



**United States  
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Agriculture**

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# **Evaluation of the USDA Soybean Germplasm Collection: Maturity Group V (FC 30265-PI 612614) and Maturity Groups VI-VIII (PI 416758-PI 606432B)**



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Nelson and Peregrine are curator and assistant curator, respectively, of the USDA Soybean Germplasm Collection, Urbana, IL.

## Abstract

E.K.Peregrine, G.L. Sprau, C.R. Cremeens, P. Handly, T.C. Kilen, J.R. Smith, D.A. Thomas, Jo Dean Sarins, and R.L. Nelson. 2006. Evaluation of the USDA Soybean Germplasm Collection: Maturity Group V (FC 30265-PI 612614) and Maturity Groups VI-VIII (PI 416758-PI 606432B). U.S. Department of Agriculture, Technical Bulletin No. 1920, 367 pp.

This publication contains information on the origin, descriptive characteristics, agronomic performance, and seed composition data of soybean (*Glycine max* (L.) Merrill) germplasm accessions in maturity group V (FC 30265-PI 612614) received by 1998 and in maturity groups VI-VIII received between 1977 and 1998 (PI 416758-PI 606432B) by the USDA Soybean Germplasm Collection. The accessions included in this publication were evaluated between 1996 and 2003 in Stoneville, MS (Lat. 33° 26' N).

Keywords: agronomic characteristics, fatty acids, *Glycine max*, origin, seed composition, seed yield, soybean oil, soybean protein.

While supplies last, single copies of this publication may be obtained from USDA Soybean Germplasm Collection, 1101 West Peabody Drive, University of Illinois, Urbana, IL 61801.

Copies of this publication may be purchased in various formats (microfiche, photocopy, CD, print on demand) from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (800) 553-6847, [www.ntis.gov](http://www.ntis.gov).

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## **Introduction**

This publication contains information on the origin, descriptive characteristics, agronomic performance, and seed composition data of soybean (*Glycine max* (L.) Merr.) germplasm accessions in maturity group V received by 1998 and in maturity groups VI through VIII received between 1977 and 1998. (Evaluation data on accessions in maturity groups VI through VIII received before 1977 has already been published in the USDA Technical Bulletin 1894.) Also included are cultivars in the same maturity groups, developed at public institutions in the United States and Canada, and released by 2001. These data are also available electronically through the Germplasm Resources Information Network (GRIN) at <http://www.ars-grin.gov/npgs/> or from the Database Management Unit, USDA-ARS, BARC West, Beltsville, MD 20705. This is one of a series of technical bulletins that report on evaluation of the USDA Soybean Germplasm Collection. Other evaluation publications can be obtained from the Curator, USDA Soybean Germplasm Collection, USDA-ARS, 1101 West Peabody Drive, University of Illinois, Urbana, IL 61801.

The accessions included in this publication were evaluated in Stoneville, Mississippi (Lat. 33° 26' N) in six different 2-year tests. All tests were replicated once per year. Plots were four rows wide, with rows 3.6 m long and 76 cm between rows. Only the center two rows of each plot were harvested for yield. Accessions are listed with the evaluation in which they were planted, regardless of which maturity group they were placed in following evaluation. In some tests, some accessions are outside the PI range cited in the heading; these had not been previously evaluated and were included in these tests. The evaluations were blocked by maturity group, but the data are presented in order of cultivar name or PI number. All accessions were planted again in single rows in 2004 to verify plant descriptors. Specific comments about each evaluation follow.

### **Maturity group V, FC 30265 to PI 408435 (received by 1976)**

Planting dates were May 13, 1999, and April 27, 2001. Plants flowered an average of 15 days later and matured 2 days later in 1999 than in 2001. Plants were taller and yields were generally greater in 1999 than in 2001.

### **Maturity group V, PI 416758 to PI 561398 (received between 1977 and 1991)**

Planting dates were April 27, 2000, and May 14, 2002. Plants flowered an average of 25 days later and matured 7 days later in 2002 than in 2000. Plants were taller and yields were generally greater in 2002 than in 2000.

### **Maturity groups V through VIII, PI 566960 to PI 592914 (received**

**between 1990 and 1994)**

Planting dates were May 14, 1996, and May 22, 1997. Plants flowered an average of 8 days later and matured 2 days later in 1997 than in 1996.

**Maturity groups V through VIII, PI 593948 to PI 594904 (received between 1995 and 1996)**

Planting dates were May 18, 1998, and May 14, 1999. Plants flowered an average of 8 days later and matured 5 days later in 1998 than in 1999. Yields were generally greater in 1999 than in 1998. Seed quality, seed mottling, seed shape, and chemical analysis of maturity group VIII accessions were not recorded in 1998 because of extremely poor seed quality.

**Maturity group V PI 597469 to PI 612614 (received between 1996 and 1998)**

Planting dates were April 27, 2001, and May 14, 2002. Plants flowered an average of 20 days later, matured 4 days later, and were generally taller and higher yielding in 2002 than in 2001. A hurricane on Oct. 3, 2002, damaged many plots, so accessions initially classified as maturity group VI to VIII were replanted on April 14, 2003 as discussed below.

**Maturity groups VI through VIII, PI 597465 to PI 606436B (received between 1996 and 1998)**

Planting dates were April 27, 2001, and April 14, 2003. Plants flowered an average of 9 days later and 2 days later and were generally taller and higher yielding in 2003 than in 2001.

Seed composition was analyzed at the USDA Northern Center for Agricultural Utilization Research in Peoria, IL. Fatty acid composition was obtained by gas-liquid chromatography of the methyl esters (Christie 1989; Bannon et al. 1982). Oil and protein for samples with yellow seed coats were analyzed using the near infrared method for whole-grain analysis (AACC Method 39-21). Protein concentrations for samples with colored or heavily mottled seed coats were obtained using the improved Kjeldahl method (AACC Method 46-16) and oil by the Butt Extraction method (AOCS Official Method Ac 3-44).

**Data categories and abbreviations**

The maturity groups of some accessions were changed based on evaluation data, but accessions are listed with the evaluation in which they were planted. Each evaluation was blocked by maturity group but the data are presented in cultivar name or PI number order.

Numeric values are the mean of observations from 2 years. Where only one observation was used, that value is followed by a caret (^). Missing data are indicated by a single dash (-). Chemical data obtained using the Kjeldahl procedure and Butt extraction are followed by a “w”. An asterisk (\*) following a mean indicates that the difference between the values for the two replications exceeded a specified limit. The limits for each trait are as follows:

Maturity date	>14 days
Lodging	>1 unit
Height	>15 cm
Shattering	>1 unit
Seed quality	>1 unit
Seed mottling	>1 unit
Seed weight	>4.0 cg sd <sup>-1</sup>
Yield	>1.0 Mg ha <sup>-1</sup>

This approach was implemented because of the possibility of misinterpreting the mean of only two observations when the difference between the individual values was large.

## **Table 1**

### **FC number**

Serial numbers assigned by the former Forage Crops Section of USDA, Beltsville, MD. This series was used for soybean until 1954.

### **PI number**

Serial numbers assigned by the Plant Exchange Office, National Germplasm Resources Laboratory, USDA-ARS, BARC-West, Beltsville, MD 20705.

### **Accession identifier**

Accession names and identification numbers are reported as received. No attempt was made to change transliterations or translations done by others. When heterogeneous introductions were received, two or more sublines were preserved and are distinguished by a letter (A, B, C, etc.) suffixed to the PI number. Any name or number received with the original sample is enclosed in parentheses for sublines with other than the “A” designation.

### **Region and Country of origin**

This is the region (province, state, or prefecture) and country where the accession originated based on the best information received from the country of acquisition or accession name.

**Country of acquisition**

This is the country from which the seeds were actually obtained.

**Year of introduction or release**

This is the year in which cultivars from the United States or Canada were officially released, or the year in which introductions were assigned PI numbers.

**Maturity group**

Maturity group is the classification of relative maturity based on time of maturity at Stoneville, MS.

**Table 2****Stem termination:**

D = determinate

N = indeterminate

S = semi-determinate

**Flower color**

P = purple

Pth = purple throat

Dp = dark purple

W = white

**Pubescence color**

T = tawny

Lt = light tawny

G = gray

Ng = near gray

**Pubescence form**

A = appressed on leaf surface

C = curly (twisted and appressed)

E = erect on leaf surface

I = irregular (slightly curly or twisted)

Sa = semiappressed on leaf surface

Va = very appressed on leaf surface

**Pubescence density**

D = dense

G = glabrous

N = normal density

Sp = sparse

Sdn = semidense (slightly increased density, most noticeable on the pulvinus)

Ssp = semispars (slightly reduced density, most noticeable on the pulvinus)

### **Pod color**

Bl = black

Br = brown

Dbr = dark brown

Lbr = light brown

Tn = Tan

### **Seedcoat luster**

B = bloom

Lb = light bloom

D = dull

I = intermediate (between shiny and dull)

S = shiny

### **Seedcoat and hilum color**

Bf = buff

Bl = black

Brbl = variable from brown to black

Br = brown

G = gray

Ggn = gray green

Gn = green

Gnbl = green black

Gnbr = green brown

Ib = imperfect black

Ig = imperfect gray

Rbf = red buff

Rbr = red brown

Tn = tan

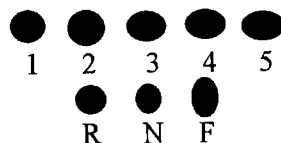
Y = yellow

Blbr = black hilum with brown outer ring

Dark or light shades of these colors are indicated by prefixing the abbreviations with D or L (e.g., Lbr = light brown).

### **Seed shape**

Side view: 1 (round) to 5 (very elongated)



End view: R (Round), N (Normal), F (Flat)

**Other traits**

4sd = many four-seeded pods

Abh = imperfect abscission of hilum

Cd = chlorophyll deficient

Def = defective seedcoat (irregular splitting of the seedcoat)

Flk = brown flecks on black seedcoat

Fasc = fasciated stem

Gnc = green cotyledon

Net = splitting of the outer layer of the seedcoat, which produces a netted appearance on the sides of the seeds

Sad = saddle-shaped dark pigment on seedcoat encompassing the hilum

Sph = spread hilum (slight, regular extension of hilum pigment beyond hilum boundary)

St = black, curved stripes on seedcoat

Vhil = variable hilum color

Vsc = variable seedcoat color

Lft4 = 4 leaflets frequent

Lft5 = 5 leaflets frequent

Na = narrow leaflet

Sw = semi-wild

Wa = wavy leaflet margin

Slight or some expression of any of these "Other traits" is indicated by prefixing the abbreviation with S (e.g., Sna = Slight narrow leaf).

Also see "Mottling" in Table 3.

**Table 3**

**Flowering**

Date when 50% of the plants have at least one flower (month-day).

**Maturity**

Date when 95% of the pods have reached final color (month-day).

**Lodging**

Scored 1 (erect) to 5 (prostrate).

**Height**

Length of stem from ground to stem tip, in centimeters, at maturity.

**Shattering**

Early: Scored at harvest

Late: Scored on border rows two weeks after maturity

Score based on percentage of open pods as follows:

1 = no shattering

2 = 1 to 10 percent

3 = 10 to 25 percent

4 = 25 to 50 percent

5 = >50 percent

### **Seed quality**

Scored 1 (good) to 5 (very poor), considering wrinkling, defective seedcoat, greenish or diseased seeds.

### **Mottling**

Score based on percentage of seedcoat with dark pigment as follows:

1 = no mottling

2 = 1 to 10%

3 = 10 to 25%

4 = 25 to 50%

5 = >50%

A double dash (--) indicates that the seedcoat was normally dark pigmented and thus mottling cannot be scored.

### **Seed weight**

Centigrams per seed based on a 100-seed sample.

### **Seed yield**

Megagrams per hectare.

### **Table 4**

#### **Seed composition:**

Protein and oil: percentage of dry weight of seed.

Fatty acids (palmitic, stearic, oleic, linoleic, linolenic): Percentage of total fatty acids.

### **Literature Cited**

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Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
548402S	(Peking)	Beijing	China	China	1910	V
548422S	(Virginia)	Liaoning	China	China	1918	V
	Accomac	Virginia	United States	United States	1997	V
	Arlington	Hebei	China	China	1910	V
	Austin	Pyongyang	North Korea	North Korea	1909	V
	Bay	Virginia	United States	United States	1978	V
	Bedford	Tennessee	United States	United States	1977	V
	Camp	Virginia	United States	United States	1989	V
	Camp-lx2	Kentucky	United States	United States	1996	V
	Clifford	North Carolina	United States	United States	1997	V
	Cordell	Mississippi	United States	United States	1989	V
	Crowley	Arkansas	United States	United States	1991	V
	Dare	North Carolina	United States	United States	1965	V
	Delsoy 4900	Missouri	United States	United States	1989	IV
	Delsoy 5500	Missouri	United States	United States	1996	V
	Dixie	Pyongyang	North Korea	North Korea	1927	V
	Donegal	Maryland	United States	United States	1998	V
	Dorman	Mississippi	United States	United States	1952	V
	Dyer	Mississippi	United States	United States	1967	V
	Epps	Mississippi	United States	United States	1983	V
	Essex	Virginia	United States	United States	1972	V
	Forrest	Mississippi	United States	United States	1972	V
	Graham	North Carolina	United States	United States	1996	V
	Harrel	unknown	unknown	unknown	by 1950	V
	Hartwig	Missouri	United States	United States	1991	V
	Hill	Mississippi	United States	United States	1959	V
	Hollybrook	unknown	Japan	Japan	1902	V
	KS5292	Kansas	United States	United States	1992	V
	Lexington	Tianjin	China	China	1918	V
	Luthy	Heilongjiang	China	China	by 1950	V
	Mack	Arkansas	United States	United States	1971	V
	Nansemond	unknown	unknown	unknown	by 1950	V
	Narrow	Arkansas	United States	United States	1984	V
	Nathan	Tennessee	United States	United States	1980	V
	Pace	Mississippi	United States	United States	1996	V
	Rhodes	Missouri	United States	United States	1990	V
	S-100	Heilongjiang	China	China	1945	V
	Shore	Virginia	United States	United States	1974	V
	TN 4-94	Tennessee	United States	United States	1997	IV
	TN 5-85	Tennessee	United States	United States	1986	V
	Toano	Virginia	United States	United States	1985	V
	Twiggs	Georgia	United States	United States	1987	VI
	Vance	Virginia	United States	United States	1986	V
	Walters	Arkansas	United States	United States	1990	V
	York	Virginia	United States	United States	1967	V
FC 30265		unknown	unknown	unknown	1938	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
(Peking)	V	D	W	T	Sa	N	Br	S	Bl	Bl		5F
(Virginia)	V	N	P	T	E	N	Br	I	Br	Br		4F
Accomac	V	D	P	T	Sa	N	Tn	I	Y	Bl		3N
Arlington	V	N	P	Ng	Sa	N	Br	I	Bl	Bl		3N
Austin	V	D	W	G	E	Ssp	Br	D	Gn	Bf		2N
Bay	V	D	P	G	E	N	Tn	I	Y	Bf	Vhil	2N
Bedford	V	D	W	T	Sa	N	Tn	I	Y	Bl		2N
Camp	V	D	P	G	Sa	Ssp	Tn	I	Y	Y	Na	2N
Camp-lx2	V	D	P	G	Sa	N	Tn	I	Y	Y	Na	2N
Clifford	V	D	P	T	E	N	Tn	I	Y	Br		2N
Cordell	V	D	W	T	Sa	N	Tn	I	Lgn	Bl		2N
Crowley	V	N	W	G	Sa	N	Tn	D	Y	Bf		3N
Dare	V	D	W	G	E	N	Tn	I	Y	Bf	Vhil	2N
Delsoy 4900	IV	D	P	T	E	N	Tn	D	Y	Lbr		3N
Delsoy 5500	V	D	W	T	E	N	Tn	D	Y	Br		2N
Dixie	V	N	P	Lt	Sa	N	Br	I	Br	Br		4N
Donegal	V	N	W	T	E	N	Tn	D	Y	Bl		3N
Dorman	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
Dyer	V	D	P	T	E	N	Tn	I	Lgn	Bl		2N
Epps	V	D	P	G	A	N	Tn	I	Y	Ib		2N
Essex	V	D	P	G	E	N	Tn	D	Y	Ib		2N
Forrest	V	D	W	T	Sa	N	Tn	I	Lgn	Bl		2N
Graham	V	D	P	G	E	N	Br	D	Y	Lbf		2N
Harrel	V	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
Hartwig	V	D	W	T	Sa	N	Br	S	Lgn	Bl		2N
Hill	V	D	W	T	E	N	Tn	I	Y	Br		1N
Hollybrook	V	D	W	G	E	Ssp	Tn	I	Y	Y	Vhil	2N
KS5292	V	D	W	G	E	N	Tn	D	Y	Bf	Vhil	2N
Lexington	V	D	W	G	Sa	N	Br	I	Gn	Gn		4N
Luthy	V	D	W	T	E	Ssp	Br	D	Y	Br		2N
Mack	V	D	P	T	A	N	Tn	S	Y	Brbl	Vhil	2N
Nansemond	V	D	P	T	E	Ssp	Br	D	Y	Br		3N
Narrow	V	D	P	G	E	N	Tn	I	Y	Ib		2N
Nathan	V	D	W	T	E	N	Tn	S	Y	Bl		2N
Pace	V	D	W	G	Sa	N	Tn	I	Y	Bf		2N
Rhodes	V	D	W	T	Sa	N	Tn	I	Y	Brbl	Vhil	2N
S-100	V	N	W	G	E	N	Br	I	Y	Bf		2N
Shore	V	D	P	G	E	N	Tn	S	Y	Y		2N
TN 4-94	IV	N	P	G	E	N	Br	I	Y	Bf		3N
TN 5-85	V	D	W	G	A	N	Tn	D	Y	Bf		2N
Toano	V	D	P	G	E	N	Tn	D	Y	Y	Sdef	2N
Twiggs	VI	D	P	T	A	N	Tn	S	Y	Bl		2N
Vance	V	D	P	G	Sa	Ssp	Tn	I	Y	Y	Na	2N
Walters	V	D	P	T	Sa	N	Tn	D	Lgn	Bl		2N
York	V	D	P	G	E	N	Tn	I	Y	Bf		2N
FC 30265	V	N	W	T	E	Ssp	Br	D	Y	Bl		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
(Peking)	627	913	1.5	76	2.5	4.5	3.2*	--	7.9	2.04
(Virginia)	619	913	4.0	158*	2.0*	3.5*	3.8	--	11.4	1.76
Accomac	624	925	2.0	84*	1.0	1.5	2.0	2.5	11.8	3.25
Arlington	705	915	2.5	115*	1.5	2.5*	2.8	--	9.1	1.85*
Austin	627	909	3.5	98*	2.0*	2.5*	3.2	2.5	15.0	1.56
Bay	630	929	2.0	78*	1.0	1.0	2.5	1.0	16.6	3.67
Bedford	702	925	3.3	101*	1.2	1.2	2.0	2.3	11.0	3.07*
Camp	623	927	1.5	42	1.5	2.5	2.8	1.0	7.7	2.74
Camp-lx2	623	923	1.0	38	1.5	2.5	2.2	1.5	6.8	1.81
Clifford	626	928	1.5	68	1.0	1.0	2.8	1.0	15.4	3.23
Cordell	701	924	2.5	88	1.0	1.5	1.8	2.5	9.1	2.74
Crowley	705	1002	2.5	100	1.0	1.0	2.5	1.5	13.7	3.71
Dare	625	924	1.5	62*	1.0	1.0	2.2	1.0	10.7	2.69
Delsoy 4900	623	915	1.7	83*	1.0	1.5*	2.6	1.0	16.4	3.61*
Delsoy 5500	701	927	1.5	68	1.0	1.0	2.0	1.5	14.6	4.11
Dixie	625	926	4.0	102*	2.5	3.0	3.8	--	17.6	1.54*
Donegal	616	927	2.0	118	2.5	3.0	3.2	1.0	13.4	1.80
Dorman	623	923	2.5	71	1.0	1.5	2.0	1.0	11.0	2.46
Dyer	629	928	2.0	62	1.5	1.5	2.2	1.5	13.2	2.07*
Epps	627	923	3.0*	80*	1.0	1.0	2.2	1.0	12.6	3.66
Essex	627	921	1.5	68	1.0	1.0	3.0	1.0	12.7	3.60
Forrest	624	929	1.5	68	1.0	1.0	1.8	1.5	11.8	3.50*
Graham	701	1001	2.0	69*	1.0	1.5	2.5	1.0	14.8	4.01
Harrel	706	927	3.5	101*	1.5	2.0	2.5	3.0	16.7	2.20
Hartwig	623	925	1.5	62	1.0	2.0*	1.8	1.5	12.2	3.24*
Hill	701	910	1.5	79	1.0	1.5	2.5	1.0	12.2	3.22
Hollybrook	623	928	2.0	55	1.5	3.0	2.5	1.0	11.7	1.19
KS5292	623	923	1.5	69	1.5	2.0*	2.0	1.0	12.0	3.33
Lexington	623	814	1.0	42	2.0*	3.5	4.2	1.5	11.2	1.32*
Luthy	625	925	2.5	68	2.0	3.0*	3.2	2.5	14.4	1.70*
Mack	629	919	2.5	78	1.0	1.5	2.0	1.0	13.5	3.26
Nansemond	706	923	4.0	106	1.5	1.5	2.8	3.0	18.1	2.07
Narrow	629	923	2.5	76	1.0	1.0	2.2	1.5	13.1	3.22
Nathan	629	917	3.0*	98	1.5	2.0*	2.2	1.5	13.6	3.58
Pace	629	927	3.0	108	1.5	1.5	2.2	1.5	14.0	3.18
Rhodes	625	1009*	1.5	98	1.0	1.0	2.5	1.0	13.0	3.51
S-100	616	915	3.5	134*	1.5	2.5*	3.2*	1.5	12.2	2.46
Shore	627	929	1.5	48*	1.0	1.0	2.5	1.0	12.2	1.61
TN 4-94	616	917	2.2*	113*	1.2	2.5	2.9*	1.3	13.8	3.08*
TN 5-85	621	925	1.5	63	1.0	1.0	2.2	1.5	12.3	2.72*
Toano	623	925	1.5	63	1.0	1.5	3.0	1.5	16.0	2.72*
Twiggs	629	925	2.2	87*	1.0	1.2	2.0	1.2	10.8	2.99
Vance	623	923	1.5	58	1.5	2.0*	2.2	1.0	9.1	2.86*
Walters	629	925	2.5	68	1.0	1.0	2.0	1.5	11.6	3.13
York	623	927	2.5	70	1.0	1.0	2.5	1.0	14.8	2.79
FC 30265	621	917	4.0	158	2.0*	3.5	3.2	2.5	11.6	1.82

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
(Peking)	V	44.5 <sup>w</sup>	14.1 <sup>w</sup>	12.5	2.9	16.9	57.5	10.2
(Virginia)	V	46.1 <sup>w</sup>	16.7 <sup>w</sup>	11.4	3.4	22.5	56.6	6.1
Accomac	V	40.7	21.2	11.4	3.5	25.7	54.2	5.2
Arlington	V	42.4 <sup>w</sup>	15.5 <sup>w</sup>	12.3	2.9	17.1	58.9	8.8
Austin	V	42.9 <sup>w</sup>	19.9 <sup>w</sup>	12.3	3.3	27.8	51.8	4.8
Bay	V	41.5	20.1	11.0	3.1	32.0	48.9	5.0
Bedford	V	40.9	19.6	11.8	3.7	23.9	54.4	6.2
Camp	V	43.9	17.2	11.1	4.3	15.4	61.1	8.2
Camp-lx2	V	43.0	17.1	12.5	4.2	15.5	59.5	8.3
Clifford	V	42.1	18.8	12.7	4.1	19.2	57.2	6.8
Cordell	V	37.4 <sup>w</sup>	18.4 <sup>w</sup>	12.8	3.3	22.9	54.9	6.1
Crowley	V	40.2 <sup>w</sup>	18.4 <sup>w</sup>	12.1	3.3	22.1	55.4	7.0
Dare	V	39.4	21.5	11.4	3.4	20.8	57.8	6.6
Delsoy 4900	IV	40.1	21.2	12.2	3.7	23.6	55.1	5.4
Delsoy 5500	V	40.6	20.8	11.6	3.8	20.9	57.6	6.1
Dixie	V	42.7 <sup>w</sup>	19.5 <sup>w</sup>	11.6	3.1	27.5	52.4	5.4
Donegal	V	42.3	18.4	12.1	3.2	21.7	56.3	6.6
Dorman	V	39.4	20.3	12.1	3.4	23.6	55.2	5.7
Dyer	V	40.3 <sup>w</sup>	19.2 <sup>w</sup>	12.1	3.3	30.2	49.9	4.5
Epps	V	43.0	19.3	12.9	3.7	23.8	53.6	6.0
Essex	V	43.5	19.4	12.4	3.6	20.8	56.2	7.0
Forrest	V	39.8 <sup>w</sup>	19.7 <sup>w</sup>	12.0	3.3	21.6	56.9	6.2
Graham	V	39.1	20.5	12.5	3.4	19.8	57.2	7.0
Harrel	V	43.8	18.5	12.5	3.6	22.7	54.0	7.2
Hartwig	V	42.0 <sup>w</sup>	19.4 <sup>w</sup>	12.4	3.3	19.5	57.6	7.1
Hill	V	39.0	21.6	12.5	2.9	26.2	52.9	5.5
Hollybrook	V	44.8	17.3	12.8	3.9	24.6	52.0	6.7
KS5292	V	42.7	19.8	12.8	3.7	19.1	58.3	6.1
Lexington	V	44.0 <sup>w</sup>	18.1 <sup>w</sup>	12.7	2.8	22.5	54.8	7.3
Luthy	V	43.9	19.1	12.7	3.7	23.5	54.5	5.7
Mack	V	41.1	21.1	13.5	3.9	22.2	54.4	6.0
Nansemond	V	45.4	18.2	12.4	3.8	29.6	48.4	5.7
Narrow	V	41.8	19.9	12.9	4.0	24.5	52.5	6.0
Nathan	V	40.4 <sup>w</sup>	20.4 <sup>w</sup>	12.6	3.6	23.6	54.6	5.5
Pace	V	46.0	17.6	14.0	3.2	21.5	54.9	6.4
Rhodes	V	41.6	20.3	12.6	3.6	28.0	49.7	6.1
S-100	V	46.7	17.6	13.8	4.1	25.9	50.5	5.7
Shore	V	42.0 <sup>w</sup>	19.8 <sup>w</sup>	12.1	3.6	25.6	52.7	5.9
TN 4-94	IV	41.9	20.8	11.5	3.9	29.2	50.4	5.0
TN 5-85	V	40.7	19.7	12.9	3.8	23.9	52.9	6.6
Toano	V	41.4	20.8	12.8	3.5	26.5	51.2	6.0
Twiggs	VI	41.6	18.7	12.8	3.3	19.9	57.1	6.9
Vance	V	42.4	18.5	12.3	3.2	19.5	58.4	6.6
Walters	V	41.1 <sup>w</sup>	19.7 <sup>w</sup>	12.0	3.6	18.4	58.8	7.1
York	V	41.4	19.9	12.5	3.5	25.5	52.6	5.9
FC 30265	V	43.9	18.6	13.9	4.2	25.9	49.6	6.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
FC 31572	Anwei	unknown	China	China	1939	V
FC 31683		unknown	unknown	unknown	1946	V
FC 31719		unknown	unknown	unknown	1947	V
FC 31721		unknown	unknown	unknown	1947	VI
FC 31731		unknown	unknown	unknown	1947	V
FC 31918		unknown	unknown	unknown	1948	V
FC 31934		unknown	unknown	unknown	1949	V
FC 31952		unknown	unknown	unknown	1950	V
FC 32176	Smith Super	unknown	unknown	unknown	1954	V
55089		unknown	unknown	unknown	1922	V
59845	Sohgetsu	Akita	Japan	Japan	1924	VI
60269	Black bean	Cholla Nam	South Korea	South Korea	1924	V
60273	Sixth Moon	Zhejiang	China	China	1924	V
60296	Loh yuih bah	Zhejiang	China	China	1924	V
62203		Hebei	China	China	1924	V
62204		Hebei	China	China	1924	V
65342		Heilongjiang	China	China	1925	V
71465		Jiangsu	China	China	1927	V
71667		Jiangsu	China	China	1927	VI
71677		Jiangsu	China	China	1927	VI
79832	N184	Heilongjiang	China	China	1929	V
80466	Okuro maru daizu	Hokkaido	Japan	Japan	1929	V
80498	O tsubu aojiro daizu	unknown	Japan	Japan	1929	V
81042	Kurakake daizu	Hokkaido	Japan	Japan	1929	V
81774		Akita	Japan	Japan	1929	V
81780S	(Tsurunoko)	Hokkaido	Japan	Japan	1929	V
82184S	(Pepute)	Seoul	South Korea	South Korea	1929	V
82286	Kon chote	Seoul	South Korea	South Korea	1929	V
82588	Kahei	Seoul	South Korea	South Korea	1929	V
83836	Zakkon	Hamgyong Nam	North Korea	North Korea	1930	V
83874	Chinuikon	unknown	North Korea	North Korea	1930	V
83942	Kuro churyu	Kyonggi	South Korea	South Korea	1930	V
84632S	(S-57)	Kyonggi	South Korea	South Korea	1930	V
84669	S-97	Kyonggi	South Korea	South Korea	1930	V
84734	LG-42	Kyonggi	South Korea	South Korea	1930	VI
84874	Br-45	Kyonggi	South Korea	South Korea	1930	V
84910	Tsurunoko	unknown	Japan	Japan	1930	V
84949	Chankon	Pusan	South Korea	South Korea	1930	V
85089	G-27	Kyonggi	South Korea	South Korea	1930	V
85252	B-89	Kyonggi	South Korea	South Korea	1930	V
85342	Y-30	Kyonggi	South Korea	South Korea	1930	V
85666S	(Hokkaido tsurunoko)	unknown	Japan	Japan	1930	V
86045S	(Kokuonshokuzu)	Hokkaido	Japan	Japan	1930	V
86078	Shoryu A	Hokkaido	Japan	Japan	1930	V
86084	Nanbu kuro saya	Hokkaido	Japan	Japan	1930	V
86113S	(Oyachi senshitsu dairyu)	Hokkaido	Japan	Japan	1930	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
FC 31572	V	D	W	G	E	Ssp	Br	I	Y	Y	Vhil	2N
FC 31683	V	N	W	G	Sa	N	Br	I	Y	Bf		4N
FC 31719	V	N	W	Ng	E	N	Br	I	Bl	Bl		4F
FC 31721	VI	N	P	T	Sa	N	Br	I	Br	Br		5F
FC 31731	V	N	W	G	E	N	Br	I	Y	Bf		2N
FC 31918	V	N	P	T	E	Ssp	Br	I	Y	Brbl		4N
FC 31934	V	N	P	Lt	Sa	N	Br	I	Bl	Bl		5F
FC 31952	V	N	P	G	E	N	Br	I	Y	Y		2N
FC 32176	V	N	W	G	E	N	Br	I	Gn	Bf		2N
55089	V	N	W	G	E	N	Tn	I	Y	Bf		2N
59845	VI	D	W	T	Sa	N	Br	I	Y	Br		3N
60269	V	N	W	G	E	N	Br	I	Y	Bf		3N
60273	V	N	P	T	E	Ssp	Br	S	Gn	Brbl	Vhil	3N
60296	V	N	W	G	E	Ssp	Br	I	Y	Bf	Vhil	4N
62203	V	N	W	G	Sa	N	Tn	I	Y	Bf		3N
62204	V	D	W	G	E	N	Br	I	Y	Bf		2N
65342	V	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
71465	V	N	W	T	E	Ssp	Br	S	Y	Brbl	Vhil	3N
71667	VI	N	P	T	A	Ssp	Br	D	Y	Y		3N
71677	VI	N	W	T	A	N	Br	D	Y	Y	Vhil	2N
79832	V	N	W	G	Sa	N	Br	I	Y	Bf		2N
80466	V	D	P	G	E	N	Br	I	Y	Bf		2N
80498	V	D	P	G	Sa	Dn	Br	D	Y	Bf		3N
81042	V	N	W	G	Sa	N	Br	I	Y	Bf		2N
81774	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Vsc	2N
81780S	V	D	P	G	E	Ssp	Br	I	Y	Bf	Vhil	3N
82184S	V	D	W	G	Sa	Ssp	Tn	I	Y	Bf		2N
82286	V	D	P	G	Sa	Ssp	Bl	I	Y	Bf		2N
82588	V	N	P	Lt	E	Ssp	Br	I	Y	Br		2N
83836	V	D	W	G	Sa	Ssp	Br	I	Y	Y		2N
83874	V	D	P	G	Sa	Ssp	Br	D	Y	Y		3N
83942	V	D	P	T	E	Ssp	Br	I	Y	Br		2N
84632S	V	N	W	G	E	N	Br	D	Gn	Bf	Wa	3N
84669	V	N	W	G	E	N	Br	D	Y	Bf		2N
84734	VI	N	W	Lt	A	N	Br	I	Y	Br		2N
84874	V	D	P	T	Sa	N	Tn	D	Gn	Gn		3N
84910	V	D	W	G	E	N	Br	I	Y	Y		3R
84949	V	D	P	G	Sa	N	Tn	D	Y	Y	Def	3N
85089	V	N	W	G	Sa	N	Tn	I	Y	Bf		2N
85252	V	D	W	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
85342	V	D	P	G	E	N	Bl	I	Y	Dbf		2N
85666S	V	D	P	G	E	Ssp	Tn	I	Y	Y		2N
86045S	V	N	P	T	E	N	Bl	I	Gn	Brbl	Vhil	2N
86078	V	D	P	T	Sa	N	Tn	I	Y	Y		3N
86084	V	N	P	G	E	N	Tn	I	Y	G	Vhil	2N
86113S	V	N	P	G	E	Ssp	Br	I	Y	Bf		3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
FC 31572	625	921	1.5	73	1.5	1.5	2.2	1.0	13.5	2.74
FC 31683	619	913	3.5	124	1.5	1.5	3.2	1.5	13.4	1.96
FC 31719	623	925	4.5	123*	2.0	4.0	2.5	--	12.2	1.40
FC 31721	703	1009	4.0	187	2.0	2.0*	3.8	--	10.5	1.54
FC 31731	616	914	3.5	131*	1.5	3.0*	3.0	1.5	11.5	2.09
FC 31918	619	927	4.5	120*	2.0	3.5	3.5	2.5	11.1	1.93
FC 31934	619	915	4.0	150	2.0*	3.5	3.8	--	11.8	2.34
FC 31952	705	923	4.5	143*	1.5	2.5	2.5	3.0*	17.6*	1.88
FC 32176	701	922	3.5	158*	1.5	2.5	2.8	1.0	12.8	2.62
55089	625	925	4.5	126	2.5	4.0	2.8	2.0	11.7	1.51
59845	621	1005	2.0	55*	2.0	2.0	3.2*	2.0	14.3	1.10*
60269	701	929	4.0	140*	1.5	3.0	2.2	1.5	13.2	1.16
60273	701	1003	4.0	141*	2.0	3.0	2.2	1.0	12.3	2.16
60296	619	918	4.0	122	3.0	4.5	3.2	1.5	15.2	2.13
62203	703	917	4.0	128	1.5	3.5*	2.8	1.0	10.2	2.25
62204	705	928	3.5	68	2.0	3.0	2.5	1.5	10.7	1.60
65342	619	925	1.0	42	1.5	4.0*	2.2	1.5	12.6	1.86
71465	617	923	4.0	122*	2.0	3.5	3.0	2.0	10.8	1.72
71667	629	1009	4.0	126	2.5	3.5	2.8	3.0	13.6	1.27
71677	625	1010	4.0	145	2.5	4.0	3.2	2.0	13.0	1.92
79832	623	910	3.5	120*	1.5	3.5	3.0	1.5	11.1	2.19
80466	629	919	1.5	66*	1.0	1.5	2.2	1.0	11.4	2.27
80498	621	927	2.0	50*	1.5	2.0	3.0	1.0	15.0	1.90*
81042	705	1001	4.0	131*	1.5	2.5	3.0	2.0	11.3	1.74
81774	619	927	1.5	47	1.5	2.0	2.5	1.5	18.1	1.72
81780S	623	915	1.0	56*	1.5	3.0	2.8	1.0	21.2	2.27
82184S	627	929	3.5	98*	1.0	1.5	3.0	1.0	12.4	1.95*
82286	627	922	3.5	56	2.0	3.5	3.2	2.5	7.7	1.08
82588	623	911	4.0	112*	2.0*	2.5	2.8	2.5	13.5	2.45
83836	621	919	2.0*	46	1.5	2.0*	2.2	2.0	10.0	1.66
83874	619	918	1.0	46	1.5	2.5	2.8	2.5	11.6	1.67
83942	701	918	3.0	75	1.5	3.0	2.5	2.5	10.0	2.30
84632S	618	907	4.0	116	2.5	4.0	3.5	1.5	14.7	1.35
84669	627	924	4.0*	133	2.0	3.5	3.0	2.0	14.0	1.71*
84734	611	1004	4.5	120*	2.0*	3.0	2.8	3.0	12.4	1.57
84874	621	927	2.5	59*	1.5	2.5	2.8	3.5	17.5	1.14
84910	623	913*	2.5	66	2.0*	3.0	3.0	1.0	16.2	2.18
84949	617	915	1.5	58*	1.5	2.5	3.0	1.0	13.4	2.00
85089	623	913	4.0	159*	2.0*	4.0	3.0	2.5	11.0	1.28
85252	622	921	1.5	48*	1.5	3.0	2.5	--	23.9	1.57
85342	622	922	2.5	62	3.0	4.0	3.5	2.5	8.7	0.86
85666S	623	926	2.5	64*	1.5	2.5	3.0	2.5	13.8	1.30
86045S	619	924	5.0	150*	2.0*	2.5	3.0	2.5	8.6	1.88
86078	701	1001	3.0*	66*	1.5	1.5	3.2	2.5	12.8	1.65
86084	624	926	5.0	140*	1.5	2.0	2.8	3.0	13.3	1.45
86113S	623	921	5.0	139*	2.0	4.0	2.8	1.5	17.5	1.98



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
FC 31572	V	44.2	17.6	12.4	3.4	24.0	53.9	6.3
FC 31683	V	41.4	21.2	13.9	3.9	25.9	51.0	5.3
FC 31719	V	44.1 <sup>w</sup>	17.4 <sup>w</sup>	12.5	3.4	19.8	55.8	8.5
FC 31721	VI	46.5 <sup>w</sup>	16.5 <sup>w</sup>	11.1	3.6	19.9	58.4	7.0
FC 31731	V	46.8	17.5	12.8	4.1	26.3	51.2	5.6
FC 31918	V	46.2	18.3	13.0	4.3	26.2	50.2	6.3
FC 31934	V	45.8 <sup>w</sup>	16.0 <sup>w</sup>	11.8	3.6	18.8	57.5	8.3
FC 31952	V	44.4 <sup>w</sup>	20.2 <sup>w</sup>	11.5	2.8	28.4	51.3	6.0
FC 32176	V	40.2 <sup>w</sup>	20.7 <sup>w</sup>	11.1	3.1	24.8	53.8	7.2
55089	V	41.8	20.1	12.3	3.0	23.7	54.2	6.9
59845	VI	41.7	18.1	12.2	3.6	18.5	59.0	6.6
60269	V	43.6	18.9	13.0	3.8	27.3	50.0	6.0
60273	V	41.9 <sup>w</sup>	20.3 <sup>w</sup>	10.6	3.6	27.2	52.2	6.4
60296	V	44.5	18.6	13.3	3.4	25.4	52.0	5.9
62203	V	40.6	19.8	13.3	3.7	27.3	49.8	5.9
62204	V	44.3	17.2	12.3	4.2	21.8	55.0	6.7
65342	V	43.8	18.1	13.0	3.7	24.9	52.2	6.3
71465	V	42.6	21.1	12.8	3.5	27.4	49.9	6.3
71667	VI	43.0	15.5	12.4	3.5	24.2	53.5	6.4
71677	VI	42.1	17.4	11.9	3.4	25.2	53.7	5.8
79832	V	46.4	18.3	12.6	3.6	22.3	55.1	6.3
80466	V	40.8	21.3	12.9	3.5	26.7	51.5	5.4
80498	V	45.1 <sup>w</sup>	17.8 <sup>w</sup>	13.1	3.0	25.1	52.3	6.6
81042	V	45.1	18.3	13.0	4.1	25.4	50.7	6.7
81774	V	42.3 <sup>w</sup>	19.9 <sup>w</sup>	11.0	3.0	23.2	56.2	6.5
81780S	V	42.9	20.8	11.9	3.1	26.5	52.1	6.4
82184S	V	44.3	19.0	11.9	4.1	18.7	59.1	6.2
82286	V	47.6	15.6	12.5	3.8	26.2	51.2	6.3
82588	V	40.4	21.5	13.8	3.6	23.6	53.7	5.3
83836	V	46.4	19.4	13.0	4.3	22.5	54.4	5.8
83874	V	43.7	18.6	12.1	4.0	17.2	59.8	6.9
83942	V	44.4	18.3	13.2	3.7	25.8	51.0	6.1
84632S	V	46.2 <sup>w</sup>	19.3 <sup>w</sup>	12.0	3.0	30.4	48.9	5.7
84669	V	45.4	17.3	13.1	3.3	28.2	49.8	5.5
84734	VI	41.8	18.8	12.4	3.4	22.6	55.8	5.9
84874	V	41.6 <sup>w</sup>	19.8 <sup>w</sup>	12.1	3.3	24.6	53.5	6.5
84910	V	45.8	19.8	12.3	3.0	24.4	55.1	5.2
84949	V	42.0	19.3	11.7	3.8	19.7	58.1	6.7
85089	V	50.1	18.5	12.9	3.5	33.2	45.3	5.1
85252	V	46.9 <sup>w</sup>	18.5 <sup>w</sup>	11.3	3.4	25.9	53.3	6.1
85342	V	48.6	13.8	12.9	4.0	23.7	52.3	7.1
85666S	V	45.8 <sup>w</sup>	15.9 <sup>w</sup>	11.9	3.2	19.8	56.8	8.3
86045S	V	40.9 <sup>w</sup>	18.6 <sup>w</sup>	11.8	3.2	27.7	51.8	5.6
86078	V	44.2	16.3	12.5	3.7	14.7	60.1	9.1
86084	V	41.5	20.5	11.7	4.3	22.3	56.0	5.7
86113S	V	41.8	18.2	12.3	2.8	44.2	35.3	5.4

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
86465	Itachi	Akita	Japan	Japan	1930	V
86543		unknown	unknown	unknown	1930	VI
86892	Purukomukon	Kyonggi	South Korea	South Korea	1930	V
86982	Kogendokon	Cholla Puk	South Korea	South Korea	1930	V
87037	Hingkongu	Kyongsang Puk	South Korea	South Korea	1930	V
87076	Oiarukon	Hwanghae Puk	North Korea	North Korea	1930	V
87542	Sodarikon	Pyongan Nam	North Korea	North Korea	1930	V
88490	Haouben	Northeast China	China	China	1930	V
88820	Heihokuta	Pyongan Puk	North Korea	North Korea	1930	V
89061		Northeast China	China	China	1930	V
89154S	(Chirumukon)	Hamgyong Puk	North Korea	North Korea	1930	V
90243	Koshu	Pyongan Nam	North Korea	North Korea	1930	V
90251		Seoul	South Korea	South Korea	1930	V
90481		unknown	China	China	1930	V
91100		Jilin	China	China	1931	V
91159S		Liaoning	China	China	1931	V
91646	Bidh el Hamay	unknown	unknown	unknown	1931	V
91725	Akazu	unknown	Japan	Japan	1931	V
92743		unknown	unknown	unknown	1931	V
93055S		Zhejiang	China	China	1931	V
95780		Kyongsang Puk	South Korea	South Korea	1932	V
95959		Kangwon	South Korea	South Korea	1932	V
96089		Pyongan Nam	North Korea	North Korea	1932	VI
96169		Hamgyong Puk	North Korea	North Korea	1932	V
96786		Hwanghae Puk	North Korea	North Korea	1932	V
96983		Hwanghae Puk	North Korea	North Korea	1932	V
97066		Hwanghae Puk	North Korea	North Korea	1932	V
97081		Hwanghae Puk	North Korea	North Korea	1932	V
103079	Shang tsai	Henan	China	China	1933	V
103419A		Heilongjiang	China	China	1933	V
123440		unknown	Myanmar	Myanmar	1937	VI
123577A		Hebei	China	China	1937	V
123587		Hebei	China	China	1937	V
123590		Hebei	China	China	1937	V
157394	Alki ball	Kyonggi	South Korea	South Korea	1947	V
157406	Chang tan	Kyonggi	South Korea	South Korea	1947	V
157413	Chu chou	unknown	Japan	Japan	1947	V
157422	Giant	Kyonggi	South Korea	South Korea	1947	V
157430	I chu tau chow	Kyonggi	South Korea	South Korea	1947	V
157432	Ic san	Kyonggi	South Korea	South Korea	1947	V
157440	Kin du	Kyonggi	South Korea	South Korea	1947	V
157443	Kum kang No. 6	Kyonggi	South Korea	South Korea	1947	V
157444	Kum kang dae ryu	Kyonggi	South Korea	South Korea	1947	V
157451	Medium green	Kyonggi	South Korea	South Korea	1947	V
157470	Ryuc u No. 3	unknown	Japan	Japan	1947	V
157473	Southern Prolific	Kyonggi	South Korea	South Korea	1947	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
86465	V	N	W	T	Sa	N	Tn	I	Y	Bl		2N
86543	VI	N	P	T	Sa	N	Tn	I	Y	Brbl	Vhil	2N
86892	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		2N
86982	V	N	P	G	A	N	Br	I	Y	Bf		2N
87037	V	N	P	T	E	N	Br	D	Y	Br		3N
87076	V	N	P	G	E	N	Tn	I	Y	Bf		3N
87542	V	D	P	G	Sa	Ssp	Br	S	Y	Y		2N
88490	V	N	W	G	E	N	Br	I	Y	Bf	Sdef	3N
88820	V	N	W	T	A	N	Tn	I	Y	Bl		2N
89061	V	S	W	Lt	E	N	Tn	I	Y	Br		3N
89154S	V	N	P	G	E	N	Br	I	Y	Ib		2N
90243	V	S	W	G	E	N	Br	I	Y	Bf	Sdef	2N
90251	V	S	W	G	Sa	N	Br	I	Y	Y		2N
90481	V	D	W	G	Sa	N	Br	I	Y	Y	Sdef	2N
91100	V	N	W	G	E	N	Br	I	Y	Y	Def	2N
91159S	V	N	W	G	E	Dn	Br	I	Y	Bf		2N
91646	V	N	W	G	A	N	Br	I	Y	Bf		2N
91725	V	N	W	G	E	N	Br	D	Y	Y		2N
92743	V	D	P	G	E	Ssp	Tn	I	Y	Bf	Sdef	2N
93055S	V	D	P	G	E	Ssp	Tn	I	Y	Ib	Vhil	2N
95780	V	D	P	G	E	N	Tn	I	Y	Bf		3N
95959	V	D	W	G	E	N	Br	I	Y	Y	Def	2N
96089	VI	N	W	G	Sa	Dn	Br	I	Y	Bf		2N
96169	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		2N
96786	V	N	P	G	E	Ssp	Br	I	Y	Ib	Vhil	2N
96983	V	D	W	G	E	N	Br	I	Y	Y	Vhil	2N
97066	V	N	P	G	Sa	N	Br	I	Y	Bf		3N
97081	V	D	W	G	E	N	Tn	I	Y	Bf	Vhil	2N
103079	V	D	W	G	E	N	Br	I	Y	Bf		3N
103419A	V	N	P	G	E	N	Br	D	Y	Y	Sdef	2N
123440	VI	N	P	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
123577A	V	D	P	G	E	N	Br	I	Y	Bf		2N
123587	V	N	P	G	E	N	Br	D	Y	Bf		3N
123590	V	N	W	G	Sa	N	Tn	D	Y	Y		2N
157394	V	D	W	G	E	N	Tn	D	Y	Bf	Def	2N
157406	V	N	W	G	A	Ssp	Lbr	I	Y	Bf		3N
157413	V	N	W	G	E	N	Br	I	Y	Bf	Sad	4F
157422	V	N	P	T	Sa	N	Br	I	Gnbr	Gnbr		4N
157430	V	D	P	G	Sa	Ssp	Br	I	Y	Y	Def	2N
157432	V	D	W	G	A	Ssp	Br	D	Y	Bf		3N
157440	V	D	W	G	E	N	Tn	I	Y	Bf	Vhil	2N
157443	V	D	P	G	E	N	Tn	I	Y	Y	Sdef	2N
157444	V	D	P	T	A	Ssp	Br	I	Gn	Br		1N
157451	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
157470	V	D	P	G	E	N	Br	I	Y	Bf	Def, Vhil	2N
157473	V	N	P	T	Sa	N	Br	I	Gnbr	Gnbr		4F

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
86465	703	927	4.5	135*	3.0	4.0	2.5	2.0	15.0	2.28
86543	627	1006	5.0	127	2.0	3.5	3.0	2.5	11.3	1.35
86892	625	924	3.5*	71*	1.5	1.5	2.5	2.5	14.8	1.15
86982	701	1001	5.0	147*	2.0	2.5	3.0	3.0	15.0	2.01
87037	627	1002	5.0	115*	3.0	3.0*	2.8	3.0	15.2	1.52
87076	625	1001	5.0	119	1.0	1.5	2.8	2.0	12.0	1.79
87542	623	917	1.5	68*	1.5	2.0*	2.2	1.0	14.4	2.22
88490	623	916	4.0	136*	2.5	3.5	3.5	2.0	19.7	2.31
88820	706	923	4.5	108*	3.0	4.0	2.5	2.0	16.2*	2.26*
89061	628	923	4.5	110*	2.5	3.0	3.2	3.0	16.5	1.56
89154S	627	919	4.5	111*	2.0*	2.5	3.0	1.5	15.1	1.68
90243	623	927	4.5	100*	2.0*	2.5	3.5	2.0	12.8	2.23
90251	623	927	4.5	155*	2.0	2.5	2.8	2.5	15.2	1.59
90481	624	911	2.5	75	2.0	4.0	2.8	1.5	15.0	1.61
91100	627	913	3.5	98*	1.5	3.0*	3.5	1.5	17.4	1.84
91159S	703	927	4.0	110	1.5	2.5	2.8	2.0	13.8	1.97
91646	701	925	4.0	145	1.5	3.0	2.8	1.5	14.4	1.96
91725	627	919	4.0	141	2.5	5.0	3.2	1.5	13.4	1.41
92743	623	910	2.0	68	1.5	5.0	2.8	1.5	13.6	2.43
93055S	627	925	2.0	57	1.5	2.0	2.5	1.0	12.0	1.59
95780	617	913	3.0*	88	1.5	2.0*	2.8	1.5	12.0*	2.11
95959	617	915	1.5	28*	1.5	2.0	3.5	1.5	20.8	0.93
96089	707	1009	4.5	136*	1.5	2.0*	3.0	2.0	9.5	0.99
96169	619	917	2.0	70*	1.5	2.5	3.0	2.0	16.9	2.13
96786	629	921	4.0	114	1.5	1.5	2.2	2.0	13.3	1.79
96983	622	917	2.0	68	1.5	1.5	2.2	1.0	15.0	2.69
97066	624	1001	4.5	154*	1.5	2.0*	3.0	1.0	11.1	1.42
97081	621	926	1.5	56	1.5	2.5	2.8	1.0	11.3*	1.42*
103079	619	917	2.5	73	1.5	3.0	2.2	3.0	8.1	1.99
103419A	621	914	4.0*	128*	1.5	3.0	3.2	2.0	17.3	1.83
123440	705	1005	4.0	180*	2.0*	4.0	3.0	2.0	10.9	0.96
123577A	621	915	4.0*	73	1.5	1.5	2.5	2.0	14.1	2.62
123587	623	920	4.5	133	1.0	1.5	3.0	2.0	13.0	1.66
123590	618	923	5.0	128*	2.5	5.0	3.5	2.5	24.4	1.22
157394	619	911	2.5	55	1.5	3.5	3.5	1.0	15.8	1.87
157406	709	1002	4.5	155*	1.5	2.5	3.8	2.0	19.7	1.69
157413	627	923	4.0	98*	1.5	2.5	2.8	--	5.5	0.27
157422	621	925	4.0	155	1.5	2.5	3.8	--	18.2	1.17
157430	624	913	2.5	63	1.5	2.5	3.0	1.5	19.0	1.94
157432	627	929	2.5	73	1.5	2.5	2.5	1.0	11.8	1.78
157440	701	929	3.0	88	1.5	1.5	2.8	2.0	13.0	1.82
157443	621	929	1.5	52*	1.5	3.0	2.5	1.0	15.8*	1.29
157444	621	922	2.5	47	2.0	2.0	2.8	1.0	14.5	0.89
157451	623	913	1.0	42	1.5	3.5	2.8*	1.5	17.7	1.32*
157470	625	919	3.0	56*	1.5	3.5	3.5	1.5	20.4	2.05
157473	621	925*	4.0	131*	1.5	2.0	3.8	--	17.4*	1.15

