T	7-23
DeKalb-Pfizer CX482	50	15.6	6-14	9-14	42	18	P	S	7-21
Pershing	49	14.8	6-26	9-22	30	0.3	W	S	7-24
Pioneer brand 9471	49	14.2	6-13	9-11	38	9	W	T	7-23
RA 451	48	16.0	6-16	9-25	43	15	P	T	7-22
TN 83-6	48	15.0	6-14	9-13	44	8	P	T	7-20
RA 452	47	16.0	6-27	9-22	40	4	W	S	8-02
TN 83-7	45	16.2	6-15	9-15	43	5	P	T	7-20
Mitchell	45	14.6	6-14	9-11	38	13	P	T	7-21
Stevens	45	15.8	6-15	9-11	44	19	P	S	7-20
TN 83-67	44	15.5	6-16	9-12	41	20	P	T	7-21
T.E. GA 8450A	41	15.5	6-13	9-09	34	14	W&P	T	7-19
L.S.D. (.05)	3.7								
C.V. %	11.7								
Avg.	46.7								

Table 17. Soybeans: Yield of varieties (Maturity Group IV) evaluated at Crossville in 1985.^{1/}

Variety	Yield Bu/A	Variety	Yield Bu/A
RA 405	48	T.E. GA 8450A	40
RA 452	46	Pioneer brand 9471	40
RA 451	44	Stevens	38
DeKalb-Pfizer CX482	44	TN 83-67	37
Pershing	43	TN 83-7	33
Mitchell	43	TN 83-6	31
L.S.D. (.05)	5.1		5.1
C.V. %	8.8		8.8
Avg.	40.5		40.5

^{1/} Hartsells loam (2% to 5% slopes).

Table 18. Soybeans: Yield of early maturing (Maturity Group IV or less) varieties evaluated at five locations for two years (1984-85).

Variety	Avg.	Knox- ville	Spring- field	Cross- ville	Milan	Ames Plantation
Bushels per acre						
DeKalb-Pfizer CX482	45	48	45	44	50	38
RA 405	45	51	50	46	44	33
Pershing	44	50	42	43	52	36
Pioneer brand 9471	44	49	45	41	52	33
RA 451	43	46	44	42	47	34

Table 19. Soybeans: Yield and other characteristics of strains (Maturity Group V) evaluated at Jackson in 1985.^{1/}

Seed Company	Strains	Yield Bu/A	Date First Flower	Date Mature	Plant Ht. In.	Lodging %
D&PL	X 1091	61	7-11	10-4	45	10
Tenn.	TN 82-62	60	7-11	10-2	32	40
Tenn.	TN 82-94	59	7-11	10-2	34	5
Va.	Essex	58	7-11	10-2	36	20
Funk	M82-561503	58	7-16	10-1	39	15
Funk	M82-540103	56	7-18	10-1	36	10
Eagle	B15296	56	7-18	10-7	42	95
Eagle	B11653	55	7-16	10-7	46	20
N.K.	KNXB000254	55	7-14	10-2	44	80
USDA	Forrest	52	7-11	10-1	42	40
Eagle	B 2 J	50	7-20	10-6	44	80
Tenn.	TN 83-26	50	7-11	10-1	50	20
Agrocetus	CFC-82	49	7-22	10-7	50	95
Agrocetus	CFC-83	49	7-21	10-6	54	95
Agrocetus	CFC-78	47	7-23	10-6	50	90
D&PL	X 2251	47	7-29	11-5	44	90
Tenn.	TN 83-22	46	7-11	10-5	52	40
Agrocetus	CFC-79	45	7-22	10-6	46	95
Agrocetus	CFC-81	44	7-25	10-4	62	90
Eagle	B15192	44	7-22	10-6	52	95
D&PL	X 675	40	7-22	10-3	48	25
L.S.D. (.05)		6.2				
C.V. %		8.8				
Avg.		49.6				

^{1/} Lexington silt loam (2% to 5% slopes).

Table 20. Soybeans: Yield and other characteristics of strains (Maturity Group VI & VII) evaluated at Jackson in 1985.^{1/}

Seed Company	Strains	Yield Bu/A	Date First Flower	Date Mature	Plant Ht. In.	Lodging %
Hartz	H80-18048	53	7-19	10-14	48	52
D&PL	X 806	49	8-7	11-2	50	83
Funk	M82-723305	48	7-22	10-25	45	65
Hartz	H80-8104	47	7-26	10-22	42	86
Funk	M82-571702	47	7-20	10-25	55	79
Hartz	H80-2780	46	7-28	10-25	45	31
Funk	M82-570305	45	7-22	10-11	41	8
N.K.	KNX 75-111	45	7-22	10-25	42	40
Circle H	Sampson	43	7-28	10-25	46	44
N.K.	KNX-M760815	42	7-28	10-25	51	42
Hartz	H79-18926	42	7-27	10-25	46	25
USDA	Centennial	42	7-29	10-25	49	32
D&PL	X 777	35	7-22	10-25	52	76
L.S.D. (.05)		6.4				
C.V. %		10.0				
Avg.		45.0				

^{1/} Lexington silt loam (2% to 5% slopes).

Table 21. Soybeans: Yields and other characteristics of strains (Maturity Group IV) evaluated at Jackson in 1984.

Strain	Yield Bu/A	Date First Flower	Date Mature	Plant Ht. In.	Lodging %
Mitchell	53	6-21	9-29	47	80
TN 83-65	45	6-20	10-1	49	75
TN 81-144	43	6-24	9-24	54	72
Tn 83-10	39	6-28	9-24	48	65
L.S.D. (.05)		5.5			
C.V. %		7.6			
Avg.		45.0			