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
86465	V	42.5	17.7	11.5	2.9	36.3	44.3	5.0
86543	VI	43.9	16.8	12.2	3.7	27.7	50.6	5.8
86892	V	44.9 <sup>w</sup>	17.5 <sup>w</sup>	11.1	3.2	21.7	55.6	8.3
86982	V	41.3	18.5	10.9	3.3	29.5	51.0	5.2
87037	V	42.3	19.2	11.0	3.0	27.8	51.8	6.3
87076	V	41.8	17.2	10.7	3.4	23.2	55.1	7.6
87542	V	42.0	20.0	12.1	4.0	21.3	56.7	6.0
88490	V	44.0	19.1	12.5	3.0	30.6	48.5	5.3
88820	V	46.9	16.0	11.5	2.7	33.0	46.6	6.1
89061	V	39.7	19.5	12.8	3.1	21.9	55.4	6.8
89154S	V	41.2	21.4	10.7	4.1	35.2	45.3	4.7
90243	V	43.3	18.5	11.1	3.0	29.7	50.9	5.3
90251	V	44.0	18.3	11.2	3.8	29.1	50.6	5.3
90481	V	45.8	17.1	13.5	2.9	23.6	54.2	5.8
91100	V	44.3	20.0	12.1	3.1	28.1	50.9	5.8
91159S	V	43.3	17.5	12.5	3.4	23.9	53.2	6.9
91646	V	43.6	19.6	11.3	3.3	36.0	43.5	5.8
91725	V	44.4	18.8	12.4	3.4	30.1	48.7	5.4
92743	V	47.9	15.5	11.5	3.2	21.3	56.4	7.5
93055S	V	43.2	17.0	12.0	3.5	20.9	55.8	7.9
95780	V	42.4	18.6	12.8	3.4	19.8	56.5	7.5
95959	V	45.4	17.5	11.5	3.3	20.8	58.4	6.0
96089	VI	48.1	15.0	11.6	4.1	23.3	53.6	7.4
96169	V	43.6	19.4	11.0	3.0	31.5	48.9	5.6
96786	V	45.3	15.5	12.2	3.4	27.0	50.4	6.9
96983	V	47.8	15.0	13.3	3.1	18.6	56.6	8.4
97066	V	47.8	16.3	12.5	3.4	23.3	54.2	6.6
97081	V	43.2	17.9	11.9	3.3	20.1	58.6	6.1
103079	V	45.5	16.3	11.6	3.6	19.4	58.2	7.2
103419A	V	43.1	19.1	13.0	4.1	24.7	52.1	6.2
123440	VI	47.9 <sup>w</sup>	15.4 <sup>w</sup>	11.5	4.1	27.3	52.5	4.5
123577A	V	43.6	17.4	12.5	3.3	20.6	56.6	7.0
123587	V	43.7	16.0	12.5	3.4	26.5	50.7	6.8
123590	V	46.5	17.5	11.0	3.5	31.5	48.6	5.4
157394	V	45.1	19.5	11.6	3.3	22.8	56.7	5.7
157406	V	44.6	16.9	10.5	3.6	34.5	46.1	5.3
157413	V	45.8	11.9	13.1	3.7	17.2	57.1	8.8
157422	V	47.4 <sup>w</sup>	18.8 <sup>w</sup>	12.0	3.1	25.6	53.4	5.8
157430	V	46.4	18.6	12.2	3.4	29.9	49.4	5.1
157432	V	44.0	16.0	13.7	2.8	24.0	52.3	7.2
157440	V	42.1	18.7	11.8	3.5	21.1	57.0	6.6
157443	V	44.5	18.1	11.1	3.5	20.7	57.9	6.8
157444	V	40.7 <sup>w</sup>	19.5 <sup>w</sup>	10.6	2.4	26.9	52.1	8.1
157451	V	46.3	17.9	13.1	3.4	20.2	56.5	6.8
157470	V	45.0	17.8	12.4	3.2	25.1	53.5	5.8
157473	V	45.6 <sup>w</sup>	18.4 <sup>w</sup>	11.1	3.2	30.9	49.9	4.8

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
157478	Suwon No. 5	Kyonggi	South Korea	South Korea	1947	V
157484	Ul san	Kyonggi	South Korea	South Korea	1947	V
157493	So ran du	Kyonggi	South Korea	South Korea	1947	V
158751		unknown	South Korea	South Korea	1947	V
159319		Transvaal	South Africa	South Africa	1947	V
170893		Transvaal	South Africa	South Africa	1948	V
170895		Transvaal	South Africa	South Africa	1948	V
170896		Transvaal	South Africa	South Africa	1948	V
170899		Transvaal	South Africa	South Africa	1948	V
171430		Henan	China	China	1948	V
171442		Shaanxi	China	China	1948	V
172902		Corum	Turkey	Turkey	1949	V
179823	Changteh	Henan	China	China	1949	V
179825	Paoting	Hubei	China	China	1949	V
181543		unknown	Japan	Japan	1949	V
181544		unknown	Japan	Japan	1949	V
181545		unknown	Japan	Japan	1949	V
181546		unknown	Japan	Japan	1949	V
181547		unknown	Japan	Japan	1949	V
181558		unknown	Japan	Japan	1949	V
181562		unknown	Japan	Japan	1949	V
187155	Urusan	unknown	Japan	Japan	1950	V
196166		unknown	South Korea	South Korea	1951	V
196168	Baik tae	unknown	South Korea	South Korea	1951	V
196175	Yu tae	unknown	South Korea	South Korea	1951	V
196177	Yu tae	unknown	South Korea	South Korea	1951	V
200447	Akasome	Shikoku	Japan	Japan	1952	V
200450	Akita ani	Shikoku	Japan	Japan	1952	V
200468	Hachigatsu	Shikoku	Japan	Japan	1952	V
200472	Hang kao	unknown	China	China	1952	V
200503	Miyashiro jun	Shikoku	Japan	Japan	1952	V
200510	Nogoshi	Shikoku	Japan	Japan	1952	V
200534	Shironakafuto	Shikoku	Japan	Japan	1952	V
200546	Wada ani	Shikoku	Japan	Japan	1952	V
209333		Hokkaido	Japan	Japan	1953	VI
210179		unknown	Taiwan	Taiwan	1953	V
219780	Asahi No. 6	Hyogo	Japan	Japan	1954	V
219785	Ko No. 103	Hyogo	Japan	Japan	1954	V
219789	Shin No. 4	Hyogo	Japan	Japan	1954	V
221973	Kiyosato	unknown	Japan	Japan	1954	V
227158	Changtan	Kyonggi	South Korea	South Korea	1955	V
227159	Chungbuk	Kyonggi	South Korea	South Korea	1955	V
227160	Kumgang	Kyonggi	South Korea	South Korea	1955	V
227555	Akazaya No. 1	Hokkaido	Japan	Japan	1955	V
227557	Geden shirazu	Hokkaido	Japan	Japan	1955	V
227567	Nanguntakedate	Hokkaido	Japan	Japan	1955	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
157478	V	D	P	T	E	Ssp	Br	I	Y	Br	Vhil	2N
157484	V	D	W	G	A	Ssp	Br	D	Lgn	Bf		2N
157493	V	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	2N
158751	V	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
159319	V	N	W	G	Sa	N	Br	I	Y	Y		2N
170893	V	N	P	G	A	N	Br	I	Y	Bf		3N
170895	V	N	P	G	E	N	Br	I	Y	Bf	Vhil	3N
170896	V	N	P	Lt	A	Ssp	Tn	I	Bl	Bl		2N
170899	V	N	P	G	A	N	Br	I	Y	Bf	Vhil	3N
171430	V	D	W	G	E	N	Br	I	Gn	Bf		3N
171442	V	D	W	T	Sa	Ssp	Bl	D	Rbr	Rbr		2N
172902	V	D	W	T	E	N	Br	I	Lgn	Lgn		2N
179823	V	D	P	T	A	N	Br	I	Br	Br	St	2N
179825	V	D	P	T	A	N	Br	I	Bl	Bl		2N
181543	V	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	2N
181544	V	D	P	T	A	Ssp	Br	D	Y	Y	Sdef	2N
181545	V	D	P	T	Sa	Ssp	Br	I	Y	Tn	Vhil	2N
181546	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
181547	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
181558	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
181562	V	D	W	T	A	Ssp	Tn	D	Y	Br		2N
187155	V	D	W	G	E	Ssp	Br	D	Y	Y	Def	2N
196166	V	D	P	Lt	A	Ssp	Br	I	Bl	Bl	Snet	3N
196168	V	D	W	G	E	Ssp	Tn	D	Y	Bf	Vhil	2N
196175	V	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	2N
196177	V	D	P	G	E	N	Tn	I	Y	Y		2N
200447	V	D	P	T	E	N	Br	I	Rbr	Rbr		2N
200450	V	D	P	T	E	N	Br	I	Y	Br	Vhil	2N
200468	V	D	W	G	A	Ssp	Br	I	Y	Bf		2N
200472	V	D	P	G	E	Ssp	Tn	I	Y	Y		2N
200503	V	D	P	T	E	Ssp	Tn	D	Y	Br		2N
200510	V	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
200534	V	D	P	G	A	Ssp	Br	D	Y	Y	Def	3N
200546	V	D	P	T	A	Ssp	Br	I	Lgn	Br		2N
209333	VI	N	W	Lt	E	N	Br	I	Bl	Bl	Gnc	4N
210179	V	D	P	T	E	Ssp	Br	D	Y	Br		2N
219780	V	D	W	T	A	Ssp	Br	I	Y	Br	Sdef	2N
219785	V	D	W	G	A	Ssp	Br	I	Y	Bf		2N
219789	V	D	W	T	A	N	Br	I	Y	Br	Sdef	2N
221973	V	D	P	G	Sa	N	Br	I	Y	Bf		2N
227158	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
227159	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
227160	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
227555	V	D	W	T	A	N	Br	D	Y	Br	Vhil	2N
227557	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
227567	V	D	P	T	Sa	Ssp	Br	I	Gn	Brbl	Vhil	2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
157478	629	921	2.5	50	1.5	2.5	2.8	1.0	11.8	0.88
157484	705	927	3.5	65	2.0	3.0	2.5	1.0	11.9	1.57
157493	627	1002	2.0	50*	2.0	2.5	2.0	2.0	14.6	1.84
158751	627	1003	2.5	61	1.5	1.5	2.5	3.0	14.5	2.12
159319	705	1003	3.5	90*	1.5	2.0	3.2*	2.0	13.0*	0.25
170893	712	929	4.5	108*	1.5	2.0	2.8	1.0	14.4	0.82
170895	703	929	4.0	116	1.5	2.0	3.8*	2.5	16.6	2.08*
170896	623	914	4.5	105	1.5	2.0*	2.2	--	11.4	1.79
170899	714	929	4.5	122*	1.5	1.5	3.5	1.0	14.4*	0.81
171430	624	919	4.0	88	1.5	2.5	1.8	2.0	9.8	2.50
171442	629	925	3.5	85	2.0	3.5	2.2	--	12.2	1.21
172902	621	925	2.5	54	1.0	2.0	2.8	2.0	14.4	1.19
179823	619	919	3.0	56	1.0	3.0	2.5	--	20.1	1.41
179825	623	917	3.5	60*	2.0*	3.0	2.8	--	18.4	1.98
181543	619	919	3.0	64*	2.5	4.0	2.5	1.0	13.8*	1.12
181544	627	927	2.5	74	1.5	3.0	2.8	1.5	18.0	2.14
181545	619	926	1.5	53	1.5	3.0	2.5	2.0	14.4	1.27
181546	619	919	1.5	48*	1.5	3.0	3.2*	1.0	14.2	1.67*
181547	619	917	1.5	40	1.5	3.5	2.2	2.0	14.7	1.55
181558	619	919	1.5	56	1.5	2.0	2.5	1.0	14.0	1.58
181562	621	925	3.0	50	1.5	3.0	2.2	1.0	13.6	1.33
187155	617	921	2.5	46	2.0	3.5	3.8	1.5	22.7	1.66
196166	619	921	2.0	33	1.5	2.0	2.2	--	18.4	1.06
196168	624	918	2.5	61	1.5	2.5	2.8	2.0	19.2	1.93
196175	625	921	3.0	46	1.5	2.5	2.0	2.0	6.5	0.77
196177	617	911	1.0	35*	2.0*	4.5	1.8	2.5	5.8	2.23
200447	617	911	1.0	30	1.5	3.0*	2.2	--	6.8	2.06
200450	617	922	3.0	58	2.0	4.5	2.8	1.0	14.5	1.99
200468	627	1001	3.5	69	2.0	3.5	3.5	2.0	17.0	1.35
200472	621	916	2.5	45	1.5	3.0*	2.2	2.5	7.3	2.06
200503	629	920	3.5	67	2.0*	3.0*	2.2	2.5	9.4	1.78
200510	701	927	3.0	72	2.5	3.5	2.2	1.5	10.2	1.93
200534	623	907	2.0	68	1.5	4.0	3.2	2.5	18.4	2.74
200546	619	923	2.0	65	2.5	3.0*	2.8	1.0	15.4	2.28
209333	705	1005	5.0	175*	2.5	3.5	2.8	--	7.4	0.71
210179	709	916	4.0	96	2.5	5.0	2.5	2.5	9.8	1.57*
219780	621	1002	3.0	50	2.0	3.0	3.2	2.0	16.0	1.01
219785	621	917	1.5	38	2.0*	3.5	2.8	2.0	16.4*	1.08
219789	703	926	1.5	61	2.0	3.0	3.0	1.5	20.5	1.88
221973	619	929	2.0*	66*	1.5	2.0	2.5	3.0	14.7	1.39
227158	622	909	2.0	53	2.0*	3.5	2.8*	1.5	18.0	2.20
227159	620	908	1.5	48*	2.0*	3.5	3.0	2.0	17.7	1.93
227160	621	917	1.5	33*	1.0	2.0	3.8	2.0	22.9	0.79
227555	623	925	2.5	54*	1.0	2.5	3.0	1.0	14.2	1.36
227557	621	919	2.5	55	1.0	3.0	2.8	1.0	17.2	2.55
227567	618	923	1.5	47	1.5	2.5	3.0	1.5	12.0	1.18



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
157478	V	44.1	19.1	12.0	2.7	25.4	53.8	6.1
157484	V	43.2 <sup>w</sup>	18.7 <sup>w</sup>	12.6	2.8	19.6	57.6	7.3
157493	V	49.1 <sup>w</sup>	17.5 <sup>w</sup>	12.2	3.1	32.4	47.4	4.9
158751	V	47.3	17.3	12.4	3.5	22.5	55.5	6.0
159319	V	42.1	18.5	11.1	3.8	23.1	55.4	6.6
170893	V	44.4	16.5	12.3	3.8	23.7	53.3	6.9
170895	V	42.1	18.6	11.4	3.3	27.1	52.3	5.9
170896	V	43.6 <sup>w</sup>	17.8 <sup>w</sup>	12.5	3.5	20.2	56.7	7.1
170899	V	43.7	16.9	12.0	3.4	27.2	50.8	6.7
171430	V	44.8 <sup>w</sup>	17.0 <sup>w</sup>	11.5	3.2	19.6	57.9	7.7
171442	V	46.0 <sup>w</sup>	16.8 <sup>w</sup>	12.5	2.9	19.1	57.7	7.9
172902	V	48.2 <sup>w</sup>	16.8 <sup>w</sup>	13.1	3.0	18.8	57.4	7.7
179823	V	46.2 <sup>w</sup>	18.2 <sup>w</sup>	11.9	2.8	22.0	55.9	7.4
179825	V	46.8 <sup>w</sup>	16.5 <sup>w</sup>	12.9	2.8	20.2	55.6	8.6
181543	V	41.6	18.2	12.0	3.1	24.3	52.8	7.7
181544	V	42.4	19.2	11.5	2.8	28.7	50.7	6.2
181545	V	43.1	18.2	12.4	2.9	22.0	55.4	7.2
181546	V	40.6	18.7	11.5	2.8	27.1	52.3	6.2
181547	V	40.9	20.6	11.5	3.6	22.3	56.9	5.8
181558	V	41.1 <sup>w</sup>	19.0 <sup>w</sup>	11.0	2.7	34.9	45.3	6.1
181562	V	41.6	18.5	11.6	3.4	27.3	50.9	6.8
187155	V	44.3	17.7	12.3	2.8	26.1	52.6	6.2
196166	V	43.9 <sup>w</sup>	18.0 <sup>w</sup>	10.6	2.3	22.0	57.5	7.6
196168	V	42.4	19.9	11.2	3.4	24.2	55.3	5.9
196175	V	53.1	13.1	12.4	4.3	27.7	49.2	6.3
196177	V	45.2	17.2	11.8	4.1	21.4	56.4	6.2
200447	V	45.1 <sup>w</sup>	15.0 <sup>w</sup>	12.2	3.9	15.0	61.1	7.8
200450	V	42.7	17.9	11.8	3.3	23.2	54.8	6.9
200468	V	45.3	19.1	11.6	3.2	24.4	54.9	6.0
200472	V	44.2	18.2	12.2	3.6	18.8	58.2	7.2
200503	V	44.2	19.1	11.3	4.6	22.7	54.8	6.7
200510	V	45.8	17.1	12.4	3.2	18.7	57.0	8.7
200534	V	44.8	19.5	10.9	3.4	27.5	52.1	6.1
200546	V	43.2 <sup>w</sup>	17.8 <sup>w</sup>	12.3	3.2	19.4	57.1	8.0
209333	VI	44.1 <sup>w</sup>	15.1 <sup>w</sup>	12.1	3.1	28.7	50.1	6.1
210179	V	47.1	16.3	10.8	3.9	38.8	39.0	7.5
219780	V	44.0	17.9	12.2	3.8	25.9	52.6	5.4
219785	V	42.1	20.0	11.3	3.3	26.8	53.1	5.6
219789	V	42.8	17.6	12.4	3.2	21.9	55.6	6.9
221973	V	41.2	20.0	12.0	3.6	21.7	56.3	6.4
227158	V	43.4	19.1	12.8	2.9	26.8	52.3	5.1
227159	V	45.0	19.6	13.2	3.0	25.8	52.2	5.8
227160	V	45.2	18.1	11.3	3.5	25.0	54.6	5.6
227555	V	42.5	18.3	12.5	3.5	24.0	53.0	7.0
227557	V	42.3	19.7	11.9	3.2	27.9	52.0	5.0
227567	V	41.4 <sup>w</sup>	20.6 <sup>w</sup>	12.1	2.6	25.1	54.1	6.2

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
228064	Meguro No. 1	Aomori	Japan	Japan	1955	V
229315	Asahi nobo No. 48	Tohoku	Japan	Japan	1955	V
229335	Kinoshita mame	Tohoku	Japan	Japan	1955	V
229337	Kurosaya	Tohoku	Japan	Japan	1955	VI
229339	Meguro	Tohoku	Japan	Japan	1955	V
229346	Ojio	Kanto	Japan	Japan	1955	VI
229347	Ouu No. 4	Tohoku	Japan	Japan	1955	V
229350	Sakyuaomane	Tohoku	Japan	Japan	1955	V
235347		unknown	Japan	Japan	1956	IV
238928	Kanto No. 21	unknown	Japan	Japan	1957	IV
238929	Karihatakiya	unknown	Japan	Japan	1957	V
238932	Torinagane	unknown	Japan	Japan	1957	V
274422	Mitsumame	Miyagi	Japan	Japan	1961	V
274508		Fuijian	China	China	1961	V
303652	Liam zia tno	unknown	China	China	1965	V
319527	Pin tin hwang	unknown	China	China	1967	V
319528	Tjing juang	unknown	China	China	1967	IV
319532	Pin din kuaw	unknown	China	China	1967	IV
322693	Bicolor	unknown	Angola	Angola	1967	V
322694	Hernnon	unknown	Zimbabwe	Zimbabwe	1967	VI
322695	Bicolor do Cuima	unknown	Angola	Angola	1967	VI
324924	Rhosa	unknown	South Africa	South Africa	1968	V
339863A	Dongsan No. 6	Kyonggi	South Korea	South Korea	1969	V
339863B	(Dongsan No. 6)	Kyonggi	South Korea	South Korea	1969	V
339864B	(Banchongdoo)	Kyonggi	South Korea	South Korea	1969	V
339866	Chungtae	Kyonggi	South Korea	South Korea	1969	V
339867	Sunbijabikong	Kyonggi	South Korea	South Korea	1969	V
339869	Ajukarikong	Kyonggi	South Korea	South Korea	1969	V
339978		Kyonggi	South Korea	South Korea	1969	V
339979		Kyonggi	South Korea	South Korea	1969	V
339980		Kyonggi	South Korea	South Korea	1969	V
339982		Kyonggi	South Korea	South Korea	1969	V
339986		Kyonggi	South Korea	South Korea	1969	V
339988		Kyonggi	South Korea	South Korea	1969	V
339989		Kyonggi	South Korea	South Korea	1969	V
339992		Kyonggi	South Korea	South Korea	1969	V
339998		Kangwon	South Korea	South Korea	1969	V
339999		Kangwon	South Korea	South Korea	1969	V
340000	Jongsun	Kangwon	South Korea	South Korea	1969	V
340001		Kangwon	South Korea	South Korea	1969	V
340003		Kangwon	South Korea	South Korea	1969	V
340004		Kangwon	South Korea	South Korea	1969	V
340006		Kangwon	South Korea	South Korea	1969	V
340008		Kangwon	South Korea	South Korea	1969	V
340009		Kangwon	South Korea	South Korea	1969	V
340013		Chungchong Nam	South Korea	South Korea	1969	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
228064	V	D	P	T	Sa	Ssp	Br	I	Gn	Brbl	Vhil	2N
229315	V	D	W	T	A	N	Br	I	Y	Br	Sdef	2N
229335	V	D	W	T	A	N	Br	I	Y	Br		2N
229337	VI	D	P	T	A	Ssp	Bl	I	Y	Brbl	Vhil	2N
229339	V	D	P	T	Sa	N	Br	I	Lgn	Brbl	Vhil	2N
229346	VI	D	P	T	Sa	Ssp	Br	I	Y	Br	Sdef	2N
229347	V	D	P	G	A	Ssp	Br	I	Y	Y	Sdef	2N
229350	V	D	W	Lt	Sa	N	Bl	I	Gn	Br	Gnc	2N
235347	IV	D	W	G	A	Ssp	Br	S	Y	Y	Vhil	2N
238928	IV	D	P	T	A	N	Br	I	Y	Br		2N
238929	V	D	W	T	A	Ssp	Br	I	Y	Br	Sdef	2N
238932	V	D	W	T	A	Ssp	Br	I	Lgn	Br	Vhil	2N
274422	V	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	3N
274508	V	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
303652	V	N	P	T	Sa	N	Br	I	Bl	Bl	Sw	4F
319527	V	D	P	G	A	N	Br	I	Y	Bf		2N
319528	IV	D	P	G	E	N	Br	I	Y	Y		3N
319532	IV	D	W	G	E	Ssp	Br	I	Y	Bf		5N
322693	V	D	W	T	E	N	Br	D	Y	Br		2N
322694	VI	D	W	T	E	N	Br	I	Y	Br		3N
322695	VI	D	W	T	E	N	Br	D	Y	Br		2N
324924	V	N	P	G	Sa	Dn	Br	S	Y	lb		2N
339863A	V	D	W	G	A	Ssp	Br	D	Y	Bf	Vhil	2N
339863B	V	D	P	G	A	N	Br	I	Lgn	Lgn		2N
339864B	V	D	W	G	A	Ssp	Br	I	Y	Bf		2N
339866	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc	2N
339867	V	D	W	T	Sa	Ssp	Br	I	Gn	Bl	Sad	2N
339869	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
339978	V	D	P	T	Sa	Ssp	Br	I	Y	Y		2N
339979	V	D	P	T	E	Ssp	Br	I	Br	Br	Snet	3N
339980	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
339982	V	D	P	G	E	N	Tn	I	Y	Bf	Sdef	2N
339986	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
339988	V	D	P	G	Sa	Ssp	Br	I	Y	Bf	Def	3N
339989	V	D	P	T	E	Ssp	Br	I	Gn	Bl		2N
339992	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Sad	3N
339998	V	D	W	G	Sa	Ssp	Br	I	Y	Y	Sdef	2N
339999	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
340000	V	D	P	G	E	Ssp	Br	I	Y	Bf		2N
340001	V	D	P	G	E	Ssp	Br	I	Y	Y	Sdef	2N
340003	V	D	P	G	Sa	Ssp	Br	I	Y	Bf	Sdef	3N
340004	V	D	W	G	E	Ssp	Br	I	Y	Y	Sdef	2N
340006	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
340008	V	D	W	G	E	N	Tn	D	Y	Y		2N
340009	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
340013	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Sad	2F

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
228064	617	923	1.5	47	1.5	2.5	2.8	2.0	11.7	0.90
229315	625	1001	2.0*	50*	2.0	3.0	3.2	2.0	16.0	0.97
229335	629	927	1.5	65	2.5	3.0	2.5	1.5	18.8	1.73
229337	620	1005	3.0	75	2.0	3.0	2.8	3.5	14.8	1.02
229339	617	921	1.5	46	1.5	2.5	2.8	2.0	11.8	1.25
229346	619	1004	3.0	55	2.0	2.5	3.5	1.5	18.2*	1.16*
229347	623	915	2.0	60	2.0*	2.5*	3.0	1.5	21.3	2.59
229350	623	930	3.0	51	2.0*	3.0	2.5	3.0	9.3	0.99
235347	613	830*	4.0	90*	2.5	4.0	3.0	1.0	12.4	1.47
238928	619	830*	1.5	43	1.5	3.0	2.5	1.0	15.6	2.15
238929	619	909	1.0	46	2.5	4.0	3.2	1.5	15.3	1.53
238932	619	923	1.5	40	1.5	3.0	3.0	1.0	14.8	1.22
274422	623	1003	2.5	70*	2.5	3.5	2.8	1.0	17.6	1.61
274508	701	917	3.0	85	2.5	5.0	2.5	3.0	8.2	1.63
303652	709	921	4.5	150*	2.0*	3.0*	2.8	--	5.4	0.33
319527	701	911	3.0	90*	1.5	4.0	3.0	1.5	19.8	2.23
319528	609	731	1.5	46	1.5	4.0	4.2	2.0	17.2*	1.05
319532	619	828*	3.0	88*	2.5	4.0	3.5	1.5	13.4	0.89
322693	711	1003	4.5	114	2.0	2.5	3.5	2.5	13.4	1.20
322694	705	1004	4.5	102*	2.5	3.5	3.0	3.0	14.2	1.21
322695	705	1004	4.5	108*	2.5	2.5	2.8	2.5	12.8	1.36
324924	705	925	3.5	152	1.0	1.5	3.0	1.0	13.7	2.47
339863A	623	923	3.5	88*	2.0	4.0*	2.5	1.5	11.7	2.24
339863B	621	925	1.5	50	2.0	2.5	2.8	1.0	15.8	1.72
339864B	703	1001	3.0	83	2.0	2.0	2.8	1.5	17.6	2.03
339866	617	917	3.0	40*	1.5	3.0	3.0	1.0	20.5	1.44
339867	619	929	3.0	54	1.5	2.0	3.2	--	19.8	1.78
339869	622	923	3.0	51	1.5	1.5	3.0	--	17.4	1.32
339978	617	926	2.0	50	2.0	2.5	2.8	2.0	17.9	1.55
339979	619	1003	2.5	54	1.5	2.0	2.5	--	21.4	1.74
339980	623	915	1.5	58	2.0*	3.5	3.0	--	16.8	2.26
339982	623	913	2.5	69	2.5	4.5	3.0	1.0	15.2	2.92
339986	621	909	1.0	58	2.0*	3.5*	3.0	1.5	22.0	2.64
339988	703	929	2.5	66*	2.0	3.0	3.5	2.0	22.0*	1.71
339989	621	923	2.5	56*	2.5	4.0	3.0	1.0	24.2	1.98
339992	621	921	2.0	43	2.0	3.0	2.5	--	19.8*	0.89
339998	619	923	2.0	40	1.5	2.5	2.8	2.5	21.0	1.42
339999	619	919	2.0	42	1.5	2.5	2.2	1.5	12.7	1.54
340000	705	1003	3.0	59*	1.5	1.5	2.5	1.0	6.9	0.82
340001	619	1001	2.5	45	1.5	2.0	3.0	2.0	18.2	1.29
340003	621	917	2.5	51	1.5	3.5	3.0	1.0	14.4	2.46
340004	617	924	1.5	42	1.5	2.5	3.2	2.0	21.2	1.38
340006	619	930	2.0	32	1.5	2.0	2.8	1.5	18.2	1.02
340008	617	922	2.0	43	1.5	2.0	2.5	1.0	13.1	1.89
340009	621	923	2.5	42	1.5	1.5	2.2	2.0	12.9	1.43
340013	619	917	2.5	43	2.0*	2.5	2.8	--	19.2	1.20

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
228064	V	41.7 <sup>w</sup>	19.8 <sup>w</sup>	11.7	2.7	26.5	52.7	6.3
229315	V	43.7	17.6	13.1	3.7	22.1	54.5	6.6
229335	V	43.0	17.5	12.2	3.2	19.1	57.5	8.0
229337	VI	42.8 <sup>^</sup>	17.5 <sup>^</sup>	12.8 <sup>^</sup>	2.9 <sup>^</sup>	21.7 <sup>^</sup>	55.2 <sup>^</sup>	7.4 <sup>^</sup>
229339	V	39.8 <sup>^</sup>	20.2 <sup>^</sup>	12.3 <sup>^</sup>	2.6 <sup>^</sup>	27.5 <sup>^</sup>	51.6 <sup>^</sup>	5.9 <sup>^</sup>
229346	VI	44.5	15.7	11.1	3.6	23.1	55.4	6.8
229347	V	43.9	18.8	11.8	3.0	28.1	51.8	5.2
229350	V	40.6 <sup>^w</sup>	16.6 <sup>^w</sup>	11.2 <sup>^</sup>	3.2 <sup>^</sup>	28.2 <sup>^</sup>	51.9 <sup>^</sup>	5.5 <sup>^</sup>
235347	IV	43.7	20.2	12.0	3.6	30.3	48.2	5.9
238928	IV	38.4	21.1	12.1	2.8	25.5	54.5	5.0
238929	V	45.3	16.7	13.5	3.2	18.6	58.0	6.7
238932	V	40.7 <sup>^</sup>	18.8 <sup>^</sup>	11.9 <sup>^</sup>	2.9 <sup>^</sup>	27.3 <sup>^</sup>	51.7 <sup>^</sup>	6.2 <sup>^</sup>
274422	V	46.4	16.2	12.4	3.4	19.8	57.8	6.6
274508	V	50.4	13.3	13.0	4.3	25.5	49.0	8.2
303652	V	41.6 <sup>w</sup>	13.4 <sup>w</sup>	12.1	3.4	19.4	55.9	9.2
319527	V	43.7	17.6	14.2	3.1	28.6	47.8	6.3
319528	IV	42.1	19.4	14.3	4.0	25.1	50.9	5.7
319532	IV	42.2 <sup>^</sup>	18.5 <sup>^</sup>	13.7 <sup>^</sup>	3.5 <sup>^</sup>	20.2 <sup>^</sup>	55.1 <sup>^</sup>	7.4 <sup>^</sup>
322693	V	43.4	18.8	12.4	3.2	24.2	54.0	6.3
322694	VI	46.3	16.5	11.2	3.1	27.0	51.8	6.9
322695	VI	44.4	18.8	12.7	3.3	23.7	54.5	5.8
324924	V	38.4	20.1	11.7	3.5	20.0	57.0	7.8
339863A	V	42.4	18.1	12.9	2.9	18.8	58.2	7.2
339863B	V	42.0 <sup>w</sup>	20.0 <sup>w</sup>	11.8	2.7	20.4	57.8	7.4
339864B	V	44.1	18.3	13.3	3.6	24.9	52.6	5.6
339866	V	44.3 <sup>w</sup>	19.2 <sup>w</sup>	12.9	3.5	21.1	56.6	5.9
339867	V	44.7 <sup>w</sup>	17.9 <sup>w</sup>	14.0	4.6	25.5	49.5	6.5
339869	V	47.2 <sup>w</sup>	17.3 <sup>w</sup>	12.1	2.9	17.7	59.1	8.3
339978	V	45.0	17.6	12.5	3.3	28.2	51.2	4.8
339979	V	42.5 <sup>w</sup>	18.9 <sup>w</sup>	12.2	2.9	19.2	58.3	7.4
339980	V	47.5 <sup>w</sup>	17.4 <sup>w</sup>	14.0	3.3	15.8	59.5	7.4
339982	V	46.0	18.4	13.1	3.3	23.6	54.1	5.9
339986	V	45.8	18.7	13.1	3.1	20.7	57.5	5.6
339988	V	46.0	17.5	12.7	4.0	21.4	56.3	5.6
339989	V	42.0 <sup>w</sup>	20.8 <sup>w</sup>	12.9	3.0	33.3	45.1	5.7
339992	V	44.5 <sup>w</sup>	17.7 <sup>w</sup>	12.3	2.9	22.8	54.8	7.2
339998	V	41.2	19.1	12.0	3.1	21.6	57.1	6.2
339999	V	44.7	17.9	12.1	3.0	20.4	57.6	7.0
340000	V	49.2	13.3	12.5	3.4	20.6	55.4	8.1
340001	V	44.0	16.9	11.9	3.7	19.8	57.2	7.4
340003	V	42.3	19.7	10.7	2.9	21.6	58.9	5.8
340004	V	47.7	17.0	11.0	2.9	27.7	53.2	5.3
340006	V	43.1	18.8	11.5	2.9	23.3	55.9	6.4
340008	V	45.3	17.3	12.0	3.2	19.4	58.2	7.2
340009	V	45.1	16.4	12.0	3.2	21.4	56.3	7.1
340013	V	44.5 <sup>w</sup>	17.7 <sup>w</sup>	12.1	3.1	19.4	57.9	7.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
340014		Chungchong Nam	South Korea	South Korea	1969	V
340016		Chungchong Nam	South Korea	South Korea	1969	V
340019		Cholla Puk	South Korea	South Korea	1969	V
340021B		Cholla Puk	South Korea	South Korea	1969	V
340022		Cholla Nam	South Korea	South Korea	1969	V
340023		Cholla Nam	South Korea	South Korea	1969	V
340024		Cholla Nam	South Korea	South Korea	1969	V
340025		Cholla Nam	South Korea	South Korea	1969	V
340026		Cholla Nam	South Korea	South Korea	1969	V
340028		Cholla Nam	South Korea	South Korea	1969	V
340029		Cholla Nam	South Korea	South Korea	1969	V
340030		Cholla Nam	South Korea	South Korea	1969	V
340031B		Cholla Nam	South Korea	South Korea	1969	VI
340032		Cholla Nam	South Korea	South Korea	1969	V
340043		Kyongsang Puk	South Korea	South Korea	1969	V
340044		Kyongsang Puk	South Korea	South Korea	1969	V
340045		Kyongsang Puk	South Korea	South Korea	1969	V
340051		Kyongsang Puk	South Korea	South Korea	1969	V
342002	Gedenshirazu No. 1	unknown	Japan	Japan	1969	V
342003	Hankuho	unknown	Japan	Japan	1969	V
342434		Iwate	Japan	Japan	1969	V
346306		unknown	India	India	1969	V
346307		unknown	India	India	1969	IV
346308		unknown	India	India	1969	IV
346309		unknown	India	India	1969	V
355067S	(Kahala)	Hawaii	United States	United States	1970	V
355069S	(Kailua)	Hawaii	United States	United States	1970	V
355070S	(Mokapu Summer)	Hawaii	United States	United States	1970	V
371610		unknown	Pakistan	Pakistan	1972	V
371611		unknown	Pakistan	Pakistan	1972	IV
379618	TC 1	unknown	Taiwan	Taiwan	1973	V
381656	3H55 F4/9/1	unknown	Uganda	Uganda	1973	VI
381659	Bukalasa 2	unknown	Uganda	Uganda	1973	V
381662	Hernon 49	unknown	Uganda	Uganda	1973	VI
381663	Kakira 1	unknown	Uganda	Uganda	1973	VI
381664	Kakira 7	unknown	Uganda	Uganda	1973	V
381665	Kakira 8	unknown	Uganda	Uganda	1973	VI
381666	Kakira 9	unknown	Uganda	Uganda	1973	V
381667	Kakira 10	unknown	Uganda	Uganda	1973	V
381668	Kakira 13	unknown	Uganda	Uganda	1973	V
381669	Kakira 16	unknown	Uganda	Uganda	1973	V
381670	Kakira 18	unknown	Uganda	Uganda	1973	V
381671	Kawanda 5	unknown	Uganda	Uganda	1973	VI
381673	Kawanda 9	unknown	Uganda	Uganda	1973	VI
381674	Kawanda 11	unknown	Uganda	Uganda	1973	VI
381675	Kawanda 12	unknown	Uganda	Uganda	1973	VI

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
340014	V	D	P	G	A	Ssp	Bl	I	Gn	Bf		2N
340016	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
340019	V	D	W	T	Sa	N	Tn	I	Ggn	Bl	Vsc	1N
340021B	V	D	W	G	E	Ssp	Tn	I	Y	Y	Sdef	2N
340022	V	D	P	G	A	Ssp	Bl	I	Gn	Bf		2N
340023	V	D	P	G	E	Ssp	Tn	I	Y	Y	Sdef	2N
340024	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
340025	V	D	P	G	Sa	Ssp	Bl	I	Gn	Bf		2N
340026	V	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		2N
340028	V	D	W	G	E	N	Tn	I	Y	Y		2N
340029	V	D	P	G	A	Ssp	Br	I	Gn	Gn	Gnc	2N
340030	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
340031B	VI	D	P	G	A	Ssp	Br	S	Y	Bf		2N
340032	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
340043	V	D	W	G	E	Ssp	Br	I	Y	Bf	Def	2N
340044	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
340045	V	D	P	G	A	N	Br	I	Gn	Gn	Gnc, Vhil	2N
340051	V	D	W	G	Sa	Ssp	Tn	D	Y	Bf	Sdef	2N
342002	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
342003	V	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
342434	V	D	P	T	A	N	Bl	B	Bl	Bl	Flk, Sw	4N
346306	V	N	W	T	A	Sp	Bl	I	Br	Rbr		3F
346307	IV	D	P	G	Sa	N	Br	I	Y	Y		2N
346308	IV	D	P	T	E	N	Br	I	Y	Tn		2N
346309	V	S	P	T	A	Ssp	Tn	I	Y	Tn		3N
355067S	V	N	P	G	E	N	Br	D	Y	Y		2N
355069S	V	N	W	G	E	N	Br	D	Y	Y		3N
355070S	V	D	P	G	E	Ssp	Tn	D	Y	G		2N
371610	V	N	P	T	E	N	Br	D	Y	Bl		2N
371611	IV	N	P	T	E	N	Br	D	Y	Bl		2N
379618	V	D	P	T	Sa	N	Br	I	Y	Bl		2N
381656	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381659	V	D	W	G	A	N	Br	D	Y	Bf		2N
381662	VI	N	P	G	A	N	Br	I	Y	Bf		2N
381663	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381664	V	N	P	G	A	N	Br	I	Y	Ib	Vhil	3N
381665	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381666	V	N	P	G	A	N	Tn	I	Y	Ib		3N
381667	V	N	P	G	A	N	Tn	I	Y	Ib		3N
381668	V	N	P	G	A	N	Tn	I	Y	Ib		3N
381669	V	N	P	G	A	N	Br	I	Y	Ib	Vhil	3N
381670	V	N	P	G	A	N	Br	I	Y	Y	Vhil	3N
381671	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381673	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381674	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381675	VI	N	P	G	A	N	Br	I	Y	Bf		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
340014	621	918	2.5	65	2.0*	3.5*	2.0	3.5	9.4	1.84
340016	619	917	2.0	38*	1.5	3.5	3.5	2.5	20.0	1.66
340019	621	925	3.5	64*	1.5	2.0	2.2	2.0	8.2	1.20
340021B	617	924	2.5	50	1.5	2.0	3.0	2.0	20.0	1.76
340022	627	925	3.0	60	2.0*	2.5	2.5	2.0	7.6	1.61
340023	623	909	2.0	50	1.5	2.0*	3.5	2.0	19.2	2.51
340024	619	919	2.0	43	1.5	2.0	2.2	2.0	12.2	1.98
340025	621	915	2.5	66	2.0*	3.0*	2.2	3.0*	9.8	1.71
340026	621	922	3.5	59*	1.5	3.0	2.8	--	16.2	1.53
340028	619	921	2.0	37	1.5	2.5	2.0	1.5	12.2	1.93 <sup>^</sup>
340029	707	1001	1.5	56	1.5	2.0	2.5	1.0	11.7	1.23*
340030	619	925	1.5	48	1.5	1.5	2.0	1.0	12.8	1.72
340031B	701	1005	3.0	72	2.0	2.5	3.0	1.5	10.0	1.51
340032	619	920	1.5	40	1.5	2.5	2.2	1.5	12.8	1.52
340043	619	927	1.5	52	1.5	2.0	3.0	1.0	20.1	1.37
340044	619	919	1.5	45	1.5	2.5	2.5	2.0	12.2	1.70
340045	701	927	3.0	65	1.5	2.0	2.8	1.0	8.4	1.42
340051	617	913	2.0	58	2.0*	4.0*	3.5	1.0	16.0	2.20
342002	619	929	1.5	58	1.5	2.5	3.0	1.0	15.4	2.12
342003	621	929	2.0	60*	1.5	2.0	2.8	1.0	14.6	1.24
342434	728	1003	5.0	122*	2.0*	3.0	2.0	--	3.8	0.31
346306	621	918	5.0	175*	2.0*	3.0	3.2	--	9.6	1.19
346307	616	816	2.5	88	2.0*	3.0*	3.8	2.0	12.9	2.53*
346308	616	812	2.5	90	2.0*	3.5	3.2	2.5	12.5	1.72
346309	616	921	5.0	145*	2.5	4.5	2.8	3.0	11.6	1.32
355067S	623	909	4.0	113	1.5	2.5*	4.0	2.0*	16.0	2.12
355069S	618	917	4.0	120	1.5	3.5	3.5	2.0	18.0	2.09
355070S	623	911	1.5	58*	1.5	2.0*	3.0	1.0	16.4	2.93
371610	616	907	2.0	112	2.0*	2.5*	3.2*	1.0	14.4	3.11*
371611	616	901*	2.0	97	2.0*	2.5*	2.5	1.0	14.6	2.93
379618	711	925	3.5	112*	2.5	3.0	2.8	3.0	12.2	1.21
381656	717	1005	4.5	118*	2.0	2.5	3.0	1.0	11.6	0.74
381659	712	923	4.5	96	2.0*	4.5	2.8	1.0	17.8	2.11
381662	715	1005	4.5	132*	1.5	2.0	3.2*	1.0	13.0	1.07
381663	712	1004	4.5	115*	1.5	2.0	3.0	4.0	14.2	1.05
381664	712	929	4.5	117	1.5	2.0	3.2	1.0	12.4	1.31
381665	712	1005	4.5	145	1.5	1.5	3.5	3.5	15.0	1.57
381666	709	1002	4.5	138	1.5	1.5	2.8	1.0	13.4	2.00
381667	712	929	4.5	126	1.5	2.0	3.0	1.0	11.8	1.29
381668	712	930	5.0	144*	1.5	2.0	3.0	1.0	12.2	1.35
381669	707	929	4.5	142*	1.5	2.0	3.0	1.0	13.5	1.34
381670	701	930	4.5	142*	1.5	2.5	3.0	2.5	14.4	1.99
381671	719	1008	4.5	125	1.5	2.5	2.5	1.0	12.4	1.17
381673	717	1008	4.5	130	1.5	2.5	2.5	1.0	12.7	1.28
381674	709	1008	4.5	110*	1.5	2.0	2.8	2.0	14.6	1.06
381675	721	1008	4.5	150*	1.5	2.5	2.8	1.0	13.5	0.79



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
340014	V	43.6 <sup>w</sup>	17.0 <sup>w</sup>	13.0	3.2	18.1	58.2	7.6
340016	V	41.5 <sup>w</sup>	19.3 <sup>w</sup>	10.9	2.9	24.3	54.3	7.6
340019	V	47.8 <sup>w</sup>	16.5 <sup>w</sup>	13.0	3.7	28.8	49.4	5.1
340021B	V	41.3	18.6	11.2	3.1	21.2	58.4	6.0
340022	V	42.4 <sup>w</sup>	16.9 <sup>w</sup>	12.1	2.8	17.4	60.4	7.3
340023	V	43.2	21.1	11.9	3.0	36.8	43.8	4.4
340024	V	45.2	17.4	12.1	3.2	18.2	59.1	7.4
340025	V	43.4 <sup>w</sup>	17.1 <sup>w</sup>	12.2	3.4	19.4	58.3	6.7
340026	V	43.2 <sup>w</sup>	19.1 <sup>w</sup>	12.0	3.4	22.0	56.1	6.5
340028	V	43.2	18.0	12.6	3.4	18.3	58.4	7.3
340029	V	45.3 <sup>w</sup>	16.1 <sup>w</sup>	11.9	3.1	19.2	57.6	8.3
340030	V	45.2	17.0	12.6	3.3	18.8	57.7	7.7
340031B	VI	43.9 <sup>w</sup>	16.2 <sup>w</sup>	14.0	3.4	22.4	52.9	7.3
340032	V	45.1	17.4	12.0	3.1	17.7	59.5	7.7
340043	V	45.8	17.3	10.9	3.5	22.2	57.0	6.5
340044	V	45.5 <sup>w</sup>	17.8 <sup>w</sup>	13.0	2.8	18.3	58.3	7.6
340045	V	45.0 <sup>w</sup>	16.9 <sup>w</sup>	11.7	3.6	22.6	54.5	7.5
340051	V	44.2	18.7	11.6	2.9	20.8	58.5	6.2
342002	V	41.5	19.6	11.3	3.0	21.6	58.1	6.0
342003	V	44.0	16.4	12.8	3.1	20.3	56.0	7.8
342434	V	52.1 <sup>w</sup>	10.1 <sup>w</sup>	13.5	4.9	22.0	50.9	8.7
346306	V	43.9 <sup>w</sup>	18.0 <sup>w</sup>	11.9	3.6	23.2	55.3	5.9
346307	IV	42.4	18.7	12.6	3.1	22.9	54.7	6.8
346308	IV	45.0	15.7	13.3	3.4	20.7	55.8	6.8
346309	V	44.8	16.5	11.6	3.5	20.2	57.6	7.1
355067S	V	42.5	21.1	11.0	3.8	30.0	50.2	5.0
355069S	V	46.5	19.0	11.5	3.6	27.4	52.2	5.3
355070S	V	41.6	19.7	12.4	3.9	20.0	57.0	6.6
371610	V	41.6	21.7	11.4	4.5	19.6	58.2	6.2
371611	IV	40.8	21.4	11.6	4.5	18.7	59.1	6.2
379618	V	42.4	17.3	12.6	3.7	27.5	50.3	5.8
381656	VI	43.5	15.5	12.5	3.7	22.8	54.0	7.0
381659	V	43.9	17.7	12.2	3.1	23.5	54.8	6.4
381662	VI	44.6	15.0	12.3	3.7	22.4	54.2	7.5
381663	VI	47.0 <sup>w</sup>	16.6 <sup>w</sup>	14.4	4.1	21.5	53.5	6.5
381664	V	45.0	16.7	13.1	4.0	24.8	51.9	6.3
381665	VI	44.8	16.4	13.2	3.9	19.8	55.9	7.1
381666	V	43.7	18.0	12.7	3.4	22.0	55.1	6.8
381667	V	43.5	18.2	11.4	3.9	30.1	49.0	5.5
381668	V	43.5	18.2	12.8	4.4	21.3	54.7	6.9
381669	V	42.6	17.8	11.8	4.0	28.2	50.2	5.8
381670	V	41.8	20.0	11.7	3.4	29.4	49.5	6.0
381671	VI	44.1	15.4	12.5	3.6	20.9	55.4	7.6
381673	VI	44.4	15.6	12.1	3.6	27.9	49.8	6.6
381674	VI	44.8	16.3	12.3	3.9	26.0	51.1	6.6
381675	VI	44.9	15.3	12.2	3.9	26.9	50.5	6.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
381676	Kawanda 14	unknown	Uganda	Uganda	1973	VI
381677	Kawanda 16	unknown	Uganda	Uganda	1973	VI
381678	Kawanda 18	unknown	Uganda	Uganda	1973	VI
381684	S38	unknown	Uganda	Uganda	1973	VI
381685	X B1	unknown	Uganda	Uganda	1973	VI
385943	Missuzi	Nagano	Japan	Japan	1974	V
391597	Niu mao huang	Shaanxi	China	China	1974	V
398183		Seoul	South Korea	South Korea	1975	V
398184		Seoul	South Korea	South Korea	1975	V
398186		Seoul	South Korea	South Korea	1975	V
398187		Seoul	South Korea	South Korea	1975	V
398189		Seoul	South Korea	South Korea	1975	V
398193		Seoul	South Korea	South Korea	1975	V
398195		Seoul	South Korea	South Korea	1975	VI
398196		Seoul	South Korea	South Korea	1975	V
398203		Seoul	South Korea	South Korea	1975	V
398207		Seoul	South Korea	South Korea	1975	V
398209		Seoul	South Korea	South Korea	1975	V
398210		Seoul	South Korea	South Korea	1975	V
398212		Seoul	South Korea	South Korea	1975	V
398213		Seoul	South Korea	South Korea	1975	V
398216		Seoul	South Korea	South Korea	1975	V
398217		Seoul	South Korea	South Korea	1975	V
398218		Seoul	South Korea	South Korea	1975	V
398219		Seoul	South Korea	South Korea	1975	V
398238		Kyonggi	South Korea	South Korea	1975	V
398239		Kyonggi	South Korea	South Korea	1975	V
398240		Kyonggi	South Korea	South Korea	1975	V
398241		Kyonggi	South Korea	South Korea	1975	V
398246		Kyonggi	South Korea	South Korea	1975	V
398253		Kyonggi	South Korea	South Korea	1975	V
398255		Kyonggi	South Korea	South Korea	1975	V
398259		Kyonggi	South Korea	South Korea	1975	V
398262		Kyonggi	South Korea	South Korea	1975	V
398263		Kyonggi	South Korea	South Korea	1975	V
398264		Kyonggi	South Korea	South Korea	1975	V
398266		Kyonggi	South Korea	South Korea	1975	V
398269		Kyonggi	South Korea	South Korea	1975	V
398277		Kyonggi	South Korea	South Korea	1975	V
398279		Kyonggi	South Korea	South Korea	1975	V
398280		Kyonggi	South Korea	South Korea	1975	V
398284		Kyonggi	South Korea	South Korea	1975	V
398285		Kyonggi	South Korea	South Korea	1975	V
398286		Kyonggi	South Korea	South Korea	1975	V
398287		Kyonggi	South Korea	South Korea	1975	V
398288		Kyonggi	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
381676	VI	N	P	G	A	N	Br	I	Y	Bf		3N
381677	VI	N	P	G	A	N	Br	I	Y	Bf		2N
381678	VI	N	P	G	A	N	Br	I	Y	Bf		2N
381684	VI	N	P	G	A	N	Br	I	Y	Ib	Vhil	4N
381685	VI	N	P	G	A	N	Br	I	Y	Ib		3N
385943	V	D	W	G	A	Ssp	Br	D	Y	Y	Sdef	2N
391597	V	D	W	T	Sa	Ssp	Br	I	Y	Lbr		2N
398183	V	D	P	T	A	Ssp	Bl	I	Bl	Bl		2N
398184	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398186	V	D	W	T	Sa	Ssp	Bl	I	Gn	Bl		2N
398187	V	D	P	G	E	Ssp	Tn	I	Y	Bf		3N
398189	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398193	V	D	W	G	E	N	Tn	D	Y	Bf		3N
398195	VI	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
398196	V	D	P	T	A	Ssp	Br	I	Gn	Br	Gnc	3N
398203	V	D	P	T	Sa	Ssp	Br	I	Br	Br	St	2N
398207	V	N	P	T	Sa	Ssp	Br	I	Y	Y		3N
398209	V	D	P	G	E	Ssp	Br	I	Gn	Bf	Gnc	2N
398210	V	D	P	G	Sa	Ssp	Bl	I	Gn	Gn	Gnc, Vhil	2N
398212	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398213	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398216	V	D	P	T	Sa	Ssp	Tn	I	Gn	Gn		2N
398217	V	D	W	T	E	N	Bl	I	Gn	Bl	Gnc	2N
398218	V	S	P	T	E	Ssp	Br	I	Gn	Bl		3N
398219	V	D	P	T	Sa	N	Bl	I	Gn	Bl		2N
398238	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
398239	V	D	P	T	Sa	Ssp	Br	I	Gn	Br		2N
398240	V	D	P	T	E	Ssp	Br	D	Gn	Bl		2N
398241	V	D	P	T	E	Ssp	Br	D	Gn	Br	Gnc	2N
398246	V	D	P	Lt	A	Ssp	Br	I	Bl	Bl	Snet	3N
398253	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Sad	2F
398255	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
398259	V	N	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398262	V	D	P	G	Sa	Ssp	Br	D	Gn	Bf		2N
398263	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
398264	V	N	P	T	A	Ssp	Br	I	Bl	Bl		2N
398266	V	D	P	G	Sa	Ssp	Br	I	Gn	Bf	Gnc, Vhil	2N
398269	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398277	V	D	P	T	E	Ssp	Br	D	Gn	Gn	Gnc, Sdef	2N
398279	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Def, Gnc	3N
398280	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc, Sdef	3N
398284	V	D	W	G	E	N	Br	D	Y	Y		2N
398285	V	D	P	G	E	N	Br	I	Y	Y		2N
398286	V	D	P	T	E	Ssp	Br	D	Bl	Bl		3N
398287	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
398288	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
381676	717	1008	4.5	144	1.5	2.5	3.0	2.0	13.8	1.50
381677	717	1008	4.5	145*	1.5	2.0	2.8	1.0	12.1	1.26
381678	715	1008	4.5	138	1.5	2.0	2.8	1.0	12.8	0.98
381684	711	1004	4.5	123	1.5	2.5	3.0	2.0	14.4	1.90
381685	709	1004	5.0	145*	1.5	2.0	2.8	1.0	11.4	1.20
385943	619	926	2.5	55	2.0*	2.5	2.8	1.0	21.2	2.10*
391597	619	919	2.5	48	1.5	2.0	2.8	1.0	8.6	1.25
398183	619	919	3.0*	55	2.0*	4.0	2.5	--	11.9	1.63
398184	621	927	3.5	43	1.5	2.0	2.2	--	23.9	1.50
398186	627	927	4.0	60	3.0	4.5	2.8	3.0	8.5	1.53
398187	621	923	3.0	66*	1.5	5.0	2.8	1.0	11.5	1.56
398189	621	921	2.0	46	1.5	2.0*	2.5	1.0	12.1	1.63
398193	613	922	2.0	42	1.5	3.5	2.5	1.0	12.4	1.67*
398195	623	1006	3.0	64	2.0*	2.0*	2.8	--	13.8	1.07
398196	623	924	3.0	49	2.0	4.0	3.0	2.0	10.9	1.50
398203	617	923	2.0	48	2.0	3.0	2.0	--	18.2	2.01
398207	613	927	4.5	140	2.0	4.0	2.8	2.5	12.8	1.35
398209	621	925	2.5	60*	1.5	2.0	2.2	1.0	16.8	1.45
398210	619	919	2.0	56	2.0*	2.5	2.5	2.5	16.9	2.52
398212	619	928	2.5	49*	1.5	2.0	3.0	--	22.6*	1.08
398213	617	919	2.0	42	1.5	3.0	2.5	--	11.6	2.00
398216	621	924	4.0	58	2.0	3.0	2.5	2.5	9.5	1.45*
398217	711	929	4.0	65	2.5	3.5	2.8	2.5	7.3	1.14
398218	627	925	5.0	95	2.0	3.0	3.0	4.0	8.6	1.02
398219	629	925	4.5	62	2.0*	3.0	2.5	3.0	7.3	1.09*
398238	621	1001	2.5	57	2.0*	2.5	3.0	1.0	30.4*	1.89
398239	621	922	3.5	50	1.5	3.0	3.5	2.0	19.4	1.40
398240	619	929	2.5	48	2.5	3.5	2.8	1.0	30.4	1.85
398241	621	923	2.5	60	1.5	2.0	2.8	1.5	18.2	1.54
398246	619	923	2.5	46	1.5	2.5	3.0	--	16.6	2.27
398253	621	918	2.0	44	1.5	2.5	2.5	--	20.3	1.64
398255	617	915	3.0	45	1.5	2.0*	2.5	1.0	8.0	2.36
398259	619	917	4.5	111	1.5	4.5	2.2	--	12.4	1.85
398262	621	929	2.5	48	1.5	3.0	2.8	3.0	20.9	1.58
398263	619	1002	2.5	58	3.0	3.5	3.5	1.0	32.9	1.55
398264	617	923	5.0	119	2.5	3.0	2.5	--	13.4	2.35*
398266	613	916	1.5	52	1.5	3.5	3.0	1.0	17.8	1.28
398269	619	918	3.0	46	1.5	2.5	2.5	1.0	7.0	2.41
398277	619	921	2.0	52	2.0*	2.5	3.5	1.0	20.9	1.44
398279	619	919	2.0	42	1.5	3.0	3.5	1.0	19.9	2.03
398280	611	918	2.0*	36	2.0*	3.5	3.2	1.0	14.3	1.49
398284	621	922	2.5	43	1.5	1.5	2.8	1.5	11.8	1.67
398285	621	917	2.5	57	1.5	1.5	3.0	1.0	15.4	2.34
398286	614	927	2.0	34	2.0	3.0	3.2	--	20.9	1.19
398287	616	927	1.5	37	2.5	3.0	3.0	--	19.6	1.25
398288	624	923	2.0	40	1.5	2.5	2.5	--	19.0	1.93

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
381676	VI	43.9	16.1	12.8	4.0	21.6	54.5	7.2
381677	VI	45.4	14.9	12.8	4.0	22.9	52.9	7.5
381678	VI	45.0	15.3	13.1	3.9	21.2	54.5	7.4
381684	VI	43.0	18.7	11.8	3.7	24.7	54.0	5.9
381685	VI	44.6	16.8	11.7	3.6	24.7	53.0	7.1
385943	V	41.6	18.0	11.2	2.8	28.9	50.7	6.3
391597	V	45.3 <sup>w</sup>	16.7 <sup>w</sup>	11.5	3.7	13.7	62.4	8.6
398183	V	47.7 <sup>^w</sup>	15.1 <sup>^w</sup>	12.2	2.8	19.3	58.9	6.8
398184	V	44.6 <sup>w</sup>	19.5 <sup>w</sup>	10.7	3.3	21.3	58.3	6.5
398186	V	47.5 <sup>w</sup>	14.2 <sup>w</sup>	12.5	3.7	16.0	59.8	8.0
398187	V	48.5	15.1	11.8	3.3	20.6	57.7	6.5
398189	V	44.6	17.5	11.9	3.3	18.1	59.0	7.7
398193	V	45.3	17.6	12.1	3.6	20.2	57.3	6.7
398195	VI	43.5 <sup>w</sup>	19.1 <sup>w</sup>	10.6	2.9	27.3	52.3	6.9
398196	V	47.7 <sup>w</sup>	16.4 <sup>w</sup>	13.9	3.3	17.7	57.7	7.3
398203	V	46.2 <sup>w</sup>	19.7 <sup>w</sup>	12.0	3.0	24.9	54.7	5.4
398207	V	45.2	17.9	11.9	3.7	28.5	50.0	5.9
398209	V	47.8 <sup>w</sup>	17.0 <sup>w</sup>	14.0	5.8	19.9	53.1	7.1
398210	V	41.8 <sup>w</sup>	20.1 <sup>w</sup>	10.9	3.1	21.4	58.3	6.3
398212	V	44.7 <sup>w</sup>	18.4 <sup>w</sup>	12.5	3.1	21.4	56.5	6.6
398213	V	44.5 <sup>w</sup>	17.5 <sup>w</sup>	12.3	3.2	18.9	59.1	6.5
398216	V	47.8 <sup>w</sup>	16.4 <sup>w</sup>	14.2	3.3	19.4	56.8	6.4
398217	V	47.7 <sup>w</sup>	15.7 <sup>w</sup>	11.9	4.0	29.5	49.1	5.5
398218	V	47.1 <sup>w</sup>	16.2 <sup>w</sup>	11.3	3.9	22.3	56.5	6.1
398219	V	49.6 <sup>w</sup>	15.0 <sup>w</sup>	12.4	3.5	20.9	56.2	6.9
398238	V	42.9 <sup>w</sup>	19.3 <sup>w</sup>	12.5	2.9	30.7	47.5	6.4
398239	V	45.7 <sup>w</sup>	17.6 <sup>w</sup>	13.3	3.7	23.5	51.5	8.0
398240	V	45.9 <sup>w</sup>	19.2 <sup>w</sup>	12.8	2.8	28.6	49.5	6.3
398241	V	47.7 <sup>w</sup>	18.1 <sup>w</sup>	12.9	3.5	18.7	57.4	7.4
398246	V	44.2 <sup>w</sup>	18.3 <sup>w</sup>	13.7	3.8	17.8	57.0	7.6
398253	V	44.6 <sup>w</sup>	17.4 <sup>w</sup>	12.9	3.6	19.1	56.6	7.8
398255	V	46.4	17.5	12.9	3.5	22.6	55.4	5.6
398259	V	43.1 <sup>w</sup>	19.0 <sup>w</sup>	12.8	3.2	18.7	57.8	7.5
398262	V	43.7 <sup>w</sup>	18.6 <sup>w</sup>	12.8	3.1	21.1	55.7	7.3
398263	V	46.3 <sup>w</sup>	18.6 <sup>w</sup>	11.9	2.9	32.0	47.3	5.9
398264	V	47.4 <sup>w</sup>	17.4 <sup>w</sup>	10.7	3.0	26.4	54.5	5.5
398266	V	45.2 <sup>w</sup>	18.4 <sup>w</sup>	11.2	3.4	22.1	56.9	6.3
398269	V	45.7	17.5	12.7	3.3	22.1	56.0	5.8
398277	V	47.2 <sup>w</sup>	18.0 <sup>w</sup>	12.1	3.3	24.8	53.8	6.0
398279	V	45.6 <sup>w</sup>	17.5 <sup>w</sup>	12.0	4.0	17.6	59.7	6.7
398280	V	46.3 <sup>w</sup>	18.4 <sup>w</sup>	10.9	3.6	18.3	60.0	7.2
398284	V	45.7	16.6	12.6	3.2	20.3	56.5	7.3
398285	V	42.8	19.1	12.2	3.6	25.6	51.9	6.8
398286	V	46.3 <sup>w</sup>	18.4 <sup>w</sup>	12.4	3.1	21.6	55.9	7.0
398287	V	45.1 <sup>w</sup>	17.7 <sup>w</sup>	12.5	3.0	20.9	55.9	7.7
398288	V	44.2 <sup>w</sup>	20.0 <sup>w</sup>	9.6	3.0	19.7	60.2	7.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398301		Kyonggi	South Korea	South Korea	1975	V
398302		Kyonggi	South Korea	South Korea	1975	V
398304		Kyonggi	South Korea	South Korea	1975	V
398307		Kyonggi	South Korea	South Korea	1975	V
398308		Kyonggi	South Korea	South Korea	1975	V
398309		Kyonggi	South Korea	South Korea	1975	VI
398316		Kyonggi	South Korea	South Korea	1975	V
398323		Kyonggi	South Korea	South Korea	1975	V
398324		Kyonggi	South Korea	South Korea	1975	V
398328		Kyonggi	South Korea	South Korea	1975	V
398330		Kangwon	South Korea	South Korea	1975	V
398331		Kangwon	South Korea	South Korea	1975	V
398333		Kangwon	South Korea	South Korea	1975	V
398335		Kangwon	South Korea	South Korea	1975	V
398336		Kangwon	South Korea	South Korea	1975	V
398337		Kangwon	South Korea	South Korea	1975	V
398338		Kangwon	South Korea	South Korea	1975	V
398339		Kangwon	South Korea	South Korea	1975	V
398340		Kangwon	South Korea	South Korea	1975	V
398341		Kangwon	South Korea	South Korea	1975	V
398343		Kangwon	South Korea	South Korea	1975	V
398344		Kangwon	South Korea	South Korea	1975	V
398345		Kangwon	South Korea	South Korea	1975	V
398346		Kangwon	South Korea	South Korea	1975	V
398347		Kangwon	South Korea	South Korea	1975	V
398348		Kangwon	South Korea	South Korea	1975	V
398351		Kangwon	South Korea	South Korea	1975	V
398352		Kangwon	South Korea	South Korea	1975	V
398353		Kangwon	South Korea	South Korea	1975	V
398354		Kangwon	South Korea	South Korea	1975	V
398362		Kangwon	South Korea	South Korea	1975	V
398363		Kangwon	South Korea	South Korea	1975	V
398364		Kangwon	South Korea	South Korea	1975	V
398365		Kangwon	South Korea	South Korea	1975	V
398369		Kangwon	South Korea	South Korea	1975	V
398370		Kangwon	South Korea	South Korea	1975	V
398373		Kangwon	South Korea	South Korea	1975	V
398376		Kangwon	South Korea	South Korea	1975	V
398377		Kangwon	South Korea	South Korea	1975	V
398378		Kangwon	South Korea	South Korea	1975	V
398381		Kangwon	South Korea	South Korea	1975	V
398387		Kangwon	South Korea	South Korea	1975	V
398390		Kangwon	South Korea	South Korea	1975	V
398391		Kangwon	South Korea	South Korea	1975	VI
398393		Kangwon	South Korea	South Korea	1975	V
398399		Kangwon	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398301	V	D	P	T	E	Ssp	Br	D	Gn	G	Gnc, Vhil	2N
398302	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
398304	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc	2N
398307	V	D	P	T	E	Ssp	Tn	I	Lg	Bl		2N
398308	V	D	W	T	Sa	N	Dbr	I	Gn	Bl		2N
398309	VI	N	P	G	A	Ssp	Bl	I	Gn	Bf		3N
398316	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398323	V	D	W	T	Sa	N	Br	I	Gn	Bl		2N
398324	V	D	W	Lt	Sa	Ssp	Br	I	Gn	Bl		2N
398328	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc, Sdef	2N
398330	V	D	P	T	Sa	Ssp	Br	I	Ggn	Bl		3N
398331	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
398333	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398335	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	2N
398336	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2F
398337	V	D	P	T	A	Ssp	Tn	I	Bl	Bl		2F
398338	V	D	W	T	A	Ssp	Tn	D	Y	Br	Sdef	3N
398339	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398340	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
398341	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	2N
398343	V	D	P	T	E	Ssp	Br	D	Rbr	Rbr	Snet	2N
398344	V	D	W	G	A	N	Tn	D	Y	Y		2N
398345	V	D	W	G	A	N	Tn	D	Y	Y		2N
398346	V	D	P	T	E	Ssp	Br	D	Ggn	G		2N
398347	V	D	P	T	E	Ssp	Bl	I	Gn	Bl	Vhil	2N
398348	V	D	P	T	E	Ssp	Bl	I	Gn	Brbl	Vhil	2N
398351	V	D	P	T	Sa	Ssp	Br	I	G	G		2N
398352	V	D	P	T	E	Ssp	Bl	D	Gn	Brbl	Vhil	2N
398353	V	D	P	T	Sa	Ssp	Br	I	Ggn	Bl		2N
398354	V	D	P	T	E	Ssp	Br	I	Ggn	Bl		2N
398362	V	D	P	T	E	Ssp	Tn	S	Bl	Bl		2N
398363	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
398364	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398365	V	D	P	G	E	Ssp	Br	D	Bf	Bf	Snet	4N
398369	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		2N
398370	V	D	W	G	E	N	Tn	D	Y	Y		2N
398373	V	D	W	G	A	N	Tn	D	Y	Y		2N
398376	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398377	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Vsad	3N
398378	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Vsad	3N
398381	V	D	P	T	E	N	Br	I	Gn	Br		2N
398387	V	D	P	G	E	Ssp	Br	I	Y	Y	Sdef	2N
398390	V	D	P	G	E	Ssp	Br	D	Y	Bf	Sdef	3N
398391	VI	N	P	T	Sa	Ssp	Br	I	Y	Br	Vhil	3N
398393	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398399	V	D	P	G	Sa	Ssp	Br	D	Y	Y	Def	3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398301	624	923	2.5	51*	1.5	2.5	3.2	2.0	22.8	2.10
398302	624	919	2.0	42*	1.5	2.5	3.0	1.5	16.8	1.99
398304	624	923	3.5	52	2.0*	2.5	2.8	1.0	21.3	1.53
398307	701	928	3.5	63	2.5	3.0	3.0	2.0	7.8	1.68
398308	628	925	4.0	102*	2.5	4.0*	2.2	3.5	7.3	1.01
398309	703	1005	5.0	160*	2.0*	2.5	3.2	3.5	9.0	0.99
398316	619	919	2.0	53	1.5	3.0	2.8	--	18.8	2.22
398323	629	927	4.0	55	2.0*	3.0*	2.8	2.5	7.0	1.05
398324	629	927	4.5	53	2.5	4.0*	2.5	2.5	7.3	1.17
398328	619	918	3.0	47	2.0*	3.5	3.0	1.0	14.8	2.09
398330	619	919	2.5	56	2.0*	2.5	3.2	2.5	20.7	1.94
398331	621	923	3.0	40	1.5	2.5	2.0	--	21.0	1.73
398333	627	926	3.0*	63	1.5	2.0	2.8	--	15.0	1.38
398335	630	925	3.5	42	1.5	2.5	2.8	--	18.5	1.67
398336	619	923	2.0*	40	1.5	2.0	2.5	--	17.7	0.82
398337	617	917	2.0	47	2.0*	3.5	2.8	--	16.1	1.64
398338	617	921	2.0	60	2.0*	2.5	3.0	1.5	13.0	2.10
398339	619	921	1.5	38	1.5	2.5	2.2	1.5	12.4	1.79
398340	617	1002	1.5	36	2.0	2.5	2.8	--	23.4*	1.46
398341	619	927	2.5	41	2.5	3.0	2.5	--	24.5	1.50*
398343	621	923	2.5	40	2.5	3.5	2.8	--	21.6*	1.30
398344	619	923	1.5	45*	1.5	2.0	2.5	1.0	12.0	1.80
398345	619	923	1.5	40	1.5	2.5	2.5	1.0	12.1	2.09
398346	617	925	2.0	46	2.0*	2.5	3.0	2.0	21.2	2.08
398347	625	1002	3.0	45	2.5	3.0*	3.2	2.5	14.2	1.18
398348	625	1001	3.5	54*	2.5	3.0	3.2	3.0	13.8	1.17
398351	619	927	2.5	55	1.5	2.0	2.8	2.0	17.3	1.25
398352	625	1001	3.0*	55	2.0*	2.5	3.2	2.5	14.0	1.20
398353	617	924	2.5	46	1.5	2.0	3.0	2.0	22.4	2.02
398354	617	923	3.0	48	1.5	2.5	3.0	2.0	22.2	2.24
398362	625	927	2.5	47	1.5	1.5	2.5	--	18.8	1.32
398363	618	917	2.0	50	1.5	2.5	3.0	--	17.8	2.04
398364	619	921	2.5	53	1.5	2.5	2.8	--	17.6	1.77
398365	617	927	1.5	33*	1.5	2.0	3.5	--	22.8	0.59
398369	629	927	4.5	63	1.5	2.5	2.8*	2.0	7.8	1.36
398370	621	925	2.0	45	1.0	2.0	2.8	1.0	12.9	1.55
398373	621	925	2.5	46	1.0	1.5	2.8	1.0	12.6	1.44
398376	617	919	1.0	31	1.5	2.5	3.5	1.5	23.9	1.11
398377	619	923	1.5	48	1.5	2.0	2.8	--	22.4	1.47
398378	619	921	2.0	51*	1.5	2.0	2.2	--	23.7	1.88
398381	619	921	2.5	52	1.5	3.0	2.5	2.5	17.8	1.99
398387	625	916	2.5	57	1.5	2.5*	2.8	1.5	17.0	1.73
398390	629	923	3.5	59*	1.5	2.0	3.2	1.0	14.4	1.42
398391	701	1005	4.5	180*	2.0	2.0	3.8	1.0	11.2	0.89
398393	619	923	2.5	50*	1.5	2.5	3.0	1.0	22.0*	1.72
398399	621	921	2.5	51	1.5	4.0	3.2	1.0	18.0	1.86



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398301	V	42.9 <sup>w</sup>	20.0 <sup>w</sup>	11.2	2.8	25.1	54.7	6.2
398302	V	42.3 <sup>w</sup>	20.0 <sup>w</sup>	11.7	2.7	18.3	60.0	7.3
398304	V	45.6 <sup>w</sup>	20.0 <sup>w</sup>	11.0	2.7	21.2	57.9	7.1
398307	V	46.3 <sup>w</sup>	16.0 <sup>w</sup>	13.7	4.2	17.9	57.7	6.5
398308	V	47.2 <sup>w</sup>	15.8 <sup>w</sup>	11.4	3.3	23.7	55.0	6.7
398309	VI	48.7 <sup>w</sup>	15.3 <sup>w</sup>	11.2	4.3	23.6	54.3	6.6
398316	V	41.3 <sup>w</sup>	21.6 <sup>w</sup>	12.1	2.8	18.9	59.0	7.2
398323	V	47.8 <sup>w</sup>	14.9 <sup>w</sup>	11.6	3.4	22.4	55.8	6.8
398324	V	48.4 <sup>w</sup>	15.4 <sup>w</sup>	11.5	3.4	24.0	54.4	6.6
398328	V	45.7 <sup>w</sup>	19.8 <sup>w</sup>	11.6	2.9	19.7	59.3	6.4
398330	V	45.8 <sup>w</sup>	17.6 <sup>w</sup>	12.6	3.2	16.9	59.5	7.8
398331	V	43.5 <sup>w</sup>	19.6 <sup>w</sup>	9.5	2.7	19.5	60.5	7.9
398333	V	45.5 <sup>w</sup>	17.2 <sup>w</sup>	10.1	3.0	23.7	56.3	7.0
398335	V	41.0 <sup>w</sup>	19.2 <sup>w</sup>	10.1	3.2	24.5	55.4	6.8
398336	V	45.3 <sup>w</sup>	17.7 <sup>w</sup>	11.9	3.2	18.1	59.0	7.7
398337	V	46.0 <sup>w</sup>	19.0 <sup>w</sup>	10.9	3.1	18.7	60.7	6.5
398338	V	43.7	16.9	11.6	3.7	16.9	60.2	7.7
398339	V	43.0	18.0	12.3	3.4	18.0	59.1	7.2
398340	V	44.6 <sup>w</sup>	18.8 <sup>w</sup>	10.7	2.7	21.2	58.4	7.1
398341	V	45.8 <sup>w</sup>	18.1 <sup>w</sup>	10.3	2.8	20.2	59.1	7.6
398343	V	44.5 <sup>w</sup>	18.4 <sup>w</sup>	10.8	2.8	17.2	60.6	8.6
398344	V	44.9	17.3	12.5	3.3	20.0	57.4	6.8
398345	V	43.4	17.8	12.4	3.3	20.1	57.7	6.5
398346	V	46.2 <sup>w</sup>	18.7 <sup>w</sup>	11.3	3.5	18.1	59.9	7.2
398347	V	45.8 <sup>w</sup>	17.4 <sup>w</sup>	10.2	3.0	19.5	60.4	6.8
398348	V	45.3 <sup>w</sup>	16.9 <sup>w</sup>	10.1	3.2	18.2	61.1	7.4
398351	V	45.1 <sup>w</sup>	17.9 <sup>w</sup>	10.4	2.9	20.1	57.9	8.7
398352	V	45.6 <sup>w</sup>	17.6 <sup>w</sup>	9.9	3.0	18.9	61.1	7.1
398353	V	45.3 <sup>w</sup>	19.1 <sup>w</sup>	11.5	3.3	19.1	59.2	7.0
398354	V	44.2 <sup>w</sup>	19.6 <sup>w</sup>	11.6	3.0	23.6	56.0	5.8
398362	V	45.7 <sup>w</sup>	18.2 <sup>w</sup>	10.6	3.0	19.9	59.0	7.4
398363	V	46.3 <sup>w</sup>	17.1 <sup>w</sup>	11.9	3.2	18.9	58.9	7.1
398364	V	45.9 <sup>w</sup>	17.9 <sup>w</sup>	11.7	2.9	17.3	60.3	7.8
398365	V	43.0 <sup>w</sup>	17.5 <sup>w</sup>	11.6	3.2	19.4	57.9	7.8
398369	V	47.1	16.8	12.2	3.9	29.5	48.9	5.5
398370	V	45.2	17.5	12.2	3.1	21.2	56.7	6.9
398373	V	45.5	17.2	12.5	3.2	19.7	57.3	7.4
398376	V	43.2	18.5	11.1	3.2	21.4	58.3	6.0
398377	V	44.7 <sup>w</sup>	19.0 <sup>w</sup>	11.4	3.4	31.2	48.6	5.4
398378	V	44.5 <sup>w</sup>	20.0 <sup>w</sup>	11.6	3.2	25.2	53.9	6.1
398381	V	44.5 <sup>w</sup>	18.4 <sup>w</sup>	11.9	3.2	24.5	54.9	5.5
398387	V	46.2	17.3	11.4	3.4	25.8	52.7	6.7
398390	V	46.1	16.4	12.0	4.1	15.7	60.9	7.4
398391	VI	44.5	17.2	12.1	3.9	21.7	55.1	7.2
398393	V	43.4	18.8	11.3	3.5	20.0	58.6	6.5
398399	V	45.0	18.4	12.2	4.0	21.9	56.2	5.7

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398400		Kangwon	South Korea	South Korea	1975	V
398402		Kangwon	South Korea	South Korea	1975	V
398403		Kangwon	South Korea	South Korea	1975	V
398407		Kangwon	South Korea	South Korea	1975	V
398409		Kangwon	South Korea	South Korea	1975	V
398411		Kangwon	South Korea	South Korea	1975	V
398413		Kangwon	South Korea	South Korea	1975	V
398418		Kangwon	South Korea	South Korea	1975	V
398422		Kangwon	South Korea	South Korea	1975	V
398423		Kangwon	South Korea	South Korea	1975	V
398424		Kangwon	South Korea	South Korea	1975	V
398427		Kangwon	South Korea	South Korea	1975	V
398428		Kangwon	South Korea	South Korea	1975	V
398432		Kangwon	South Korea	South Korea	1975	V
398433		Kangwon	South Korea	South Korea	1975	V
398434		Kangwon	South Korea	South Korea	1975	VI
398436		Kangwon	South Korea	South Korea	1975	V
398437		Kangwon	South Korea	South Korea	1975	V
398438		Kangwon	South Korea	South Korea	1975	V
398445		Kangwon	South Korea	South Korea	1975	V
398447		Kangwon	South Korea	South Korea	1975	V
398448		Kangwon	South Korea	South Korea	1975	V
398449		Kangwon	South Korea	South Korea	1975	V
398452		Kangwon	South Korea	South Korea	1975	V
398453		Kangwon	South Korea	South Korea	1975	V
398454		Kangwon	South Korea	South Korea	1975	V
398455		Kangwon	South Korea	South Korea	1975	V
398456		Kangwon	South Korea	South Korea	1975	V
398457		Kangwon	South Korea	South Korea	1975	V
398458		Kangwon	South Korea	South Korea	1975	V
398459		Kangwon	South Korea	South Korea	1975	V
398460		Kangwon	South Korea	South Korea	1975	VI
398461		Kangwon	South Korea	South Korea	1975	V
398462		Kangwon	South Korea	South Korea	1975	V
398465		Kangwon	South Korea	South Korea	1975	V
398466		Kangwon	South Korea	South Korea	1975	V
398467		Kangwon	South Korea	South Korea	1975	V
398468		Kangwon	South Korea	South Korea	1975	V
398471		Kangwon	South Korea	South Korea	1975	V
398474		Kangwon	South Korea	South Korea	1975	V
398476		Kangwon	South Korea	South Korea	1975	V
398477		Kangwon	South Korea	South Korea	1975	V
398478		Kangwon	South Korea	South Korea	1975	V
398480		Kangwon	South Korea	South Korea	1975	V
398481		Kangwon	South Korea	South Korea	1975	V
398483		Kangwon	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398400	V	D	P	Ng	Sa	Ssp	Br	I	Bl	Bl	Net	3N
398402	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398403	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398407	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr		2N
398409	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2F
398411	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398413	V	D	P	T	E	Ssp	Br	I	Gn	Gn	Gnc	2N
398418	V	N	P	G	Sa	Ssp	Br	D	Y	Bf		2N
398422	V	D	P	G	A	N	Tn	I	Y	Y		2N
398423	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
398424	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
398427	V	D	P	G	Sa	Ssp	Br	D	Y	Bf	Def	2N
398428	V	D	P	G	E	Ssp	Tn	D	Y	Bf		2N
398432	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398433	V	D	W	G	E	Ssp	Tn	D	Y	Y		2N
398434	VI	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398436	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398437	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398438	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Vsad	3N
398445	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398447	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398448	V	D	P	Ng	A	Ssp	Br	I	Bl	Bl	Snet	2N
398449	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398452	V	D	P	T	E	Ssp	Bl	I	Gn	Brbl	Gnc, Vhil	2N
398453	V	D	W	G	A	Ssp	Tn	D	Y	Y		2N
398454	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398455	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr		2N
398456	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
398457	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr		3N
398458	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398459	V	D	W	G	A	N	Tn	D	Y	Y		2N
398460	VI	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr		3F
398461	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr		2N
398462	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr		2N
398465	V	N	P	T	E	Ssp	Br	I	Y	Br		4N
398466	V	D	P	T	E	Ssp	Tn	I	Y	Br		2N
398467	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398468	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398471	V	D	P	G	A	Ssp	Br	I	Rbf	Rbf		2N
398474	V	D	P	Ng	A	Ssp	Br	I	Bl	Bl		2N
398476	V	D	P	T	E	Ssp	Br	I	Y	Y		2N
398477	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		3N
398478	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398480	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398481	V	D	P	T	E	N	Br	I	Y	Bl		3N
398483	V	D	P	T	E	Ssp	Br	I	Y	Y		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398400	619	918	3.5	52	1.0	1.5	2.8	--	18.0	1.22
398402	617	921	2.0	48	1.5	3.0	3.5	1.0	20.1	1.67
398403	617	922	1.5	40	1.5	2.0*	3.5	1.5	24.8	1.54
398407	619	923	2.0	42	1.0	2.5	2.8	--	19.3*	1.63
398409	619	929	2.0	42	2.0	2.0	2.8	--	20.0	1.73
398411	619	926	2.0	42	2.0	2.5	2.5	--	20.6	1.93
398413	619	927	1.5	50	2.0	2.5	3.2	2.5	22.8	1.22
398418	619	927	5.0	147	2.0*	3.0	3.5	2.0	16.6	1.53
398422	619	923	2.0	47	1.5	2.5	2.5	3.0	9.9	1.95
398423	624	924	2.0	58	1.5	2.5	2.8	--	16.3	1.99
398424	625	925	2.5	50	2.0	3.0	2.8	--	18.0	2.18
398427	619	925	2.5	51	2.0	3.0	3.5	1.5	14.0	1.86
398428	705	929	4.0	65	1.5	2.0	3.8*	2.0*	8.9	1.88
398432	619	921	1.5	38	1.0	2.5	2.8*	2.0	12.3	1.50
398433	619	921	1.5	34	1.0	2.5	2.8*	2.0	12.8	1.59
398434	707	1005	4.0	58*	2.0	3.0	3.2*	2.0	6.7	1.43
398436	627	928	3.0*	48	2.0	3.0	3.2	--	20.8	1.04
398437	619	923	2.5	52	2.0	2.5	2.8	--	16.7	1.43
398438	621	921	2.5	56	2.0	2.0	2.8	--	25.7	2.12
398445	619	921	1.5	42	1.0	2.5	2.8	1.5	12.4	1.86
398447	613	923	2.0*	30	2.0	3.0	3.2	--	15.0	1.10
398448	617	924	1.5	31	1.5	2.0	3.0	--	17.4*	1.30
398449	627	927	2.0	54	2.0	2.5	3.2	--	20.2	1.18
398452	621	924	2.5	59*	2.5	3.5	3.0	1.5	13.7	0.89
398453	619	921	1.5	42	1.5	2.5	2.2	1.0	11.8	1.39
398454	619	921	1.5	40	1.5	3.0	2.5	1.5	12.0	1.70
398455	617	921	2.0	47	1.5	2.5	2.8	--	18.2*	1.34*
398456	619	923	2.0	48*	1.5	2.0	2.5	--	19.9*	1.51
398457	629	1003	3.5	70*	2.5	3.0	2.5	--	15.7	1.79*
398458	619	921	2.0*	40	1.0	2.5	2.2	1.0	11.6	1.77
398459	619	923	1.5	37	1.5	2.5	2.5	1.0	11.8	1.58*
398460	629	1004	4.0	65	2.5	3.5	3.0	--	14.3	1.26
398461	619	922	1.5	46	1.0	2.5	3.0	--	20.0*	1.41
398462	619	920	2.0	51*	1.0	3.0	3.2	--	18.4*	1.15
398465	619	927	4.5	125*	2.0	4.0	3.2	3.0	12.7	1.55
398466	703	929	3.5	60	1.5	3.0	3.2	3.0	12.5	1.47
398467	619	921	3.0	49	1.5	2.5	2.5	1.0	11.4	2.22
398468	619	917	3.5	48	1.5	3.5	3.0	1.0	6.8	1.70
398471	627	923	4.5	56*	1.5	3.0	2.8	--	10.6	1.46
398474	629	923	4.0	50*	1.5	3.0	2.8	--	12.9	1.51
398476	619	923	2.0	54*	2.0	3.0	2.8	2.0	15.8*	1.69
398477	627	929	3.5	54	1.0	2.5	2.8*	1.0	5.9	1.81
398478	625	926	3.5	62*	2.0	3.5	3.0*	1.0	6.2	1.29
398480	619	923	2.0	45	1.5	3.0	2.8	--	16.0	1.54
398481	703	927	4.0	90*	2.5	3.5	3.0	2.0	13.4	2.10
398483	619	929	2.0	62*	1.5	2.5	3.0	1.5	15.5*	1.91

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398400	V	44.6 <sup>w</sup>	18.2 <sup>w</sup>	11.7	2.5	19.4	58.7	7.6
398402	V	43.7	18.0	12.7	3.2	21.1	57.1	5.9
398403	V	44.9	18.0	11.6	3.3	18.2	60.2	6.8
398407	V	44.8 <sup>w</sup>	18.1 <sup>w</sup>	11.8	3.2	18.7	58.7	7.6
398409	V	43.4 <sup>w</sup>	18.9 <sup>w</sup>	11.0	3.4	19.9	57.8	7.9
398411	V	43.6 <sup>w</sup>	19.5 <sup>w</sup>	10.7	3.1	19.1	60.2	6.9
398413	V	47.5 <sup>w</sup>	18.6 <sup>w</sup>	11.8	3.4	22.2	56.6	6.0
398418	V	43.4	18.7	11.9	3.4	26.0	52.6	6.1
398422	V	42.1	19.9	11.6	3.7	26.6	52.6	5.6
398423	V	46.0 <sup>w</sup>	17.0 <sup>w</sup>	12.2	3.4	17.0	60.0	7.4
398424	V	46.8 <sup>w</sup>	17.0 <sup>w</sup>	10.8	3.5	15.5	62.3	8.0
398427	V	44.0	17.5	13.6	4.3	20.0	53.4	8.6
398428	V	51.2	14.4	12.6	3.8	22.0	54.6	7.1
398432	V	44.0	17.1	12.3	3.3	17.9	59.1	7.4
398433	V	45.8	17.3	12.0	3.2	18.7	58.7	7.4
398434	VI	48.3	11.8	12.4	4.0	19.2	58.1	6.3
398436	V	50.5 <sup>w</sup>	16.8 <sup>w</sup>	12.5	3.5	19.0	58.1	7.0
398437	V	43.2 <sup>w</sup>	19.0 <sup>w</sup>	11.3	3.1	20.6	58.3	6.8
398438	V	45.0 <sup>w</sup>	20.2 <sup>w</sup>	11.3	2.7	26.3	53.5	6.2
398445	V	43.8	18.0	12.1	3.2	19.8	58.0	7.0
398447	V	43.3 <sup>w</sup>	18.9 <sup>w</sup>	10.5	3.4	15.9	61.5	8.7
398448	V	44.9 <sup>w</sup>	18.1 <sup>w</sup>	12.5	3.1	16.9	59.0	8.5
398449	V	47.7 <sup>w</sup>	17.5 <sup>w</sup>	11.4	3.1	19.2	57.8	8.5
398452	V	47.1 <sup>w</sup>	16.4 <sup>w</sup>	12.1	3.1	20.4	56.6	7.7
398453	V	44.7	17.2	12.7	3.3	18.6	58.2	7.2
398454	V	44.1	17.6	12.3	3.2	19.9	57.6	6.9
398455	V	43.6 <sup>w</sup>	19.0 <sup>w</sup>	10.8	3.3	22.7	56.8	6.3
398456	V	43.9 <sup>w</sup>	18.4 <sup>w</sup>	11.3	2.5	20.2	59.1	6.8
398457	V	47.0 <sup>w</sup>	17.4 <sup>w</sup>	10.9	2.9	23.5	56.6	6.2
398458	V	44.7	17.6	12.2	3.3	20.9	56.8	6.9
398459	V	45.1	17.4	12.1	3.1	22.2	56.0	6.7
398460	VI	46.2 <sup>w</sup>	17.1 <sup>w</sup>	11.3	2.9	20.6	58.7	6.5
398461	V	42.2 <sup>w</sup>	19.7 <sup>w</sup>	11.3	3.3	22.3	57.5	5.6
398462	V	42.1 <sup>w</sup>	19.4 <sup>w</sup>	11.1	3.5	19.6	58.8	7.0
398465	V	44.5	18.4	11.0	3.8	37.4	43.2	4.7
398466	V	46.7	16.1	12.2	3.3	21.4	55.5	7.6
398467	V	43.4	17.6	12.6	3.3	19.9	57.5	6.7
398468	V	46.7	17.0	12.1	3.0	24.9	54.7	5.2
398471	V	44.3 <sup>w</sup>	16.7 <sup>w</sup>	11.0	3.8	19.2	56.9	9.0
398474	V	44.7 <sup>w</sup>	16.7 <sup>w</sup>	11.1	3.9	18.1	57.5	9.4
398476	V	44.3	18.9	12.3	3.4	24.2	55.0	5.0
398477	V	48.1	13.3	12.5	4.0	15.8	60.1	7.6
398478	V	49.5	12.9	12.3	3.9	15.1	60.0	8.7
398480	V	40.3 <sup>w</sup>	18.6 <sup>w</sup>	11.5	3.2	16.9	60.1	8.3
398481	V	45.9	16.7	11.7	2.8	27.0	53.1	5.4
398483	V	42.0 <sup>w</sup>	19.3 <sup>w</sup>	11.9	3.5	25.5	53.4	5.7

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398485		Kangwon	South Korea	South Korea	1975	V
398487		Kangwon	South Korea	South Korea	1975	V
398488		Kangwon	South Korea	South Korea	1975	V
398496		Kangwon	South Korea	South Korea	1975	V
398497		Kangwon	South Korea	South Korea	1975	V
398498		Kangwon	South Korea	South Korea	1975	V
398500		Kangwon	South Korea	South Korea	1975	V
398502		Kangwon	South Korea	South Korea	1975	V
398506		Chungchong Puk	South Korea	South Korea	1975	V
398507		Chungchong Puk	South Korea	South Korea	1975	V
398508		Chungchong Puk	South Korea	South Korea	1975	V
398509		Chungchong Puk	South Korea	South Korea	1975	V
398510		Chungchong Puk	South Korea	South Korea	1975	V
398511		Chungchong Puk	South Korea	South Korea	1975	V
398512		Chungchong Puk	South Korea	South Korea	1975	V
398513		Chungchong Puk	South Korea	South Korea	1975	V
398515		Chungchong Puk	South Korea	South Korea	1975	V
398517		Chungchong Puk	South Korea	South Korea	1975	V
398518		Chungchong Puk	South Korea	South Korea	1975	V
398520		Chungchong Puk	South Korea	South Korea	1975	V
398521		Chungchong Puk	South Korea	South Korea	1975	V
398524		Chungchong Puk	South Korea	South Korea	1975	V
398525		Chungchong Puk	South Korea	South Korea	1975	V
398526		Chungchong Puk	South Korea	South Korea	1975	V
398527		Chungchong Puk	South Korea	South Korea	1975	V
398528		Chungchong Puk	South Korea	South Korea	1975	V
398530		Chungchong Puk	South Korea	South Korea	1975	V
398533		Chungchong Puk	South Korea	South Korea	1975	V
398534		Chungchong Puk	South Korea	South Korea	1975	V
398535		Chungchong Puk	South Korea	South Korea	1975	V
398536		Chungchong Puk	South Korea	South Korea	1975	V
398538		Chungchong Puk	South Korea	South Korea	1975	V
398539		Chungchong Puk	South Korea	South Korea	1975	V
398541		Chungchong Puk	South Korea	South Korea	1975	V
398542		Chungchong Puk	South Korea	South Korea	1975	V
398543		Chungchong Puk	South Korea	South Korea	1975	V
398544		Chungchong Puk	South Korea	South Korea	1975	V
398545		Chungchong Puk	South Korea	South Korea	1975	V
398546		Chungchong Puk	South Korea	South Korea	1975	VI
398547		Chungchong Puk	South Korea	South Korea	1975	V
398548		Chungchong Puk	South Korea	South Korea	1975	V
398550		Chungchong Puk	South Korea	South Korea	1975	V
398552		Chungchong Puk	South Korea	South Korea	1975	V
398553		Chungchong Puk	South Korea	South Korea	1975	V
398554		Chungchong Puk	South Korea	South Korea	1975	V
398555		Chungchong Puk	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398485	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
398487	V	D	P	T	E	Ssp	Br	I	Br	Br	St	2N
398488	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		3N
398496	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398497	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2F
398498	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Vsad	3N
398500	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398502	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398506	V	D	P	T	Sa	Ssp	Bl	I	Bl	Bl		2N
398507	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc	3N
398508	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398509	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2F
398510	V	D	P	T	E	Ssp	Bl	I	Bl	Bl	Snet	2N
398511	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2F
398512	V	D	P	T	Sa	Ssp	Br	I	Gn	Br	Gnc	2N
398513	V	D	P	G	A	Ssp	Tn	D	Gn	Gn	Gnc	2N
398515	V	D	P	G	A	Ssp	Br	I	Y	Bf		3N
398517	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
398518	V	D	W	G	E	N	Br	D	Y	Bf	Def	2N
398520	V	D	W	G	E	N	Br	D	Y	Bf	Def	2N
398521	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
398524	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398525	V	D	P	G	Sa	Ssp	Br	D	Gn	Gn	Gnc	2N
398526	V	D	P	G	Sa	Ssp	Br	I	Gn	Lbf	Gnc	2N
398527	V	D	P	G	Sa	Ssp	Bl	I	Gn	Bf	Gnc, Sdef	2N
398528	V	D	W	G	E	Ssp	Br	I	Y	Y		2N
398530	V	D	P	T	Sa	Ssp	Tn	I	Y	Brbl	Vhil	2N
398533	V	D	P	G	Sa	N	Tn	D	Y	Y	Sdef	2N
398534	V	D	P	G	E	Ssp	Tn	D	Y	Y	Sdef	2N
398535	V	D	P	G	Sa	N	Tn	D	Y	Lbf		2N
398536	V	D	P	T	Sa	Ssp	Tn	I	Y	Bl		2N
398538	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398539	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398541	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398542	V	D	W	T	E	Ssp	Br	I	Y	Br	Sdef	2F
398543	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398544	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398545	V	D	W	T	Sa	N	Tn	I	Ggn	Bl		2N
398546	VI	D	W	T	E	Ssp	Tn	I	Y	Brbl	Vhil	2N
398547	V	N	W	T	Sa	N	Tn	I	Gn	Br		2N
398548	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398550	V	D	P	T	Sa	Ssp	Br	I	Br	Br	Snet	2N
398552	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc, Sdef	2N
398553	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398554	V	D	W	G	E	N	Tn	I	Y	Y		2N
398555	V	D	P	T	E	Ssp	Tn	I	Br	Br		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398485	613	921	2.0	37	1.5	2.5	3.2	1.0	22.2*	1.50
398487	625	928	2.5	50*	1.5	2.0	2.5	--	14.5	1.11
398488	705	1001	4.0	65	1.0	2.5	3.2	2.5	8.4	1.61
398496	619	918	3.0	42	1.0	4.0*	2.5	1.5	7.5	1.53*
398497	619	923	1.5	33	1.5	2.5	2.8	--	16.6	0.86
398498	621	921	2.0	55	1.5	2.0	2.8	--	25.4	2.11
398500	703	927	2.5	62*	1.0	3.0	2.8	2.5	7.4	1.70
398502	619	920	1.5	43	1.5	2.5	2.0	1.5	13.0	1.92
398506	619	917	3.0	52	1.5	3.5	2.2	--	14.6	1.38
398507	617	919	2.0*	35	1.5	4.0*	3.5	1.0	23.6	1.47
398508	619	917	3.5	59*	1.5	3.0	2.8	--	17.5	2.48
398509	625	921	3.0	52	1.0	2.5	2.2	--	14.4*	1.43
398510	625	917	3.5	42	1.5	3.5	2.8	--	19.3	1.55
398511	627	919	3.0	45	1.5	2.5	2.5	--	14.0	1.25
398512	621	917	3.0	51*	1.5	3.0	3.0	2.0	12.4	0.94
398513	619	919	1.5	30	1.5	4.5	3.0	1.0	17.6	1.22
398515	619	923	2.5	53*	1.5	2.5	3.0	2.5	13.2	1.69
398517	619	921	1.5	38*	1.5	3.0	2.8	1.0	15.0	1.43
398518	623	917	3.5	71	1.5	4.0*	3.5	1.0	16.0	3.00*
398520	623	917	3.5	69	1.5	4.0*	3.5	1.0	14.7	2.68
398521	619	921	2.5	52*	1.5	2.5	3.2	1.0	14.7	1.63
398524	619	921	2.5	62	1.0	2.5	3.0	--	18.4	2.10
398525	617	919	2.0	37	1.5	2.5	3.5	1.0	19.2	1.14
398526	619	919	2.0*	38	1.5	3.5	3.2	1.0	11.9	1.94
398527	621	919	1.5	50	2.0*	2.0*	3.2	2.5	15.4	1.64
398528	617	921	1.5	31	1.5	2.5	3.8	1.5	23.2*	0.68^
398530	629	923	4.0	51	2.0*	4.0*	3.0	1.5	7.2	1.70
398533	617	916	1.5	36*	1.5	3.0*	3.2	1.5	16.1	1.64*
398534	617	917	1.5	42	1.5	3.0*	3.2	1.5	17.2	1.85
398535	618	913	1.0	34	1.5	3.0*	3.5*	1.0	16.6	1.68*
398536	629	923	4.0	60*	1.0	4.0	3.0	2.0	7.0	1.28
398538	625	919	3.5	56*	1.5	2.5	2.8*	2.0	8.0	1.55
398539	619	920	3.0	40	1.0	2.0*	2.8	1.0	12.2	1.79
398541	617	917	1.5	35	1.0	3.5	3.0	1.0	16.4	1.80
398542	625	915	2.5	57	1.5	3.5	3.5	1.0	15.0	2.05
398543	623	924	3.5	48*	1.5	2.5	2.0	--	6.4	0.95
398544	625	928	3.5	46	1.5	3.0	2.2	--	6.6	0.83
398545	623	927	3.0	55	2.0	3.0	3.0	1.5	10.6	1.42
398546	627	1005	3.5	68	2.0	2.5	3.2*	1.0	7.9	0.98
398547	701	1003	5.0	118	1.5	2.0	3.2*	2.0	7.6	1.25
398548	623	923	1.5	36	1.0	2.5	2.5	1.0	12.1	1.46
398550	625	925	3.0	64	1.0	2.5	2.8	--	12.8	1.45
398552	618	921	1.5	40	1.5	2.5	3.0	1.5	19.0	1.35
398553	617	921	1.5	50	1.5	2.5	3.5	1.0	23.8	1.72
398554	621	923	1.5	44	1.5	2.0*	2.2	1.5	12.5	1.97
398555	625	923	2.5	61	1.5	2.0	2.5	--	12.8*	1.93



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398485	V	44.0	18.0	13.0	3.2	19.0	58.6	6.3
398487	V	43.6 <sup>w</sup>	19.3 <sup>w</sup>	12.2	3.3	21.6	56.8	6.2
398488	V	50.8	12.9	13.2	3.9	20.9	54.1	8.0
398496	V	45.0	17.6	12.7	3.2	20.2	57.9	6.0
398497	V	44.6 <sup>w</sup>	17.6 <sup>w</sup>	12.4	3.0	18.6	58.1	7.8
398498	V	44.0 <sup>w</sup>	20.0 <sup>w</sup>	11.7	3.0	24.4	54.6	6.3
398500	V	42.4	18.1	12.2	4.0	20.7	56.6	6.6
398502	V	44.0	17.5	12.4	3.3	17.7	59.0	7.6
398506	V	44.2 <sup>w</sup>	17.9 <sup>w</sup>	12.1	2.4	21.7	56.8	7.1
398507	V	44.4 <sup>w</sup>	19.7 <sup>w</sup>	12.8	3.4	18.8	58.5	6.5
398508	V	45.9 <sup>w</sup>	18.4 <sup>w</sup>	11.0	2.8	21.1	57.3	7.8
398509	V	44.0 <sup>w</sup>	17.3 <sup>w</sup>	10.1	3.1	20.8	57.8	8.2
398510	V	44.7 <sup>w</sup>	19.5 <sup>w</sup>	10.7	3.4	22.7	56.1	7.0
398511	V	44.8 <sup>w</sup>	16.5 <sup>w</sup>	10.2	3.2	19.7	58.5	8.5
398512	V	45.2 <sup>w</sup>	18.6 <sup>w</sup>	11.4	3.0	16.4	61.9	7.3
398513	V	43.7 <sup>w</sup>	19.0 <sup>w</sup>	11.7	2.8	19.4	58.7	7.5
398515	V	45.8	15.7	11.5	3.5	16.4	62.1	6.5
398517	V	44.2	18.6	11.7	3.4	18.8	60.2	6.0
398518	V	43.2	18.4	12.5	2.9	19.8	58.1	6.7
398520	V	43.2	18.0	12.4	3.1	22.0	56.5	6.1
398521	V	43.3 <sup>w</sup>	20.0 <sup>w</sup>	11.6	3.3	18.1	59.3	7.8
398524	V	44.3 <sup>w</sup>	19.6 <sup>w</sup>	10.8	3.1	19.4	60.3	6.5
398525	V	44.6 <sup>w</sup>	19.7 <sup>w</sup>	11.2	3.8	16.1	61.9	7.0
398526	V	43.3 <sup>w</sup>	19.4 <sup>w</sup>	12.9	3.3	18.8	58.5	6.5
398527	V	44.9 <sup>w</sup>	19.4 <sup>w</sup>	10.8	2.8	21.9	58.2	6.3
398528	V	44.8	18.4	11.5	3.6	20.3	58.7	6.0
398530	V	46.9 <sup>^</sup>	14.6 <sup>^</sup>	12.8 <sup>^</sup>	3.9 <sup>^</sup>	18.9 <sup>^</sup>	56.8 <sup>^</sup>	7.5 <sup>^</sup>
398533	V	42.9	19.2	12.4	2.9	17.3	60.1	7.2
398534	V	44.0	19.3	12.4	2.7	19.2	59.1	6.6
398535	V	43.8	19.2	12.2	2.8	20.1	58.6	6.3
398536	V	48.2 <sup>^</sup>	13.8 <sup>^</sup>	12.6 <sup>^</sup>	3.7 <sup>^</sup>	21.1 <sup>^</sup>	55.6 <sup>^</sup>	7.1 <sup>^</sup>
398538	V	48.2 <sup>^</sup>	15.7 <sup>^</sup>	13.5 <sup>^</sup>	3.5 <sup>^</sup>	21.1 <sup>^</sup>	55.0 <sup>^</sup>	6.8 <sup>^</sup>
398539	V	43.2 <sup>^</sup>	16.9 <sup>^</sup>	12.7 <sup>^</sup>	3.3 <sup>^</sup>	18.5 <sup>^</sup>	57.7 <sup>^</sup>	7.8 <sup>^</sup>
398541	V	46.9	18.4	11.7	3.0	19.0	60.3	6.0
398542	V	40.8	18.9	11.7	3.9	21.4	56.3	6.7
398543	V	47.8 <sup>w</sup>	16.7 <sup>w</sup>	12.9	3.7	19.3	56.1	8.0
398544	V	48.7 <sup>^w</sup>	15.4 <sup>^w</sup>	12.1 <sup>^</sup>	3.2 <sup>^</sup>	16.9 <sup>^</sup>	58.6 <sup>^</sup>	9.2 <sup>^</sup>
398545	V	42.5 <sup>w</sup>	18.0 <sup>w</sup>	12.4	3.8	20.2	56.4	7.2
398546	VI	45.0 <sup>w</sup>	16.9 <sup>w</sup>	13.4	3.8	22.8	53.7	6.3
398547	V	48.0 <sup>w</sup>	14.7 <sup>w</sup>	11.6	4.1	19.4	56.5	8.4
398548	V	46.0	16.8	12.4	3.2	19.4	57.5	7.5
398550	V	46.1 <sup>w</sup>	18.0 <sup>w</sup>	12.1	3.3	20.7	56.2	7.8
398552	V	43.1 <sup>w</sup>	19.7 <sup>w</sup>	11.6	3.7	17.3	60.8	6.6
398553	V	45.5	18.3	11.5	3.3	18.8	59.6	6.8
398554	V	44.7	17.8	12.2	3.0	20.0	57.5	7.3
398555	V	44.0 <sup>w</sup>	18.5 <sup>w</sup>	10.3	3.3	16.9	61.6	7.9

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398560		Chungchong Puk	South Korea	South Korea	1975	V
398561		Chungchong Puk	South Korea	South Korea	1975	V
398562		Chungchong Puk	South Korea	South Korea	1975	V
398563		Chungchong Puk	South Korea	South Korea	1975	V
398564		Chungchong Puk	South Korea	South Korea	1975	V
398567		Chungchong Puk	South Korea	South Korea	1975	V
398568		Chungchong Puk	South Korea	South Korea	1975	V
398569		Chungchong Puk	South Korea	South Korea	1975	V
398571		Chungchong Puk	South Korea	South Korea	1975	V
398573		Chungchong Puk	South Korea	South Korea	1975	V
398574		Chungchong Puk	South Korea	South Korea	1975	V
398576		Chungchong Puk	South Korea	South Korea	1975	V
398577		Chungchong Puk	South Korea	South Korea	1975	V
398579		Chungchong Puk	South Korea	South Korea	1975	V
398581		Chungchong Puk	South Korea	South Korea	1975	V
398582		Chungchong Puk	South Korea	South Korea	1975	V
398583		Chungchong Puk	South Korea	South Korea	1975	V
398584		Chungchong Puk	South Korea	South Korea	1975	V
398585		Chungchong Puk	South Korea	South Korea	1975	V
398586		Chungchong Puk	South Korea	South Korea	1975	V
398587		Chungchong Puk	South Korea	South Korea	1975	V
398589		Chungchong Puk	South Korea	South Korea	1975	V
398590		Chungchong Puk	South Korea	South Korea	1975	V
398591		Chungchong Puk	South Korea	South Korea	1975	V
398593		Chungchong Puk	South Korea	South Korea	1975	V
398594		Chungchong Puk	South Korea	South Korea	1975	V
398595		Chungchong Puk	South Korea	South Korea	1975	V
398596		Chungchong Puk	South Korea	South Korea	1975	V
398597		Chungchong Puk	South Korea	South Korea	1975	V
398602		Chungchong Puk	South Korea	South Korea	1975	V
398603		Chungchong Puk	South Korea	South Korea	1975	V
398605		Chungchong Puk	South Korea	South Korea	1975	V
398607		Chungchong Puk	South Korea	South Korea	1975	V
398608		Chungchong Puk	South Korea	South Korea	1975	V
398610		Chungchong Puk	South Korea	South Korea	1975	V
398612		Chungchong Puk	South Korea	South Korea	1975	V
398613		Chungchong Puk	South Korea	South Korea	1975	V
398614		Chungchong Puk	South Korea	South Korea	1975	V
398616		Chungchong Puk	South Korea	South Korea	1975	V
398618		Chungchong Puk	South Korea	South Korea	1975	V
398622		Chungchong Puk	South Korea	South Korea	1975	V
398623		Chungchong Puk	South Korea	South Korea	1975	V
398627		Chungchong Puk	South Korea	South Korea	1975	V
398629		Chungchong Puk	South Korea	South Korea	1975	V
398630		Chungchong Puk	South Korea	South Korea	1975	V
398632		Chungchong Puk	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398560	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc	3N
398561	V	D	P	G	E	Ssp	Bl	D	Gn	Gn	Gnc, Sdef	2N
398562	V	D	P	T	Sa	Ssp	Br	D	Br	Br	Snet	2N
398563	V	D	P	T	Sa	Ssp	Br	D	Rbr	Rbr	Snet	2N
398564	V	D	P	T	E	Ssp	Tn	I	Br	Br		2N
398567	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
398568	V	D	P	Lt	Sa	Ssp	Br	I	Bl	Bl	Net	2N
398569	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398571	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf	Sdef	2N
398573	V	D	P	T	Sa	Ssp	Br	D	Y	Y	Sdef	2N
398574	V	D	P	T	Sa	Ssp	Br	D	Bl	Bl	Net	4N
398576	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398577	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398579	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398581	V	D	W	G	Sa	Ssp	Br	I	Y	Y	Sdef	2N
398582	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
398583	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
398584	V	D	W	G	E	Ssp	Br	I	Y	Y	Sdef	2N
398585	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
398586	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
398587	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398589	V	D	P	T	Sa	Ssp	Tn	I	Y	Br	Vhil	2N
398590	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		3N
398591	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		2N
398593	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		2N
398594	V	N	P	T	E	Ssp	Br	I	Y	Br		3N
398595	V	D	P	T	E	Ssp	Tn	I	Y	Br		2N
398596	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		2N
398597	V	D	P	T	E	Ssp	Tn	I	Y	Br		2N
398602	V	D	P	G	E	Ssp	Tn	I	Y	Y		2N
398603	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398605	V	N	P	T	E	Ssp	Br	I	Y	Br		3N
398607	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398608	V	D	P	T	E	Ssp	Br	I	Y	Br		3N
398610	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		2N
398612	V	D	P	T	E	Ssp	Tn	I	Y	Br		2N
398613	V	D	P	G	E	Ssp	Tn	I	Y	Bf		2N
398614	V	D	P	G	Sa	N	Tn	I	Y	Bf		2N
398616	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398618	V	D	P	G	Sa	Ssp	Br	D	Y	Bf	Def	3N
398622	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398623	V	D	P	Lt	Sa	Ssp	Br	I	Bl	Bl	Net	3N
398627	V	D	P	Lt	Sa	Ssp	Br	I	Bl	Bl	Net	2N
398629	V	D	P	T	E	Ssp	Br	I	Y	Y	Sdef	2N
398630	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398632	V	D	P	T	E	Ssp	Br	D	Y	Y	Sdef	2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398560	614	917	1.5	42	2.0	4.0	3.5	1.5	17.8	1.36
398561	621	915	2.5	54*	2.0*	4.5	3.0	2.0	17.1	1.74
398562	621	925	2.0*	47	1.5	2.0	3.0	--	24.4*	1.20
398563	707	925	3.5	88	2.0	3.5	2.5	--	16.9	1.86
398564	625	921	2.5	63	1.5	2.0	2.5	--	13.6*	1.92
398567	621	919	2.0	50	1.0	2.5	2.8	--	18.6	1.85
398568	617	922	1.5	34	1.0	1.5	2.8	--	19.0	1.71
398569	617	923	2.0	44	1.5	3.0	2.8	--	18.7*	1.19
398571	613	922	1.5	58	1.5	3.0	3.0	1.0	15.5	1.76
398573	621	921	2.0	46	1.5	2.5	3.0	1.5	17.8	2.07
398574	617	919	2.0*	39	1.0	2.5	3.0	--	17.5	1.72
398576	627	927	3.0	42	1.5	2.0	2.5	--	14.6	0.79
398577	625	925	3.5	51	1.0	2.5	3.0	--	16.3	1.22
398579	621	917	2.0	36	1.0	2.5	2.8	1.0	11.4	1.52
398581	621	928	2.5	73*	1.0	1.5	3.8	2.0	13.6	1.69
398582	621	917	3.0	49*	1.5	3.5	2.8	1.0	7.4	2.43
398583	617	917	2.5	42	1.5	3.0	2.8	1.0	7.2	2.02
398584	621	917	2.0	42	1.0	2.5	3.2	1.0	19.9	2.08
398585	624	921*	1.5	44	1.5	3.0	3.0	1.5	22.0*	1.67*
398586	622	918	2.0	55	1.5	2.5	3.0	2.0	16.2	1.99
398587	629	930	4.0	58*	1.0	2.0	2.8*	1.5	7.4	1.68*
398589	627	927	3.0*	70	1.5	2.5	3.0	2.0	6.8	0.73
398590	709	928	2.5	72	2.0	2.0	3.2	2.0	6.9	0.64
398591	709	929	3.0	68	1.5	2.0	3.0	2.0	7.6	1.04
398593	709	930	3.0	63*	1.5	2.5	3.0	2.0	7.0	0.86
398594	625	925	5.0	125	1.5	5.0	3.0	4.5	6.7	0.93
398595	701	925	3.0	63	2.0	3.0	3.0	2.0	6.7	1.00
398596	701	927	3.5	74	1.0	2.0	2.8	1.5	8.0	1.20
398597	707	927	4.0	73	1.0	2.0	3.0	2.5	7.5	1.06
398602	627	927	3.0	67*	1.0	3.0	2.5	2.5	7.0	1.61
398603	711	930	3.0	72	1.5	2.5	3.0	1.5	6.6	0.79
398605	617	923	4.5	149	1.5	4.0	3.8	2.0	10.1	1.54
398607	701	1001	3.5	72	1.5	2.0	2.8	1.5	9.2	1.04
398608	621	928	1.5	52*	2.0	3.0	3.0	2.0	11.8	1.37
398610	701	1001	4.0	75	1.5	2.5	3.2	1.0	8.0	1.34
398612	701	930	3.0	65	1.5	2.0	3.2	2.0	7.3	0.96
398613	707	1001	3.5	69	1.5	2.0	3.0	1.5	8.2	0.98
398614	627	923	3.5	69*	1.5	2.5	3.5	1.5	8.3	1.71
398616	616	920	1.5	40	1.5	2.5	3.2	1.0	24.2	1.47
398618	617	923	2.5	53	1.5	2.5	3.5	1.5	14.6*	1.53
398622	617	927	2.5	38	1.0	2.0	2.8	--	18.6*	0.83
398623	614	919	2.0	38	1.5	2.0	2.8	--	15.6*	1.35*
398627	617	920	2.0	42	1.5	3.0	2.8	--	15.8*	1.33
398629	621	923	2.5	49*	1.0	1.5	2.5	2.0	17.3	2.10*
398630	624	929	3.5	57	1.0	1.5	2.2	--	10.4*	0.86
398632	621	922	2.0	50*	1.5	2.0	3.0	2.0	17.0	1.38

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398560	V	44.4 <sup>w</sup>	18.9 <sup>w</sup>	14.6	3.5	16.5	57.5	7.9
398561	V	42.2 <sup>w</sup>	20.8 <sup>w</sup>	11.8	3.7	20.5	57.5	6.5
398562	V	43.0 <sup>w</sup>	19.6 <sup>w</sup>	10.8	3.3	23.7	54.7	7.4
398563	V	48.5 <sup>w</sup>	15.8 <sup>w</sup>	12.2	3.2	26.5	52.0	6.2
398564	V	44.0 <sup>w</sup>	17.7 <sup>w</sup>	10.2	3.7	18.8	60.0	7.4
398567	V	41.5 <sup>w</sup>	18.5 <sup>w</sup>	11.2	3.1	19.0	58.1	8.7
398568	V	42.2 <sup>w</sup>	19.6 <sup>w</sup>	10.4	2.9	15.3	63.6	7.9
398569	V	46.4 <sup>w</sup>	17.7 <sup>w</sup>	12.3	3.0	22.4	55.8	6.6
398571	V	43.6	17.7	11.3	3.3	19.0	59.4	7.0
398573	V	44.1	19.1	11.1	3.2	23.6	56.9	5.3
398574	V	45.5 <sup>w</sup>	16.9 <sup>w</sup>	10.9	3.0	17.8	60.8	7.5
398576	V	46.4 <sup>w</sup>	16.5 <sup>w</sup>	12.2	3.2	17.3	59.2	8.1
398577	V	45.0 <sup>w</sup>	18.3 <sup>w</sup>	11.8	3.2	20.6	56.7	7.7
398579	V	44.4	17.6	12.3	3.1	19.7	57.7	7.2
398581	V	46.7	16.0	12.5	3.4	19.2	57.9	7.0
398582	V	45.0	17.8	12.6	3.4	24.0	54.6	5.4
398583	V	47.3	17.6	12.5	3.1	22.5	56.2	5.6
398584	V	43.8	18.8	12.4	2.8	20.3	58.6	5.9
398585	V	44.9	19.3	12.0	3.1	21.5	57.3	6.1
398586	V	43.9	19.4	12.6	3.2	23.4	54.9	5.9
398587	V	41.6 <sup>w</sup>	17.6 <sup>w</sup>	11.3	3.6	22.2	55.5	7.3
398589	V	56.3	8.2	13.3	3.9	20.4	54.2	8.1
398590	V	54.5	9.2	13.6	4.1	19.8	53.9	8.6
398591	V	49.9 <sup>w</sup>	12.7 <sup>w</sup>	12.9	3.9	20.5	53.7	9.0
398593	V	55.0	9.5	13.2	4.3	19.9	54.1	8.6
398594	V	47.0 <sup>w</sup>	14.1 <sup>w</sup>	11.5	4.3	26.0	51.7	6.5
398595	V	53.7	10.2	13.3	3.7	20.6	54.2	8.1
398596	V	50.3	13.2	13.3	3.7	18.4	56.3	8.3
398597	V	52.0	11.1	13.0	3.7	22.1	53.2	8.0
398602	V	51.9	11.8	13.1	3.8	17.9	56.6	8.6
398603	V	52.1	11.9	13.3	3.9	20.6	54.4	7.7
398605	V	48.7	15.8	12.3	3.8	20.6	56.1	7.2
398607	V	49.5	14.7	12.2	4.1	20.3	55.9	7.4
398608	V	47.9	16.4	12.1	3.7	21.6	56.7	5.9
398610	V	51.7	11.7	13.9	3.6	18.1	55.7	8.6
398612	V	54.1	8.5	12.3	4.0	18.2	57.0	8.5
398613	V	52.0 <sup>w</sup>	13.3 <sup>w</sup>	12.9	3.7	19.3	55.4	8.7
398614	V	51.2	11.7	14.2	3.6	15.8	57.4	8.9
398616	V	44.4	18.3	11.0	3.3	19.6	59.6	6.5
398618	V	45.1	15.9	13.9	4.4	19.6	53.0	9.2
398622	V	47.6 <sup>w</sup>	17.5 <sup>w</sup>	12.2	3.1	22.4	56.0	6.3
398623	V	45.3 <sup>w</sup>	18.3 <sup>w</sup>	11.3	3.0	17.5	60.6	7.6
398627	V	45.6 <sup>w</sup>	18.5 <sup>w</sup>	11.5	3.0	17.7	60.7	7.2
398629	V	44.2	18.8	11.0	3.3	22.5	57.3	5.8
398630	V	45.6 <sup>w</sup>	16.7 <sup>w</sup>	11.8	3.4	21.3	56.7	6.8
398632	V	44.8	18.6	11.2	3.2	27.5	52.8	5.3

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398633		Chungchong Puk	South Korea	South Korea	1975	V
398647		Chungchong Puk	South Korea	South Korea	1975	V
398649		Chungchong Puk	South Korea	South Korea	1975	V
398650		Chungchong Puk	South Korea	South Korea	1975	V
398651		Chungchong Puk	South Korea	South Korea	1975	V
398653		Chungchong Puk	South Korea	South Korea	1975	V
398658		Chungchong Puk	South Korea	South Korea	1975	V
398659		Chungchong Puk	South Korea	South Korea	1975	V
398660		Chungchong Puk	South Korea	South Korea	1975	V
398661		Chungchong Puk	South Korea	South Korea	1975	V
398662		Chungchong Puk	South Korea	South Korea	1975	V
398663		Chungchong Puk	South Korea	South Korea	1975	V
398665		Chungchong Puk	South Korea	South Korea	1975	V
398668		Chungchong Puk	South Korea	South Korea	1975	V
398670		Chungchong Puk	South Korea	South Korea	1975	V
398671		Chungchong Puk	South Korea	South Korea	1975	V
398673		Chungchong Nam	South Korea	South Korea	1975	V
398675		Chungchong Nam	South Korea	South Korea	1975	V
398676		Chungchong Nam	South Korea	South Korea	1975	V
398677		Chungchong Nam	South Korea	South Korea	1975	V
398678		Chungchong Nam	South Korea	South Korea	1975	V
398679		Chungchong Nam	South Korea	South Korea	1975	V
398683		Chungchong Nam	South Korea	South Korea	1975	V
398688		Chungchong Nam	South Korea	South Korea	1975	V
398689		Chungchong Nam	South Korea	South Korea	1975	V
398690		Chungchong Nam	South Korea	South Korea	1975	V
398692		Chungchong Nam	South Korea	South Korea	1975	V
398699		Chungchong Nam	South Korea	South Korea	1975	V
398703		Chungchong Nam	South Korea	South Korea	1975	V
398711		Chungchong Nam	South Korea	South Korea	1975	V
398713		Chungchong Nam	South Korea	South Korea	1975	V
398714		Chungchong Nam	South Korea	South Korea	1975	V
398715		Chungchong Nam	South Korea	South Korea	1975	V
398722		Chungchong Nam	South Korea	South Korea	1975	V
398723		Chungchong Nam	South Korea	South Korea	1975	V
398725		Chungchong Nam	South Korea	South Korea	1975	V
398733		Chungchong Nam	South Korea	South Korea	1975	V
398740		Chungchong Nam	South Korea	South Korea	1975	V
398745		Chungchong Nam	South Korea	South Korea	1975	V
398756		Chungchong Nam	South Korea	South Korea	1975	V
398760		Chungchong Nam	South Korea	South Korea	1975	V
398770		Chungchong Nam	South Korea	South Korea	1975	V
398777		Chungchong Nam	South Korea	South Korea	1975	V
398778		Chungchong Nam	South Korea	South Korea	1975	V
398779		Chungchong Nam	South Korea	South Korea	1975	V
398780		Chungchong Nam	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398633	V	N	P	Lt	E	Ssp	Br	I	Y	Br		3F
398647	V	D	P	Lt	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398649	V	D	W	G	Sa	Ssp	Br	I	Rbf	Rbf	Snet	3N
398650	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	3N
398651	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	3N
398653	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
398658	V	D	P	T	E	Ssp	Br	D	Y	Br		4N
398659	V	D	P	T	Sa	Ssp	Br	D	Y	Br		3N
398660	V	D	W	T	A	Ssp	Br	D	Y	Y	Sdef	3N
398661	V	D	W	G	Sa	Ssp	Br	I	Y	Y	Sdef	3N
398662	V	D	W	T	A	Ssp	Br	D	Y	Y	Def	3N
398663	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3F
398665	V	D	P	G	E	Ssp	Br	I	Y	Y	Sdef	3N
398668	V	D	P	T	E	Ssp	Br	D	Y	Br	Sdef, Vhil	3N
398670	V	D	P	Lt	Sa	Sp	Br	I	Rbr	Rbr	Net	2N
398671	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	1N
398673	V	D	P	T	E	N	Br	I	Y	Br		4F
398675	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
398676	V	D	P	T	Sa	N	Br	D	Br	Br	St	1N
398677	V	D	W	T	Sa	N	Br	D	Bl	Bl		2N
398678	V	D	W	T	Sa	N	Br	D	Bl	Bl		2N
398679	V	D	W	T	A	Sdn	Br	I	Bl	Bl		2N
398683	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
398688	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
398689	V	D	P	G	Sa	Ssp	Bl	I	Gn	Gn	Gnc	2N
398690	V	D	P	G	Sa	N	Bl	D	Gn	Gn	Gnc	2N
398692	V	D	P	G	Sa	Ssp	Bl	I	Gn	Gn	Gnc	2N
398699	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc, Sdef	2N
398703	V	D	P	G	E	N	Tn	I	Y	Y		2N
398711	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398713	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398714	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	1N
398715	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398722	V	D	W	T	Sa	N	Br	I	Gn	Brbl	Vhil	1N
398723	V	D	P	T	Sa	Ssp	Br	I	Gn	Br	Gnc	3N
398725	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398733	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3F
398740	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
398745	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398756	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398760	V	D	P	T	E	N	Br	I	Gn	Bl	Sad	3F
398770	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398777	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Def, Gnc	3N
398778	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc, Vhil	2N
398779	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		2N
398780	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398633	630	923	4.5	86*	2.0*	4.0	2.8	4.5	7.1	1.03
398647	625	929	2.5	54	1.0	2.0	2.5	--	14.0	1.43
398649	617	917*	1.5	30	1.0	1.5	3.0	--	23.8*	1.00
398650	611	925	2.5	37	1.5	2.0	2.8	--	20.2*	0.84
398651	619	926	2.0	40	1.0	2.0	2.5	--	21.0*	1.12*
398653	617	925	2.0*	36	1.5	2.5	2.5	--	19.2*	1.01
398658	627	1002	4.0	66	1.5	2.5	3.0	3.0	15.6	1.47
398659	629	925	3.5	60	1.5	2.5	2.8	3.0	14.6	1.58
398660	622	1001	2.0	43	1.0	1.0	3.0	2.0	19.3	1.30
398661	622	926	2.5	60	1.5	2.0	2.8	2.0	16.0	1.83
398662	619	926	2.5	60	1.5	2.5	3.0	1.0	20.4	2.01
398663	622	923	2.5	61*	2.0	2.5	2.8	--	18.7*	1.49
398665	627	915	3.0	59	2.0*	2.5*	3.2	1.5	18.6*	2.32
398668	701	919	3.0	68	1.0	1.5	3.5	1.0	16.0	1.94
398670	621	921	2.0	35	1.0	2.0	2.8	--	19.0*	1.29
398671	621	923	4.0*	51*	1.5	3.0	2.0	--	6.4	1.05
398673	701	1001	3.0	65	2.0	3.0	3.0	2.0	9.6	1.78
398675	622	920	2.5	46	1.5	2.5	2.8	--	18.6	1.54
398676	711	930	3.5	51	1.0	2.0	2.8	--	11.0	0.93
398677	622	921	3.5	45	1.5	2.0	2.5	--	7.5	0.91
398678	622	923	3.5	48*	1.5	2.5	2.5	--	7.8	0.78
398679	705	927	4.0*	48	1.0	2.0	2.5	--	7.7	0.75
398683	621	918	2.0	41	1.5	2.5	3.0	--	21.0	1.52
398688	701	1001	4.0*	54	1.0	1.5	2.8	1.5	7.3	1.64
398689	630	919	3.0	60*	1.5	3.0	2.0	1.5	10.2	1.48
398690	621	919	2.5	68	1.5	2.5	2.5	1.5	8.2	1.04
398692	622	919	2.0	58	1.5	2.0	2.5	1.5	9.0	1.11
398699	622	922	3.0	28	1.0	3.0	3.2	1.0	24.5	1.09
398703	630	926	4.0*	52	1.0	1.5	2.2	2.0	7.2	1.63
398711	622	929	2.5	62	1.0	2.0	3.5	2.0	15.0	1.85
398713	621	927	2.5	44	2.0	3.0	3.2	1.5	23.4	1.52
398714	624	923	4.5	51*	1.0	2.0	1.5 <sup>^</sup>	--	5.6 <sup>^</sup>	0.95 <sup>^</sup>
398715	625	913	2.5	55	1.5	2.5	2.8	--	15.4	2.10
398722	627	921	4.0	50	1.5	2.5	2.2	2.5	7.0	0.84
398723	622	917	2.5	46	1.0	1.5	2.5	1.0	8.0	1.27
398725	622	923	3.0	58	1.0	2.0	2.0	--	13.4	1.78
398733	626	1001	4.5	69*	1.5	2.5	2.2	--	15.2	1.30
398740	622	924	3.0	68*	1.5	2.5	2.8	--	17.6	1.55
398745	619	919	2.0	40	1.5	2.5	1.8	1.0	11.5	1.77
398756	621	923	2.5	54	1.5	3.0	2.5	--	17.0	1.82
398760	621	915	3.0	44	1.5	3.0	2.8	--	19.3	1.69
398770	621	919	3.0	50	1.5	3.0	2.8	--	15.9	1.60
398777	621	915	2.0	38	1.5	3.0	3.8	2.0	24.2*	1.36
398778	619	923	2.5	38*	2.0*	3.5	3.2	2.0	20.4	1.05
398779	621	926	2.5	48*	2.0	3.0	3.0	1.0	28.4	1.80
398780	621	921	2.5	48	2.0	3.5	2.8	--	16.3	2.40



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398633	V	50.1 <sup>w</sup>	13.5 <sup>w</sup>	11.6	4.1	18.8	57.8	7.7
398647	V	44.9 <sup>w</sup>	18.8 <sup>w</sup>	10.0	3.0	22.6	58.1	6.3
398649	V	47.8 <sup>w</sup>	17.4 <sup>w</sup>	11.4	3.1	18.8	59.6	7.0
398650	V	47.4 <sup>w</sup>	18.9 <sup>w</sup>	11.1	3.4	30.6	49.2	5.8
398651	V	47.7 <sup>w</sup>	18.2 <sup>w</sup>	11.4	3.4	25.4	54.0	5.8
398653	V	47.7 <sup>w</sup>	18.2 <sup>w</sup>	11.6	3.6	19.3	58.9	6.6
398658	V	47.8	16.8	12.1	3.1	21.4	56.3	7.1
398659	V	41.8	19.7	10.8	4.2	20.4	58.3	6.3
398660	V	46.9	17.6	12.4	3.3	19.0	58.4	6.9
398661	V	46.1	17.1	12.0	3.4	19.1	58.4	7.1
398662	V	47.1	17.3	12.8	3.3	20.8	56.9	6.2
398663	V	46.4 <sup>w</sup>	15.9 <sup>w</sup>	15.1	3.3	19.1	54.0	8.4
398665	V	46.1	18.4	12.0	3.7	22.2	56.0	6.1
398668	V	48.1	16.5	12.8	4.1	20.1	55.3	7.8
398670	V	44.0 <sup>w</sup>	19.5 <sup>w</sup>	12.0	3.5	21.5	56.4	6.6
398671	V	47.2 <sup>w</sup>	15.3 <sup>w</sup>	11.8	3.8	18.1	57.9	8.4
398673	V	45.0	15.2	11.4	3.7	18.9	58.4	7.5
398675	V	45.4 <sup>w</sup>	18.7 <sup>w</sup>	9.8	3.1	20.8	59.1	7.2
398676	V	47.2 <sup>w</sup>	16.6 <sup>w</sup>	11.4	2.9	21.8	56.4	7.4
398677	V	48.5 <sup>w</sup>	14.0 <sup>w</sup>	12.9	2.9	16.2	58.5	9.6
398678	V	48.2 <sup>w</sup>	12.5 <sup>w</sup>	12.8	3.0	16.0	59.2	9.0
398679	V	47.6 <sup>w</sup>	15.5 <sup>w</sup>	11.5	3.0	27.0	51.8	6.7
398683	V	46.6 <sup>w</sup>	17.6 <sup>w</sup>	11.3	3.4	18.8	59.5	6.9
398688	V	47.0	16.1	12.2	3.5	25.3	53.3	5.8
398689	V	42.2 <sup>w</sup>	18.4 <sup>w</sup>	10.0	3.3	23.9	54.5	8.3
398690	V	45.2 <sup>w</sup>	17.9 <sup>w</sup>	11.1	3.4	19.8	58.6	7.0
398692	V	45.4 <sup>w</sup>	17.9 <sup>w</sup>	11.9	3.8	19.8	57.1	7.4
398699	V	45.5 <sup>w</sup>	18.5 <sup>w</sup>	12.2	3.1	20.1	58.2	6.3
398703	V	48.3	15.5	12.8	3.4	23.6	54.3	5.9
398711	V	47.3	16.1	12.5	3.3	18.5	58.6	7.0
398713	V	46.4	16.9	11.5	3.4	22.6	55.6	6.8
398714	V	47.6 <sup>^w</sup>	15.3 <sup>^w</sup>	11.7 <sup>^</sup>	3.6 <sup>^</sup>	22.6 <sup>^</sup>	54.9 <sup>^</sup>	7.2 <sup>^</sup>
398715	V	48.5 <sup>w</sup>	16.7 <sup>w</sup>	11.0	2.8	19.3	59.6	7.3
398722	V	51.3 <sup>w</sup>	14.5 <sup>w</sup>	11.6	3.3	22.8	55.6	6.7
398723	V	46.9 <sup>w</sup>	16.4 <sup>w</sup>	10.2	2.9	16.4	62.6	7.8
398725	V	45.8 <sup>w</sup>	17.4 <sup>w</sup>	11.0	3.1	17.7	60.4	7.8
398733	V	49.4 <sup>w</sup>	17.0 <sup>w</sup>	12.2	3.3	21.1	55.9	7.6
398740	V	47.0 <sup>w</sup>	17.8 <sup>w</sup>	12.1	3.4	21.7	55.7	7.1
398745	V	45.3	17.4	12.1	3.3	18.3	58.8	7.5
398756	V	46.2 <sup>w</sup>	17.8 <sup>w</sup>	10.6	3.4	22.5	57.3	6.2
398760	V	46.8 <sup>w</sup>	18.2 <sup>w</sup>	11.7	3.3	18.2	58.3	8.4
398770	V	45.9 <sup>w</sup>	18.3 <sup>w</sup>	10.6	3.7	20.2	59.0	6.5
398777	V	45.3 <sup>w</sup>	18.7 <sup>w</sup>	15.1	3.6	19.8	55.3	6.2
398778	V	46.6 <sup>w</sup>	18.5 <sup>w</sup>	12.3	3.2	20.5	57.4	6.7
398779	V	45.7 <sup>w</sup>	18.9 <sup>w</sup>	12.2	2.7	30.5	48.4	6.3
398780	V	44.7 <sup>w</sup>	18.0 <sup>w</sup>	10.6	3.4	20.2	58.8	7.1

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398782		Chungchong Nam	South Korea	South Korea	1975	V
398783		Chungchong Nam	South Korea	South Korea	1975	V
398784		Chungchong Nam	South Korea	South Korea	1975	V
398785		Chungchong Nam	South Korea	South Korea	1975	V
398786		Chungchong Nam	South Korea	South Korea	1975	V
398787		Chungchong Nam	South Korea	South Korea	1975	V
398792		Chungchong Nam	South Korea	South Korea	1975	V
398793		Chungchong Nam	South Korea	South Korea	1975	V
398795		Chungchong Nam	South Korea	South Korea	1975	V
398796		Chungchong Nam	South Korea	South Korea	1975	V
398797		Chungchong Nam	South Korea	South Korea	1975	V
398798		Chungchong Nam	South Korea	South Korea	1975	V
398799		Chungchong Nam	South Korea	South Korea	1975	V
398800		Chungchong Nam	South Korea	South Korea	1975	V
398809		Chungchong Nam	South Korea	South Korea	1975	V
398810		Chungchong Nam	South Korea	South Korea	1975	V
398811		Chungchong Nam	South Korea	South Korea	1975	V
398812		Chungchong Nam	South Korea	South Korea	1975	V
398818		Chungchong Nam	South Korea	South Korea	1975	V
398819		Chungchong Nam	South Korea	South Korea	1975	V
398825		Chungchong Nam	South Korea	South Korea	1975	V
398828		Chungchong Nam	South Korea	South Korea	1975	V
398829		Chungchong Nam	South Korea	South Korea	1975	V
398833		Chungchong Nam	South Korea	South Korea	1975	V
398834		Chungchong Nam	South Korea	South Korea	1975	V
398835		Chungchong Nam	South Korea	South Korea	1975	V
398836		Chungchong Nam	South Korea	South Korea	1975	V
398837		Chungchong Nam	South Korea	South Korea	1975	V
398840		Chungchong Nam	South Korea	South Korea	1975	V
398844		Chungchong Nam	South Korea	South Korea	1975	V
398845		Chungchong Nam	South Korea	South Korea	1975	V
398846		Chungchong Nam	South Korea	South Korea	1975	V
398851		Chungchong Nam	South Korea	South Korea	1975	V
398852		Chungchong Nam	South Korea	South Korea	1975	V
398855		Chungchong Nam	South Korea	South Korea	1975	V
398860		Chungchong Nam	South Korea	South Korea	1975	V
398861		Chungchong Nam	South Korea	South Korea	1975	V
398862		Chungchong Nam	South Korea	South Korea	1975	V
398863		Chungchong Nam	South Korea	South Korea	1975	V
398865		Kyonggi	South Korea	South Korea	1975	V
398866		Kyonggi	South Korea	South Korea	1975	V
398869		Kyonggi	South Korea	South Korea	1975	V
398870		Kyonggi	South Korea	South Korea	1975	V
398874		Kyonggi	South Korea	South Korea	1975	V
398876		Kyonggi	South Korea	South Korea	1975	V
398882		Kyonggi	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398782	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
398783	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
398784	V	D	P	T	E	Ssp	Br	I	Gn	Brbl	Gnc, Vhil	2N
398785	V	D	P	G	Sa	Ssp	Br	D	Gn	Bf		2N
398786	V	D	P	G	E	Ssp	Br	I	Gn	Lbf	Gnc	3N
398787	V	D	P	G	E	N	Br	I	Gn	Lbf	Gnc	3N
398792	V	D	W	Lt	Sa	N	Br	I	Gn	Brbl	Vhil	1N
398793	V	D	W	Lt	Sa	N	Br	I	Gn	Brbl	Vhil	1N
398795	V	D	P	T	E	Ssp	Br	D	Gn	Br		3N
398796	V	D	P	T	E	Ssp	Br	I	Gn	Br		3N
398797	V	D	P	T	Sa	Ssp	Br	D	Gn	Brbl	Vhil	2N
398798	V	D	P	T	E	Ssp	Br	I	Gn	Br		2N
398799	V	D	P	T	E	Ssp	Br	D	Gn	Br		3N
398800	V	D	P	T	E	Ssp	Br	I	Gn	Br		2N
398809	V	D	P	T	A	Ssp	Dbr	I	Gn	Br	Gnc	2F
398810	V	D	P	G	Sa	N	Br	I	Gn	Gn	Gnc, Sdef	2N
398811	V	D	P	G	A	Ssp	Br	I	Gn	Lbf	Gnc	3N
398812	V	D	P	T	A	Ssp	Dbr	I	Gn	Lbr	Gnc	2F
398818	V	D	P	T	Sa	Ssp	Br	D	Rbr	Rbr	Snet	2N
398819	V	N	P	Lt	E	N	Br	I	Y	Br		3F
398825	V	D	W	T	Sa	N	Br	S	Bl	Bl		3N
398828	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		4F
398829	V	D	W	T	Sa	Ssp	Bl	I	Gn	Br		2N
398833	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
398834	V	D	P	G	E	Ssp	Tn	I	Y	Y		2N
398835	V	D	P	G	A	N	Tn	I	Y	Y	Vhil	2N
398836	V	D	P	Lt	Sa	Ssp	Tn	I	Y	Brbl	Vhil	2N
398837	V	N	P	T	Sa	Ssp	Br	I	Y	Br		4N
398840	V	D	P	G	Sa	N	Br	D	Y	G		2N
398844	V	D	P	G	Sa	N	Bl	D	Gn	Gn	Gnc	2N
398845	V	D	P	G	A	N	Bl	I	Gn	Bf		3N
398846	V	D	P	G	Sa	Ssp	Bl	I	Gn	Gn	Gnc	2N
398851	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
398852	V	D	W	T	A	Ssp	Tn	I	Ggn	Bl		2N
398855	V	D	P	T	E	Ssp	Br	I	Gn	Br	Gnc	2N
398860	V	D	P	T	Sa	N	Tn	S	G	Brbl	Vhil	2N
398861	V	D	W	T	Sa	N	Bl	I	Gn	Bl		2N
398862	V	D	P	T	E	Ssp	Tn	I	Rbr	Rbr	Snet	2N
398863	V	D	P	T	E	Ssp	Br	D	Rbr	Rbr	Snet	2N
398865	V	D	P	T	Sa	Ssp	Br	I	Gn	Br	Def	3N
398866	V	D	P	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
398869	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
398870	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf	Sdef, Vhil	2N
398874	V	N	P	T	E	Ssp	Br	I	Y	Br		3N
398876	V	D	P	G	Sa	Ssp	Br	D	Y	Bf	Sdef	3N
398882	V	D	P	T	Sa	Ssp	Br	I	Y	Bl	Vsad	3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398782	621	921	2.5	48	2.5	3.5	2.5	--	15.9	1.89
398783	621	921	2.5	45	2.0	3.5	3.0	--	15.9	1.79
398784	621	923	2.5	54	2.0	3.5	2.8	2.0	16.6	1.14
398785	621	920	2.5	60	2.0	4.0	2.2	2.0	16.5	2.13
398786	622	919	2.5	56	1.5	2.5	2.8	1.5	15.8*	1.89
398787	622	920	2.5	65	2.0	2.5	3.0	1.5	15.4	1.99
398792	630	925	3.5	45	1.5	2.5	2.0	2.5	6.8	0.71
398793	701	925	4.0	48*	1.5	3.0	2.0	2.5	6.4	0.79
398795	619	924	3.0	48*	1.5	2.5	3.2	1.5	18.2	1.69
398796	621	923	2.5	43	2.0	2.5	3.2	1.0	19.4*	1.08
398797	622	925	3.0	53	2.0	3.5	2.8	1.0	26.4	1.85
398798	621	926	2.5	52	1.0	2.0	3.2	1.5	19.7*	1.26
398799	621	925	2.5	41	1.0	2.0	3.0	1.5	19.4	1.41
398800	621	924	2.5	40	1.5	2.5	3.2	1.0	19.5*	1.55
398809	622	927	2.5	45	1.0	1.0	3.0	2.0	14.2	1.05
398810	622	925	2.5	50*	1.5	2.5	2.8	1.0	13.1	1.23
398811	621	923	3.0	55	1.0	2.0	2.8	1.5	14.2	1.03
398812	625	927	3.0	45	1.5	2.5	2.8	1.5	15.1	1.26
398818	621	927	2.5	38	2.0	3.0	2.0	--	19.2	1.39
398819	628	924	4.5	115	1.5	4.0*	2.2	3.5	6.8	1.16
398825	626	929	3.0	40	2.0	3.0	1.8	--	6.0	1.31
398828	711	929	3.5	61*	2.0	3.0	2.5	--	11.0	1.02
398829	701	927	3.5	55	1.5	3.0	2.2	3.0	8.0	1.07
398833	619	919	3.0	44	1.5	2.5	2.5	1.0	7.4	2.51
398834	621	925	2.5	52	1.0	2.0	2.2	2.5	12.4	1.72
398835	622	927	3.0	42	1.0	2.0	3.2	1.0	10.6	1.24
398836	624	927	2.5	42	1.5	2.5	2.0	2.5	6.6	0.69
398837	621	925	4.0	140*	2.0	4.0	3.0	2.5	11.9	1.18
398840	619	921	2.5	43	2.0	3.0	2.8	2.0	20.8	1.76
398844	624	919	2.5	60	1.5	2.5	2.0	2.5	7.2	1.57
398845	704	929	3.0	65	2.0	3.0	2.2	2.5	7.7	1.15
398846	627	919	2.5	58	1.5	2.5	2.0	2.5	7.6	1.40
398851	629	924	3.5	46	1.5	3.0	2.2	2.5	7.2	0.87
398852	624	921	3.5	52	1.5	2.5	2.2	2.5	7.0	1.16
398855	621	923	3.0	58	1.5	2.5	2.5	1.5	19.0*	1.00
398860	629	919	3.0	52	2.0	3.0	1.8	3.0	7.0	1.91
398861	703	925	4.0	55	1.5	2.5	2.0	2.5	7.2	0.84
398862	625	923	3.5	54	1.0	2.0	2.0	--	14.9	1.50
398863	621	923	3.5	48	1.0	2.0	2.0	--	7.0	0.87
398865	619	917	1.5	52*	1.5	2.5	3.2*	2.5	12.8	1.43*
398866	627	923	4.0	50	2.0*	4.0	2.0	2.0	7.8	0.91
398869	621	922	2.0	36	1.0	2.0	2.2	1.0	13.2	1.19
398870	622	924	2.0	37*	1.5	2.0*	2.8*	1.0	11.4*	0.93*
398874	623	1003	4.5	132	1.5	2.5	2.8	4.0	8.2	0.73
398876	622	925	2.5	71*	1.5	2.5	3.0	1.0	19.6*	2.12
398882	617	924	3.0	56	1.5	3.0	2.5	--	18.9	2.12

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398782	V	45.6 <sup>w</sup>	18.2 <sup>w</sup>	10.4	3.4	17.8	61.2	7.2
398783	V	46.5 <sup>w</sup>	17.7 <sup>w</sup>	10.5	3.5	19.3	59.7	7.0
398784	V	46.5 <sup>w</sup>	19.6 <sup>w</sup>	11.3	3.3	29.9	50.1	5.5
398785	V	45.8 <sup>w</sup>	18.0 <sup>w</sup>	12.0	2.6	21.0	57.4	7.0
398786	V	46.8 <sup>w</sup>	17.5 <sup>w</sup>	12.0	3.8	20.2	56.5	7.5
398787	V	47.4 <sup>w</sup>	18.1 <sup>w</sup>	12.0	3.5	20.6	56.2	7.7
398792	V	49.7 <sup>w</sup>	14.9 <sup>w</sup>	11.8	3.4	31.5	47.3	6.1
398793	V	49.9 <sup>w</sup>	15.0 <sup>w</sup>	11.9	3.1	24.4	54.0	6.5
398795	V	48.8 <sup>w</sup>	16.7 <sup>w</sup>	12.3	3.5	18.8	58.3	7.2
398796	V	47.3 <sup>w</sup>	17.6 <sup>w</sup>	12.5	3.2	21.3	56.1	6.9
398797	V	45.3 <sup>w</sup>	19.0 <sup>w</sup>	12.7	2.7	28.2	49.5	6.8
398798	V	48.7 <sup>w</sup>	17.9 <sup>w</sup>	12.0	3.6	17.5	59.4	7.5
398799	V	47.8 <sup>w</sup>	18.0 <sup>w</sup>	12.5	3.3	21.4	55.8	7.0
398800	V	49.2 <sup>w</sup>	17.3 <sup>w</sup>	12.5	3.4	20.7	56.3	7.1
398809	V	44.7 <sup>w</sup>	19.4 <sup>w</sup>	10.4	2.8	28.3	52.8	5.6
398810	V	44.3 <sup>w</sup>	19.4 <sup>w</sup>	11.5	3.1	24.2	54.1	7.1
398811	V	46.5 <sup>w</sup>	17.0 <sup>w</sup>	10.4	3.7	21.2	57.5	7.2
398812	V	40.0 <sup>w</sup>	19.4 <sup>w</sup>	10.3	2.9	24.7	55.9	6.2
398818	V	40.5 <sup>w</sup>	19.2 <sup>w</sup>	10.8	2.8	23.1	56.1	7.1
398819	V	47.5 <sup>w</sup>	13.8 <sup>w</sup>	12.1	4.2	20.3	56.1	7.3
398825	V	40.7 <sup>w</sup>	14.8 <sup>w</sup>	11.5	3.8	22.4	55.0	7.3
398828	V	42.9 <sup>w</sup>	15.8 <sup>w</sup>	11.3	3.6	16.9	59.8	8.5
398829	V	42.6 <sup>w</sup>	14.8 <sup>w</sup>	12.7	3.3	17.9	58.2	7.9
398833	V	45.9	18.0	12.6	3.2	22.6	55.8	5.8
398834	V	46.1	16.6	12.3	2.9	29.7	49.9	5.2
398835	V	46.0	16.3	13.1	3.9	21.6	54.3	7.1
398836	V	50.7	12.1	13.3	3.5	21.4	54.9	7.0
398837	V	45.9	17.1	11.3	3.8	34.2	45.6	5.1
398840	V	45.5	17.8	11.6	3.1	19.6	58.3	7.4
398844	V	40.1 <sup>w</sup>	17.1 <sup>w</sup>	11.7	3.4	15.6	60.4	9.0
398845	V	43.1 <sup>w</sup>	14.2 <sup>w</sup>	12.5	3.4	18.0	57.1	9.0
398846	V	39.8 <sup>w</sup>	17.3 <sup>w</sup>	11.4	3.1	14.9	61.6	9.1
398851	V	45.2 <sup>w</sup>	14.7 <sup>w</sup>	12.2	3.3	25.8	52.1	6.5
398852	V	44.1 <sup>w</sup>	14.4 <sup>w</sup>	14.1	3.5	20.1	54.3	8.0
398855	V	43.5 <sup>w</sup>	18.2 <sup>w</sup>	12.2	3.2	19.1	58.1	7.4
398860	V	47.8 <sup>w</sup>	14.9 <sup>w</sup>	13.4	3.7	18.6	56.9	7.4
398861	V	50.1 <sup>w</sup>	15.1 <sup>w</sup>	12.0	3.3	23.8	54.4	6.5
398862	V	40.8 <sup>w</sup>	19.9 <sup>w</sup>	12.7	3.5	22.6	55.1	6.1
398863	V	42.4 <sup>w</sup>	15.0 <sup>w</sup>	12.7	3.8	19.8	55.5	8.2
398865	V	40.9 <sup>w</sup>	18.7 <sup>w</sup>	12.7	3.6	24.0	54.0	5.7
398866	V	47.5 <sup>w</sup>	15.2 <sup>w</sup>	12.9	3.6	19.5	56.2	7.8
398869	V	44.8	17.5	12.5	3.4	17.8	59.0	7.4
398870	V	43.6	17.9	12.5	3.3	18.3	59.1	6.8
398874	V	47.8 <sup>w</sup>	16.7 <sup>w</sup>	12.2	3.8	24.2	53.7	6.1
398876	V	46.4	17.9	12.4	4.0	21.1	56.5	6.0
398882	V	42.8	19.1	11.8	3.5	20.3	57.4	7.0

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
398892		Kangwon	South Korea	South Korea	1975	V
398893		Kangwon	South Korea	South Korea	1975	V
398894		Kangwon	South Korea	South Korea	1975	V
398895		Kangwon	South Korea	South Korea	1975	V
398897		Kangwon	South Korea	South Korea	1975	V
398900		Kangwon	South Korea	South Korea	1975	V
398907		Kangwon	South Korea	South Korea	1975	V
398911		Kangwon	South Korea	South Korea	1975	V
398917		Chungchong Puk	South Korea	South Korea	1975	V
398918		Chungchong Puk	South Korea	South Korea	1975	V
398928		Chungchong Nam	South Korea	South Korea	1975	V
398932		Cholla Puk	South Korea	South Korea	1975	V
398943		Cholla Nam	South Korea	South Korea	1975	V
398947		Cholla Nam	South Korea	South Korea	1975	V
398948		Cholla Nam	South Korea	South Korea	1975	V
398949		Cholla Nam	South Korea	South Korea	1975	V
398951		Cholla Nam	South Korea	South Korea	1975	V
398958		Cholla Nam	South Korea	South Korea	1975	V
398961		Cholla Nam	South Korea	South Korea	1975	V
398962		Cholla Nam	South Korea	South Korea	1975	V
398968		Cholla Nam	South Korea	South Korea	1975	V
398969		Cholla Nam	South Korea	South Korea	1975	V
398971		Cholla Nam	South Korea	South Korea	1975	V
398972		Cholla Nam	South Korea	South Korea	1975	V
398974		Cholla Nam	South Korea	South Korea	1975	V
398976		Kyongsang Puk	South Korea	South Korea	1975	V
398977		Kyongsang Puk	South Korea	South Korea	1975	V
398979		Kyongsang Puk	South Korea	South Korea	1975	V
398984		Kyongsang Puk	South Korea	South Korea	1975	V
398986		Kyongsang Puk	South Korea	South Korea	1975	V
398991		Kyongsang Puk	South Korea	South Korea	1975	V
399000		Kyongsang Nam	South Korea	South Korea	1975	V
399002		Kyongsang Puk	South Korea	South Korea	1975	V
399003		Kyongsang Puk	South Korea	South Korea	1975	V
399007		Kyongsang Puk	South Korea	South Korea	1975	V
399009		Kyongsang Puk	South Korea	South Korea	1975	V
399012		Kyongsang Puk	South Korea	South Korea	1975	V
399013		Kyongsang Puk	South Korea	South Korea	1975	V
399014		Kyongsang Nam	South Korea	South Korea	1975	V
399021		Kyongsang Nam	South Korea	South Korea	1975	V
399024		Kyongsang Nam	South Korea	South Korea	1975	V
399025		Kyongsang Nam	South Korea	South Korea	1975	V
399026		Kyongsang Nam	South Korea	South Korea	1975	V
399029		Kyongsang Nam	South Korea	South Korea	1975	V
399032		Kyongsang Nam	South Korea	South Korea	1975	V
399033		Kyongsang Nam	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
398892	V	D	P	T	E	N	Tn	I	Y	Br		2N
398893	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
398894	V	D	W	G	E	N	Tn	I	Y	Y		2N
398895	V	D	P	G	Sa	N	Br	I	Y	Bf		3N
398897	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398900	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398907	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
398911	V	D	P	G	Sa	N	Br	I	Y	Y	Def	2N
398917	V	D	W	G	Sa	Ssp	Br	I	Y	Y	Def	2N
398918	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398928	V	D	W	T	E	N	Tn	I	Y	Br	Vhil	2N
398932	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
398943	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
398947	V	D	P	G	A	Ssp	Bl	I	Gn	Bf		2N
398948	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3F
398949	V	D	P	G	Sa	Ssp	Br	D	Gn	Bf	Gnc, Sdef	2N
398951	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
398958	V	D	P	G	Sa	Ssp	Bl	I	Gn	Bf		2N
398961	V	D	P	T	Sa	N	Tn	S	Y	Y	Sdef	3N
398962	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
398968	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
398969	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
398971	V	D	W	G	Sa	N	Tn	D	Y	Bf		2N
398972	V	D	W	G	A	N	Tn	D	Y	Bf		2N
398974	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3F
398976	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
398977	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
398979	V	D	P	G	A	N	Br	I	Gn	Lbf	Gnc, Vhil	3N
398984	V	D	W	G	E	Ssp	Br	I	Y	Y	Def	2N
398986	V	D	P	G	A	N	Br	I	Gn	Gn	Gnc	2N
398991	V	D	P	G	Sa	Ssp	Br	D	Y	Bf	Sdef	3N
399000	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399002	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399003	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
399007	V	D	P	Ng	A	Ssp	Bl	I	Gn	Brbl	Gnc, Vhil	2N
399009	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399012	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
399013	V	D	P	T	E	Ssp	Br	I	Br	Br	St	2N
399014	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
399021	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
399024	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399025	V	D	P	T	E	Ssp	Bl	I	Gn	Lbr	Gnc	1N
399026	V	D	P	G	A	Ssp	Br	I	Y	Bf	Def	3N
399029	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399032	V	D	P	G	E	Ssp	Br	D	Y	Bf	Sdef	3N
399033	V	D	P	G	Sa	Ssp	Br	I	Gn	Lbf	Gnc, Sdef	2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
398892	621	925	2.5	52	1.5	2.5	2.2	2.5	9.2	0.81
398893	619	921	3.0	54*	1.5	2.5	1.8	--	17.9	1.64
398894	619	921	2.0	40*	1.0	1.5	2.2	1.0	12.2	1.64
398895	703	930	3.0	60	1.5	2.5	2.2	1.5	10.2	1.07
398897	619	919	2.0	36	1.5	2.5	2.2	2.0	11.9	1.32
398900	619	919	2.0	37	1.5	2.5	2.2	1.5	11.0	1.57
398907	619	921	2.0	48*	2.0	3.0	2.2	1.5	15.0	2.36
398911	619	924	2.0	40	2.5	3.5	3.5	2.5	17.2	0.93
398917	617	922	1.5	38	1.0	2.0	3.0	1.5	22.2*	0.94
398918	619	921	2.0	40	1.5	2.5	2.2	2.0	11.8	1.48
398928	625	912	2.5	78	1.5	1.5	2.8*	1.5	11.0	2.75
398932	705	928	2.5	62	1.0	2.0	2.0	--	8.6	1.26
398943	621	928	3.0	42	1.5	2.0	2.2	--	19.9	1.39
398947	621	920	3.0	61*	1.5	2.5	2.2	2.5	8.8	1.95
398948	621	927	2.5	56	2.0	3.0	2.0	--	20.6	1.93
398949	619	919	3.0	50	1.0	1.5	2.5	1.0	15.4	1.53
398951	619	919	2.5	40	1.5	2.5	2.2	2.0	11.4	1.47
398958	619	919	2.5	63*	1.5	2.5	2.2	2.5	9.2	2.07
398961	621	922	3.0	52	2.0	3.0	3.2	3.0	15.8	1.90
398962	619	921	2.0	38	1.0	2.0	2.2	2.0	12.2	1.63
398968	621	921	2.0	38	1.0	1.5	2.2	2.0	11.8	1.36
398969	617	919	2.0	40	2.0	2.5	2.8	1.0	14.0	1.58
398971	617	919	2.0	32	2.5	3.5	3.2	1.5	15.9	1.18
398972	617	919	2.0	35	2.0	3.0	3.0	1.5	16.2	1.32
398974	621	927	2.5	47	1.0	2.0	2.2	--	22.5	1.42
398976	621	920	2.5	42	1.5	2.5	2.5	2.0	7.3	1.99*
398977	619	924	2.0	54	3.0	4.5	2.5	--	17.3	1.45
398979	630	923	3.5	62	2.0*	4.0*	2.2	1.5	9.5	1.82
398984	617	919	2.0	36	2.0	3.0	3.2	1.0	23.4*	1.23
398986	701	927	3.0	63*	1.0	2.0	2.0	1.0	7.5	1.18
398991	621	919	3.0	58	2.5	3.5	2.8	2.0	11.8	1.57
399000	619	921	2.0	35	1.0	2.0	2.0	1.0	11.6	1.74
399002	619	921	2.0	37	1.5	2.0	2.2	1.5	11.6	1.56
399003	621	921	2.5	39*	1.5	2.0	2.0	1.0	12.1	1.49
399007	719	1002	3.5	47	1.0	2.5	2.0	1.5	7.0	0.78
399009	621	920	2.0	32	1.5	2.5	2.8	1.0	15.4	0.98*
399012	621	921	2.5	34	2.0	3.0	2.2	1.5	7.3	1.55
399013	712	929	4.0	52	1.0	2.0	2.2	--	9.8	1.26
399014	619	917	3.0	44*	1.5	3.0	2.2	1.5	6.8	2.38*
399021	619	917	3.0	42	1.5	2.5	2.5	1.0	6.6	2.25
399024	621	919	2.0	38	1.0	2.0	2.2*	1.5	11.8	1.64
399025	624	919	3.0	56	1.0	2.0*	2.0	2.0	8.4	1.34
399026	625	911	2.0	60	1.5	3.0*	3.2	2.5	13.4	2.66*
399029	619	921	2.0	32	1.5	2.5	2.2	2.0	11.4	1.10
399032	624	915	1.5	58*	2.0*	2.5	3.2	2.5	17.4	2.12
399033	621	919	2.5	50	1.5	2.5	3.0	1.0	17.2	2.08



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
398892	V	43.7	16.1	12.7	3.4	16.3	59.8	7.9
398893	V	43.1 <sup>w</sup>	19.7 <sup>w</sup>	11.3	3.4	19.5	59.3	6.6
398894	V	45.7	17.6	12.5	3.2	18.8	58.2	7.4
398895	V	43.8	16.2	12.9	3.0	20.7	56.3	7.2
398897	V	45.8	17.5	11.9	3.1	20.7	57.3	7.0
398900	V	44.0	17.9	12.7	3.1	20.1	56.8	7.3
398907	V	46.5	17.2	12.3	3.5	18.3	58.8	7.1
398911	V	46.6	16.7	11.5	3.5	25.3	54.0	5.8
398917	V	45.4	18.5	11.3	3.2	20.4	58.6	6.5
398918	V	45.2	17.5	12.4	3.1	19.9	57.4	7.2
398928	V	41.9	20.0	12.7	3.2	21.9	56.0	6.2
398932	V	47.8 <sup>w</sup>	15.5 <sup>w</sup>	11.7	3.2	16.1	60.6	8.4
398943	V	45.3 <sup>w</sup>	18.9 <sup>w</sup>	10.5	3.4	22.5	56.1	7.5
398947	V	45.2 <sup>w</sup>	17.1 <sup>w</sup>	12.6	3.2	17.7	58.7	7.7
398948	V	44.9 <sup>w</sup>	19.0 <sup>w</sup>	13.4	3.0	19.9	56.0	7.7
398949	V	42.5 <sup>w</sup>	19.4 <sup>w</sup>	11.2	3.4	19.9	58.3	7.3
398951	V	45.1	17.2	12.6	3.2	17.2	59.3	7.6
398958	V	46.0 <sup>w</sup>	17.1 <sup>w</sup>	12.7	3.3	18.1	58.2	7.6
398961	V	44.7	19.0	12.5	3.9	17.8	58.7	7.0
398962	V	45.3	17.5	12.8	3.1	19.8	56.9	7.3
398968	V	46.7	17.3	12.6	3.1	21.9	55.9	6.5
398969	V	41.0	18.7	13.0	3.1	17.6	59.8	6.4
398971	V	45.3	18.7	13.7	2.7	21.4	56.2	6.0
398972	V	45.2	19.0	14.1	2.7	20.1	57.3	5.8
398974	V	48.8 <sup>w</sup>	17.0 <sup>w</sup>	12.6	3.2	18.4	58.3	7.4
398976	V	45.2	17.6	13.6	3.3	21.1	55.5	6.5
398977	V	46.6 <sup>w</sup>	15.4 <sup>w</sup>	12.5	4.1	16.4	58.1	9.0
398979	V	45.0 <sup>w</sup>	17.4 <sup>w</sup>	13.5	2.7	17.4	57.6	8.7
398984	V	44.1	18.7	12.2	3.1	18.7	59.4	6.6
398986	V	46.7 <sup>w</sup>	16.4 <sup>w</sup>	11.7	3.6	20.4	56.5	7.8
398991	V	43.9	19.2	12.7	2.9	22.8	56.1	5.5
399000	V	45.0	17.9	13.1	3.0	17.6	59.1	7.2
399002	V	46.1	17.5	12.6	3.0	19.4	57.7	7.4
399003	V	43.8	17.4	12.6	2.9	21.1	56.5	6.8
399007	V	46.7 <sup>w</sup>	16.2 <sup>w</sup>	12.2	3.9	18.9	56.8	8.2
399009	V	42.9	19.5	13.4	2.8	18.1	59.2	6.4
399012	V	46.0	17.4	13.4	3.2	24.4	53.9	5.1
399013	V	47.9 <sup>w</sup>	16.1 <sup>w</sup>	10.7	2.7	25.2	53.9	7.5
399014	V	46.7	17.2	13.1	3.3	22.6	55.6	5.4
399021	V	46.6	17.6	12.9	3.4	24.1	54.2	5.4
399024	V	45.3	17.6	12.3	3.2	21.1	57.0	6.5
399025	V	46.6 <sup>w</sup>	16.4 <sup>w</sup>	11.3	3.3	21.3	56.1	8.0
399026	V	44.4	17.9	13.4	4.1	21.2	54.9	6.4
399029	V	47.2	16.5	12.8	3.4	23.0	54.3	6.4
399032	V	47.2	17.0	12.6	2.9	28.1	50.6	5.8
399033	V	42.4 <sup>w</sup>	20.4 <sup>w</sup>	9.5	2.4	19.9	61.4	6.8

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
399037		Kyongsang Nam	South Korea	South Korea	1975	V
399038		Kyongsang Nam	South Korea	South Korea	1975	V
399040		Kyongsang Nam	South Korea	South Korea	1975	V
399042		Cheju	South Korea	South Korea	1975	V
399044		Cheju	South Korea	South Korea	1975	V
399045		Cheju	South Korea	South Korea	1975	V
399050		Kyonggi	South Korea	South Korea	1975	V
399052		Kangwon	South Korea	South Korea	1975	V
399055		Kangwon	South Korea	South Korea	1975	V
399056		Kangwon	South Korea	South Korea	1975	V
399057		Kangwon	South Korea	South Korea	1975	V
399058		Kangwon	South Korea	South Korea	1975	V
399059		Kangwon	South Korea	South Korea	1975	V
399060		Kangwon	South Korea	South Korea	1975	V
399062		Kangwon	South Korea	South Korea	1975	V
399064		Chungchong Puk	South Korea	South Korea	1975	V
399065		Chungchong Puk	South Korea	South Korea	1975	V
399067		Chungchong Puk	South Korea	South Korea	1975	V
399071		Chungchong Nam	South Korea	South Korea	1975	V
399075		Chungchong Nam	South Korea	South Korea	1975	V
399076		Chungchong Nam	South Korea	South Korea	1975	V
399078		Chungchong Nam	South Korea	South Korea	1975	V
399081		Chungchong Nam	South Korea	South Korea	1975	V
399082		Chungchong Nam	South Korea	South Korea	1975	V
399083		Chungchong Nam	South Korea	South Korea	1975	V
399084		Chungchong Nam	South Korea	South Korea	1975	V
399085		Chungchong Nam	South Korea	South Korea	1975	V
399086		Chungchong Nam	South Korea	South Korea	1975	V
399089		Cholla Puk	South Korea	South Korea	1975	V
399095		Cholla Puk	South Korea	South Korea	1975	V
399096		Cholla Puk	South Korea	South Korea	1975	V
399097		Cholla Puk	South Korea	South Korea	1975	V
399098		Cholla Puk	South Korea	South Korea	1975	V
399099		Cholla Puk	South Korea	South Korea	1975	V
399100		Cholla Puk	South Korea	South Korea	1975	V
399101		Cholla Puk	South Korea	South Korea	1975	V
399103		Cholla Puk	South Korea	South Korea	1975	V
399105		Cholla Puk	South Korea	South Korea	1975	V
399107		Kyongsang Puk	South Korea	South Korea	1975	V
399108		Kyongsang Puk	South Korea	South Korea	1975	V
399109		Kyongsang Puk	South Korea	South Korea	1975	V
399110		Kyongsang Puk	South Korea	South Korea	1975	V
399111		Kyongsang Puk	South Korea	South Korea	1975	V
399113		Kyongsang Nam	South Korea	South Korea	1975	V
399114		Kyongsang Nam	South Korea	South Korea	1975	V
399115		Kyongsang Nam	South Korea	South Korea	1975	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
399037	V	D	P	T	Sa	Ssp	Br	D	Rbr	Rbr	Net	3N
399038	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399040	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr		1N
399042	V	D	P	G	A	N	Br	I	Y	Y	Sdef	2N
399044	V	D	W	T	E	N	Tn	I	Y	Br		1N
399045	V	D	W	T	E	N	Tn	I	Y	Br		2N
399050	V	D	W	Lt	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
399052	V	D	P	T	Sa	Ssp	Br	I	Gn	Gn	Gnc, Snet	2N
399055	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
399056	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
399057	V	D	W	T	Sa	N	Tn	I	Y	Bl		2N
399058	V	D	W	T	Sa	Ssp	Tn	I	Gn	Bl		2N
399059	V	D	W	T	Sa	Ssp	Bl	I	Gn	Brbl	Vhil	1N
399060	V	D	W	T	Sa	N	Tn	I	Ggn	Bl		2N
399062	V	D	P	G	E	N	Tn	I	Y	Bf		2N
399064	V	N	W	T	E	Ssp	Br	I	Gnbr	Gnbr		4N
399065	V	D	P	G	Sa	N	Tn	D	Y	Y	Sdef	2N
399067	V	D	W	T	Sa	Ssp	Dbr	I	Gn	Brbl	Vhil	2N
399071	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Snet	2N
399075	V	D	P	G	Sa	N	Bl	I	Gn	Gn	Gnc	2N
399076	V	N	P	T	Sa	Ssp	Dbr	I	Gnbr	Gnbr		3N
399078	V	D	P	G	Sa	N	Tn	I	Y	Bf		1N
399081	V	D	P	T	Sa	Ssp	Bl	D	Gn	Lbr	Vhil	2N
399082	V	D	W	T	Sa	Ssp	Bl	D	Gn	Brbl	Vhil	2N
399083	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
399084	V	N	W	T	Sa	Ssp	Br	I	Gn	Bl		2N
399085	V	D	W	T	Sa	N	Bl	I	Gn	Bl		1N
399086	V	D	W	T	Sa	Ssp	Br	I	Gn	Bl		1N
399089	V	D	P	T	Sa	Ssp	Br	D	Gnbr	Gnbr		2N
399095	V	D	P	G	Sa	N	Br	I	Y	Bf		3N
399096	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
399097	V	D	P	T	E	N	Tn	I	Y	Brbl	Vhil	2N
399098	V	D	P	T	Sa	Ssp	Tn	I	Y	Bl		2N
399099	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
399100	V	N	P	T	Sa	Ssp	Tn	I	Gn	Br		3N
399101	V	D	P	G	Sa	Ssp	Bl	I	Gn	Gn	Gnc	2N
399103	V	D	W	T	Sa	N	Tn	S	Ggn	G		2N
399105	V	D	W	T	Sa	Ssp	Tn	I	Ggn	Bl		2N
399107	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
399108	V	D	W	G	A	Ssp	Br	D	Y	Bf		4F
399109	V	N	P	T	A	N	Tn	I	Gn	Bl		3N
399110	V	D	W	Lt	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
399111	V	D	W	G	A	Ssp	Tn	I	Gn	Bf		2N
399113	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399114	V	D	P	G	E	Ssp	Tn	I	Y	Bf		3N
399115	V	D	W	G	A	N	Tn	I	Y	Bf		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
399037	619	923	2.5	47	1.5	2.5	2.2	--	18.4	1.40
399038	617	918	2.0	33	1.5	2.5	2.5	1.5	13.0	1.35
399040	621	927	4.0	55	1.5	3.0	2.0	--	11.0	1.15
399042	613	923	1.5	33	1.0	2.0	3.2	1.0	18.2	0.80
399044	624	911	2.5	65	1.0	1.5	2.8*	1.0	11.5	3.14*
399045	625	913	2.5	66	1.0	1.5	3.0*	1.5	11.2	2.95
399050	701	925	3.5	50	1.0	2.0	2.2	2.5	7.3	0.86
399052	619	921	2.5	50*	1.5	2.5	3.2	2.0	20.8*	1.29
399055	617	921	3.0*	40	2.0*	3.0*	2.5	--	18.7	1.41
399056	619	921	2.5	49*	2.0	3.0	2.5	--	18.7	1.55
399057	630	925	4.0	56	1.5	2.5	2.5	2.5	7.9	1.06
399058	628	927	4.0	51	1.0	3.0*	1.8	3.0	7.4	1.56
399059	628	923	3.0	49	2.0*	3.5	2.0	2.0	7.5	0.87
399060	624	923	4.0	55	1.5	2.5	3.0	2.0	8.0	1.39
399062	703	925	3.0	50	1.0	2.0	2.5	1.5	6.2	0.74
399064	623	1001	4.5	142	2.0	3.0	2.5	--	9.2	1.11
399065	619	919	2.0	35	1.5	2.5	3.0	1.0	16.4	1.62
399067	628	923	4.0	48	1.5	3.0	2.0	2.0	7.0	0.96
399071	619	917	2.5	38	1.5	2.0*	2.2	--	13.9	1.25
399075	627	922	2.5	54*	1.0	2.5	2.2	1.5	7.6	1.18
399076	701	926	4.5	142*	1.5	3.0	2.2	--	7.4	0.67
399078	711	924	2.5	48	1.5	3.0	2.5	1.5	6.2	1.01
399081	703	921	4.0	52	2.5	3.5	2.0	2.5	8.1	1.46
399082	626	923	4.0	58*	2.0*	4.0	2.2	2.0	10.6	1.84
399083	701	925	4.0	50	1.5	3.0	2.2	2.0	7.8	1.01
399084	622	919	4.5	125	2.5	3.5	2.8	3.0	6.8	0.69
399085	630	926	3.5	50*	1.5	3.0	2.5	2.0	7.6	0.82
399086	629	927	3.0	48	1.0	2.0	2.2	2.0	7.4	0.83
399089	624	926	3.5	42	1.0	2.0	2.8	--	20.9*	0.88
399095	627	1003	2.5	60*	2.0	3.0	3.0	2.0	10.9	1.22
399096	629	924	3.5	50	1.0	2.5	2.2	2.5	7.2	0.86
399097	625	925	3.0*	44*	2.0	3.0	2.2	1.5	5.1	0.97
399098	625	928	2.5	42*	2.0	3.0	2.5	2.0	8.4	0.99*
399099	619	917	3.5	47	1.5	3.0	2.5	1.5	7.0	1.94
399100	626	929	4.5	160*	2.5	3.5	3.0	2.5	8.9	0.98
399101	703	925	2.5	70*	1.0	2.0	2.2	2.0*	9.8	1.40
399103	630	1001	3.5	57	1.0	2.0	2.2	3.0	7.0	1.03
399105	630	1002	4.0	61	2.0	3.0	2.8	3.0	9.4	1.32
399107	619	917	3.0	45	1.5	2.5	2.0	2.0	11.7	1.64
399108	621	920	2.5	56	2.5	3.5	2.2	2.0	10.2	1.71
399109	723	1003	4.5	148*	2.0	3.0	3.0	2.5	6.8	1.09
399110	701	925	4.0	49	1.5	3.0	2.0	2.5	7.2	0.78
399111	627	925	3.5	53	1.5	2.5	2.0	2.0	7.8	1.56
399113	619	919	2.0	34	1.5	2.5	2.2	2.0	12.0	1.45
399114	627	923	3.0	60	1.5	3.0	2.5	3.0	8.4	1.06
399115	627	1001	4.0	50	2.0	3.0	2.5	2.0	7.6	1.31*

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
399037	V	47.3 <sup>w</sup>	17.9 <sup>w</sup>	11.7	2.9	18.5	59.0	7.9
399038	V	45.5	18.2	12.4	3.0	21.1	56.9	6.5
399040	V	48.9 <sup>w</sup>	17.2 <sup>w</sup>	12.5	2.8	24.4	54.2	6.0
399042	V	44.7	19.1	13.1	3.6	22.0	55.4	5.9
399044	V	41.7	20.8	12.6	3.2	25.3	53.3	5.6
399045	V	41.2	20.7	13.1	3.2	21.6	56.1	6.0
399050	V	48.2 <sup>w</sup>	14.9 <sup>w</sup>	11.3	3.4	22.7	55.5	7.0
399052	V	47.3 <sup>w</sup>	17.3 <sup>w</sup>	11.6	3.2	21.7	57.0	6.6
399055	V	45.6 <sup>w</sup>	17.3 <sup>w</sup>	11.7	2.4	16.9	60.6	8.5
399056	V	41.8 <sup>w</sup>	20.4 <sup>w</sup>	11.9	3.0	17.3	60.2	7.7
399057	V	46.1	16.0	12.9	3.8	20.2	56.0	7.0
399058	V	46.1 <sup>w</sup>	15.8 <sup>w</sup>	10.7	3.1	22.4	55.7	8.0
399059	V	48.8 <sup>w</sup>	14.2 <sup>w</sup>	11.4	3.3	22.7	55.1	7.4
399060	V	49.5 <sup>w</sup>	15.7 <sup>w</sup>	12.6	4.0	30.6	47.5	5.2
399062	V	46.4	14.8	12.3	3.9	23.9	53.7	6.3
399064	V	47.6 <sup>w</sup>	14.9 <sup>w</sup>	10.8	3.3	21.4	58.5	6.0
399065	V	42.9	19.5	13.1	2.9	23.9	53.7	6.5
399067	V	48.8 <sup>w</sup>	14.7 <sup>w</sup>	11.3	3.3	22.4	55.7	7.2
399071	V	42.6 <sup>w</sup>	18.6 <sup>w</sup>	10.0	2.8	18.5	60.7	7.9
399075	V	43.5 <sup>w</sup>	19.0 <sup>w</sup>	11.0	2.8	25.5	54.4	6.2
399076	V	49.4 <sup>w</sup>	15.5 <sup>w</sup>	11.6	3.0	23.3	54.3	7.7
399078	V	50.7	13.2	13.2	3.9	20.4	54.8	7.7
399081	V	44.7 <sup>w</sup>	15.2 <sup>w</sup>	10.9	2.5	21.8	57.1	7.6
399082	V	44.8 <sup>w</sup>	16.1 <sup>w</sup>	11.4	3.3	18.3	58.9	8.1
399083	V	48.0 <sup>w</sup>	14.4 <sup>w</sup>	11.8	3.5	25.0	52.8	6.8
399084	V	50.6 <sup>w</sup>	13.4 <sup>w</sup>	12.7	3.4	18.1	58.4	7.4
399085	V	47.6 <sup>w</sup>	14.8 <sup>w</sup>	11.9	3.5	23.5	54.4	6.7
399086	V	47.6 <sup>w</sup>	14.2 <sup>w</sup>	11.9	3.3	21.1	56.3	7.4
399089	V	44.6 <sup>w</sup>	19.3 <sup>w</sup>	12.2	3.0	19.5	58.1	7.2
399095	V	46.4	15.9	11.3	3.8	21.0	56.8	7.0
399096	V	47.6 <sup>w</sup>	14.7 <sup>w</sup>	11.8	3.5	20.3	57.4	7.0
399097	V	49.3	12.8	14.0	3.7	17.5	57.4	7.4
399098	V	46.7	16.8	14.0	3.7	25.9	50.5	5.8
399099	V	46.2	17.6	13.0	3.5	27.1	51.8	4.6
399100	V	47.6 <sup>^w</sup>	16.2 <sup>^w</sup>	11.5 <sup>^</sup>	3.6 <sup>^</sup>	21.8 <sup>^</sup>	55.9 <sup>^</sup>	7.1 <sup>^</sup>
399101	V	45.0 <sup>^w</sup>	17.5 <sup>^w</sup>	10.6 <sup>^</sup>	3.1 <sup>^</sup>	23.3 <sup>^</sup>	56.0 <sup>^</sup>	6.9 <sup>^</sup>
399103	V	50.2 <sup>^w</sup>	14.5 <sup>^w</sup>	10.2 <sup>^</sup>	4.2 <sup>^</sup>	29.6 <sup>^</sup>	50.5 <sup>^</sup>	5.6 <sup>^</sup>
399105	V	47.0 <sup>^w</sup>	14.4 <sup>^w</sup>	12.0 <sup>^</sup>	3.7 <sup>^</sup>	17.6 <sup>^</sup>	57.1 <sup>^</sup>	9.6 <sup>^</sup>
399107	V	46.4	17.3	13.4	3.5	22.0	55.3	5.7
399108	V	46.0	14.2	13.0	3.1	17.5	58.7	7.7
399109	V	46.6 <sup>w</sup>	14.9 <sup>w</sup>	12.5	4.4	24.7	51.0	7.4
399110	V	47.0 <sup>^w</sup>	16.0 <sup>^w</sup>	11.4 <sup>^</sup>	3.2 <sup>^</sup>	20.1 <sup>^</sup>	57.5 <sup>^</sup>	7.8 <sup>^</sup>
399111	V	46.6 <sup>w</sup>	15.9 <sup>w</sup>	12.8	3.1	22.4	54.2	7.6
399113	V	46.7	17.1	12.8	3.3	19.9	57.0	7.0
399114	V	48.5	15.5	12.9	3.7	22.0	54.9	6.5
399115	V	47.9	16.5	14.5	4.4	21.9	54.1	5.1

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
399116	Chu hsuan 23	Kyongsang Nam	South Korea	South Korea	1975	V
399117		Kyongsang Nam	South Korea	South Korea	1975	V
399118		Kyongsang Nam	South Korea	South Korea	1975	V
399120		Kyongsang Nam	South Korea	South Korea	1975	V
399121		Kyongsang Nam	South Korea	South Korea	1975	V
399122		Kyongsang Nam	South Korea	South Korea	1975	V
399123		Kyongsang Nam	South Korea	South Korea	1975	V
399124		Kyongsang Nam	South Korea	South Korea	1975	V
399125		Kyongsang Nam	South Korea	South Korea	1975	V
399126		Kyongsang Nam	South Korea	South Korea	1975	V
407737		Shaanxi	China	China	1976	V
407739		Shaanxi	China	China	1976	V
407742		Shaanxi	China	China	1976	V
407747		Shanghai	China	China	1976	V
407748		Shanghai	China	China	1976	V
407749		Shanghai	China	China	1976	V
407750		Shanghai	China	China	1976	V
407751		Shanghai	China	China	1976	V
407752		Shanghai	China	China	1976	V
407753		Shanghai	China	China	1976	V
407755		Shanghai	China	China	1976	V
407756		Shanghai	China	China	1976	V
407757		Shanghai	China	China	1976	V
407758		Shanghai	China	China	1976	V
407759		Shanghai	China	China	1976	V
407761		Shanghai	China	China	1976	V
407762		Shanghai	China	China	1976	V
407763		Shanghai	China	China	1976	V
407764		Guangdong	China	China	1976	V
407765		Guangdong	China	China	1976	V
407774		Chungchong Nam	South Korea	South Korea	1976	V
407775		Chungchong Nam	South Korea	South Korea	1976	V
407777		Chungchong Nam	South Korea	South Korea	1976	V
407779		Seoul	South Korea	South Korea	1976	V
407784		Kyonggi	South Korea	South Korea	1976	V
407785		Seoul	South Korea	South Korea	1976	V
407786B		Kyonggi	South Korea	South Korea	1976	V
407787		Kyonggi	South Korea	South Korea	1976	V
407788C		Kyonggi	South Korea	South Korea	1976	V
407789		Kyonggi	South Korea	South Korea	1976	V
407790-1		Kyonggi	South Korea	South Korea	1976	V
407790-2		Kyonggi	South Korea	South Korea	1976	V
407791		Kyonggi	South Korea	South Korea	1976	V
407792		Kyonggi	South Korea	South Korea	1976	V
407793		Kyonggi	South Korea	South Korea	1976	V
407794		Kyonggi	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
399116	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399117	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
399118	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
399120	V	N	P	T	A	Ssp	Tn	I	Gn	Br		2N
399121	V	D	P	Lt	Sa	Ssp	Bl	I	Gn	Gn	Gnc, Vhil	2N
399122	V	D	P	T	Sa	Ssp	Tn	D	G	Bl		2N
399123	V	D	W	T	Sa	N	Dbr	I	Gn	Brbl	Vhil	1N
399124	V	D	W	T	E	Ssp	Tn	D	Ggn	Bl		2N
399125	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
399126	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
407737	V	D	W	G	Sa	N	Br	I	Y	Bf		4N
407739	V	D	W	G	Sa	N	Tn	I	Y	Bf		3N
407742	V	D	W	G	Sa	N	Br	I	Y	Bf		4N
407747	V	D	P	T	A	Ssp	Tn	I	Br	Br		3N
407748	V	N	W	T	A	N	Br	I	Br	Br		3N
407749	V	N	P	Ng	A	N	Tn	I	Br	Br		3N
407750	V	D	P	T	A	N	Br	I	Br	Br		4N
407751	V	D	P	T	A	N	Br	I	Br	Br		3N
407752	V	S	P	T	A	N	Tn	I	Br	Br		3N
407753	V	D	P	T	A	N	Br	I	Br	Br	Snet	3N
407755	V	D	P	T	A	N	Br	I	Br	Br	Snet	3N
407756	V	D	P	T	A	N	Tn	I	Br	Br	Snet	3N
407757	V	D	P	T	A	Ssp	Br	I	Br	Br	Snet	2N
407758	V	S	P	Lt	A	N	Tn	I	Br	Br	Snet	3N
407759	V	S	P	T	A	N	Tn	I	Br	Br	Snet	3N
407761	V	D	P	Lt	A	Ssp	Tn	I	Br	Br		3N
407762	V	D	P	T	A	Ssp	Tn	I	Br	Br	Snet	3N
407763	V	D	W	T	A	Ssp	Tn	I	Br	Br		2N
407764	V	D	P	T	A	N	Tn	I	Y	Bl		2N
407765	V	D	P	T	A	N	Tn	I	Br	Br	Snet	3N
407774	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
407775	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407777	V	D	W	T	A	N	Bl	I	Gn	Brbl	Vhil	1N
407779	V	D	W	T	Sa	N	Bl	I	Gn	Bl		1N
407784	V	D	W	T	Sa	N	Tn	D	Gn	Bl		2N
407785	V	D	P	T	Sa	Ssp	Br	B	Bl	Bl		2R
407786B	V	D	W	Lt	Sa	Ssp	Tn	I	Y	Br		2N
407787	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407788C	V	D	P	Lt	Sa	Ssp	Tn	I	Y	Br	Vhil	2N
407789	V	D	W	T	Sa	N	Dbr	I	Gn	Bl		1N
407790-1	V	D	W	T	A	Ssp	Tn	I	Y	Bl		2N
407790-2	V	D	W	T	Sa	Ssp	Bl	I	Gn	Brbl	Vhil	1N
407791	V	D	P	G	Sa	N	Tn	I	Lgn	Bf		1N
407792	V	D	W	T	A	Ssp	Tn	I	Lgn	Brbl	Vhil	2N
407793	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
407794	V	D	W	T	A	N	Bl	I	Gn	Brbl	Vhil	1N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
399116	619	921	2.0	38	1.5	2.5	2.2	2.0	12.6	1.52
399117	621	921	2.0	34	1.5	2.5	2.5	2.0	12.7	1.49
399118	619	919	3.0	40	1.5	3.0	2.2	2.0	7.8	1.85
399120	624	919	4.5	110*	2.0*	3.5	2.0	2.5	10.5	1.68
399121	701	922	2.5	67	1.0	2.0	2.0	2.0	8.1	1.18
399122	703	927	3.5	67	2.0	3.0	2.8	3.5	7.9	1.21
399123	627	925	4.0	45	1.5	3.0	2.0	2.5	7.6	0.63
399124	627	927	3.5	66	1.5	2.5	2.8	3.5	8.1	0.95
399125	622	924	3.0	44	1.5	2.5	3.0	2.5	6.2	0.74
399126	619	923	2.0	36	1.0	2.0	2.8	--	20.2*	1.30
407737	621	913	2.5	58	2.0	4.0*	3.5	1.0	12.1	1.16
407739	626	924	3.5	68	2.0*	3.5	3.0	1.0	9.1	1.67
407742	621	913	3.0	65	2.0	4.0*	3.5	1.0	12.4	1.74
407747	630	921	3.5	91	2.0*	3.5	2.5	--	23.5	2.70*
407748	702	925	3.0	100	2.0	3.0	2.8	--	28.3	1.68*
407749	715	919	3.0	121*	3.0	4.5	2.8	--	16.6	1.42*
407750	701	925	3.5	96	1.5	3.0	3.0	--	23.6	1.28
407751	701	921	3.0	80	3.0	4.5	3.0	--	20.5	1.94*
407752	707	929	3.0	105	1.5	2.5	2.5	--	17.6	2.09
407753	628	921	3.0	94	2.5	4.0	2.8	--	25.4	1.40
407755	628	921	3.0	93	3.0*	4.5	3.0	--	26.4	1.57*
407756	627	921	3.0	88	3.0*	5.0	3.0	--	27.2	1.40*
407757	625	919	2.5	72	3.5	5.0	3.2	--	22.4	1.79
407758	712	1003	4.0	85*	1.5	3.0*	3.0	--	19.5	1.59
407759	626	923	3.0	91	3.0	5.0	3.0	--	25.9	1.21
407761	707	925	3.5	80	2.5	4.0	3.0	--	24.2	1.32
407762	626	922	2.5	82	2.0	3.5	3.2	--	24.9	2.36*
407763	621	919	3.0	76*	3.0	4.5	3.0	--	23.2	1.76
407764	714	928	3.5	97*	3.0	4.0	2.8	2.0	15.8	1.37
407765	627	927	3.5	93	3.0	4.0	2.8	--	25.8	1.62*
407774	621	928	4.0	50*	1.5	2.5	2.0	--	7.2	0.74
407775	628	925	4.0	46	1.5	2.5	2.2	2.5	7.0	0.94
407777	628	925	4.0	52	1.5	2.5	2.5	2.5	7.4	0.94
407779	627	925	4.0	44	1.5	3.0	2.5	2.5	7.2	0.63
407784	622	921	3.0	46	2.0	3.0	2.2	2.0	7.1	1.51
407785	621	919	2.0	36	2.5	4.0	2.0	--	10.4	1.96
407786B	621	925	2.5	50*	1.0	2.5	2.8	1.5	9.4	1.92
407787	619	920	2.0	40	2.0	3.0	2.2	2.0	8.3	1.84
407788C	625	923	3.0*	56*	1.0	2.0	2.8	1.0	6.8	1.21
407789	701	925	3.5	52*	1.5	3.0	2.5 <sup>^</sup>	2.0 <sup>^</sup>	6.9	0.55
407790-1	624	925	4.0	53	2.0*	4.0	3.0 <sup>^</sup>	2.0 <sup>^</sup>	8.2	1.52
407790-2	629	925	4.5	51	2.0*	3.5	2.5 <sup>^</sup>	2.0 <sup>^</sup>	7.4	0.73
407791	621	921	3.0	50*	1.5	2.0*	3.0	2.0	8.0	1.66
407792	619	920	3.5	54*	2.5	3.5	3.0	2.0	8.2	1.42
407793	621	919	2.0	37	1.5	2.5	2.5	2.0	11.6	1.49
407794	629	925	4.0	48	1.5	3.0	2.2	2.0	7.4	1.01



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
399116	V	44.8	17.6	12.9	3.3	20.3	57.3	6.3
399117	V	46.1	17.4	12.8	3.2	19.7	57.7	6.6
399118	V	46.2	17.8	13.1	3.6	23.6	54.5	5.1
399120	V	45.3 <sup>w</sup>	17.4 <sup>w</sup>	12.1	3.5	26.6	51.8	6.0
399121	V	46.7 <sup>w</sup>	19.1 <sup>w</sup>	10.5	3.4	31.9	48.9	5.4
399122	V	45.0 <sup>w</sup>	16.6 <sup>w</sup>	12.3	3.9	19.3	57.2	7.2
399123	V	49.1 <sup>w</sup>	15.5 <sup>w</sup>	11.7	3.6	24.0	54.0	6.7
399124	V	49.8 <sup>w</sup>	15.7 <sup>w</sup>	11.8	3.9	26.0	52.5	5.8
399125	V	50.1 <sup>w</sup>	16.2 <sup>w</sup>	12.1	3.8	34.0	44.8	5.3
399126	V	44.2 <sup>w</sup>	19.0 <sup>w</sup>	11.8	3.0	16.4	60.8	8.0
407737	V	46.6	17.0	15.0	3.8	20.6	54.7	5.9
407739	V	42.7	16.0	13.4	4.2	18.2	56.0	8.2
407742	V	46.3	17.6	13.9	4.1	19.8	55.5	6.7
407747	V	42.2 <sup>w</sup>	19.2 <sup>w</sup>	12.0	2.8	31.5	48.0	5.7
407748	V	47.4 <sup>w</sup>	19.3 <sup>w</sup>	11.1	2.8	31.3	49.4	5.4
407749	V	46.7 <sup>w</sup>	16.9 <sup>w</sup>	11.7	2.9	36.6	43.2	5.6
407750	V	46.8 <sup>w</sup>	17.8 <sup>w</sup>	12.1	2.9	37.1	43.1	4.8
407751	V	44.7 <sup>w</sup>	17.4 <sup>w</sup>	12.9	2.9	27.5	50.2	6.6
407752	V	46.0 <sup>w</sup>	15.9 <sup>w</sup>	11.1	3.0	30.6	48.8	6.5
407753	V	43.3 <sup>w</sup>	18.9 <sup>w</sup>	11.4	2.8	28.9	50.8	6.1
407755	V	45.5 <sup>w</sup>	20.2 <sup>w</sup>	11.8	3.3	23.9	54.4	6.7
407756	V	47.9 <sup>w</sup>	18.8 <sup>w</sup>	12.0	2.9	28.9	50.6	5.7
407757	V	46.1 <sup>w</sup>	19.3 <sup>w</sup>	11.6	3.2	25.2	53.8	6.2
407758	V	46.9 <sup>w</sup>	16.0 <sup>w</sup>	12.3	2.9	28.0	50.9	5.9
407759	V	46.5 <sup>w</sup>	18.4 <sup>w</sup>	14.1	3.0	31.1	46.4	5.4
407761	V	47.1 <sup>w</sup>	17.3 <sup>w</sup>	13.4	2.7	24.9	52.0	7.0
407762	V	47.7 <sup>w</sup>	16.5 <sup>w</sup>	12.2	2.6	26.5	51.9	6.8
407763	V	48.0 <sup>w</sup>	18.4 <sup>w</sup>	11.9	2.7	22.7	56.6	6.1
407764	V	44.6	16.9	13.5	3.4	29.4	47.9	5.8
407765	V	46.4 <sup>w</sup>	17.7 <sup>w</sup>	11.8	2.7	31.3	48.0	6.1
407774	V	45.3 <sup>w</sup>	15.4 <sup>w</sup>	12.7	3.5	19.3	56.4	8.1
407775	V	48.1 <sup>w</sup>	15.6 <sup>w</sup>	11.6	3.4	25.7	53.0	6.3
407777	V	49.2 <sup>w</sup>	15.6 <sup>w</sup>	11.5	3.2	24.7	54.1	6.5
407779	V	49.5 <sup>w</sup>	15.3 <sup>w</sup>	11.4	3.3	29.2	50.1	6.0
407784	V	45.9 <sup>w</sup>	16.8 <sup>w</sup>	11.7	3.3	27.1	52.1	5.7
407785	V	44.2 <sup>w</sup>	16.5 <sup>w</sup>	13.0	3.0	18.1	58.7	7.1
407786B	V	44.3	17.8	12.3	4.3	22.2	55.6	5.5
407787	V	46.8	16.1	14.0	3.3	20.7	56.2	5.8
407788C	V	46.5	14.6	12.5	4.0	19.8	56.3	7.5
407789	V	48.1 <sup>^w</sup>	16.3 <sup>^w</sup>	11.4 <sup>^</sup>	3.7 <sup>^</sup>	24.7 <sup>^</sup>	53.9 <sup>^</sup>	6.3 <sup>^</sup>
407790-1	V	47.1 <sup>^</sup>	15.8 <sup>^</sup>	12.1 <sup>^</sup>	4.3 <sup>^</sup>	26.5 <sup>^</sup>	51.5 <sup>^</sup>	5.6 <sup>^</sup>
407790-2	V	47.9 <sup>^w</sup>	15.4 <sup>^w</sup>	11.9 <sup>^</sup>	3.4 <sup>^</sup>	20.1 <sup>^</sup>	57.2 <sup>^</sup>	7.4 <sup>^</sup>
407791	V	44.8 <sup>w</sup>	17.3 <sup>w</sup>	11.7	4.3	21.9	56.2	5.9
407792	V	48.3 <sup>w</sup>	16.5 <sup>w</sup>	13.4	3.9	25.3	51.7	5.7
407793	V	44.2	18.0	12.9	3.5	21.5	55.5	6.6
407794	V	48.8 <sup>w</sup>	15.2 <sup>w</sup>	12.4	3.7	22.7	54.5	6.7

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
407797	Suwon No. 64	Kyonggi	South Korea	South Korea	1976	V
407798		Kyonggi	South Korea	South Korea	1976	V
407799		Kyonggi	South Korea	South Korea	1976	V
407800		Kyonggi	South Korea	South Korea	1976	V
407802		Kyonggi	South Korea	South Korea	1976	V
407803		Kyonggi	South Korea	South Korea	1976	V
407804		Kyonggi	South Korea	South Korea	1976	V
407807		Kyonggi	South Korea	South Korea	1976	V
407808-1		Kyonggi	South Korea	South Korea	1976	V
407808-2		Kyonggi	South Korea	South Korea	1976	V
407809		Kyonggi	South Korea	South Korea	1976	V
407811		Kyonggi	South Korea	South Korea	1976	V
407813		Kyonggi	South Korea	South Korea	1976	V
407814-1		Kyonggi	South Korea	South Korea	1976	V
407814-2		Kyonggi	South Korea	South Korea	1976	V
407815		Kyonggi	South Korea	South Korea	1976	V
407816		Kyonggi	South Korea	South Korea	1976	V
407819		Kyonggi	South Korea	South Korea	1976	V
407821B		Kyonggi	South Korea	South Korea	1976	V
407822		Kyonggi	South Korea	South Korea	1976	V
407824		Kyonggi	South Korea	South Korea	1976	V
407825		Kyonggi	South Korea	South Korea	1976	V
407826		Kyonggi	South Korea	South Korea	1976	V
407830		Kangwon	South Korea	South Korea	1976	V
407833B		Kangwon	South Korea	South Korea	1976	V
407833C		Kangwon	South Korea	South Korea	1976	V
407834		Kangwon	South Korea	South Korea	1976	V
407835		Kangwon	South Korea	South Korea	1976	V
407836		Kangwon	South Korea	South Korea	1976	V
407837		Kangwon	South Korea	South Korea	1976	V
407838		Kangwon	South Korea	South Korea	1976	V
407839-1		Chungchong Nam	South Korea	South Korea	1976	V
407840		Chungchong Nam	South Korea	South Korea	1976	V
407841		Chungchong Nam	South Korea	South Korea	1976	V
407842		Chungchong Nam	South Korea	South Korea	1976	V
407843		Chungchong Nam	South Korea	South Korea	1976	V
407844		Chungchong Nam	South Korea	South Korea	1976	V
407846		Kyongsang Puk	South Korea	South Korea	1976	V
407852		Cholla Puk	South Korea	South Korea	1976	V
407853		Cholla Puk	South Korea	South Korea	1976	V
407854		Cholla Puk	South Korea	South Korea	1976	V
407855		Cholla Puk	South Korea	South Korea	1976	V
407856		Cholla Puk	South Korea	South Korea	1976	V
407857		Cholla Puk	South Korea	South Korea	1976	V
407859-1		Cholla Puk	South Korea	South Korea	1976	V
407859-2		Cholla Puk	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
407797	V	D	W	G	Sa	Ssp	Tn	D	Y	Bf	Vhil	2N
407798	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407799	V	D	W	T	A	N	Bl	I	Ggn	Brbl	Vhil	2N
407800	V	D	W	T	Sa	N	Tn	I	Gn	Brbl	Vhil	2N
407802	V	D	W	T	Sa	N	Tn	I	Lg	Bl		2N
407803	V	D	P	T	A	N	Tn	D	Y	Brbl	Vhil	2N
407804	V	D	W	T	Sa	N	Dbr	I	Gn	Brbl	Vhil	2N
407807	V	D	W	T	Sa	N	Tn	I	Bl	Bl		2N
407808-1	V	D	P	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407808-2	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
407809	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
407811	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407813	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407814-1	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407814-2	V	D	W	G	Sa	N	Bl	I	Gn	Lbf		2N
407815	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
407816	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407819	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407821B	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407822	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407824	V	D	W	T	Sa	Ssp	Br	I	Gn	Bl		2N
407825	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
407826	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407830	V	D	P	G	E	Ssp	Tn	S	Y	Y		2N
407833B	V	N	W	T	Sa	Ssp	Tn	D	Y	Br		3N
407833C	V	D	P	T	E	Ssp	Tn	D	Y	Br		3N
407834	V	D	W	T	Sa	Ssp	Bl	I	Gn	Brbl	Vhil	1N
407835	V	D	W	G	Sa	N	Tn	D	Y	Y		3N
407836	V	D	P	T	E	N	Br	I	Bl	Bl		1N
407837	V	D	W	G	E	N	Tn	I	Y	Bf		3N
407838	V	D	W	T	Sa	N	Tn	I	Gn	Bl		2N
407839-1	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407840	V	D	W	T	Sa	N	Bl	D	Gn	Brbl	Vhil	2N
407841	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407842	V	N	P	T	A	Ssp	Br	I	Bl	Bl		2F
407843	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407844	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	1N
407846	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407852	V	D	P	G	Sa	N	Tn	D	Y	Bf		2N
407853	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
407854	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Sad	3N
407855	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
407856	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
407857	V	D	P	G	A	Ssp	Br	D	Gn	Bf	Gnc	2N
407859-1	V	D	P	G	A	Ssp	Bl	D	Gn	Bf	Gnc, Vhil	2N
407859-2	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
407797	621	917	2.5	50*	1.5	3.0	2.5	1.0	13.4	1.76
407798	627	923	4.0	44	2.0*	3.5	2.2	2.0	7.4	0.95
407799	629	1001	4.0	60	1.0	2.5	2.5	3.5	8.5	1.36
407800	623	925	3.0*	50*	1.5	2.5	2.8	2.0	8.0	1.13
407802	621	920	3.0	50*	1.5	2.5	2.0	2.0	9.2	1.77
407803	621	921	2.5	48*	1.5	2.5	2.5	1.5	7.8	1.73
407804	701	924	4.0	47	1.5	2.5	2.5	2.0	7.2	0.69
407807	623	922	3.0	50*	1.5	2.5	2.0	--	7.9	1.28
407808-1	621	926	3.5	60	1.5	2.5	2.8	2.5	7.8	1.03
407808-2	625	927	3.5	54*	1.5	2.5	3.0	2.0	7.8	1.43
407809	623	925	3.5	48	1.5	2.5	3.0	2.0	7.0	1.11
407811	629	925	3.5	54*	1.5	3.0	2.2	2.5	7.6	0.95
407813	703	923	3.5	54*	2.0*	3.0*	2.5	2.5	6.4	0.86
407814-1	629	928	3.5	52	2.5	3.5	2.5	2.5	8.4	0.90
407814-2	705	927	4.0	53*	2.0	3.0	2.2	2.5	6.9	0.90
407815	623	923	3.5	50*	2.0*	3.0*	2.8	2.0	7.8	1.10
407816	629	925	3.5	52	1.5	2.5	2.5	2.5	7.4	0.91
407819	627	923	3.5	47	2.0*	3.5	2.2	2.0	7.0	0.74
407821B	621	919	2.5	38	1.5	3.0	2.0	1.0	7.1	1.61
407822	621	916	2.5	46*	1.5	3.0	2.0	1.5	7.0	1.94*
407824	627	924	3.0*	57	1.5	3.0	2.5	2.0	7.5	0.96
407825	623	923	3.5	44*	1.5	2.5	3.0	2.0	7.4	0.94
407826	621	919	2.5	42	1.5	2.5	2.2	1.5	6.2	1.78
407830	627	920	2.5	52	1.0	1.5	2.5	2.0	9.2	1.59
407833B	703	1003	4.5	120*	1.5	2.5	3.0	4.5	10.8	0.77
407833C	627	925	3.0	65	1.0	2.0	2.8	3.5	10.5	1.67
407834	621	921	2.5	53*	2.0*	3.0*	2.0	2.5	6.6	1.11
407835	619	918	2.0	33	1.5	2.5	2.0	2.0	11.8	1.61
407836	625	927	4.0	52	1.0	2.0	2.5	--	7.4	0.32
407837	703	925	2.5	62	1.5	2.5	2.5	1.5	9.8	1.42
407838	625	926	3.0	49	1.5	2.5	2.5	2.5	7.6	1.06
407839-1	627	923	3.5	52	1.5	3.0	2.2	2.0	7.4	1.11
407840	625	920	3.0*	48*	1.5	2.5	2.5	3.0	7.2	1.41
407841	627	925	3.5	44	2.0*	3.0*	2.0	2.0	7.0	1.10
407842	703	929	4.5	129	2.0*	3.5	2.8	--	5.9	0.57
407843	629	923	4.0	50	1.5	3.0	2.2	2.0	7.4	0.89
407844	629	927	4.0	53	1.5	3.0	2.0	2.0	6.7	1.07
407846	619	915	4.0	44	1.5	3.0	2.2	1.5	7.1	2.07
407852	619	921	3.0	48	1.0	1.5	2.8	2.0	12.6	1.63
407853	625	923	3.5	55	1.5	2.5	2.0	--	13.5	1.55
407854	614	921	3.0	35	1.5	2.5	2.8	--	19.3*	1.20
407855	625	921	2.0	46	1.5	2.5	2.8	--	19.0	1.68
407856	619	927	2.0	42	1.5	2.5	2.5	--	19.0	0.99
407857	701	927	2.5	56	1.0	2.0	2.2	1.0	12.8	0.92
407859-1	620	915	2.5	62*	2.0*	3.0*	2.8	1.5	14.0	1.77
407859-2	629	923	2.5	52	1.5	2.5	3.0	2.5	12.4	0.99

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
407797	V	43.9	19.6	11.5	3.3	22.2	57.0	6.0
407798	V	50.4 <sup>w</sup>	14.4 <sup>w</sup>	11.9	3.3	24.1	54.0	6.8
407799	V	46.2 <sup>w</sup>	17.3 <sup>w</sup>	12.1	3.8	25.3	53.0	5.8
407800	V	48.9 <sup>w</sup>	15.6 <sup>w</sup>	13.0	3.6	28.8	49.2	5.5
407802	V	47.0 <sup>w</sup>	17.3 <sup>w</sup>	12.3	3.2	23.7	54.0	6.9
407803	V	45.3 <sup>w</sup>	18.0 <sup>w</sup>	12.3	3.8	17.4	58.4	8.1
407804	V	48.7 <sup>w</sup>	14.4 <sup>w</sup>	12.3	3.3	21.9	55.6	7.0
407807	V	48.6 <sup>w</sup>	14.9 <sup>w</sup>	13.3	3.4	26.9	49.8	6.5
407808-1	V	51.5 <sup>w</sup>	13.5 <sup>w</sup>	13.3	3.3	22.0	53.8	7.6
407808-2	V	49.8 <sup>w</sup>	14.3 <sup>w</sup>	13.3	3.5	30.0	47.8	5.4
407809	V	46.5 <sup>w</sup>	16.0 <sup>w</sup>	12.3	3.4	28.5	49.8	6.0
407811	V	49.4 <sup>w</sup>	14.4 <sup>w</sup>	12.1	3.4	26.0	51.8	6.6
407813	V	49.3 <sup>w</sup>	14.3 <sup>w</sup>	12.6	3.2	19.3	57.6	7.3
407814-1	V	49.6 <sup>w</sup>	15.5 <sup>w</sup>	12.2	3.6	21.4	55.6	7.3
407814-2	V	51.3 <sup>w</sup>	12.8 <sup>w</sup>	13.7	3.7	19.5	55.0	8.1
407815	V	47.3 <sup>w</sup>	16.7 <sup>w</sup>	12.2	3.4	28.0	50.5	5.9
407816	V	49.9 <sup>w</sup>	15.9 <sup>w</sup>	12.1	3.2	25.8	52.7	6.2
407819	V	47.2 <sup>w</sup>	14.9 <sup>w</sup>	12.2	3.2	21.4	56.1	7.2
407821B	V	45.8	17.3	13.0	3.5	25.6	52.7	5.1
407822	V	46.7	17.4	13.0	3.2	27.7	51.5	4.6
407824	V	48.5 <sup>w</sup>	14.4 <sup>w</sup>	13.3	3.4	20.2	56.5	6.6
407825	V	50.5 <sup>w</sup>	15.7 <sup>w</sup>	12.7	3.5	31.8	46.3	5.7
407826	V	47.4	17.1	13.0	3.2	25.1	53.6	5.2
407830	V	48.6	14.8	12.8	3.5	21.6	55.3	6.8
407833B	V	47.7 <sup>w</sup>	16.8 <sup>w</sup>	13.6	4.5	20.7	54.6	6.6
407833C	V	45.8 <sup>w</sup>	17.1 <sup>w</sup>	12.5	3.6	21.8	56.7	5.4
407834	V	49.5 <sup>w</sup>	13.8 <sup>w</sup>	13.7	3.3	18.5	56.9	7.6
407835	V	43.9	17.8	14.0	3.4	20.2	56.1	6.3
407836	V	49.4 <sup>w</sup>	13.7 <sup>w</sup>	12.5	4.4	20.0	55.1	8.0
407837	V	46.1	15.0	12.0	4.2	18.2	58.1	7.5
407838	V	50.1 <sup>w</sup>	13.7 <sup>w</sup>	13.5	3.5	26.7	49.8	6.5
407839-1	V	50.6 <sup>w</sup>	14.2 <sup>w</sup>	12.9	3.6	24.1	52.9	6.5
407840	V	47.6 <sup>w</sup>	14.9 <sup>w</sup>	12.7	3.4	19.4	58.1	6.3
407841	V	49.1 <sup>w</sup>	15.1 <sup>w</sup>	12.8	3.4	25.3	52.1	6.3
407842	V	49.5 <sup>w</sup>	13.4 <sup>w</sup>	12.6	3.8	17.1	58.4	8.0
407843	V	50.0 <sup>w</sup>	15.2 <sup>w</sup>	12.7	3.5	24.7	52.9	6.2
407844	V	50.4 <sup>w</sup>	14.5 <sup>w</sup>	12.8	3.8	23.2	53.7	6.5
407846	V	45.8	17.6	13.3	3.5	20.5	57.2	5.6
407852	V	45.1	16.7	12.2	3.8	22.8	54.5	6.8
407853	V	45.2 <sup>w</sup>	17.3 <sup>w</sup>	12.7	3.5	17.1	59.2	7.5
407854	V	48.0 <sup>w</sup>	18.7 <sup>w</sup>	13.0	4.0	23.7	52.9	6.4
407855	V	47.8 <sup>w</sup>	18.2 <sup>w</sup>	12.6	3.3	18.0	58.5	7.6
407856	V	47.7 <sup>w</sup>	17.9 <sup>w</sup>	11.8	3.2	22.4	55.6	7.1
407857	V	47.7 <sup>w</sup>	17.6 <sup>w</sup>	10.7	3.1	20.3	58.4	7.4
407859-1	V	47.5 <sup>w</sup>	16.2 <sup>w</sup>	11.1	3.2	15.5	63.0	7.2
407859-2	V	47.2 <sup>w</sup>	15.8 <sup>w</sup>	11.6	2.9	17.9	59.2	8.4

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
407864		Cholla Puk	South Korea	South Korea	1976	V
407865		Cholla Puk	South Korea	South Korea	1976	V
407866		Cholla Puk	South Korea	South Korea	1976	V
407867C		Cholla Puk	South Korea	South Korea	1976	V
407871		Cholla Puk	South Korea	South Korea	1976	V
407874-1		Cholla Puk	South Korea	South Korea	1976	V
407874-2		Cholla Puk	South Korea	South Korea	1976	V
407876		Cholla Puk	South Korea	South Korea	1976	V
407877C		Cholla Puk	South Korea	South Korea	1976	V
407878		Cholla Puk	South Korea	South Korea	1976	V
407879		Cholla Puk	South Korea	South Korea	1976	V
407880		Cholla Puk	South Korea	South Korea	1976	V
407881		Cholla Puk	South Korea	South Korea	1976	V
407882		Cholla Puk	South Korea	South Korea	1976	V
407884		Cholla Puk	South Korea	South Korea	1976	V
407885		Cholla Puk	South Korea	South Korea	1976	V
407887		Cholla Puk	South Korea	South Korea	1976	V
407888		Cholla Puk	South Korea	South Korea	1976	V
407889		Cholla Puk	South Korea	South Korea	1976	V
407890-1		Cholla Puk	South Korea	South Korea	1976	V
407890-2		Cholla Puk	South Korea	South Korea	1976	V
407891		Cholla Puk	South Korea	South Korea	1976	V
407892B		Cholla Puk	South Korea	South Korea	1976	V
407893		Cholla Puk	South Korea	South Korea	1976	V
407894		Cholla Puk	South Korea	South Korea	1976	V
407896		Cholla Puk	South Korea	South Korea	1976	V
407899		Cholla Puk	South Korea	South Korea	1976	V
407901		Cholla Puk	South Korea	South Korea	1976	V
407909		Cholla Puk	South Korea	South Korea	1976	V
407910		Cholla Puk	South Korea	South Korea	1976	V
407911		Cholla Puk	South Korea	South Korea	1976	V
407912		Cholla Puk	South Korea	South Korea	1976	V
407915		Cholla Puk	South Korea	South Korea	1976	V
407916		Cholla Puk	South Korea	South Korea	1976	V
407919		Cholla Puk	South Korea	South Korea	1976	V
407920		Cholla Puk	South Korea	South Korea	1976	V
407921		Cholla Puk	South Korea	South Korea	1976	V
407923		Cholla Puk	South Korea	South Korea	1976	V
407929		Cholla Puk	South Korea	South Korea	1976	V
407930		Cholla Puk	South Korea	South Korea	1976	V
407931		Cholla Puk	South Korea	South Korea	1976	V
407935		Cholla Puk	South Korea	South Korea	1976	VI
407936		Cholla Puk	South Korea	South Korea	1976	V
407938		Cholla Puk	South Korea	South Korea	1976	V
407940		Cholla Puk	South Korea	South Korea	1976	V
407942		Cholla Puk	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
407864	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	4N
407865	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
407866	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	4N
407867C	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
407871	V	D	P	Lt	E	Ssp	Br	D	Gn	Gn	Def	2N
407874-1	V	N	W	T	Sa	Ssp	Tn	I	Ggn	Bl		2N
407874-2	V	D	W	T	E	Ssp	Tn	I	Y	Bl		2N
407876	V	D	W	T	E	Ssp	Tn	I	Gn	Bl		2N
407877C	V	D	P	G	Sa	N	Br	D	Y	Bf		3N
407878	V	N	P	T	A	Ssp	Br	I	Bl	Bl		2N
407879	V	D	P	G	A	N	Bl	I	Gn	Gn	Gnc	2N
407880	V	D	W	T	Sa	Ssp	Tn	D	Gn	Bl		2N
407881	V	D	W	Ng	A	N	Tn	D	Lg	Bl		2N
407882	V	D	P	G	Sa	N	Bl	I	Gn	Bf		2N
407884	V	D	W	G	A	N	Tn	D	Y	Y		2N
407885	V	S	P	T	Sa	Ssp	Tn	I	Y	Bl		2N
407887	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
407888	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
407889	V	D	P	G	Sa	Ssp	Br	D	Gn	Gn	Gnc	2N
407890-1	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc, Snet	2N
407890-2	V	D	P	G	Sa	Ssp	Br	D	Gn	Bf	Gnc	2N
407891	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl	Gnc	3N
407892B	V	D	W	G	E	Ssp	Tn	I	Y	Y		2N
407893	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
407894	V	D	P	T	A	Ssp	Br	D	Bl	Bl	Gnc	2N
407896	V	D	P	T	A	N	Br	I	Br	Br		2N
407899	V	D	P	G	A	N	Bl	I	Gn	Bf	Gnc	2N
407901	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
407909	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc, Sdef	2N
407910	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		2N
407911	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		2N
407912	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
407915	V	D	P	G	A	Ssp	Tn	D	Y	Bf	Vhil	2N
407916	V	D	W	G	E	Ssp	Tn	D	Y	Bf	Sdef	3N
407919	V	D	P	T	Sa	Ssp	Bl	D	Gn	Br		2N
407920	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc	2N
407921	V	D	P	T	Sa	Sp	Br	I	Bl	Bl	Snet	3N
407923	V	D	P	G	E	Ssp	Bl	D	Gn	Bf	Gnc, Sdef	2N
407929	V	D	P	T	Sa	Sp	Br	I	Rbr	Rbr	Snet	2N
407930	V	D	P	G	A	N	Tn	I	Y	Y		2N
407931	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Snet	2N
407935	VI	N	P	G	A	Ssp	Tn	D	Lgn	Bf		4N
407936	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Snet	2N
407938	V	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
407940	V	N	P	G	A	Ssp	Br	I	Y	Bf		3N
407942	V	D	W	T	Sa	Ssp	Tn	I	Y	Bl		3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
407864	627	921	2.5	45	1.0	2.0	2.8	--	16.2	1.24*
407865	623	922	3.0	50	1.0	2.0	2.2	--	12.5	1.39
407866	621	921	2.5	46	1.0	1.5	3.0	--	16.5*	1.20
407867C	625	923	2.5	60	1.5	2.5	2.8	--	15.4	0.98
407871	619	1003	2.5	38*	1.5	2.5	3.2	1.5	25.1*	1.07
407874-1	703	929	4.0*	110*	2.5	3.5	3.0	2.5	6.6	1.04
407874-2	625	927	4.0	47	1.5	2.5	2.2	2.0	7.0	1.35
407876	623	927	3.0*	51*	1.5	2.5	3.0	1.5	7.0	0.68
407877C	619	913	1.5	48	2.0*	4.0	2.5	2.0	12.0	1.98
407878	629	929	4.5	132	2.0	3.0	2.8	--	10.0	0.68
407879	705	921	2.5	70*	1.0	1.5	2.0	1.5	9.4	0.87
407880	625	919	3.0*	58*	1.5	2.5	2.2	2.0	9.8	2.47
407881	625	919	3.0	60*	1.5	2.5	2.8	3.5	9.2	1.80
407882	630	921	2.5	53*	2.0*	3.5	2.2	2.5	8.4	1.59*
407884	619	918	2.0	42	1.5	2.5	2.5	1.0	12.2	1.88
407885	624	919	2.5	46*	2.5*	4.0*	2.8*	2.0	7.1	1.34
407887	625	927	2.5	48	1.0	2.0	2.5	--	16.5	1.08
407888	627	927	2.5	48*	1.0	1.5	2.8	--	17.5	0.97
407889	621	920	2.5	60*	1.5	2.5	3.2	2.5	16.4	1.50
407890-1	613	913	1.5	38	2.0*	3.0*	3.2	2.0	17.2	1.11
407890-2	619	919	2.5	44	2.0*	3.0*	2.5	1.0	11.6	1.37
407891	629	927	2.5	52	1.0	2.0	2.8	2.0	18.0	1.08
407892B	703	927	2.5	55	1.5	2.5	3.2	3.0	10.0	0.61
407893	627	923	2.0	42	1.0	1.5	2.8	--	20.6	1.41
407894	703	927	3.5	58	2.5	4.0	2.0	--	11.6	1.33
407896	619	921	3.5	53	1.5	2.5	2.2	--	12.4	2.20
407899	619	922	2.5	55	1.5	2.0*	2.5	2.0	9.8	0.75
407901	621	924	2.0	37	1.5	2.5	2.5	--	24.5*	1.40
407909	621	921	2.0	33	1.5	2.5	3.0	1.0	17.2	0.93
407910	627	927	2.5	66	1.0	1.5	2.8	1.5	9.0	1.39
407911	627	927	2.5	72	1.0	1.5	3.0	1.5	9.1	1.52
407912	618	921	2.0	42	1.5	3.0	3.2	1.5	17.2	1.15
407915	619	925	2.0	56	1.5	2.5	3.0	1.0	9.2	1.42
407916	624	929	3.0	58*	2.5	3.5	2.8	2.0	9.3	1.42
407919	627	923	3.5	56	2.0	3.0	2.8	3.0	11.7	1.01
407920	618	922	2.0	50	1.5	2.5	3.0	2.5	17.2	1.01
407921	621	921	2.5	45	1.0	1.5	3.0	--	17.0	0.96
407923	624	927	3.0*	52	1.0	2.5	3.0	1.5	17.8	1.07
407929	627	1001	3.0*	52	1.5	2.5	3.2	--	17.5	0.89
407930	618	919	3.5	42	1.0	2.5	2.2	1.5	7.0	1.58
407931	623	929	3.0	40	1.0	2.5	2.2	--	19.5*	1.08
407935	705	1008	4.5	150*	1.5	3.5	3.2	2.0	7.8	0.62
407936	627	930	3.5	46	1.5	2.5	2.2	--	17.7	1.56
407938	623	929	2.5	43	2.5	3.0*	2.5	--	6.7	0.88
407940	703	1003	4.5	148	2.5	3.5	3.2	2.0	7.0	0.67
407942	625	924	4.0*	67	1.5	3.0	2.8	2.5	7.6	1.10



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
407864	V	46.1 <sup>w</sup>	14.3 <sup>w</sup>	16.4	3.1	16.0	53.5	11.0
407865	V	47.4 <sup>w</sup>	16.5 <sup>w</sup>	10.9	3.1	19.5	59.7	6.8
407866	V	46.2 <sup>w</sup>	14.1 <sup>w</sup>	16.4	3.3	18.0	51.9	10.3
407867C	V	46.4 <sup>w</sup>	17.8 <sup>w</sup>	12.6	3.7	20.0	56.3	7.4
407871	V	46.0 <sup>w</sup>	20.3 <sup>w</sup>	11.0	3.2	19.3	58.8	7.7
407874-1	V	52.6 <sup>w</sup>	14.1 <sup>w</sup>	12.5	3.6	23.1	53.9	6.9
407874-2	V	46.7 <sup>w</sup>	14.0 <sup>w</sup>	11.8	3.7	18.8	57.8	7.9
407876	V	52.0 <sup>w</sup>	12.8 <sup>w</sup>	13.2	3.6	24.9	51.5	6.8
407877C	V	45.3	18.6	14.3	3.7	19.6	55.7	6.6
407878	V	46.1 <sup>w</sup>	17.1 <sup>w</sup>	10.0	3.8	23.7	55.7	6.9
407879	V	46.1 <sup>w</sup>	17.6 <sup>w</sup>	11.4	3.4	25.9	52.6	6.6
407880	V	44.7 <sup>w</sup>	18.5 <sup>w</sup>	12.3	3.6	23.2	54.8	6.1
407881	V	43.9 <sup>w</sup>	16.1 <sup>w</sup>	13.1	3.6	21.3	55.1	7.0
407882	V	43.0 <sup>w</sup>	16.9 <sup>w</sup>	11.9	3.3	23.4	55.0	6.4
407884	V	43.2	18.8	12.7	3.6	21.7	55.7	6.4
407885	V	48.5	14.7	14.7	3.5	18.9	55.5	7.4
407887	V	47.1 <sup>w</sup>	16.6 <sup>w</sup>	11.8	3.0	18.1	58.8	8.2
407888	V	46.0 <sup>w</sup>	16.4 <sup>w</sup>	11.9	2.8	17.6	59.4	8.4
407889	V	47.6 <sup>w</sup>	17.2 <sup>w</sup>	10.4	2.7	19.9	59.3	7.6
407890-1	V	43.9 <sup>w</sup>	18.8 <sup>w</sup>	11.6	3.1	17.9	59.9	7.5
407890-2	V	44.9 <sup>w</sup>	17.5 <sup>w</sup>	10.5	3.2	16.5	62.0	7.9
407891	V	45.0 <sup>w</sup>	17.6 <sup>w</sup>	10.7	2.7	16.6	60.6	9.4
407892B	V	51.1	14.1	13.0	4.2	23.6	52.6	6.6
407893	V	46.3 <sup>w</sup>	17.3 <sup>w</sup>	11.3	2.7	16.9	60.9	8.3
407894	V	44.5 <sup>w</sup>	18.3 <sup>w</sup>	10.6	2.8	20.8	58.5	7.3
407896	V	41.9 <sup>w</sup>	17.4 <sup>w</sup>	11.1	3.1	25.2	53.6	7.0
407899	V	44.8 <sup>w</sup>	17.8 <sup>w</sup>	11.5	3.2	25.3	53.2	6.8
407901	V	45.0 <sup>w</sup>	19.3 <sup>w</sup>	11.6	3.0	22.1	56.4	6.9
407909	V	46.7 <sup>w</sup>	16.3 <sup>w</sup>	10.2	3.3	21.6	56.5	8.5
407910	V	47.1	15.9	12.6	4.2	20.6	56.1	6.5
407911	V	44.9	16.5	12.4	4.1	21.5	55.9	6.0
407912	V	48.4 <sup>w</sup>	18.6 <sup>w</sup>	11.8	3.2	18.0	58.9	8.2
407915	V	49.1	15.1	13.1	3.8	19.1	56.6	7.4
407916	V	45.7	16.0	12.9	4.3	18.4	57.2	7.1
407919	V	45.5 <sup>w</sup>	18.6 <sup>w</sup>	11.2	3.4	21.7	57.1	6.6
407920	V	47.2 <sup>w</sup>	17.7 <sup>w</sup>	10.6	3.0	25.3	53.6	7.5
407921	V	43.5 <sup>w</sup>	19.1 <sup>w</sup>	10.6	3.3	17.9	59.8	8.4
407923	V	43.9 <sup>w</sup>	20.9 <sup>w</sup>	10.0	3.0	26.6	53.6	6.8
407929	V	46.2 <sup>w</sup>	17.9 <sup>w</sup>	11.6	3.5	23.7	54.7	6.5
407930	V	47.6	16.7	13.1	3.6	24.6	53.4	5.2
407931	V	44.0 <sup>w</sup>	18.5 <sup>w</sup>	10.4	2.9	19.4	59.0	8.2
407935	VI	49.9 <sup>w</sup>	14.4 <sup>w</sup>	12.1	3.8	22.3	54.9	6.9
407936	V	43.3 <sup>w</sup>	19.2 <sup>w</sup>	9.5	2.9	18.4	60.6	8.6
407938	V	48.8 <sup>w</sup>	14.1 <sup>w</sup>	12.5	3.7	21.5	55.5	6.8
407940	V	51.0	14.9	11.9	4.6	21.2	56.4	5.9
407942	V	47.8 <sup>w</sup>	16.2 <sup>w</sup>	11.8	3.2	21.5	56.6	6.9

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
407943		Cholla Puk	South Korea	South Korea	1976	V
407944		Cholla Puk	South Korea	South Korea	1976	V
407948		Cholla Nam	South Korea	South Korea	1976	V
407950-1		Cholla Nam	South Korea	South Korea	1976	V
407950-2		Cholla Nam	South Korea	South Korea	1976	V
407951		Cholla Nam	South Korea	South Korea	1976	V
407953		Cholla Nam	South Korea	South Korea	1976	V
407954		Cholla Nam	South Korea	South Korea	1976	V
407955		Cholla Nam	South Korea	South Korea	1976	V
407956		Cholla Nam	South Korea	South Korea	1976	V
407957		Cholla Nam	South Korea	South Korea	1976	V
407961-1		Cholla Nam	South Korea	South Korea	1976	V
407961-2		Cholla Nam	South Korea	South Korea	1976	V
407962-1		Cholla Nam	South Korea	South Korea	1976	V
407962-2		Cholla Nam	South Korea	South Korea	1976	V
407963		Cholla Nam	South Korea	South Korea	1976	V
407965		Cholla Nam	South Korea	South Korea	1976	V
407966C		Cholla Nam	South Korea	South Korea	1976	V
407968		Cholla Nam	South Korea	South Korea	1976	V
407970		Cholla Nam	South Korea	South Korea	1976	V
407973B		Cholla Nam	South Korea	South Korea	1976	V
407975B		Cholla Nam	South Korea	South Korea	1976	V
407978		Cholla Nam	South Korea	South Korea	1976	V
407980		Cholla Nam	South Korea	South Korea	1976	V
407982		Cholla Nam	South Korea	South Korea	1976	V
407983		Cholla Nam	South Korea	South Korea	1976	V
407984		Cholla Nam	South Korea	South Korea	1976	V
407986B		Cholla Nam	South Korea	South Korea	1976	V
407987		Cholla Nam	South Korea	South Korea	1976	V
407989		Cholla Nam	South Korea	South Korea	1976	V
407990		Cholla Nam	South Korea	South Korea	1976	V
407993		Cholla Nam	South Korea	South Korea	1976	V
407994		Cholla Nam	South Korea	South Korea	1976	V
407995		Cholla Nam	South Korea	South Korea	1976	V
407998B		Cholla Nam	South Korea	South Korea	1976	V
407998D		Cholla Nam	South Korea	South Korea	1976	V
407999-1		Cholla Nam	South Korea	South Korea	1976	V
407999-2		Cholla Nam	South Korea	South Korea	1976	V
408000		Cholla Nam	South Korea	South Korea	1976	V
408001		Cholla Nam	South Korea	South Korea	1976	V
408002		Cholla Nam	South Korea	South Korea	1976	V
408003-1		Cholla Nam	South Korea	South Korea	1976	V
408003-2		Cholla Nam	South Korea	South Korea	1976	VI
408004-2		Cholla Nam	South Korea	South Korea	1976	V
408009		Cholla Nam	South Korea	South Korea	1976	V
408010-2		Cholla Nam	South Korea	South Korea	1976	VI

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
407943	V	D	P	G	A	Ssp	Tn	D	Y	Bf		2N
407944	V	D	W	G	Sa	Ssp	Br	I	Y	Bf		2N
407948	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
407950-1	V	D	W	G	A	N	Tn	D	Y	Y		2N
407950-2	V	D	W	G	E	N	Tn	I	Y	Bf		3N
407951	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
407953	V	D	P	T	E	Ssp	Br	D	Bl	Bl	Snet	3N
407954	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
407955	V	D	P	T	Sa	Ssp	Br	D	Bl	Bl	Snet	2N
407956	V	D	P	T	E	Ssp	Br	D	Bl	Bl	Snet	2N
407957	V	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		3N
407961-1	V	N	P	T	Sa	Ssp	Br	I	Br	Br		3F
407961-2	V	D	W	T	A	N	Tn	I	Y	Bl		1N
407962-1	V	D	P	G	E	Ssp	Bl	I	Gn	Gn	Gnc	2N
407962-2	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
407963	V	D	P	T	A	Ssp	Tn	I	Bl	Bl		2N
407965	V	N	P	G	A	Ssp	Tn	I	Y	Bf		4N
407966C	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
407968	V	D	P	G	A	Ssp	Bl	I	Gn	Bf		2N
407970	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
407973B	V	D	P	G	A	Ssp	Br	I	Gn	Bf	Gnc	3N
407975B	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
407978	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
407980	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
407982	V	D	P	T	A	Sp	Br	I	Bl	Bl	Net	3N
407983	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2F
407984	V	D	P	T	A	N	Br	I	Gn	Bl	Vsad	3N
407986B	V	N	P	T	A	Ssp	Tn	D	Y	Bl		3N
407987	V	D	W	T	Sa	N	Bl	I	Gn	Brbl	Vhil	2N
407989	V	D	W	T	Sa	Ssp	Tn	I	Gn	Bl		2N
407990	V	D	P	Lt	Sa	Ssp	Br	I	Bl	Bl		3N
407993	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Snet	2N
407994	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
407995	V	N	W	T	Sa	N	Dbr	I	Gn	Br		4N
407998B	V	D	P	G	E	Ssp	Tn	I	Y	Bf		3N
407998D	V	D	P	G	Sa	N	Br	I	Y	Bf		3N
407999-1	V	D	P	T	A	Ssp	Br	I	Bl	Bl		4N
407999-2	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
408000	V	D	W	G	A	N	Tn	I	Y	Y		2N
408001	V	D	P	Lt	E	Ssp	Tn	S	Y	Br		4N
408002	V	D	P	Lt	E	Ssp	Tn	S	Y	Br		3N
408003-1	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3F
408003-2	VI	N	P	T	A	Ssp	Br	Lb	Bl	Bl		4N
408004-2	V	N	W	G	Sa	Ssp	Tn	D	Y	Bf		3N
408009	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Snet	2N
408010-2	VI	D	P	G	E	Ssp	Tn	I	Y	Bf		3N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
407943	619	918	2.0	50*	3.0*	4.0*	2.5	1.0	9.2	1.71*
407944	621	923	2.5	46*	1.5	2.5	2.8	2.0	14.8	1.18
407948	621	927	3.5	55*	2.0	3.0	2.5	--	13.2	0.96
407950-1	623	927	3.0	55	1.5	2.0*	2.2	1.5	12.4	1.61
407950-2	624	924	3.0	54*	2.0*	3.0*	3.0	1.5	11.0	0.53
407951	617	923	2.0	43*	1.0	2.0	2.2	2.0	11.4	1.53*
407953	623	930	3.0	46*	1.0	2.0	2.8	--	21.3*	1.03
407954	625	925	2.0	38*	1.0	2.0	3.0	--	21.8*	0.91
407955	620	921	2.0	36	1.0	2.0	2.8	--	20.7	0.84
407956	619	923	2.0	45*	1.0	2.0	2.8	--	21.7	1.10
407957	707	927	4.0	54*	1.0	2.0	2.2	--	5.6	0.71
407961-1	623	923	4.5	135	2.5	4.5	3.0	--	11.2	1.07
407961-2	709	1001	4.0	61	1.0	2.0	2.8	3.5	9.8	0.73
407962-1	617	919	1.0	43*	2.0*	2.0	2.0	2.5	8.0	1.00
407962-2	714	929	3.0	65	1.0	1.5	2.5	2.0	10.2	1.06
407963	705	1001	3.0	45	1.5	2.5	2.2	--	8.5	0.88
407965	627	921	4.5	190*	2.5	4.5	3.0	2.0	5.4	0.95
407966C	619	921	2.0	38*	1.5	2.5	2.2	2.0	11.8	1.53
407968	619	923	3.0	60	1.5	3.0	2.2	2.0	7.6	1.80
407970	625	919	2.5	40*	3.0	4.0	2.5	--	12.2	1.29
407973B	703	912	2.5	74*	1.5	3.0*	2.8	2.0	7.3	1.76*
407975B	618	915	2.0	34	1.5	2.5	2.5	2.0	12.0	1.39
407978	618	918	3.0	43	1.5	2.5	2.2	2.0	7.0	1.92
407980	623	921	2.5	55	2.0	2.5	2.5	--	18.8	1.51
407982	623	926	2.5	51	1.0	2.0	2.8	--	16.2	1.05
407983	625	925	2.5	52	1.0	2.0	2.8	--	18.8	1.16
407984	619	922	2.5	36	1.0	2.0	2.8	--	22.2	0.86
407986B	703	1002	4.5	135	2.5	3.5	3.0	2.0	8.6	1.03
407987	701	927	4.0	48	1.5	3.0	2.2	2.5	7.1	0.64
407989	627	923	2.5	56	2.0*	3.0*	2.0	3.0	9.9	1.61
407990	621	923	2.0	44	1.5	2.5	2.5	--	22.8	1.14
407993	625	1002	3.5	50	1.0	2.0	2.8	--	19.2	1.09
407994	619	921	2.0	38*	1.5	2.5	2.2	1.5	11.8	1.51
407995	701	929	4.5	112*	1.5	2.5	2.5	3.0	9.0	1.24
407998B	619	919	2.5	61*	2.0*	3.5	2.5	1.5	9.6	1.52*
407998D	703	911	3.5	51*	2.0*	3.0*	2.8	2.5	8.4	2.02*
407999-1	621	919	2.0	47	1.5	2.0*	2.2	--	17.3	1.40
407999-2	714	1003	4.0	84*	2.0*	3.0*	2.8	--	7.3	0.74
408000	619	920	2.0	40*	1.5	2.5	2.0	1.5	12.2	1.81
408001	711	927	3.5	70	3.5	4.5	2.2	3.5	9.5	1.62
408002	707	926	3.5	66	3.0*	4.0*	2.2	3.0	8.4	1.71*
408003-1	623	1001	3.0*	65*	1.5	2.5	2.5	--	20.9	0.75
408003-2	630	1005*	4.5	94*	1.5	3.0	3.2	--	10.4	0.33
408004-2	621	928	4.5	112	2.0*	3.0*	2.2	1.0	9.6	1.81*
408009	627	927	3.5	50*	1.5	3.0	2.2	--	18.5*	1.11
408010-2	705	1005*	3.5	72*	1.5	2.0*	3.2	3.0	15.8	1.14

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
407943	V	44.5	17.7	12.4	3.2	20.0	57.6	6.7
407944	V	45.9	16.4	12.1	3.7	20.1	57.6	6.6
407948	V	48.2 <sup>w</sup>	18.1 <sup>w</sup>	12.5	2.9	20.4	57.4	6.9
407950-1	V	47.6	16.3	13.0	3.6	21.5	55.4	6.6
407950-2	V	48.5	15.8	12.0	4.0	19.4	57.7	6.8
407951	V	46.8	16.9	12.4	3.4	21.2	56.1	6.9
407953	V	48.3 <sup>w</sup>	17.3 <sup>w</sup>	9.7	2.6	24.6	56.5	6.6
407954	V	44.4 <sup>w</sup>	18.0 <sup>w</sup>	12.1	3.0	19.2	58.1	7.6
407955	V	43.8 <sup>w</sup>	19.0 <sup>w</sup>	11.8	3.0	20.1	57.9	7.2
407956	V	43.5 <sup>w</sup>	17.7 <sup>w</sup>	12.2	3.5	19.0	57.7	7.6
407957	V	50.4 <sup>w</sup>	12.6 <sup>w</sup>	12.8	3.4	19.3	56.5	8.0
407961-1	V	45.9 <sup>w</sup>	16.7 <sup>w</sup>	11.2	4.0	23.6	55.0	6.2
407961-2	V	49.2 <sup>w</sup>	16.2 <sup>w</sup>	11.4	3.3	22.0	55.9	7.3
407962-1	V	46.7 <sup>w</sup>	18.1 <sup>w</sup>	10.3	3.0	42.3	39.5	5.0
407962-2	V	44.9 <sup>w</sup>	17.6 <sup>w</sup>	11.4	2.9	19.6	58.7	7.5
407963	V	50.9 <sup>w</sup>	14.0 <sup>w</sup>	12.1	3.6	18.6	57.7	8.0
407965	V	51.0	12.6	13.4	4.0	17.3	57.7	7.6
407966C	V	45.4	17.2	12.4	3.3	21.4	56.5	6.5
407968	V	47.0 <sup>w</sup>	16.3 <sup>w</sup>	11.2	2.7	25.7	54.1	6.3
407970	V	44.0 <sup>w</sup>	18.2 <sup>w</sup>	10.8	2.9	23.1	56.0	7.2
407973B	V	45.0 <sup>w</sup>	15.1 <sup>w</sup>	11.9	3.1	14.6	60.5	9.8
407975B	V	45.6	17.1	12.6	3.2	20.8	56.7	6.7
407978	V	47.3	17.3	13.0	3.4	24.6	53.8	5.2
407980	V	44.8 <sup>w</sup>	17.8 <sup>w</sup>	10.3	2.7	20.8	59.2	7.0
407982	V	47.2 <sup>w</sup>	16.9 <sup>w</sup>	10.7	2.7	24.6	54.8	7.2
407983	V	46.1 <sup>w</sup>	15.5 <sup>w</sup>	14.5	2.7	20.6	53.6	8.6
407984	V	46.3 <sup>w</sup>	17.9 <sup>w</sup>	11.3	3.3	24.3	54.5	6.7
407986B	V	46.3	17.5	13.3	3.9	23.6	52.9	6.3
407987	V	49.2 <sup>w</sup>	15.3 <sup>w</sup>	11.2	3.2	22.4	56.3	6.9
407989	V	46.9 <sup>w</sup>	16.8 <sup>w</sup>	11.2	3.6	26.6	52.7	6.0
407990	V	46.7 <sup>w</sup>	17.3 <sup>w</sup>	11.8	3.0	17.4	60.2	7.6
407993	V	47.1 <sup>w</sup>	15.9 <sup>w</sup>	9.4	3.2	18.0	60.8	8.7
407994	V	46.9	16.6	13.0	3.4	19.9	56.7	7.0
407995	V	46.0 <sup>w</sup>	17.4 <sup>w</sup>	11.8	3.0	20.9	57.0	7.3
407998B	V	46.4	15.8	13.4	4.2	18.4	56.8	7.1
407998D	V	52.4	13.8	12.9	3.5	17.5	58.7	7.3
407999-1	V	45.0 <sup>w</sup>	18.1 <sup>w</sup>	11.4	3.0	19.3	58.5	7.7
407999-2	V	49.1 <sup>w</sup>	15.7 <sup>w</sup>	12.1	3.2	20.6	57.1	7.0
408000	V	43.8	18.1	12.4	3.5	23.7	54.2	6.2
408001	V	43.8 <sup>w</sup>	18.4 <sup>w</sup>	11.1	3.5	29.9	50.3	5.2
408002	V	45.2	17.6	11.8	3.5	28.3	50.8	5.5
408003-1	V	46.4 <sup>w</sup>	17.2 <sup>w</sup>	11.2	2.6	24.8	54.3	7.2
408003-2	VI	47.1 <sup>w</sup>	15.8 <sup>w</sup>	11.6	4.4	22.0	55.3	6.8
408004-2	V	44.6	18.2	12.2	4.1	27.0	51.0	5.8
408009	V	45.0 <sup>^w</sup>	18.9 <sup>^w</sup>	10.0 <sup>^</sup>	3.2 <sup>^</sup>	21.9 <sup>^</sup>	57.3 <sup>^</sup>	7.6 <sup>^</sup>
408010-2	VI	46.5	17.6	12.1	4.1	26.4	51.4	6.1

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
408011		Cholla Nam	South Korea	South Korea	1976	V
408012		Cholla Nam	South Korea	South Korea	1976	V
408022		Cholla Nam	South Korea	South Korea	1976	V
408023		Cholla Nam	South Korea	South Korea	1976	V
408024		Cholla Nam	South Korea	South Korea	1976	V
408027		Cholla Nam	South Korea	South Korea	1976	V
408031		Cholla Nam	South Korea	South Korea	1976	V
408034		Cholla Nam	South Korea	South Korea	1976	V
408035		Cholla Nam	South Korea	South Korea	1976	V
408037		Cholla Nam	South Korea	South Korea	1976	V
408038		Cholla Nam	South Korea	South Korea	1976	V
408040-1		Cholla Nam	South Korea	South Korea	1976	V
408040-2		Cholla Nam	South Korea	South Korea	1976	V
408041		Cholla Nam	South Korea	South Korea	1976	V
408042		Cholla Nam	South Korea	South Korea	1976	V
408045		Cholla Nam	South Korea	South Korea	1976	V
408046		Cholla Nam	South Korea	South Korea	1976	V
408047		Cholla Nam	South Korea	South Korea	1976	V
408049		Cholla Nam	South Korea	South Korea	1976	V
408053		Cholla Nam	South Korea	South Korea	1976	V
408054		Cholla Nam	South Korea	South Korea	1976	V
408055D		Cholla Nam	South Korea	South Korea	1976	V
408056		Cholla Nam	South Korea	South Korea	1976	V
408059		Kyongsang Puk	South Korea	South Korea	1976	V
408060		Kyongsang Puk	South Korea	South Korea	1976	V
408063		Kyongsang Puk	South Korea	South Korea	1976	V
408066B		Kyongsang Puk	South Korea	South Korea	1976	V
408068C		Kyongsang Puk	South Korea	South Korea	1976	V
408076C		Kyongsang Puk	South Korea	South Korea	1976	V
408077		Kyongsang Puk	South Korea	South Korea	1976	V
408078		Kyongsang Puk	South Korea	South Korea	1976	V
408079B		Kyongsang Puk	South Korea	South Korea	1976	V
408080		Kyongsang Puk	South Korea	South Korea	1976	V
408081		Kyongsang Puk	South Korea	South Korea	1976	V
408082		Kyongsang Puk	South Korea	South Korea	1976	V
408083B		Kyongsang Puk	South Korea	South Korea	1976	VI
408084A		Kyongsang Puk	South Korea	South Korea	1976	V
408084C		Kyongsang Puk	South Korea	South Korea	1976	V
408086		Kyongsang Puk	South Korea	South Korea	1976	V
408087		Kyongsang Puk	South Korea	South Korea	1976	V
408088		Kyongsang Puk	South Korea	South Korea	1976	V
408091		Kyongsang Puk	South Korea	South Korea	1976	V
408093		Kyongsang Puk	South Korea	South Korea	1976	V
408094-1		Kyongsang Puk	South Korea	South Korea	1976	V
408094-2		Kyongsang Puk	South Korea	South Korea	1976	V
408095C		Kyongsang Puk	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
408011	V	D	P	G	E	Ssp	Tn	D	Y	Bf		2N
408012	V	N	P	T	Sa	Ssp	Br	I	Gnbr	Gnbr		4N
408022	V	D	P	T	Sa	Ssp	Bl	I	Bl	Bl		2N
408023	V	D	P	T	E	Ssp	Bl	S	Br	Br	Sst	2N
408024	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408027	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
408031	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408034	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
408035	V	D	P	T	Sa	Ssp	Tn	I	Y	Brbl	Vhil	2N
408037	V	D	P	G	A	Ssp	Br	D	Gn	Gn	Gnc	2N
408038	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
408040-1	V	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
408040-2	V	D	W	T	A	Ssp	Br	I	Y	Tn		2N
408041	V	D	P	G	A	Ssp	Br	D	Gn	Gn	Gnc	2N
408042	V	D	P	T	E	Ssp	Tn	I	Y	Bl		1N
408045	V	D	P	T	Sa	Ssp	Bl	I	Br	Br	St	2N
408046	V	D	P	T	E	Ssp	Tn	I	Bl	Bl		2N
408047	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
408049	V	D	W	T	E	Ssp	Tn	I	Bl	Bl	Snet	2N
408053	V	D	P	G	A	N	Bl	I	Gn	Bf		3N
408054	V	D	P	G	A	N	Bl	I	Gn	Bf		3N
408055D	V	D	P	T	A	Ssp	Br	I	Bl	Bl		2F
408056	V	D	W	G	E	N	Tn	I	Y	Y		2N
408059	V	D	W	G	E	N	Tn	I	Y	Y		2N
408060	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Net	3N
408063	V	D	W	G	Sa	N	Tn	I	Y	Bf		2N
408066B	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
408068C	V	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
408076C	V	N	P	G	E	N	Br	D	Gn	Gn	Gnc	2N
408077	V	D	P	T	Sa	N	Br	I	Ggn	Bl	Vhil	2N
408078	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408079B	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408080	V	D	W	T	E	Ssp	Br	I	Y	Br		2N
408081	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
408082	V	D	W	T	Sa	Ssp	Br	I	Lgn	Bl		2N
408083B	VI	D	P	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
408084A	V	D	P	Lt	A	N	Bl	I	Gn	Br	Gnc	2N
408084C	V	D	P	T	Sa	N	Br	I	Gn	Br	Gnc	2N
408086	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
408087	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
408088	V	N	P	Lt	E	Ssp	Br	I	Gnbr	Gnbr		4F
408091	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
408093	V	D	W	Lt	E	Ssp	Br	I	Br	Br	Sst	2N
408094-1	V	D	P	T	Sa	Ssp	Br	I	Br	Br		2N
408094-2	V	D	P	T	E	Ssp	Bl	I	Rbr	Rbr	Snet	2N
408095C	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
408011	705	1001	3.5	58*	1.5	2.5	2.5	2.0	10.6	1.14
408012	705	1001	5.0	135	1.5	2.5	3.2	--	8.4	0.45
408022	621	926	2.0	40	1.5	2.5	2.5	--	16.8	1.09
408023	618	923	2.0	44	1.0	2.0	2.8	--	15.6	1.00
408024	619	920	2.0	38	1.5	2.0*	2.2	2.0	11.2	1.44
408027	619	929	2.0	48	2.0	3.0	2.5	1.0	26.4*	1.18
408031	618	921	2.0	44*	1.5	2.0*	2.0	2.0	11.1	1.62
408034	618	926	2.5	48	2.0	3.0	2.5	1.0	28.4*	1.70
408035	621	919	2.5	43*	1.5	2.5	2.2	2.0	5.8	0.73
408037	712	929	2.5	58*	1.0	2.0	2.2	1.0	12.2	1.13
408038	618	1001	2.0	62*	2.0	3.0	3.0	1.0	27.8*	1.83*
408040-1	619	918	2.5	54*	2.5	4.0	2.5	2.0	16.8*	2.47
408040-2	619	927	2.0	56	1.0	2.0	2.8	2.5	18.5	1.52
408041	711	926	2.5	56	1.0	2.0	2.2	1.0	12.4	0.93
408042	625	921	2.5	48*	1.0	2.5	2.5	2.0	6.2	0.93
408045	618	921	3.5	52*	2.0*	3.0*	2.5	--	16.9	1.60
408046	629	921	3.5	50	1.5	2.5	2.2	--	13.0	0.73
408047	624	927	2.5	38	1.5	2.0*	2.5	--	21.0	1.20
408049	625	1001	4.0	44	1.5	2.5	2.8	--	22.2	0.91
408053	621	923	5.0	86*	1.5	3.5	2.0	3.0	9.1	1.12
408054	621	920	5.0	88	2.0*	3.5	2.0	2.5	7.7	1.19
408055D	619	923	3.0	42	2.0	3.0	3.2	--	15.2	1.27
408056	725	1001	4.0	50	1.5	2.5	2.8*	2.0	5.7	1.00
408059	703	926	3.0*	63	1.5	2.5	2.5*	3.5	6.4	0.78
408060	618	927	2.5	34	1.0	2.0	2.0	--	20.6*	0.94
408063	630	927	3.5	54*	1.5	2.5	3.0	2.5	6.3	0.62
408066B	618	913	3.0	49*	2.0*	3.0*	2.8	2.0	14.8	1.53
408068C	621	907	1.5	46	2.0*	3.5*	3.0	1.0	15.7	1.91
408076C	618	921	4.5	129	2.0*	3.0*	2.8	1.0	14.9	1.89
408077	701	925	2.5	58	1.5	2.5	2.5	2.5	12.8	1.22
408078	619	917	2.0	40	1.5	2.5	2.2	2.0	11.8	1.66
408079B	618	921	2.5	38	1.5	2.5	2.0	2.0	11.0	1.29*
408080	703	1001	3.5	65	1.5	2.5	2.8	4.0	9.7	1.26
408081	707	922	3.5	62*	1.0	2.0	2.2	2.0	7.7	1.43
408082	627	921	3.5	59*	1.5	2.0*	2.5	2.0	8.3	0.90
408083B	707	1004	4.5	155*	2.0	3.0	3.0	3.0	6.4	0.63
408084A	628	923	3.0*	35	1.5	2.5	2.0	2.5	13.0	1.09*
408084C	617	920	2.0*	28	1.5	3.0	2.8	1.5	16.3	0.92
408086	619	919	3.5	43	2.0	3.0	2.5	--	19.6	1.76
408087	619	918	3.5	46	2.0*	3.0*	2.2	--	13.7	1.75
408088	701	924	5.0	179*	2.0	3.0	2.8	--	6.1	0.82
408091	621	928	4.0	45*	1.5	2.5	2.5	--	14.0	1.14
408093	701	1003	4.5	76	2.0	3.0	2.0	--	7.4	0.80
408094-1	619	917	3.0	54*	2.5	3.0*	2.5	--	14.2	1.74
408094-2	619	920	3.5	63*	2.5	3.5	2.2	--	13.6	1.59
408095C	627	927	3.5	48	1.5	2.5	2.0	--	17.2	1.32



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
408011	V	44.7	16.6	12.0	3.7	23.1	54.7	6.6
408012	V	52.7 <sup>^w</sup>	13.3 <sup>^w</sup>	12.1 <sup>^</sup>	3.9 <sup>^</sup>	19.5 <sup>^</sup>	55.4 <sup>^</sup>	9.0 <sup>^</sup>
408022	V	45.7 <sup>^w</sup>	19.0 <sup>^w</sup>	11.1 <sup>^</sup>	3.0 <sup>^</sup>	17.6 <sup>^</sup>	60.9 <sup>^</sup>	7.4 <sup>^</sup>
408023	V	47.6 <sup>^w</sup>	17.6 <sup>^w</sup>	11.0 <sup>^</sup>	2.9 <sup>^</sup>	18.3 <sup>^</sup>	59.9 <sup>^</sup>	7.9 <sup>^</sup>
408024	V	46.1	17.0	12.8	3.3	21.3	55.7	6.9
408027	V	46.4 <sup>w</sup>	18.9 <sup>w</sup>	12.0	2.8	27.0	51.2	7.0
408031	V	43.1	17.6	13.0	3.5	21.5	55.4	6.6
408034	V	46.5 <sup>^w</sup>	18.6 <sup>^w</sup>	12.2 <sup>^</sup>	2.6 <sup>^</sup>	26.3 <sup>^</sup>	51.1 <sup>^</sup>	7.8 <sup>^</sup>
408035	V	48.2	13.8	13.1	3.6	19.3	57.3	6.8
408037	V	48.7 <sup>w</sup>	16.1 <sup>w</sup>	11.0	3.1	20.4	57.4	8.1
408038	V	46.4 <sup>w</sup>	19.1 <sup>w</sup>	11.8	2.7	30.4	48.3	6.9
408040-1	V	46.8	17.1	12.5	3.7	20.4	56.4	6.9
408040-2	V	47.4	16.6	12.0	3.2	20.5	57.6	6.8
408041	V	47.8 <sup>w</sup>	16.1 <sup>w</sup>	11.4	2.9	17.7	58.8	9.2
408042	V	47.2	14.4	13.5	3.6	18.3	56.6	8.0
408045	V	44.2 <sup>w</sup>	17.5 <sup>w</sup>	11.5	2.7	27.1	51.9	6.9
408046	V	48.4 <sup>w</sup>	15.0 <sup>w</sup>	11.7	3.1	16.0	59.8	9.3
408047	V	45.7 <sup>w</sup>	18.2 <sup>w</sup>	9.4	3.0	18.5	61.7	7.5
408049	V	45.5 <sup>w</sup>	18.1 <sup>w</sup>	10.5	3.0	27.8	52.1	6.6
408053	V	43.9 <sup>w</sup>	19.0 <sup>w</sup>	11.0	3.8	21.0	57.4	6.8
408054	V	43.3 <sup>w</sup>	19.0 <sup>w</sup>	10.3	3.6	25.4	54.7	6.0
408055D	V	45.9 <sup>w</sup>	18.4 <sup>w</sup>	11.0	3.4	17.9	60.9	6.9
408056	V	53.1	12.1	12.2	4.5	19.5	56.9	7.0
408059	V	52.1	13.4	13.0	3.8	19.3	55.8	8.0
408060	V	44.5 <sup>w</sup>	19.1 <sup>w</sup>	9.9	2.9	25.0	55.3	6.9
408063	V	55.7	10.3	13.1	4.1	16.5	57.9	8.4
408066B	V	45.4 <sup>w</sup>	18.1 <sup>w</sup>	10.8	3.3	18.1	59.3	8.4
408068C	V	43.5	19.2	13.6	3.4	27.2	49.8	5.8
408076C	V	46.0 <sup>w</sup>	18.0 <sup>w</sup>	10.5	3.6	24.2	55.5	6.1
408077	V	43.5 <sup>w</sup>	17.6 <sup>w</sup>	10.9	3.6	18.0	59.3	8.3
408078	V	45.9	17.4	12.3	3.2	21.3	55.9	7.3
408079B	V	45.4	17.6	12.6	3.2	20.9	56.5	6.9
408080	V	44.4 <sup>w</sup>	18.2 <sup>w</sup>	12.9	3.6	27.1	50.6	5.9
408081	V	50.2	14.0	12.7	3.7	22.5	54.0	7.1
408082	V	50.5 <sup>w</sup>	17.6 <sup>w</sup>	12.2	3.7	29.0	49.3	5.8
408083B	VI	49.9	14.3	14.3	4.4	19.0	54.5	7.7
408084A	V	43.9 <sup>w</sup>	19.0 <sup>w</sup>	11.9	2.8	19.5	58.2	7.6
408084C	V	45.8 <sup>w</sup>	19.0 <sup>w</sup>	10.8	3.2	16.0	62.3	7.6
408086	V	43.4 <sup>w</sup>	19.2 <sup>w</sup>	9.7	3.1	20.7	59.2	7.3
408087	V	46.9 <sup>w</sup>	17.7 <sup>w</sup>	11.4	2.9	20.4	58.4	7.0
408088	V	45.7 <sup>w</sup>	13.8 <sup>w</sup>	12.5	3.5	13.7	59.9	10.3
408091	V	49.2 <sup>w</sup>	16.1 <sup>w</sup>	11.4	3.7	24.8	53.3	6.8
408093	V	47.6 <sup>w</sup>	15.8 <sup>w</sup>	12.8	3.0	23.1	53.5	7.5
408094-1	V	45.4 <sup>w</sup>	19.3 <sup>w</sup>	12.5	2.6	26.5	52.2	6.2
408094-2	V	43.8 <sup>w</sup>	19.2 <sup>w</sup>	11.1	3.5	17.6	61.0	6.8
408095C	V	43.5 <sup>w</sup>	18.9 <sup>w</sup>	9.7	3.1	19.0	59.7	8.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
408096		Kyongsang Puk	South Korea	South Korea	1976	V
408098		Kyongsang Puk	South Korea	South Korea	1976	V
408099		Kyongsang Puk	South Korea	South Korea	1976	V
408100A		Kyongsang Puk	South Korea	South Korea	1976	V
408102		Kyongsang Puk	South Korea	South Korea	1976	V
408104		Kyongsang Puk	South Korea	South Korea	1976	V
408106		Kyongsang Puk	South Korea	South Korea	1976	V
408107		Kyongsang Puk	South Korea	South Korea	1976	V
408110B		Kyongsang Puk	South Korea	South Korea	1976	V
408112		Kyongsang Puk	South Korea	South Korea	1976	V
408113		Kyongsang Puk	South Korea	South Korea	1976	V
408115		Kyongsang Puk	South Korea	South Korea	1976	V
408117		Kyongsang Puk	South Korea	South Korea	1976	V
408118		Kyongsang Puk	South Korea	South Korea	1976	V
408120		Kyongsang Puk	South Korea	South Korea	1976	V
408121		Kyongsang Puk	South Korea	South Korea	1976	V
408122		Kyongsang Puk	South Korea	South Korea	1976	V
408123		Kyongsang Puk	South Korea	South Korea	1976	V
408127		Kyongsang Puk	South Korea	South Korea	1976	V
408129		Kyongsang Puk	South Korea	South Korea	1976	V
408134B		Kyongsang Puk	South Korea	South Korea	1976	V
408134C		Kyongsang Puk	South Korea	South Korea	1976	V
408139		Kyongsang Puk	South Korea	South Korea	1976	V
408141		Kyongsang Puk	South Korea	South Korea	1976	V
408142		Kyongsang Puk	South Korea	South Korea	1976	V
408143		Kyongsang Puk	South Korea	South Korea	1976	V
408144		Kyongsang Puk	South Korea	South Korea	1976	V
408145		Kyongsang Puk	South Korea	South Korea	1976	V
408146		Kyongsang Puk	South Korea	South Korea	1976	V
408147		Kyongsang Puk	South Korea	South Korea	1976	V
408148		Kyongsang Puk	South Korea	South Korea	1976	V
408149		Kyongsang Puk	South Korea	South Korea	1976	V
408150		Kyongsang Puk	South Korea	South Korea	1976	V
408151		Kyongsang Puk	South Korea	South Korea	1976	V
408152		Kyongsang Puk	South Korea	South Korea	1976	V
408153		Kyongsang Puk	South Korea	South Korea	1976	V
408154		Kyongsang Puk	South Korea	South Korea	1976	V
408155		Kyongsang Puk	South Korea	South Korea	1976	V
408156		Kyongsang Puk	South Korea	South Korea	1976	V
408157		Kyongsang Puk	South Korea	South Korea	1976	V
408158		Kyongsang Puk	South Korea	South Korea	1976	V
408159		Kyongsang Puk	South Korea	South Korea	1976	V
408160		Kyongsang Puk	South Korea	South Korea	1976	V
408161		Kyongsang Puk	South Korea	South Korea	1976	V
408162		Kyongsang Puk	South Korea	South Korea	1976	V
408163		Kyongsang Puk	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
408096	V	N	W	T	Sa	N	Br	D	Gn	Br	Gnc	2N
408098	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
408099	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
408100A	V	D	P	G	E	Ssp	Tn	D	Y	Y	Def	3N
408102	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Net	3N
408104	V	D	P	G	E	N	Tn	D	Gn	Lbf	Gnc	2N
408106	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	1N
408107	V	N	P	Lt	E	N	Bl	I	Br	Br		4F
408110B	V	D	P	G	A	Ssp	Br	I	Gn	Bf	Gnc	2N
408112	V	D	P	T	E	Ssp	Br	D	Bl	Bl	Snet	2N
408113	V	D	P	G	A	N	Br	D	Gn	Bf	Gnc	3N
408115	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	4N
408117	V	D	P	T	Sa	N	Tn	I	Bl	Bl		2N
408118	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
408120	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
408121	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
408122	V	D	P	T	Sa	Ssp	Br	D	Gn	Brbl	Gnc, Vhil	3N
408123	V	N	P	T	E	N	Br	I	Bl	Bl		3N
408127	V	D	W	G	Sa	N	Tn	D	Y	Bf	Vhil	3N
408129	V	D	P	T	E	Ssp	Br	D	Bl	Bl		3N
408134B	V	D	P	T	A	Ssp	Dbr	I	Gn	Gn	Gnc	3N
408134C	V	D	P	T	A	Ssp	Br	D	Gn	Brbl	Gnc, Vhil	2N
408139	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		2N
408141	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
408142	V	D	P	T	E	Ssp	Br	D	Gn	Br	Gnc, Sdef	2N
408143	V	D	P	T	E	Ssp	Br	D	Gn	Br	Gnc, Sdef	3N
408144	V	D	P	T	Sa	Ssp	Br	D	Gn	Gn	Gnc, Vhil	2N
408145	V	D	P	G	A	Ssp	Tn	I	Y	Y	Vhil	2N
408146	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
408147	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
408148	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
408149	V	D	P	T	E	Ssp	Br	I	Br	Br	St	1N
408150	V	N	P	G	E	N	Dbr	D	Gn	Bf	Gnc	2N
408151	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	1N
408152	V	D	P	T	E	Ssp	Br	D	Gn	Gn	Gnc	2N
408153	V	D	P	T	A	Ssp	Br	D	Gn	Gn	Gnc, Vhil	2N
408154	V	D	P	T	E	Ssp	Br	I	G	G		2N
408155	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
408156	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
408157	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		2N
408158	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
408159	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Net	3N
408160	V	D	P	G	Sa	N	Tn	I	Y	Y		1N
408161	V	D	P	T	Sa	Ssp	Br	I	Ggn	G	Snet	2N
408162	V	D	P	T	E	Ssp	Br	D	Bl	Bl	Net	3N
408163	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
408096	627	925	5.0	118*	3.5	4.5	2.8	2.0	11.1	0.68
408098	621	925	2.5	58*	1.5	2.5	2.2	--	18.3	1.31
408099	621	925	3.0	50	2.0	3.0	2.5	--	20.7	1.36
408100A	622	910	2.0	45	2.0*	2.5*	3.5	2.0	18.0	2.24
408102	619	925	2.0	32	1.0	2.0	2.2	--	19.5*	0.87
408104	627	1001	2.5	65	1.0	1.5	3.0	2.0	13.8	1.12
408106	623	925	3.5	42	1.5	2.5	1.8	--	6.3	0.89
408107	713	929	5.0	180*	1.0	2.5	2.8	--	6.0	0.71
408110B	621	919	3.0	52	1.5	2.5	2.8	1.5	10.2	1.02
408112	625	925	3.0	58*	2.0*	3.5	2.2	--	16.5	1.98
408113	705	921	3.0	69	2.5*	4.5	2.0	2.0	8.5	1.46
408115	619	923	2.5	48	1.0	1.5	2.8	--	18.0*	1.02
408117	629	923	2.0	45	1.5	2.5	2.0	--	6.6	1.16
408118	619	918	2.5	50	1.5	2.5	2.8	--	17.1	1.68
408120	621	919	2.5	45	2.5	4.0	2.5	--	19.8*	1.82
408121	627	925*	3.0	36*	1.5	2.5	2.8	--	24.2*	1.47
408122	618	919	2.0	43	2.5	3.5	3.5^	2.5	17.6*	1.63
408123	621	929	5.0	154*	2.0	2.5	2.5^	--	9.0	1.12
408127	618	921	2.0	42	1.5	2.5	2.2	1.0	9.6	1.46
408129	621	923	2.0	51	1.5	3.0	3.0^	--	20.5*	1.34
408134B	618	916	1.5	40*	2.0*	4.0*	2.0^	2.0^	7.4	0.89
408134C	626	915	2.5	61*	2.0*	3.5*	2.5	2.0	8.2	1.35
408139	619	1001	2.0	48	2.5	3.5	3.0	1.0	27.5*	1.46
408141	629	926	4.0	58	2.5	4.0	2.0	--	8.3	1.11
408142	621	927	2.5	55*	2.5	3.5	3.0	1.5	16.7	1.28
408143	621	925	3.0*	56	1.5	2.5	3.0	1.5	15.5	1.24
408144	621	914	1.5	45*	1.5	3.0*	3.0	2.0	16.8	1.40
408145	618	919	2.5	53*	1.5	2.5	2.8	2.0	9.0	1.23
408146	618	925	2.0	55*	1.5	2.5	2.2	1.0	9.6	1.93*
408147	618	924	2.0	52*	2.0	3.0	2.5	1.0	10.0	1.98
408148	618	924	3.0*	50*	2.5	3.5	2.8	1.0	10.0	1.56
408149	707	927	3.5	48	1.0	2.0	2.0	--	9.6	0.78
408150	625	928	5.0	140	3.0	4.0	3.2	2.0	11.7	1.17
408151	619	921	2.5	43*	1.5	2.5	2.0	--	6.3	1.03
408152	619	923	3.0	67	2.5	3.5	2.8	1.0	16.9	1.69
408153	621	917	1.5	48	2.0*	3.0*	3.0	1.0	16.7	1.60
408154	623	927	2.5	48	1.0	1.5	2.5	2.5	17.0	0.96
408155	623	918	3.5	49*	1.5	2.5	2.0	1.5	6.6	2.15
408156	619	923	2.5	54*	1.5	2.5	3.0	1.0	9.8	2.11
408157	621	923	2.5	53*	1.5	2.5	2.2	2.0	7.6	1.64*
408158	618	926	2.5	52*	1.5	2.5	2.8	1.0	9.8	2.07
408159	621	923	2.0	40	1.5	2.5	2.0	--	17.5	1.49
408160	618	917	3.0	44	2.0*	3.5	2.2	1.0	6.8	1.79
408161	625	921	2.5	52	1.5	2.5	3.0	2.0	20.3	1.46
408162	625	922	3.0	44	3.0*	4.0*	2.8	--	18.4	1.50
408163	618	921	2.5	48*	1.0	1.5	2.5	--	17.0*	1.14

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
408096	V	49.2 <sup>w</sup>	16.7 <sup>w</sup>	11.1	2.6	19.6	59.4	7.3
408098	V	41.9 <sup>w</sup>	21.7 <sup>w</sup>	9.9	2.8	22.9	58.6	5.9
408099	V	44.3 <sup>w</sup>	19.5 <sup>w</sup>	10.8	2.9	19.1	60.2	7.0
408100A	V	43.8	20.1	12.0	3.7	19.9	57.5	6.9
408102	V	46.7 <sup>w</sup>	19.0 <sup>w</sup>	10.1	2.6	23.2	57.1	7.0
408104	V	45.7 <sup>w</sup>	17.3 <sup>w</sup>	11.7	3.3	22.8	54.5	7.6
408106	V	48.2 <sup>w</sup>	14.1 <sup>w</sup>	12.2	3.4	19.4	57.1	7.8
408107	V	44.0 <sup>w</sup>	14.3 <sup>w</sup>	11.9	3.3	15.2	59.6	9.9
408110B	V	44.0 <sup>w</sup>	19.5 <sup>w</sup>	10.9	3.3	25.6	54.0	6.1
408112	V	44.7 <sup>w</sup>	17.6 <sup>w</sup>	11.2	3.3	17.9	59.6	8.0
408113	V	47.0 <sup>w</sup>	16.8 <sup>w</sup>	12.7	3.1	16.3	59.7	8.3
408115	V	48.4 <sup>w</sup>	17.3 <sup>w</sup>	10.9	2.4	16.6	61.4	8.6
408117	V	49.3 <sup>w</sup>	15.1 <sup>w</sup>	11.8	2.9	21.5	56.4	7.5
408118	V	46.1 <sup>w</sup>	17.7 <sup>w</sup>	10.1	2.9	16.4	61.4	9.2
408120	V	47.0 <sup>w</sup>	18.3 <sup>w</sup>	10.3	2.8	20.8	58.7	7.3
408121	V	46.7 <sup>w</sup>	18.2 <sup>w</sup>	10.8	2.9	20.0	59.3	7.1
408122	V	43.2 <sup>w</sup>	20.3 <sup>w</sup>	10.8	3.1	18.8	61.0	6.3
408123	V	47.3 <sup>^w</sup>	15.3 <sup>^w</sup>	10.9 <sup>^</sup>	4.7 <sup>^</sup>	44.0 <sup>^</sup>	36.0 <sup>^</sup>	4.3 <sup>^</sup>
408127	V	48.1	15.6	13.0	3.5	17.8	57.8	7.9
408129	V	47.5 <sup>w</sup>	17.0 <sup>w</sup>	11.7	2.2	27.0	53.3	5.8
408134B	V	43.5 <sup>w</sup>	15.7 <sup>w</sup>	10.8	3.0	14.8	62.2	9.2
408134C	V	46.0 <sup>w</sup>	18.4 <sup>w</sup>	11.2	2.8	18.6	60.4	7.0
408139	V	44.1 <sup>w</sup>	19.0 <sup>w</sup>	12.0	2.4	32.8	46.7	6.1
408141	V	44.0 <sup>w</sup>	15.6 <sup>w</sup>	11.3	3.0	17.3	59.4	8.9
408142	V	47.4 <sup>w</sup>	17.7 <sup>w</sup>	11.2	3.3	22.2	56.6	6.7
408143	V	47.5 <sup>w</sup>	17.4 <sup>w</sup>	10.8	3.0	21.5	57.3	7.4
408144	V	46.6 <sup>w</sup>	19.3 <sup>w</sup>	10.4	2.9	20.0	59.5	7.2
408145	V	45.7	15.7	13.0	4.1	16.9	58.2	7.8
408146	V	43.0	16.7	13.0	4.0	19.5	56.3	7.2
408147	V	43.4	16.3	12.7	3.8	16.7	59.2	7.7
408148	V	43.6	16.5	12.7	3.8	17.8	58.4	7.3
408149	V	50.2 <sup>w</sup>	15.6 <sup>w</sup>	11.1	2.7	21.3	57.6	7.4
408150	V	46.8 <sup>w</sup>	19.2 <sup>w</sup>	9.8	3.2	28.8	52.3	5.9
408151	V	48.3 <sup>w</sup>	15.3 <sup>w</sup>	12.2	3.4	17.9	58.4	8.2
408152	V	45.8 <sup>w</sup>	17.9 <sup>w</sup>	11.0	3.2	20.8	57.6	7.3
408153	V	45.6 <sup>w</sup>	18.9 <sup>w</sup>	10.4	2.8	21.6	58.5	6.7
408154	V	46.4 <sup>w</sup>	18.9 <sup>w</sup>	9.6	3.2	21.0	58.6	7.6
408155	V	46.2	17.6	12.6	3.4	22.8	55.1	6.1
408156	V	42.9	17.3	12.4	4.0	15.6	60.0	8.1
408157	V	43.5	17.5	11.9	3.5	23.9	54.3	6.4
408158	V	43.2	17.0	12.6	4.0	16.5	59.0	8.0
408159	V	49.6 <sup>w</sup>	16.1 <sup>w</sup>	12.7	3.3	15.7	60.8	7.5
408160	V	48.2	17.3	12.7	3.5	20.0	57.6	6.1
408161	V	45.9 <sup>w</sup>	19.4 <sup>w</sup>	10.8	3.3	20.9	57.9	7.1
408162	V	47.6 <sup>w</sup>	17.8 <sup>w</sup>	11.5	2.8	21.5	56.9	7.3
408163	V	43.7 <sup>w</sup>	19.5 <sup>w</sup>	10.3	3.1	19.7	60.1	6.8

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
408164		Kyongsang Puk	South Korea	South Korea	1976	V
408165		Kyongsang Puk	South Korea	South Korea	1976	V
408166C		Kyongsang Puk	South Korea	South Korea	1976	V
408167A		Kyongsang Puk	South Korea	South Korea	1976	V
408167B		Kyongsang Puk	South Korea	South Korea	1976	V
408167C		Kyongsang Puk	South Korea	South Korea	1976	V
408168		Kyongsang Puk	South Korea	South Korea	1976	V
408176		Kyongsang Puk	South Korea	South Korea	1976	V
408177		Kyongsang Puk	South Korea	South Korea	1976	V
408180-1		Kyongsang Puk	South Korea	South Korea	1976	V
408180-2		Kyongsang Puk	South Korea	South Korea	1976	V
408181B		Kyongsang Puk	South Korea	South Korea	1976	V
408181C		Kyongsang Puk	South Korea	South Korea	1976	V
408182		Kyongsang Puk	South Korea	South Korea	1976	V
408183		Kyongsang Puk	South Korea	South Korea	1976	V
408185		Kyongsang Puk	South Korea	South Korea	1976	V
408186A		Kyongsang Puk	South Korea	South Korea	1976	V
408186C		Kyongsang Puk	South Korea	South Korea	1976	V
408188		Kyongsang Puk	South Korea	South Korea	1976	V
408190		Kyongsang Puk	South Korea	South Korea	1976	V
408191A		Kyongsang Puk	South Korea	South Korea	1976	V
408192-1		Kyongsang Puk	South Korea	South Korea	1976	V
408192-2		Kyongsang Puk	South Korea	South Korea	1976	V
408195		Kyongsang Puk	South Korea	South Korea	1976	V
408200B		Kyongsang Nam	South Korea	South Korea	1976	V
408202		Kyongsang Nam	South Korea	South Korea	1976	V
408204		Kyongsang Nam	South Korea	South Korea	1976	V
408205		Kyongsang Nam	South Korea	South Korea	1976	V
408206-1		Kyongsang Nam	South Korea	South Korea	1976	V
408206-2		Kyongsang Nam	South Korea	South Korea	1976	V
408207-1		Kyongsang Nam	South Korea	South Korea	1976	V
408207-2		Kyongsang Nam	South Korea	South Korea	1976	V
408208		Kyongsang Nam	South Korea	South Korea	1976	V
408213		Kyongsang Nam	South Korea	South Korea	1976	V
408215B		Kyongsang Nam	South Korea	South Korea	1976	V
408218		Kyongsang Nam	South Korea	South Korea	1976	V
408219		Kyongsang Nam	South Korea	South Korea	1976	V
408220		Kyongsang Nam	South Korea	South Korea	1976	VI
408221C		Kyongsang Nam	South Korea	South Korea	1976	V
408223		Kyongsang Nam	South Korea	South Korea	1976	V
408226B		Kyongsang Nam	South Korea	South Korea	1976	V
408228A		Kyongsang Nam	South Korea	South Korea	1976	V
408229B		Kyongsang Nam	South Korea	South Korea	1976	V
408238-1		Kyongsang Nam	South Korea	South Korea	1976	V
408238-2		Kyongsang Nam	South Korea	South Korea	1976	V
408239		Kyongsang Nam	South Korea	South Korea	1976	V

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
408164	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2N
408165	V	D	P	T	A	Ssp	Br	D	Gn	Gn	Gnc	1N
408166C	V	D	W	G	E	N	Bl	D	Y	Bf	Sdef	2N
408167A	V	D	W	G	Sa	N	Tn	D	Y	Bf	Sdef	3N
408167B	V	D	W	G	E	N	Bl	I	Y	Bf	Sdef	3N
408167C	V	D	P	G	E	N	Bl	I	Y	Bf		2N
408168	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc, Sdef	2N
408176	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
408177	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2F
408180-1	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Gnc	2N
408180-2	V	D	P	G	E	Ssp	Br	I	Gn	Ib	Gnc, Vhil	1N
408181B	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
408181C	V	D	P	G	E	Ssp	Br	I	Y	Y		2N
408182	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	1N
408183	V	D	P	G	A	N	Bl	I	Gn	Ib	Gnc, Vhil	1N
408185	V	D	W	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	2N
408186A	V	D	W	G	E	N	Tn	D	Y	Y		2N
408186C	V	D	W	G	A	Ssp	Tn	I	Y	Bf		2N
408188	V	D	P	T	E	Ssp	Br	I	Bl	Bl		2F
408190	V	D	P	Lt	Sa	Ssp	Bl	I	Gn	Brbl	Gnc, Vhil	2N
408191A	V	D	P	G	E	N	Bl	D	Gn	Bf	Gnc	2N
408192-1	V	D	P	G	E	Ssp	Br	D	Gn	Bf	Gnc	2N
408192-2	V	N	P	G	E	N	Br	D	Gn	Gn	Gnc	1N
408195	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
408200B	V	D	P	G	A	Ssp	Br	D	Y	Bf		3N
408202	V	D	P	G	E	Ssp	Bl	D	Gn	Lbf	Gnc	2N
408204	V	D	P	G	A	N	Br	I	Gn	Bf	Gnc	3N
408205	V	D	W	T	Sa	Ssp	Br	I	Ggn	Bl	Gnc	3N
408206-1	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408206-2	V	D	P	G	A	N	Lbr	I	Gn	Bf	Vhil	2N
408207-1	V	D	W	G	Sa	Ssp	Tn	I	Y	Bf	Sdef	2N
408207-2	V	D	W	T	Sa	Ssp	Br	I	Y	Br		3F
408208	V	D	P	G	Sa	Ssp	Br	D	Gn	Gn	Gnc, Vhil	2N
408213	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
408215B	V	D	P	G	E	Ssp	Br	I	Y	Y	Def	2N
408218	V	D	W	T	Sa	N	Dbr	I	Gn	Brbl	Vhil	1N
408219	V	D	W	G	Sa	Ssp	Br	D	Y	Bf		3N
408220	VI	N	P	T	Sa	N	Br	D	Bl	Bl		4N
408221C	V	D	P	T	A	Ssp	Br	I	Y	Tn		2N
408223	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Snet	2N
408226B	V	D	W	T	A	Ssp	Br	D	Y	Tn		3N
408228A	V	D	P	T	Sa	Ssp	Br	D	Y	Y		2N
408229B	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	2N
408238-1	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
408238-2	V	N	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
408239	V	D	P	G	A	N	Br	I	Gn	Bf		2N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
408164	619	918	2.5	50	2.0	3.0	2.8*	--	12.1*	1.78
408165	618	911	1.5	48*	2.0*	3.0*	2.8	1.0	8.0	1.36
408166C	625	913	3.5	82	2.0*	3.5	3.5	1.5	16.0	1.87
408167A	623	911	3.5	58*	1.5	4.0*	3.5	1.0	16.2	1.97
408167B	625	913	3.0	75	1.5	4.5	3.5	2.5	16.8	2.24
408167C	625	913	3.0	82	1.5	3.5*	3.5	2.5	14.4	2.45
408168	619	921	2.5	66	1.5	2.5	3.2	1.0	16.5	2.19
408176	621	921	3.5	55	1.5	3.0	2.5	--	16.9	2.34*
408177	623	921	2.5	44	2.0*	3.5	2.5	--	21.1	1.83
408180-1	630	923	2.5	58*	1.5	2.5	2.8	2.0	10.6	1.03
408180-2	701	1001	2.5	65	1.0	1.5	2.5	1.0	10.2	0.68
408181B	618	919	2.5	44	1.5	2.5	3.5	2.0	20.8	1.68
408181C	618	921	2.0	50	1.5	1.5	3.2	1.5	19.4	1.70
408182	624	926	3.5	45	2.0*	3.0*	1.8	--	6.8	0.73
408183	719	1001	3.5	59*	1.0	1.5	2.5	1.5	7.6	0.95
408185	627	1001	3.0*	63	1.5	2.0*	2.2	--	16.8	1.17
408186A	618	922	3.0*	46*	1.5	2.5	2.2	1.5	11.2	1.84
408186C	619	914	2.5	58*	1.5	3.0*	3.0	1.0	13.8	2.28
408188	619	927	2.5	58*	1.5	2.0*	2.5	--	16.0	1.84
408190	705	927	3.5	59*	2.0	2.5	2.5	2.5	7.4	0.97
408191A	621	923	3.0	50	1.5	2.5	3.0	1.0	14.8	1.70
408192-1	618	920	3.0	57	1.5	3.0*	3.0	1.0	19.4	2.16
408192-2	618	923	4.5	145	1.5	3.0*	2.5	1.0	11.0	1.34
408195	625	1003	2.5	68*	1.5	2.5	2.2	--	10.8	1.14
408200B	621	921	2.5	52	2.5	3.5	2.5	2.0	10.0	1.33
408202	624	925	2.5	72*	1.5	2.0*	2.8	2.0	15.6	1.41
408204	705	928	3.5	68*	2.0*	3.5	2.5	2.0	8.9	1.40
408205	623	916	2.0	55*	2.0*	3.5	3.0	2.5	9.2	1.62
408206-1	618	919	1.5	37	1.5	3.0	2.5	2.0	11.0	1.35
408206-2	627	928	3.5	62	2.0*	3.0*	3.0	1.0	19.4	1.57
408207-1	619	921	2.0	56	1.0	2.0	3.0	1.0	13.0	2.16
408207-2	707	927	3.0	70	2.5	3.5	2.5	4.0	8.6	1.19
408208	619	920	2.5	51*	1.5	2.5	2.5	1.0	13.6	1.55
408213	621	920	2.5	45	1.0	2.5	2.8	--	22.2	1.68
408215B	618	929	1.5	47	2.0	3.0	3.2	2.0	25.4*	1.83
408218	701	926	4.5	50	3.0*	4.0*	2.2	3.0	6.6	0.82
408219	625	927	2.0	69*	2.5	3.0*	2.5	1.5	13.2	1.59
408220	625	1004	4.5	161*	2.0	3.0	3.0	--	19.0	0.87
408221C	627	925	3.5	58*	2.0	3.0	3.2	3.0	13.0	1.11
408223	621	915	3.0	50*	1.5	2.0*	2.8	--	9.9	1.01
408226B	616	921	2.0	58	1.5	2.5	3.2	2.0	19.4	2.05
408228A	619	927	3.0	61	2.0	3.0	2.5	4.0	16.4	1.81
408229B	619	921	3.0	57	1.0	2.0	2.2	--	16.0	1.24
408238-1	621	924	3.0	53	1.5	2.0	2.5	--	18.3	1.10
408238-2	627	1001	4.5	170*	1.5	2.5	2.5	--	13.6	1.28
408239	625	927	2.5	69*	1.5	2.5	3.0	1.0	22.4*	2.11*



Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
408164	V	45.2 <sup>w</sup>	17.6 <sup>w</sup>	10.9	2.9	23.9	55.4	6.8
408165	V	44.4 <sup>w</sup>	17.8 <sup>w</sup>	11.7	3.1	22.4	55.9	6.8
408166C	V	43.5	20.0	11.5	3.1	25.1	54.4	5.9
408167A	V	43.0	20.9	10.1	3.7	19.8	59.4	7.0
408167B	V	44.0	20.4	11.0	3.0	31.9	49.2	4.9
408167C	V	44.5	19.2	10.8	3.1	26.6	54.2	5.3
408168	V	42.5 <sup>w</sup>	19.0 <sup>w</sup>	11.3	3.3	21.7	56.2	7.5
408176	V	45.4 <sup>w</sup>	18.7 <sup>w</sup>	11.3	3.3	23.9	55.4	6.1
408177	V	45.8 <sup>w</sup>	17.6 <sup>w</sup>	10.4	3.7	21.7	56.5	7.7
408180-1	V	47.3 <sup>w</sup>	15.3 <sup>w</sup>	11.0	3.9	27.9	51.0	6.3
408180-2	V	47.9 <sup>w</sup>	17.7 <sup>w</sup>	11.2	3.7	26.8	53.0	5.3
408181B	V	43.5	18.0	12.6	3.3	16.1	59.5	8.4
408181C	V	45.2	17.7	12.9	3.2	18.3	58.3	7.3
408182	V	48.3 <sup>w</sup>	15.5 <sup>w</sup>	12.1	3.5	21.4	55.2	7.7
408183	V	49.1 <sup>w</sup>	14.8 <sup>w</sup>	11.8	3.8	18.6	57.6	8.2
408185	V	48.5 <sup>w</sup>	16.9 <sup>w</sup>	11.1	3.2	23.0	55.7	6.9
408186A	V	45.6	17.0	12.3	3.2	20.1	56.8	7.5
408186C	V	46.6	18.4	11.4	3.8	22.4	56.3	6.2
408188	V	45.4 <sup>w</sup>	18.4 <sup>w</sup>	10.6	3.3	19.7	59.2	7.3
408190	V	46.0 <sup>w</sup>	16.4 <sup>w</sup>	11.6	3.2	19.7	57.7	7.8
408191A	V	45.9 <sup>w</sup>	20.0 <sup>w</sup>	10.1	3.2	22.8	57.5	6.4
408192-1	V	42.7 <sup>w</sup>	20.9 <sup>w</sup>	10.3	3.4	19.3	60.5	6.5
408192-2	V	46.9 <sup>w</sup>	18.8 <sup>w</sup>	10.4	3.5	22.1	58.1	5.9
408195	V	49.0 <sup>w</sup>	15.5 <sup>w</sup>	12.4	3.4	17.2	59.4	7.5
408200B	V	41.7	18.8	11.2	4.0	17.0	59.9	7.9
408202	V	47.5 <sup>w</sup>	19.4 <sup>w</sup>	10.9	2.9	22.3	57.7	6.3
408204	V	49.1 <sup>w</sup>	16.3 <sup>w</sup>	12.6	2.8	20.1	56.8	7.7
408205	V	47.5 <sup>w</sup>	17.9 <sup>w</sup>	11.1	3.3	16.1	61.3	8.1
408206-1	V	44.6	17.9	12.0	3.2	17.3	59.5	8.0
408206-2	V	46.5 <sup>w</sup>	18.3 <sup>w</sup>	11.9	3.1	24.5	53.9	6.7
408207-1	V	45.3	16.6	13.5	3.4	15.2	59.8	8.1
408207-2	V	46.3 <sup>w</sup>	15.4 <sup>w</sup>	12.2	3.0	20.5	57.1	7.1
408208	V	45.1 <sup>w</sup>	18.2 <sup>w</sup>	10.8	3.4	20.1	58.9	6.8
408213	V	44.4 <sup>w</sup>	18.8 <sup>w</sup>	9.4	3.2	24.6	56.7	6.1
408215B	V	43.9	17.3	11.1	3.0	22.8	56.4	6.8
408218	V	49.1 <sup>w</sup>	16.0 <sup>w</sup>	11.6	3.3	25.1	54.0	6.0
408219	V	45.8	16.8	12.5	3.4	21.5	55.6	6.9
408220	VI	48.4 <sup>w</sup>	16.9 <sup>w</sup>	11.5	3.6	25.4	53.7	5.8
408221C	V	48.8 <sup>w</sup>	16.9 <sup>w</sup>	12.0	2.8	21.2	56.2	7.8
408223	V	48.2 <sup>w</sup>	16.9 <sup>w</sup>	11.3	3.3	19.7	57.3	8.3
408226B	V	44.5	18.0	12.7	3.2	19.9	58.0	6.2
408228A	V	46.4 <sup>w</sup>	18.6 <sup>w</sup>	11.7	3.3	22.5	55.9	6.5
408229B	V	44.1 <sup>w</sup>	17.7 <sup>w</sup>	11.6	2.9	19.7	58.0	7.8
408238-1	V	47.7 <sup>w</sup>	18.8 <sup>w</sup>	11.0	2.8	23.7	56.3	6.2
408238-2	V	48.4 <sup>w</sup>	17.7 <sup>w</sup>	11.8	3.4	23.2	55.5	6.2
408239	V	46.2 <sup>w</sup>	19.4 <sup>w</sup>	12.1	3.1	24.8	53.2	6.7

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
408242		Kyongsang Nam	South Korea	South Korea	1976	V
408243		Kyongsang Nam	South Korea	South Korea	1976	V
408244		Kyongsang Nam	South Korea	South Korea	1976	V
408246-1		Kyongsang Nam	South Korea	South Korea	1976	V
408246-2		Kyongsang Nam	South Korea	South Korea	1976	V
408247		Kyongsang Nam	South Korea	South Korea	1976	V
408250		Kyongsang Nam	South Korea	South Korea	1976	V
408251		Kyongsang Nam	South Korea	South Korea	1976	V
408252		Kyongsang Nam	South Korea	South Korea	1976	V
408267		Kyongsang Nam	South Korea	South Korea	1976	V
408268		Kyongsang Nam	South Korea	South Korea	1976	V
408270C		Kyongsang Nam	South Korea	South Korea	1976	V
408274		Kyongsang Nam	South Korea	South Korea	1976	V
408278		Kyongsang Nam	South Korea	South Korea	1976	V
408279		Kyongsang Nam	South Korea	South Korea	1976	V
408282		Kyongsang Nam	South Korea	South Korea	1976	V
408283		Kyongsang Nam	South Korea	South Korea	1976	V
408285C		Kyongsang Nam	South Korea	South Korea	1976	V
408286		Kyongsang Nam	South Korea	South Korea	1976	V
408293-2		Kyongsang Nam	South Korea	South Korea	1976	V
408294B		Kyongsang Nam	South Korea	South Korea	1976	V
408303		Kyongsang Nam	South Korea	South Korea	1976	V
408304		Kyongsang Nam	South Korea	South Korea	1976	V
408305		Kyongsang Nam	South Korea	South Korea	1976	V
408307B		Kyongsang Nam	South Korea	South Korea	1976	V
408308A		Kyongsang Nam	South Korea	South Korea	1976	V
408308B		Kyongsang Nam	South Korea	South Korea	1976	V
408311-2		Kyongsang Nam	South Korea	South Korea	1976	V
408313		Kyongsang Nam	South Korea	South Korea	1976	V
408317		Kyongsang Nam	South Korea	South Korea	1976	V
408322		Kyongsang Nam	South Korea	South Korea	1976	V
408323		Kyongsang Nam	South Korea	South Korea	1976	V
408324		Kyongsang Nam	South Korea	South Korea	1976	V
408325		Kyongsang Nam	South Korea	South Korea	1976	V
408326		Kyongsang Nam	South Korea	South Korea	1976	V
408327B		Kyongsang Nam	South Korea	South Korea	1976	V
408328		Kyongsang Nam	South Korea	South Korea	1976	V
408330		Kyongsang Nam	South Korea	South Korea	1976	V
408331		Kyongsang Nam	South Korea	South Korea	1976	V
408332C		Kyongsang Nam	South Korea	South Korea	1976	V
408336		Kyongsang Nam	South Korea	South Korea	1976	V
408337		Cheju	South Korea	South Korea	1976	V
408339		Cheju	South Korea	South Korea	1976	V
408343		Cheju	South Korea	South Korea	1976	V
408344		Cheju	South Korea	South Korea	1976	V
408345		Cheju	South Korea	South Korea	1976	VI

Table 2.1. Descriptive data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
408242	V	D	P	G	A	N	Br	I	Gn	Bf	Sdef	2N
408243	V	D	P	T	A	Ssp	Bl	D	Gn	Br	Gnc	3N
408244	V	D	P	T	E	Ssp	Br	B	Bl	Bl		2N
408246-1	V	D	W	T	E	N	Br	I	Gn	Brbl	Vhil	2N
408246-2	V	D	W	T	Sa	Ssp	Br	D	Y	Bl		3N
408247	V	D	W	T	A	Ssp	Br	D	Y	Bl		3N
408250	V	D	P	G	E	N	Tn	I	Y	Y		2N
408251	V	N	P	T	E	Ssp	Br	I	Bl	Bl		3N
408252	V	D	W	G	E	N	Tn	I	Y	Y		2N
408267	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Net	4N
408268	V	D	P	T	Sa	Ssp	Br	I	Y	Brbl	Vhil	3N
408270C	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
408274	V	N	P	T	E	Ssp	Br	D	Bl	Bl		3N
408278	V	D	P	G	A	N	Br	I	Gn	Bf		2N
408279	V	D	P	G	A	N	Br	I	Gn	Bf		2N
408282	V	D	P	T	Sa	Ssp	Br	I	G	G		2N
408283	V	D	P	T	Sa	Ssp	Br	I	Ggn	G		2N
408285C	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
408286	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Snet	3N
408293-2	V	D	W	T	E	Ssp	Br	I	Gn	Bl		2N
408294B	V	D	P	G	A	Ssp	Br	D	Gn	Bf	Gnc	2N
408303	V	D	P	G	A	N	Br	I	Gn	Bf		2N
408304	V	N	P	T	Sa	Ssp	Br	I	Gn	Br	Gnc	2N
408305	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
408307B	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
408308A	V	D	P	T	E	Ssp	Bl	I	Rbr	Rbr	Snet	2N
408308B	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
408311-2	V	D	W	T	A	Ssp	Tn	D	Y	Br		3N
408313	V	D	P	Lt	Sa	N	Br	I	Bl	Bl		2N
408317	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
408322	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Snet	2N
408323	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
408324	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
408325	V	D	P	T	Sa	Ssp	Br	I	Br	Br	St	2N
408326	V	D	P	Lt	A	Sp	Br	I	Rbr	Rbr	Net	3N
408327B	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
408328	V	D	P	G	A	Ssp	Br	D	Gn	Lbf	Gnc, Vhil	2N
408330	V	D	P	T	A	N	Tn	I	Bl	Bl		1N
408331	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Snet	2N
408332C	V	D	P	T	A	Sp	Br	I	Bl	Bl	Snet	3N
408336	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
408337	V	D	W	T	E	N	Tn	I	Y	Br		1N
408339	V	D	W	T	E	N	Tn	I	Y	Br		2N
408343	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
408344	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	2N
408345	VI	N	P	T	E	Ssp	Br	I	Y	Br		5N

Table 3.1 Agronomic data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
408242	625	927	2.5	68	1.5	2.5	3.0	1.5	19.2	1.63
408243	711	925	3.5	67*	1.5	3.0	2.2	2.0	9.1	1.09
408244	621	925	3.0	56	1.5	2.5	2.5	--	17.6	1.55
408246-1	703	926	2.0	59*	2.0*	3.5	2.2	3.0	7.0	0.79
408246-2	625	917	4.0	56	2.0*	3.5	2.8	3.5	9.0	1.68
408247	625	917	3.5	55	2.0*	4.0	2.8	3.5	9.0	1.87
408250	619	917	3.0	54*	2.0*	3.5	2.0	1.0	6.4	2.06
408251	619	920	4.5	106	3.0*	5.0	1.8	--	6.1	1.22
408252	621	917	2.0	46	1.5	2.0*	2.5	2.5	10.9	1.40
408267	619	920	2.0	43	1.5	3.0	3.0	--	21.2	2.92*
408268	618	925	2.5	60*	2.5	3.5	2.8	1.0	8.0	1.28
408270C	619	917	2.0	45	1.0	2.5	2.2	2.0	12.0	1.62
408274	621	921	5.0	141*	1.5	4.0	1.8	--	9.4	1.36
408278	623	925	3.0	66*	1.5	2.5	3.2	1.0	20.3	1.69
408279	627	925	3.0	68*	1.5	2.5	3.2	1.0	19.7	1.72
408282	623	926	3.0	50*	1.0	2.0	2.5 <sup>^</sup>	3.0 <sup>^</sup>	17.2	1.31
408283	621	927	2.0	40	1.0	1.5	2.5	3.5	16.2	0.69
408285C	619	923	2.0	38	1.0	2.0	2.8	--	18.4	1.19
408286	619	919	2.0	43	2.0	3.0	2.5	--	15.8	1.91
408293-2	629	923	2.0	52*	1.5	2.5	2.0	2.5	7.6	1.24
408294B	701	917	3.0	52*	2.0*	3.0*	2.2	2.0	9.7	1.85
408303	627	926	2.5	61*	2.0	2.5	3.2	1.0	21.0	1.72
408304	619	923	5.0	168	3.5	5.0	2.2	1.5	11.0	1.00
408305	619	917	2.0	34*	1.0	2.0	1.8	1.5	11.0	1.27
408307B	625	911	2.5	61	1.5	2.5	2.8	--	15.6	2.44
408308A	625	911	2.5	63	2.0*	3.0*	2.0	--	13.8	2.44
408308B	623	912	2.0	66	2.0*	2.0*	2.2	--	15.2	2.42
408311-2	618	915	1.0	38*	2.0	4.0	2.5*	2.0	11.2	1.49
408313	624	927	2.5	41	1.0	2.0	2.8	--	22.9	0.85
408317	621	921	2.0	43	1.5	2.5	2.0	2.0	11.1	1.56
408322	623	925	2.0	41	1.0	2.0	2.8	--	17.1*	1.03
408323	621	924	2.5	53	1.5	3.0	2.8	--	20.8	1.82
408324	627	924	3.0	52*	2.0*	3.5	2.5	--	15.8	1.11
408325	623	929	4.0	46	2.5	3.5	2.2	--	16.8	1.34
408326	617	927	2.0	32	1.5	2.0	2.2	--	19.2*	1.03
408327B	618	927	2.5	56	2.5	3.5	2.5	1.0	27.8*	1.73
408328	619	922	2.5	58*	2.5	3.5	2.0	1.0	16.6	1.64
408330	703	924	2.0	43	1.5	2.5	2.0	--	6.2	0.69
408331	621	919	3.0	48*	2.5*	3.5*	3.0	--	17.8	2.13
408332C	625	1001	3.5	50	1.5	2.5	2.8	--	16.9	1.19*
408336	619	925	3.0	60	2.5	3.5	3.0	1.5	13.0	1.94
408337	626	911	1.5	82	1.0	1.5	2.5*	1.5	11.1	2.96
408339	626	911	2.0*	74	1.0	1.5	2.8*	1.5	11.0	3.08*
408343	621	925	2.0	45	1.5	2.5	2.2	--	20.9	1.46
408344	621	924	2.0	43	1.0	1.5	2.2	--	21.4	1.38
408345	718	1009*	5.0	175*	1.5	3.0	3.8	3.0	7.5	0.68

Table 4.1. Seed composition data for USDA soybean germplasm in maturity group V, FC 30265 to PI 408345, grown at Stoneville, MS in 1999 and 2001.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
408242	V	46.2 <sup>w</sup>	18.5 <sup>w</sup>	12.3	3.0	22.9	54.7	7.1
408243	V	46.5 <sup>w</sup>	15.7 <sup>w</sup>	12.4	3.0	17.7	58.1	8.9
408244	V	44.7 <sup>w</sup>	19.5 <sup>w</sup>	11.1	3.0	19.8	59.6	6.4
408246-1	V	50.0 <sup>w</sup>	14.8 <sup>w</sup>	11.2	3.6	20.0	58.4	6.9
408246-2	V	48.5 <sup>w</sup>	18.1 <sup>w</sup>	11.2	3.6	38.4	42.2	4.5
408247	V	48.0 <sup>w</sup>	17.1 <sup>w</sup>	11.3	3.5	31.0	49.2	5.0
408250	V	46.6	17.5	12.8	3.4	21.3	56.8	5.7
408251	V	50.4 <sup>w</sup>	14.7 <sup>w</sup>	12.7	3.4	23.1	54.1	6.6
408252	V	45.2	19.2	12.8	3.3	24.4	53.8	5.7
408267	V	44.5 <sup>w</sup>	19.8 <sup>w</sup>	10.2	2.7	21.5	59.0	6.6
408268	V	46.6 <sup>w</sup>	14.6 <sup>w</sup>	12.9	3.5	19.2	56.2	8.2
408270C	V	45.0	17.9	12.7	3.4	19.5	57.5	6.9
408274	V	46.4 <sup>w</sup>	18.0 <sup>w</sup>	11.6	3.4	25.6	52.3	7.2
408278	V	46.9 <sup>w</sup>	18.9 <sup>w</sup>	11.9	2.8	24.1	54.3	7.0
408279	V	47.3 <sup>w</sup>	19.2 <sup>w</sup>	12.1	3.1	20.2	57.3	7.3
408282	V	45.3 <sup>w</sup>	18.7 <sup>w</sup>	10.6	2.7	24.2	55.2	7.3
408283	V	45.2 <sup>w</sup>	19.4 <sup>w</sup>	10.6	3.2	21.0	57.3	7.9
408285C	V	44.1 <sup>w</sup>	18.6 <sup>w</sup>	10.9	2.7	18.6	59.5	8.3
408286	V	45.0 <sup>w</sup>	18.6 <sup>w</sup>	10.0	2.9	19.7	59.7	7.7
408293-2	V	48.2 <sup>w</sup>	16.1 <sup>w</sup>	10.3	3.4	19.1	60.0	7.2
408294B	V	46.3 <sup>w</sup>	16.0 <sup>w</sup>	12.9	3.1	14.4	60.9	8.7
408303	V	45.8 <sup>w</sup>	18.8 <sup>w</sup>	11.8	2.8	21.5	56.8	7.1
408304	V	46.9 <sup>w</sup>	19.2 <sup>w</sup>	9.8	2.7	23.5	57.5	6.5
408305	V	45.0	18.0	13.0	3.3	19.4	56.5	7.2
408307B	V	45.6 <sup>w</sup>	19.7 <sup>w</sup>	11.6	2.6	25.1	55.7	5.1
408308A	V	46.1 <sup>w</sup>	20.1 <sup>w</sup>	11.8	3.0	19.5	59.5	6.2
408308B	V	46.6 <sup>w</sup>	20.4 <sup>w</sup>	12.2	2.7	22.6	56.5	5.9
408311-2	V	43.0	18.6	13.1	4.0	16.7	59.2	7.0
408313	V	48.8 <sup>w</sup>	18.1 <sup>w</sup>	11.4	2.5	22.2	57.3	6.6
408317	V	45.2	17.7	12.7	3.2	18.5	58.5	7.0
408322	V	49.1 <sup>w</sup>	17.9 <sup>w</sup>	12.4	3.0	15.9	59.7	8.9
408323	V	44.8 <sup>w</sup>	20.3 <sup>w</sup>	11.8	2.3	21.7	57.0	7.2
408324	V	47.7 <sup>w</sup>	20.3 <sup>w</sup>	10.9	3.1	24.4	56.1	5.5
408325	V	49.9 <sup>w</sup>	17.0 <sup>w</sup>	12.2	2.9	22.9	55.3	6.7
408326	V	46.9 <sup>w</sup>	19.1 <sup>w</sup>	10.5	2.7	24.1	56.2	6.5
408327B	V	45.1 <sup>w</sup>	20.1 <sup>w</sup>	11.8	2.4	34.1	45.4	6.3
408328	V	46.9 <sup>w</sup>	19.1 <sup>w</sup>	10.8	3.6	17.7	60.5	7.5
408330	V	48.2 <sup>w</sup>	14.6 <sup>w</sup>	12.7	3.2	24.3	53.2	6.5
408331	V	46.9 <sup>w</sup>	17.2 <sup>w</sup>	10.8	2.7	18.7	59.2	8.6
408332C	V	44.7 <sup>w</sup>	17.7 <sup>w</sup>	11.7	3.0	22.8	55.8	6.7
408336	V	48.1 <sup>w</sup>	17.3 <sup>w</sup>	12.2	3.2	15.2	61.1	8.5
408337	V	41.5	21.1	12.6	3.2	22.0	56.0	6.2
408339	V	41.3	20.5	12.7	3.2	21.8	56.0	6.3
408343	V	46.8 <sup>w</sup>	18.8 <sup>w</sup>	9.8	2.9	19.1	61.0	7.2
408344	V	47.8 <sup>w</sup>	18.7 <sup>w</sup>	9.7	2.9	18.2	61.9	7.3
408345	VI	45.9 <sup>w</sup>	16.9 <sup>w</sup>	11.4	4.0	19.4	56.1	9.1

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
	Accomac	Virginia	United States	United States	1997	V
	Benning	Georgia	United States	United States	1996	VII
	Camp	Virginia	United States	United States	1989	V
	Caviness	Arkansas	United States	United States	2000	V
	Clifford	North Carolina	United States	United States	1997	V
	Crowley	Arkansas	United States	United States	1991	V
	Delsoy 4900	Missouri	United States	United States	1989	IV
	Delsoy 5500	Missouri	United States	United States	1996	V
	Delsoy 5710	Missouri	United States	United States	1999	V
	Desha	Arkansas	United States	United States	2000	VI
	Dillon	South Carolina	United States	United States	1994	VI
	Graham	North Carolina	United States	United States	1996	V
	Hutcheson	Virginia	United States	United States	1987	V
	KS4694	Kansas	United States	United States	1993	IV
	KS5292	Kansas	United States	United States	1992	V
	Lonoke	Arkansas	United States	United States	2003	V
	Manokin	Maryland	United States	United States	1991	IV
	Nathan	Tennessee	United States	United States	1980	V
	Pace	Mississippi	United States	United States	1996	V
	Prolina	North Carolina	United States	United States	1997	VI
	Rhodes	Missouri	United States	United States	1990	V
	TN 6-90	Tennessee	United States	United States	1993	VI
	TN 4-94	Tennessee	United States	United States	1997	IV
	TN 5-95	Tennessee	United States	United States	1999	V
	UARK-5896	Arkansas	United States	United States	2000	V
416758	Akagara	Tohoku	Japan	Japan	1977	V
416759	Akagara (2)	Tohoku	Japan	Japan	1977	V
416765	Akasaya	Tohoku	Japan	Japan	1977	V
416768	Akasaya (Nagano)	Hokuriku	Japan	Japan	1977	V
416771	Akasome daizu (Korea)	unknown	Korea	Korea	1977	V
416783	AN B(B)	Tohoku	Japan	Japan	1977	VI
416785	Anchuumu ripaamukon	Tohoku	Japan	Japan	1977	V
416788	Ao batsu	Tohoku	Japan	Japan	1977	V
416792	Ao daizu	Tohoku	Japan	Japan	1977	V
416793	Aogari daizu karikeil	Tohoku	Japan	Japan	1977	V
416795	Aohada	Kanto	Japan	Japan	1977	V
416797	Aojiro	Tohoku	Japan	Japan	1977	V
416799	Aokawa daizu	Kinki	Japan	Japan	1977	V
416800	Ao kotsubu	Tohoku	Japan	Japan	1977	V
416803	Ao shouryuu	Tohoku	Japan	Japan	1977	V
416804	Ao tsuru no tomo	Tohoku	Japan	Japan	1977	VI
416807	Aze daizu	Kyushu	Japan	Japan	1977	V
416808	B(B)4001	Tohoku	Japan	Japan	1977	V
416811	Bansei animame	Tohoku	Japan	Japan	1977	V
416814	Bansei shi mame	Tohoku	Japan	Japan	1977	V
416815	Bansei tokishirazu	Tohoku	Japan	Japan	1977	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
Accomac	V	D	P	T	Sa	N	Tn	I	Y	Bl		2N
Benning	VII	D	P	T	A	N	Tn	I	Y	Br		2N
Camp	V	D	P	G	Sa	Ssp	Tn	I	Y	Y	Na	2N
Caviness	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
Clifford	V	D	P	T	E	N	Tn	I	Y	Br		2N
Crowley	V	N	W	G	Sa	N	Tn	D	Y	Bf		2N
Delsoy 4900	IV	D	P	T	E	N	Tn	D	Y	Lbr		2N
Delsoy 5500	V	D	W	T	E	N	Tn	D	Y	Br		2N
Delsoy 5710	V	D	W	T	Sa	N	Tn	I	Y	Bl		3N
Desha	VI	D	W	G	A	N	Tn	D	Y	Lbf		3N
Dillon	VI	D	P	G	A	N	Tn	I	Y	Bf		2N
Graham	V	D	P	G	E	N	Br	D	Y	Lbf		2N
Hutcheson	V	D	W	G	Sa	N	Tn	D	Y	Bf		2N
KS4694	IV	N	W	G	E	Sdn	Br	I	Y	Bf		3N
KS5292	V	D	W	G	E	N	Tn	D	Y	Bf	Vhil	2N
Lonoke	V	D	W	G	Sa	N	Tn	I	Y	Bf		3N
Manokin	IV	D	W	T	E	N	Tn	I	Y	Bl		3N
Nathan	V	D	W	T	E	N	Tn	S	Y	Bl		2N
Pace	V	D	W	G	Sa	N	Tn	I	Y	Bf		2N
Prolina	VI	D	P	G	E	N	Tn	I	Y	Ib	Vhil	3N
Rhodes	V	D	W	T	Sa	N	Tn	I	Y	Brbl	Vhil	2N
TN 4-94	IV	N	P	G	E	N	Br	I	Y	Bf		3N
TN 5-95	V	D	P	T	Sa	N	Br	S	Y	Bl		3N
TN 6-90	VI	D	W	T	E	N	Tn	I	Y	Bl		2N
UARK-5896	V	D	P	T	Sa	N	Tn	D	Y	Br		3N
416758	V	D	P	G	A	N	Br	I	Y	Lbf	Sdef	3N
416759	V	D	W	T	A	N	Br	D	Y	Lbr	Sdef	2N
416765	V	D	P	T	Sa	Ssp	Br	I	Y	Lbr	Sdef	3N
416768	V	D	W	T	Sa	N	Tn	D	Y	Br		3N
416771	V	D	P	T	Sa	Ssp	Tn	I	Rbr	Rbr		2N
416783	VI	N	W	T	E	Ssp	Br	I	Y	Y		3N
416785	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
416788	V	D	P	T	A	Ssp	Br	D	Gn	Gn	Gnc	3N
416792	V	D	P	G	Sa	Ssp	Br	D	Y	Dbf		3N
416793	V	D	P	T	Sa	Ssp	Tn	S	Y	Brbl		3N
416795	V	D	P	G	E	Ssp	Br	I	Gn	Gn		3N
416797	V	D	W	G	E	Ssp	Bl	I	Gn	Bf		2N
416799	V	N	P	T	Sa	Ssp	Br	S	Gn	Br		4N
416800	V	D	P	T	A	Ssp	Tn	I	Y	Br		3N
416803	V	D	P	T	E	N	Br	I	Gn	Brbl	Gnc, Vhil	3N
416804	VI	D	P	T	E	Ssp	Br	I	Gn	Br		3N
416807	V	D	W	T	Sa	N	Tn	I	Y	Bl		3N
416808	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Gnc, Snet	3N
416811	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
416814	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
416815	V	D	P	G	A	Ssp	Br	I	Y	Y		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
Accomac	629	925	2.0	95	1.0	1.5	2.2	1.0	12.4	3.66
Benning	707	1104*	4.0	86*	1.5	2.5	3.8	2.0	12.8	1.60
Camp	708^	926^	2.0^	53^	2.0^	2.0^	3.0^	2.0^	7.0^	1.96^
Caviness	629	925^	2.0	89	1.0	1.5	2.8	1.0	14.6	4.26*
Clifford	628	923	2.0	66*	1.0	1.0	2.5	1.0	14.5	4.21
Crowley	707	929	2.5	109	1.0	1.0	3.2	1.0	13.2	2.93
Delsoy 4900	627	822*	2.0	85	1.0	1.0	2.8	1.0	15.0	3.60
Delsoy 5500	629	923	1.5	83	1.0	1.5	2.2	1.0	14.2	3.72
Delsoy 5710	701	930*	3.0	100	1.0	1.0	2.3	2.0	11.3	3.04*
Desha	629	924	2.5	90	1.0	2.5	2.8	1.0	13.8	3.05
Dillon	708	1003	3.0	95*	1.5	2.0*	2.8	2.0	13.0	3.22
Graham	701	923	2.0	82	1.0	2.0	2.2	1.0	12.2	3.56
Hutcheson	710^	924^	2.0^	80^	1.0^	1.0^	2.5^	1.0^	10.7^	3.54^
KS4694	617	822*	2.0	86	1.0	1.5	2.0	1.0	15.0	4.16
KS5292	624	921	2.5	68	1.5	2.5	3.0	1.0	12.6	3.40
Lonoke	629	1002	3.0	99	1.5	2.5	3.0	1.5	11.5	3.20
Manokin	627	919	2.0	82	1.0	1.0	2.8	1.0	12.4	3.92
Nathan	702	825*	3.0	96*	1.0	2.0	3.0	1.0	12.4	3.35
Pace	703	925*	4.0	82*	1.0	1.0	2.8	1.0	11.9	3.20
Prolina	711	1001	3.5	121*	1.5	2.0*	2.8	1.5	12.5	2.35
Rhodes	701	924^	3.0	95	1.0	1.5	2.2	1.0	13.5	3.26
TN 4-94	619	827*	3.0	118	1.5	2.5	2.2	1.0	13.4	3.93*
TN 5-95	629	918	2.0	83	1.0	1.5	2.0	1.0	12.2	3.87
TN 6-90	709	1021*	3.5	102	1.5	2.5	3.8	2.0*	12.2	1.88
UARK-5896	703	1001*	3.0	90*	1.0	1.5	2.8	1.0	12.9	3.46
416758	702	927	2.0^	41	1.5	2.5	3.0	1.5	16.9	1.29
416759	709	917	3.0	80*	2.5	3.5	3.8	1.0	14.9	1.66
416765	625	922	2.0	48*	2.5	3.5	3.5	1.5	24.0	1.10
416768	626	924	2.5	52	1.5	2.0*	3.5	1.0	15.0	1.15
416771	623	824*	3.0*	36	2.5	3.0*	2.0	--	6.8	1.83*
416783	703	1004	2.5*	123*	2.5	3.5	4.3	2.0	13.2	0.66
416785	623	917	2.0	26	2.0	2.5	2.5	--	19.7	1.18
416788	629	923	2.0	74	1.5	2.0*	3.5	1.0	22.9*	1.77
416792	630	1001	3.0	52*	2.5	3.0*	3.3	1.0	21.4	1.48*
416793	710	918	2.0	78	2.5	4.0*	2.0	1.0	8.6	1.92*
416795	623	926	2.0	54	2.0	2.5	2.8	1.0	19.7	1.38*
416797	624	925	3.5*	43	2.5	3.0*	2.3	3.5	16.3	2.06*
416799	623	828*	3.0*	122*	3.0	4.5	2.5	1.0	12.6	2.04*
416800	621	919	3.0	45	2.5	3.5	2.8	1.0	12.5	1.88
416803	624	929	2.5	56	2.0	3.0*	3.3	3.0	13.3	1.26
416804	625	1009	3.0	56*	2.0	3.0	3.3	5.0	19.2	1.25
416807	705	830*	3.0	53	2.0	2.5	3.5	1.0	6.6	0.87*
416808	619	921	1.0	39	2.0	4.0^	2.5	--	23.4	0.53
416811	625	925	2.5	83*	2.5	3.5	3.3	1.0	20.3	1.88
416814	624	927	3.0	55	2.5	3.5	3.5	1.0	23.2*	1.70
416815	627	921	2.0	70*	2.5	3.5	3.3	1.0	21.9	2.74



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Accomac	V	42.5	21.6	12.6	3.5	28.2	51.5	4.2
Benning	VII	43.8 <sup>w</sup>	18.3 <sup>w</sup>	12.8	4.0	16.5	59.4	7.4
Camp	V	42.4 <sup>^</sup>	18.7 <sup>^</sup>	12.6 <sup>^</sup>	3.6 <sup>^</sup>	18.9 <sup>^</sup>	58.2 <sup>^</sup>	6.7 <sup>^</sup>
Caviness	V	41.2	19.0	12.7	3.7	24.9	53.5	5.2
Clifford	V	40.5	20.1	13.7	3.8	20.0	56.4	6.2
Crowley	V	42.2	18.4	12.8	3.4	24.1	53.8	6.0
Delsoy 4900	IV	42.7	20.2	12.1	3.6	31.6	48.7	3.9
Delsoy 5500	V	42.3	20.6	13.1	3.4	23.1	55.2	5.2
Delsoy 5710	V	41.7	18.9	13.2	3.1	23.8	53.9	6.0
Desha	VI	41.8	19.9	12.6	3.6	23.2	55.2	5.4
Dillon	VI	41.8	19.6	12.8	3.0	21.4	56.6	6.2
Graham	V	40.0	21.0	12.7	3.2	23.2	55.8	5.1
Hutcheson	V	41.3 <sup>^</sup>	20.9 <sup>^</sup>	13.9 <sup>^</sup>	3.5 <sup>^</sup>	21.1 <sup>^</sup>	55.5 <sup>^</sup>	6.1 <sup>^</sup>
KS4694	IV	39.3	21.0	12.6	3.0	22.4	56.4	5.5
KS5292	V	42.6	19.7	13.1	3.8	27.6	50.9	4.6
Lonoke	V	42.7	20.0	13.2	3.7	22.8	54.9	5.3
Manokin	IV	42.2	21.0	12.8	4.2	24.5	53.4	5.0
Nathan	V	42.3	19.3	12.8	3.5	28.0	51.5	4.2
Pace	V	45.5	19.2	14.1	3.0	22.4	54.6	5.9
Prolina	VI	46.9	19.2	13.8	3.4	23.8	53.8	5.2
Rhodes	V	42.5	20.3	12.5	2.9	25.5	54.3	4.9
TN 4-94	IV	40.8	20.8	11.5	3.6	32.0	48.5	4.4
TN 5-95	V	42.4	18.8	13.9	3.2	22.6	54.2	6.0
TN 6-90	VI	44.8 <sup>w</sup>	19.8 <sup>w</sup>	13.3	3.6	21.9	54.7	6.6
UARK-5896	V	41.7	20.9	13.4	3.5	23.5	54.2	5.3
416758	V	47.5	18.3	13.6	3.0	22.2	55.4	5.9
416759	V	44.4	18.9	13.4	2.9	26.3	52.2	5.3
416765	V	45.3	18.9	13.4	3.0	24.2	54.0	5.4
416768	V	43.5	19.5	13.1	3.1	24.1	53.4	6.3
416771	V	46.1 <sup>w</sup>	16.2 <sup>w</sup>	12.6	3.9	18.1	58.9	6.5
416783	VI	48.1	15.1	12.7	3.1	33.9	45.5	4.7
416785	V	48.0 <sup>w</sup>	17.9 <sup>w</sup>	13.5	3.6	19.9	56.1	6.9
416788	V	45.1 <sup>w</sup>	18.1 <sup>w</sup>	13.4	3.3	23.7	53.6	6.0
416792	V	44.5	19.5	11.8	3.0	26.8	52.8	5.5
416793	V	48.2	17.4	14.7	3.0	18.8	57.3	6.2
416795	V	45.4 <sup>w</sup>	19.0 <sup>w</sup>	11.6	3.2	25.6	53.8	5.7
416797	V	41.9 <sup>w</sup>	19.5 <sup>w</sup>	12.0	2.8	21.9	57.0	6.3
416799	V	44.8 <sup>w</sup>	19.5 <sup>w</sup>	13.8	3.8	28.8	47.9	5.6
416800	V	41.5	20.3	13.3	3.2	26.3	51.6	5.5
416803	V	47.1 <sup>w</sup>	17.2 <sup>w</sup>	13.1	3.1	26.9	50.4	6.5
416804	VI	45.6 <sup>w</sup>	18.9 <sup>w</sup>	12.0	3.5	28.2	50.8	5.5
416807	V	49.1 <sup>w</sup>	15.5 <sup>w</sup>	14.0	3.8	28.5	48.8	5.0
416808	V	46.6 <sup>w</sup>	20.6 <sup>w</sup>	12.2	3.3	24.9	54.1	5.4
416811	V	39.9	19.2	14.0	3.1	24.4	53.2	5.4
416814	V	41.7	20.1	13.2	3.0	22.3	55.5	6.0
416815	V	43.0	19.9	13.1	3.0	24.9	53.6	5.4

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
416820	Cha daizu	Tohoku	Japan	Japan	1977	V
416821	Cha mame (Nou)	Tohoku	Japan	Japan	1977	V
416827	Cha shouryuu	Tohoku	Japan	Japan	1977	V
416838	Choutan	Tohoku	Japan	Japan	1977	V
416843	Chuusei daizu	Tohoku	Japan	Japan	1977	V
416844	Chuusei daizu	Shikoku	Japan	Japan	1977	V
416847	Chuuseishu	Hokuriku	Japan	Japan	1977	V
416849	Daido mame	Kanto	Japan	Japan	1977	V
416850	Daidou mame	Tohoku	Japan	Japan	1977	V
416851	Daiga daizu	Tohoku	Japan	Japan	1977	V
416860	Dekisugi	Kanto	Japan	Japan	1977	V
416861	Dikushii	Tohoku	Japan	Japan	1977	V
416871	Furiodoshi	Tohoku	Japan	Japan	1977	V
416899	Haihaku daizu	Kanto	Japan	Japan	1977	V
416901	Hai neko	Kanto	Japan	Japan	1977	V
416908	Hanawa zairai	Tohoku	Japan	Japan	1977	V
416909	Hanjiro	Kanto	Japan	Japan	1977	V
416927	Hitashi mame (Shiro)	Kanto	Japan	Japan	1977	VI
416931	Hokkai mame	Tohoku	Japan	Japan	1977	V
416938	Houkichi	Kanto	Japan	Japan	1977	V
416944	Ibaragi 17	Tohoku	Japan	Japan	1977	V
416957	Itachikara	Tohoku	Japan	Japan	1977	V
416960	Iyo daizu	Kyushu	Japan	Japan	1977	V
416962	Jakou mame	Tohoku	Japan	Japan	1977	VI
416973	Kairyou azumanishiki	Tohoku	Japan	Japan	1977	V
416977	Kaishoku daizu	Tohoku	Japan	Japan	1977	V
416979	Kakushin 1	Tohoku	Japan	Japan	1977	V
416981	Kamiiwa	Kanto	Japan	Japan	1977	V
416982	Kamiyuzuki zairai	Kanto	Japan	Japan	1977	V
416999	Kantou 48	Kanto	Japan	Japan	1977	V
417000	Kantou 49	Kanto	Japan	Japan	1977	V
417016	Keburi 1	Tohoku	Japan	Japan	1977	V
417026	Kinai tokushima 2	Kyushu	Japan	Japan	1977	V
417031	Kinkazan	Hokuriku	Japan	Japan	1977	VI
417034	Kinoshita 4	Tohoku	Japan	Japan	1977	V
417036	Kinoshita 8	Tohoku	Japan	Japan	1977	V
417037	Kinoshita 8	Tohoku	Japan	Japan	1977	V
417039	Kinoshita (Yamagata)	Tohoku	Japan	Japan	1977	V
417041	Kinshuu ao shouryuu	unknown	Korea	Korea	1977	V
417048	Kobinkatagi	Tohoku	Japan	Japan	1977	V
417052	Kohamashu (Murasaki Bana)	Okinawa/Taiwan	Japan	Japan	1977	V
417053	Kohamashu (Shiro Bana)	Okinawa/Taiwan	Japan	Japan	1977	V
417055	Kokei 2	Tohoku	Japan	Japan	1977	V
417058	Komuta	Kyushu	Japan	Japan	1977	V
417068	Kouhai 2	Tohoku	Japan	Japan	1977	V
417069	Kouji irazu	Kanto	Japan	Japan	1977	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
416820	V	D	W	T	A	Ssp	Br	I	Br	Br		2N
416821	V	D	W	T	A	Ssp	Br	I	Rbr	Rbr	Snet	3N
416827	V	D	P	Lt	Sa	Ssp	Br	I	Br	Br		2N
416838	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
416843	V	D	W	T	A	N	Tn	D	Y	Y		2N
416844	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
416847	V	D	W	T	A	N	Br	I	Y	Br		2N
416849	V	D	P	G	A	N	Tn	I	Y	Y	Sdef	3N
416850	V	D	W	T	A	N	Br	I	Y	Br		1N
416851	V	D	P	G	E	Ssp	Tn	I	Gn	Gn	Gnc	3N
416860	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
416861	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
416871	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
416899	V	D	P	T	E	Ssp	Br	I	Gnbr	Gnbr		3N
416901	V	D	P	G	A	N	Tn	D	Y	Y		3N
416908	V	D	P	T	E	N	Br	S	Y	Lbl	Vhil	4N
416909	V	D	P	G	Sa	Ssp	Br	S	Y	Y		2N
416927	VI	D	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
416931	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
416938	V	D	P	G	A	N	Br	I	Y	Y		2N
416944	V	D	P	T	A	Ssp	Br	I	Y	Br		1N
416957	V	D	P	T	A	Ssp	Bl	D	Gn	Brbl	Gnc, Vhil	3N
416960	V	D	P	T	Sa	Ssp	Br	I	Gn	Gn	Gnc	2N
416962	VI	D	P	T	A	Ssp	Br	I	Gn	Br	Gnc	3N
416973	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
416977	V	D	P	T	Sa	Ssp	Br	I	Br	Br		2N
416979	V	D	P	T	A	Ssp	Br	I	Y	Lbr	Vhil	3N
416981	V	D	P	G	A	N	Br	D	Y	Y		2N
416982	V	D	P	G	A	Ssp	Br	D	Y	Y		2N
416999	V	D	P	-	-	G	Br	I	Y	Y		2N
417000	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
417016	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417026	V	D	P	G	Sa	N	Bl	I	Y	Bf		2N
417031	VI	D	P	G	A	N	Br	D	Y	Y		3N
417034	V	D	W	T	A	Ssp	Br	I	Y	Br		3N
417036	V	D	P	T	A	N	Br	I	Gn	Gn		3N
417037	V	D	P	T	A	Ssp	Br	D	Gn	Gn	Gnc	3N
417039	V	D	P	T	A	Ssp	Br	I	Gn	Bl	Gnc	3N
417041	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
417048	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417052	V	N	P	T	Sa	N	Br	I	Y	Br		3N
417053	V	D	W	T	Sa	Ssp	Br	D	Y	Br		3N
417055	V	D	W	T	A	Ssp	Bl	I	Gn	Br		2N
417058	V	D	P	T	A	Sp	Br	I	Bl	Bl		5N
417068	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
417069	V	D	W	G	A	Ssp	Br	D	Gn	Gn		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
416820	626	923	2.0	59*	2.5	3.0*	2.5	--	20.3*	1.78
416821	624	825*	2.0	49	2.0*	5.0^	2.5	--	27.9	1.15*
416827	627	925^	3.0	77	1.5	3.0	2.3	--	8.8	1.53
416838	625	828*	2.0	48*	1.0	2.0	3.3	1.0	14.1	1.93*
416843	701	822*	3.0	57*	2.5	3.5	3.5	1.0	18.0	2.28*
416844	619	824*	2.0	47	1.5	3.5	2.8	2.0	21.4	1.79*
416847	703	925	3.0	62	1.5	3.0	2.8	1.0	17.1	2.14
416849	705	926	2.0	50	2.0	3.0	2.5	1.0	17.8	1.76
416850	624	825*	2.0	53*	2.0	3.0	3.5	1.0	17.2	1.94
416851	701	930	3.0	73	2.0	3.0	3.0	1.5	10.7	1.88*
416860	623	830*	2.0	49*	2.0	3.5	3.8	1.5	17.5	1.32
416861	623	1001*	2.5	56*	1.5	3.0*	3.5	2.0	13.9	1.05
416871	625	827*	3.0	40	2.0	2.5	2.8	1.5	10.7	2.08*
416899	626	919	3.0	63	1.0	2.5	2.5	--	19.2	1.86
416901	626	930	3.0	61	1.0	2.0	3.5	1.5	13.6	1.57*
416908	624	925	2.0	44	2.5	3.5	4.0^	1.0^	19.1	1.82
416909	621	919	3.0	44	1.5	3.0	2.5^	1.0^	21.0	1.46
416927	623	1007	2.5	69*	1.5	3.0*	3.8*	2.0	18.8	0.82
416931	622	918	2.0	50*	2.5	3.5	3.5	2.0	16.0	1.44
416938	621	908	2.0	55	3.0	4.0	3.8	1.0	14.6	2.19
416944	624	911	1.5	53	2.0	2.5	4.3	1.0	14.9	1.47
416957	701	925	2.5	63*	2.5	3.5	3.0	3.5	17.2	1.54
416960	625	908	1.5	49	1.0	2.0	2.8	1.0	9.5	1.75
416962	703	1008	3.0	64	2.0	3.0	3.3	1.5	18.9	1.69
416973	623	915*	1.5	49*	2.5	3.5	4.0	2.0	15.6	1.78*
416977	625	917	3.0	56	1.0	2.0*	2.5	--	19.5	2.07
416979	626	918	2.5	59	2.5	3.5	3.3	1.0	20.1	1.90*
416981	627	923*	3.0	59	2.0*	3.5*	2.8	1.0	19.9	2.67
416982	622	930	2.0	60	2.5	3.5*	2.8	2.0	26.0	2.38
416999	625	919	2.5	61	2.5	4.0*	2.8	3.0	17.7	2.44
417000	621	911*	2.5	54*	2.0	3.5	3.0	1.0	18.3	2.24*
417016	624	911	2.0	52	2.0*	3.0*	4.0	1.0	15.8	1.73*
417026	621	917	5.0	135	2.5	4.0*	3.3	3.5	11.9	1.79
417031	701	1007	2.5	42*	2.0	3.0^	3.5	2.0*	17.2	0.60
417034	707	919	2.5	67*	2.5	3.0*	2.8	1.5	18.9	1.67*
417036	620	911	3.0	48	2.5	4.0*	3.0	1.0	18.2	1.95*
417037	707	1001	2.5	64*	2.0	2.5	3.0	1.5	16.2	1.77
417039	627	1001	2.5	33	2.0	3.0*	2.5	3.5	17.4	1.28*
417041	629	928	2.0*	48*	2.5	3.5	3.0	2.5	19.7	1.41
417048	627	923	3.0	49	2.5	3.5	3.5	2.0	16.4	1.99*
417052	713	918	3.0*	95*	2.5	4.0*	2.8	2.5	6.7	1.75
417053	711	911	4.5	98	2.5	4.0*	2.8	3.0	7.9	2.50*
417055	629	925	4.0*	52*	2.0	3.5	2.5	3.0	18.1	1.91
417058	705	922	4.0*	215*	2.5	4.0*	3.3	--	9.7	1.66
417068	625	918	3.0*	47*	2.5	4.0*	2.8	2.0	17.0	1.62
417069	619	918	2.5	35	2.5	4.0*	3.5	3.0	25.4	1.00

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
416820	V	43.4 <sup>w</sup>	18.3 <sup>w</sup>	10.6	2.8	26.0	54.2	6.4
416821	V	41.6 <sup>w</sup>	19.6 <sup>w</sup>	11.4	2.9	35.8	44.6	5.3
416827	V	47.9 <sup>w</sup>	13.0 <sup>w</sup>	14.1	3.3	17.4	57.1	8.1
416838	V	42.4	19.9	12.9	2.8	22.2	56.9	5.2
416843	V	42.9	19.1	12.8	2.7	31.1	48.2	5.2
416844	V	42.4	19.4	15.6	2.8	22.9	53.2	5.5
416847	V	43.1	19.1	13.6	3.0	22.6	55.1	5.6
416849	V	46.4	18.1	13.5	2.9	26.1	51.9	5.6
416850	V	42.1	19.0	11.7	2.8	27.3	53.0	5.2
416851	V	47.7 <sup>w</sup>	17.5 <sup>w</sup>	13.6	3.9	20.7	54.8	7.0
416860	V	42.6	19.7	12.6	2.5	28.5	50.7	5.7
416861	V	42.9	19.1	13.1	2.7	29.9	49.2	5.2
416871	V	44.6	19.1	13.1	2.8	20.2	57.8	6.1
416899	V	46.4 <sup>w</sup>	19.0 <sup>w</sup>	12.9	3.4	23.9	53.5	6.3
416901	V	44.4	19.2	13.5	2.8	25.1	53.2	5.4
416908	V	42.9 <sup>^</sup>	20.3 <sup>^</sup>	11.4 <sup>^</sup>	2.2 <sup>^</sup>	40.6 <sup>^</sup>	42.0 <sup>^</sup>	3.7 <sup>^</sup>
416909	V	41.3 <sup>^</sup>	19.5 <sup>^</sup>	13.3 <sup>^</sup>	2.5 <sup>^</sup>	25.8 <sup>^</sup>	53.7 <sup>^</sup>	4.7 <sup>^</sup>
416927	VI	42.7 <sup>w</sup>	20.3 <sup>w</sup>	12.7	3.0	27.9	51.7	4.7
416931	V	42.5	19.3	12.4	2.7	33.1	47.2	4.5
416938	V	44.4 <sup>w</sup>	18.3 <sup>w</sup>	12.8	2.5	27.3	52.2	5.3
416944	V	40.8 <sup>w</sup>	19.7 <sup>w</sup>	11.9	2.5	32.5	47.9	5.1
416957	V	46.5 <sup>w</sup>	19.6 <sup>w</sup>	12.8	3.8	21.2	55.7	6.6
416960	V	45.5 <sup>w</sup>	18.0 <sup>w</sup>	13.2	3.3	18.5	57.1	8.0
416962	VI	46.7 <sup>w</sup>	17.7 <sup>w</sup>	12.7	3.3	21.5	56.5	5.9
416973	V	41.1 <sup>w</sup>	20.2 <sup>w</sup>	12.6	2.6	26.9	52.0	5.8
416977	V	45.5 <sup>w</sup>	18.8 <sup>w</sup>	12.7	3.7	24.4	53.0	6.2
416979	V	46.3	18.1	13.3	3.1	22.9	55.5	5.2
416981	V	41.3	18.8	13.5	3.1	19.4	57.5	6.4
416982	V	43.3	19.9	12.5	3.0	22.9	55.8	5.9
416999	V	43.8	18.0	12.8	2.7	20.9	56.9	6.8
417000	V	42.3	19.6	15.0	2.9	25.1	51.5	5.5
417016	V	41.5 <sup>w</sup>	19.6 <sup>w</sup>	12.6	2.6	30.3	48.9	5.7
417026	V	46.1 <sup>w</sup>	19.5 <sup>w</sup>	13.8	3.5	29.0	48.8	4.8
417031	VI	43.5	18.3	13.5	2.7	23.4	54.3	6.1
417034	V	43.8	18.1	13.7	2.7	21.4	56.1	6.1
417036	V	44.4 <sup>w</sup>	21.2 <sup>w</sup>	11.9	2.9	21.8	57.4	5.9
417037	V	44.6 <sup>w</sup>	17.8 <sup>w</sup>	12.5	2.6	20.8	57.8	6.4
417039	V	47.2 <sup>w</sup>	18.2 <sup>w</sup>	13.2	2.8	20.2	56.9	6.8
417041	V	46.2 <sup>w</sup>	17.5 <sup>w</sup>	11.2	2.9	29.1	50.4	6.5
417048	V	41.6	18.9	12.4	2.4	30.0	49.8	5.4
417052	V	47.3	14.9	13.5	3.2	22.1	54.6	6.6
417053	V	46.4	15.5	13.6	2.9	21.7	54.7	7.0
417055	V	43.7 <sup>w</sup>	18.1 <sup>w</sup>	12.6	3.0	23.1	54.4	6.8
417058	V	45.5 <sup>w</sup>	15.5 <sup>w</sup>	12.7	3.0	24.4	52.1	7.8
417068	V	43.2	19.4	12.8	2.7	25.2	54.1	5.2
417069	V	41.7 <sup>w</sup>	21.7 <sup>w</sup>	11.7	2.7	17.4	60.4	7.8

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
417073	Kounou 1	Tohoku	Japan	Japan	1977	V
417074	Kounou 2	Tohoku	Japan	Japan	1977	V
417081	Kouyou daizu (Korea)	unknown	Korea	Korea	1977	V
417088	Kur churyuu	Tohoku	Japan	Japan	1977	V
417090	Kuro daizu shouryuu	Kanto	Japan	Japan	1977	V
417093	Kuro mame (Nagata)	Kinki	Japan	Japan	1977	V
417098	Kurohira	Tohoku	Japan	Japan	1977	V
417099	Kurokawa date ao	Tohoku	Japan	Japan	1977	VI
417103	Kurometa zaya	Tohoku	Japan	Japan	1977	V
417104	Kurosaya	Kyushu	Japan	Japan	1977	V
417105	Kurosaya 7	Tohoku	Japan	Japan	1977	V
417106	Kurozatou mame	Tohoku	Japan	Japan	1977	V
417108	Kyushirou	Tohoku	Japan	Japan	1977	V
417135B	(Mamyō 50-2)	Kinki	Japan	Japan	1977	V
417141	Masuyama	Kanto	Japan	Japan	1977	V
417156	Miso mame	Tohoku	Japan	Japan	1977	V
417157	Mitsu mame (B)	Tohoku	Japan	Japan	1977	V
417158	Mitsuzaya	Kanto	Japan	Japan	1977	VI
417159	Miyagi shirome	Tohoku	Japan	Japan	1977	V
417165	Moyashi mame	Tohoku	Japan	Japan	1977	V
417166	Mumei	Tohoku	Japan	Japan	1977	V
417169	Murasaki no mi	Tohoku	Japan	Japan	1977	V
417172	N-B	Tohoku	Japan	Japan	1977	V
417193	Nezumi meta	Tohoku	Japan	Japan	1977	V
417205	Ohoibaragi	Kanto	Japan	Japan	1977	V
417209	Okita 1	Tohoku	Japan	Japan	1977	V
417211	Okuyutaka	Hokuriku	Japan	Japan	1977	V
417235	Ouu 3	Tohoku	Japan	Japan	1977	V
417236	Ouu 4	Tohoku	Japan	Japan	1977	V
417237	Ouu 7	Tohoku	Japan	Japan	1977	V
417240	Peing buhai	unknown	Korea	Korea	1977	V
417247	Rikankan	Kanto	Japan	Japan	1977	V
417250	Rikuu 5	Tohoku	Japan	Japan	1977	V
417251	Rikuu 9	Tohoku	Japan	Japan	1977	V
417252	Rikuu 10	Hokuriku	Japan	Japan	1977	VI
417253	Rikuu 16	Tohoku	Japan	Japan	1977	V
417259	Ryuugan	Kanto	Japan	Japan	1977	V
417262	Sakagami 2	Kanto	Japan	Japan	1977	V
417263	Sakyuu ki mame	Tohoku	Japan	Japan	1977	V
417264	Sanbon isshou	Kanto	Japan	Japan	1977	V
417265	Sandan mame	Kanto	Japan	Japan	1977	V
417271	Satou daizu	Tohoku	Japan	Japan	1977	V
417272	Satou irazu	Tohoku	Japan	Japan	1977	V
417273	Sayama 5	Kinki	Japan	Japan	1977	VI
417275	Seian shououtou	Kanto	Japan	Japan	1977	V
417277	Sedaiichi	Tohoku	Japan	Japan	1977	VI

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
417073	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
417074	V	D	W	T	A	Ssp	Br	D	Gn	Br	Vsc	3N
417081	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
417088	V	N	P	T	Sa	Ssp	Br	I	Bl	Bl	Gnc	3F
417090	V	N	P	T	E	N	Tn	I	Bl	Bl		2N
417093	V	N	P	Ng	E	N	Bl	I	Bl	Bl		5F
417098	V	D	W	T	A	Ssp	Bl	D	Gn	Br		3N
417099	VI	D	P	T	Sa	Ssp	Br	I	Bl	Bl		5F
417103	V	D	W	G	A	N	Br	D	Y	Bf		4N
417104	V	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
417105	V	D	P	T	A	Ssp	Br	I	Y	Br		1N
417106	V	D	W	Ng	Sa	N	Bl	I	Bl	Bl	Gnc	1N
417108	V	D	P	Lt	E	Ssp	Br	I	Y	Y		3N
417135B	V	N	P	T	Sa	N	Br	I	Y	Bl		3F
417141	V	D	W	T	Sa	N	Br	I	Y	Br	Sdef	3N
417156	V	D	W	T	E	Ssp	Br	D	Y	Lbr	Vhil	2N
417157	V	D	W	T	A	Ssp	Br	I	Y	Br		3N
417158	VI	D	P	T	A	Ssp	Br	I	Y	Y		2N
417159	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
417165	V	D	P	T	Sa	Ssp	Bl	B	Bl	Bl		3F
417166	V	D	P	T	E	Ssp	Br	I	Gn	Brbl	Gnc	4F
417169	V	D	W	T	A	Ssp	Br	D	Br	Br		1N
417172	V	D	W	T	A	Ssp	Br	I	Y	Br		2N
417193	V	D	P	T	E	Ssp	Tn	I	Bl	Bl		2N
417205	V	D	W	G	A	Ssp	Br	D	Y	Y		2N
417209	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417211	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417235	V	D	P	G	E	Ssp	Br	S	Y	Ib		3N
417236	V	D	P	G	E	Ssp	Bl	I	Y	Y	Vhil	3N
417237	V	D	W	T	A	N	Br	D	Y	Br		2N
417240	V	D	P	G	Sa	N	Tn	D	Y	Y		2N
417247	V	D	P	T	Sa	Ssp	Br	I	Y	Y		2N
417250	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
417251	V	D	P	T	Sa	Ssp	Tn	I	Y	Br		3N
417252	VI	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
417253	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417259	V	D	P	T	Sa	Ssp	Br	S	Y	Bl		4N
417262	V	D	P	T	Sa	Ssp	Br	I	Y	Y		3N
417263	V	D	W	T	Sa	Ssp	Br	I	Y	Br		3N
417264	V	D	P	G	A	Ssp	Br	I	Y	Bf		2N
417265	V	D	W	T	E	N	Bl	I	Bl	Bl		3N
417271	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417272	V	S	P	T	Sa	Ssp	Tn	I	Gn	Bl		5F
417273	VI	D	P	T	A	Ssp	Br	I	Y	Br		3N
417275	V	N	W	G	Va	Sp	Br	S	Y	Bf		4N
417277	VI	D	P	T	Sa	Ssp	Br	I	Gn	Br		5F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
417073	705	928	2.5	67	2.0	2.5	2.8	1.5	20.7	1.34
417074	701	929	3.0	75	1.0	2.0*	3.0	1.0	18.9	1.64
417081	621	913	3.0	57	1.5	3.0*	3.3	1.5	14.1	1.93
417088	623	919	2.0	57	2.5	3.0*	2.5	--	10.9	1.95
417090	701	918	3.0*	118*	1.5	3.0	2.3	--	7.6	1.59
417093	701	919	5.0	220*	2.0	3.5	2.8	--	7.6	2.15
417098	622	917	2.0	54	2.0	3.0	3.5^	4.0^	15.5	1.44
417099	619	1007	2.0	47	1.5	2.0*	3.5	--	28.1*	1.43
417103	706	923	3.0	77*	1.5	3.0	2.8	1.5	10.4	1.99
417104	623	919	2.0	51*	2.0	3.0	2.5	1.5	16.0	2.23*
417105	621	912	2.0	60*	2.0	3.0	3.5	1.5	14.9	2.02*
417106	628	915	2.0	46*	1.5	3.0*	2.5	--	10.7	1.49
417108	629	923	3.0	61	1.0	2.0	3.3*	2.5	18.8	1.39
417135B	708	913	4.0	110	2.0	3.5	3.3	3.0	11.1	1.82
417141	629	1002	2.5	61*	2.0	3.0	3.3*	1.0	15.8	1.16
417156	625	921	2.0	48*	2.5	3.5	2.8	2.0	12.6	1.55
417157	630	919	2.5	60	3.0	4.5	2.8	1.0	17.6	2.28*
417158	630	1004	3.0	56*	2.0	2.5	3.3	2.0	16.2	1.43
417159	619	927	2.0	58	1.5	2.0	3.3	2.0	29.0*	1.86*
417165	630	926	3.0	79*	2.5	4.0*	2.8	--	11.3	2.04
417166	701^	1002^	2.0^	67^	2.0^	3.0^	4.0^	1.0^	20.8^	1.34^
417169	629	925	2.0	61	1.0	2.5	2.3	--	17.0*	2.23
417172	627	923	2.0	68*	2.0	3.5	2.3	2.0	14.2	1.94*
417193	629	913	3.5	51	2.5	3.5	2.3	--	5.6	1.42
417205	627	917	3.0	42	2.0	3.0^	3.3	1.5	30.2	0.44
417209	627	826	2.0	45	2.0	3.0	3.8	2.0*	14.6	1.77*
417211	627	914	2.0	45*	2.0	3.0	3.8	1.5	16.4	1.35*
417235	630	919	2.0	51*	2.0	4.0	2.8	1.0	14.6	1.45*
417236	623	923	2.5	59*	2.0	3.0	2.8	5.0	18.7	1.60*
417237	701	923	3.5	70*	2.0	3.5	3.3	1.0	17.7	1.47
417240	629	908	2.5	56*	2.5	3.5	3.0	1.0	17.3	2.55
417247	619	917	3.0	49	2.5	3.0*	2.8	1.0	17.2	2.30
417250	625	925	2.5	73	2.5	3.5	3.0	1.0	16.9	2.06
417251	629	926	3.0	68	2.5	3.5	3.5	1.5	18.1	1.88
417252	713^	1009^	3.0^	80^	1.0^	2.0^	3.0^	2.0^	22.8^	2.11^
417253	625	915	2.5	46*	2.5	3.5	3.8	1.5	16.5	1.62*
417259	701	915	3.0*	56	2.5	4.0*	2.8	1.0	15.6	2.92
417262	624	924	3.0	57	2.0	3.5	2.3	1.0	16.7	2.18
417263	624	919	2.5	51	2.0	2.5	2.3	1.0	14.9	2.26*
417264	629	916	2.5	59*	2.5	3.5	3.0	1.0	25.9	2.59*
417265	705	921	2.0*	57	2.5	4.0*	2.5	--	4.5	1.03
417271	624	919	2.0	60	2.5	3.5	3.5	1.5	14.6	2.11*
417272	619	929*	1.5	36	1.5	2.0*	4.3	1.5	24.0*	0.38
417273	709	1006	2.5	63	2.0	3.0	3.3	2.0	22.5	1.71
417275	701	909	3.5	123*	2.5	5.0	2.3	1.5	7.5	2.53
417277	623	1004	3.5*	45*	1.5	3.0*	3.8	2.0	24.1	1.02



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
417073	V	44.9	18.0	12.9	2.3	23.8	55.8	5.2
417074	V	44.4 <sup>w</sup>	19.6 <sup>w</sup>	11.8	3.2	26.7	52.9	5.5
417081	V	44.6 <sup>w</sup>	18.8 <sup>w</sup>	13.7	2.8	21.3	56.2	6.0
417088	V	44.6 <sup>w</sup>	18.1 <sup>w</sup>	11.1	3.2	26.2	53.6	5.9
417090	V	47.2 <sup>w</sup>	15.6 <sup>w</sup>	12.9	4.6	23.8	52.2	6.6
417093	V	41.4 <sup>w</sup>	16.3 <sup>w</sup>	11.7	3.6	19.1	56.1	9.6
417098	V	46.1 <sup>w^</sup>	18.2 <sup>w^</sup>	12.0 <sup>^</sup>	3.2 <sup>^</sup>	24.4 <sup>^</sup>	53.5 <sup>^</sup>	6.9 <sup>^</sup>
417099	VI	49.5 <sup>w</sup>	17.0 <sup>w</sup>	12.3	2.9	17.9	59.4	7.3
417103	V	42.3	17.4	14.9	2.8	24.8	51.9	5.5
417104	V	41.4	20.0	13.5	2.9	27.0	51.9	4.7
417105	V	41.2	19.5	11.6	2.5	35.4	45.6	4.8
417106	V	43.3 <sup>w</sup>	16.8 <sup>w</sup>	12.2	3.3	20.0	57.8	6.7
417108	V	48.9	18.3	14.0	3.3	25.2	52.0	5.4
417135B	V	46.6	14.5	12.9	3.4	31.0	46.7	6.1
417141	V	42.0	19.1	13.0	3.3	23.7	54.4	5.6
417156	V	43.9	18.5	13.4	2.8	21.4	56.3	6.1
417157	V	45.2	20.2	13.1	2.8	22.9	55.6	5.6
417158	VI	41.1	19.3	13.4	2.8	27.6	51.0	5.2
417159	V	43.3	19.3	11.8	2.9	39.0	42.0	4.3
417165	V	45.4 <sup>w</sup>	16.7 <sup>w</sup>	11.7	3.3	16.9	61.0	7.1
417166	V	46.6 <sup>w^</sup>	19.0 <sup>w^</sup>	12.6 <sup>^</sup>	2.2 <sup>^</sup>	15.2 <sup>^</sup>	60.8 <sup>^</sup>	9.2 <sup>^</sup>
417169	V	42.4 <sup>w</sup>	18.4 <sup>w</sup>	10.4	3.0	28.0	52.0	6.6
417172	V	44.6	17.6	13.8	3.2	18.5	58.5	5.9
417193	V	47.5 <sup>w</sup>	16.6 <sup>w</sup>	12.2	4.3	17.5	57.9	8.0
417205	V	47.1	20.6	13.6	2.5	21.6	57.7	4.7
417209	V	40.3 <sup>w</sup>	20.2 <sup>w</sup>	12.0	2.7	26.3	52.7	6.2
417211	V	41.6 <sup>w</sup>	19.8 <sup>w</sup>	12.2	2.7	26.8	52.4	6.0
417235	V	46.2	18.6	14.1	3.4	19.8	56.6	6.1
417236	V	47.6 <sup>w</sup>	18.7 <sup>w</sup>	12.2	2.7	27.0	51.9	6.1
417237	V	43.6	19.8	12.9	3.0	24.6	54.0	5.5
417240	V	44.3	19.7	12.3	2.8	25.6	54.4	4.8
417247	V	43.3	20.5	12.7	2.8	26.3	53.8	4.4
417250	V	43.8	17.9	13.1	2.8	23.4	54.6	6.1
417251	V	40.6	19.9	13.0	2.8	30.1	48.8	5.3
417252	VI	43.6 <sup>^</sup>	20.4 <sup>^</sup>	11.9 <sup>^</sup>	2.9 <sup>^</sup>	41.8 <sup>^</sup>	39.6 <sup>^</sup>	3.7 <sup>^</sup>
417253	V	41.8	20.1	12.4	2.7	32.2	48.1	4.6
417259	V	47.0	18.8	12.9	3.4	20.7	57.5	5.6
417262	V	40.6	20.5	14.2	3.5	23.9	53.1	5.3
417263	V	41.8	19.8	12.8	2.7	20.3	58.0	6.3
417264	V	41.9	20.7	10.9	2.8	33.5	48.4	4.5
417265	V	41.1 <sup>w</sup>	16.0 <sup>w</sup>	11.6	3.6	17.8	60.1	6.8
417271	V	41.7	18.9	11.5	2.8	36.8	44.3	4.7
417272	V	47.0 <sup>w</sup>	17.9 <sup>w</sup>	11.5	3.1	17.8	60.9	6.7
417273	VI	45.8	17.1	13.1	3.1	28.2	50.2	5.4
417275	V	42.9	16.6	14.1	3.2	25.2	51.6	5.9
417277	VI	51.9 <sup>w</sup>	14.9 <sup>w</sup>	12.5	3.1	20.0	56.7	7.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
417280	Sennari 1	Tohoku	Japan	Japan	1977	V
417284	Sennari kou	Tohoku	Japan	Japan	1977	V
417288	Shibahara mame	Kanto	Japan	Japan	1977	V
417306	Shin tamanishiki	Kinki	Japan	Japan	1977	V
417307	Shiragiku	Tohoku	Japan	Japan	1977	V
417308	Shirakawa cha mame	Kanto	Japan	Japan	1977	V
417309B	(Shirasaya 1)	Kanto	Japan	Japan	1977	V
417322	Shiro hiyashi mame	Tohoku	Japan	Japan	1977	V
417329	Shirome choutan	Kanto	Japan	Japan	1977	V
417331	Shiro pankon	Kanto	Japan	Japan	1977	V
417332	Shirosaya 8	Tohoku	Japan	Japan	1977	V
417335	Shirosota	Kanto	Japan	Japan	1977	V
417337	Shirotakashu	Tohoku	Japan	Japan	1977	V
417341	Shitabori daizu	Kanto	Japan	Japan	1977	V
417346	Shouseiryuu	Kanto	Japan	Japan	1977	V
417347	Sokoshin	Hokuriku	Japan	Japan	1977	V
417348	Soubisebikon	Tohoku	Japan	Japan	1977	V
417350	Suigen ao (Korea)	unknown	Korea	Korea	1977	V
417351	Suigen 1	Kyonggi	South Korea	South Korea	1977	V
417352	Sunazumi	Tohoku	Japan	Japan	1977	V
417356	Tafuku	Tohoku	Japan	Japan	1977	V
417359	Taiwan	Tohoku	Japan	Japan	1977	V
417360	Taiwan aokawa daizu	Kinki	Japan	Japan	1977	V
417363	Takedate 1	Tohoku	Japan	Japan	1977	V
417366	Takiya	Kanto	Japan	Japan	1977	V
417372	Tamatsukuri	Tohoku	Japan	Japan	1977	VI
417373	Tamatsukuri 11	Tohoku	Japan	Japan	1977	V
417374	Tanaba kuro	Tohoku	Japan	Japan	1977	VI
417377	Tanryoku 2	Tohoku	Japan	Japan	1977	V
417379	Tansenki	Tohoku	Japan	Japan	1977	VI
417383	Tobishima	Kanto	Japan	Japan	1977	V
417387	Tockikubo	Kanto	Japan	Japan	1977	V
417390	Tomo	Tohoku	Japan	Japan	1977	V
417392	Tora mame	Kyushu	Japan	Japan	1977	V
417394	Touhoku 5	Tohoku	Japan	Japan	1977	V
417395	Touhoku 8	Tohoku	Japan	Japan	1977	V
417396	Touhoku 9	Tohoku	Japan	Japan	1977	V
417399	Toujou wase	Kanto	Japan	Japan	1977	V
417401	Toukyou	Kanto	Japan	Japan	1977	V
417402	Tousan 4	Kanto	Japan	Japan	1977	V
417403	Tousan 5	Kanto	Japan	Japan	1977	V
417404	Tousan 12	Kanto	Japan	Japan	1977	V
417411	Tousan 24	Kanto	Japan	Japan	1977	V
417414A	Tousan 28	Kanto	Japan	Japan	1977	V
417415	Tousan 30	Kanto	Japan	Japan	1977	V
417418	Tousan 38	Kanto	Japan	Japan	1977	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
417280	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
417284	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417288	V	D	P	G	A	N	Tn	D	Y	Bf	Def	3N
417306	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417307	V	D	W	T	A	Ssp	Br	I	Y	Lbr		2N
417308	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr		3N
417309B	V	D	P	T	Sa	N	Br	I	Y	Br		3N
417322	V	D	P	T	A	Ssp	Br	I	Gn	Bl		5F
417329	V	D	P	G	E	N	Br	I	Y	Y		3N
417331	V	D	P	T	Sa	Ssp	Br	I	Y	Y		2N
417332	V	D	P	G	A	N	Tn	I	Y	Bf		3N
417335	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
417337	V	D	P	T	A	N	Br	I	Y	Br	Vhil	3N
417341	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
417346	V	D	P	T	E	Ssp	Bl	I	Gn	Bl	Gnc	4N
417347	V	D	P	T	Sa	N	Br	I	Ggn	Bl	Gnc	2N
417348	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
417350	V	D	P	T	E	Ssp	Br	I	Gn	Brbl	Gnc	3N
417351	V	D	P	G	E	Ssp	Br	I	Y	Y		3N
417352	V	D	P	T	Sa	N	Br	I	Y	Lbr		3N
417356	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417359	V	D	P	T	Sa	Ssp	Br	I	Gn	Br		5F
417360	V	D	W	T	Sa	Ssp	Br	I	Y	Br		3N
417363	V	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
417366	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417372	VI	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
417373	V	D	P	G	A	N	Br	I	Y	Y		2N
417374	VI	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
417377	V	D	P	G	A	Ssp	Br	D	Y	Y		3N
417379	VI	D	P	G	E	Ssp	Br	I	Y	Y		2N
417383	V	D	P	T	A	Ssp	Bl	I	Y	Tn		2N
417387	V	D	W	G	A	Ssp	Br	I	Y	Lbf		2N
417390	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc	2N
417392	V	D	P	Lt	A	Ssp	Br	I	Rbr	Rbr	Net	3N
417394	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
417395	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
417396	V	D	P	G	A	Ssp	Br	D	Y	Y		3N
417399	V	D	P	T	A	Ssp	Br	D	Y	Br		3N
417401	V	D	W	T	Sa	N	Tn	I	Y	Br		3N
417402	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
417403	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
417404	V	D	W	G	A	N	Br	D	Y	Y		3N
417411	V	D	W	T	A	N	Br	D	Y	Y		2N
417414A	V	D	P	T	Sa	Ssp	Br	I	Y	Lbr		3N
417415	V	D	W	G	A	Ssp	Br	D	Y	Y		2N
417418	V	D	P	G	A	Ssp	Br	I	Y	Y		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
417280	627	921	1.5	40	2.0	3.0	3.8	2.0	16.6	0.87*
417284	622	919	1.5	59	2.0	3.0	3.0	1.0	15.6	1.78
417288	625	1001	3.0	50*	1.0	1.5	3.5	1.5	23.9	1.76
417306	625	918	2.0	51	2.0	3.0	3.5	1.5	14.5	2.05*
417307	701	1001	3.0	56*	2.5	3.5	3.5	1.0	17.8	1.23
417308	626	925	3.0	58	2.0	3.5	3.0	--	23.2	1.91
417309B	708	1001*	3.5	76*	2.5	3.5*	3.0	2.5	13.8	1.88
417322	620	1002	2.5	51	1.5	2.0*	4.0	2.0	29.3*	1.41
417329	629	913	3.0	61	2.0	2.5	3.5	1.0	14.5	2.10
417331	625	922	2.0	57	1.0	1.5	3.0	1.5	19.8	2.52
417332	701	921	3.0	60*	2.0	3.0	2.5	1.0	18.5	2.56
417335	629	914	2.5	37	1.0	1.5	2.5	1.5	8.4	2.14
417337	629	921	3.0	70*	2.0	3.0	3.0	1.0	19.2	1.98
417341	701	927	3.0	51*	1.0	2.0	3.0	1.0	17.2	1.50
417346	625	923	2.0	50	2.0	3.5	3.3	5.0	12.3	1.78
417347	701	927	3.0	56	2.0	3.0	2.3	1.5	14.2	2.10
417348	629	925	3.0	34	1.0	1.5	3.3	5.0	22.5	1.05*
417350	625	1001	3.0	52*	2.0	2.5	3.0	2.0	17.1	1.34
417351	629	917	3.0	53	1.0	2.0	3.0	1.5	16.4	2.53
417352	629	925	2.0	55*	2.0	2.5	3.3	1.0	16.8	1.51
417356	619	916	2.0 <sup>^</sup>	40	2.0	3.0	3.8	2.0*	15.9	1.29*
417359	624	929*	3.0	58*	1.5	3.0 <sup>^</sup>	4.0	2.5	25.3*	1.07
417360	701	929	3.0	68*	3.0	4.5	3.0	1.5	15.0	1.53
417363	629	921	2.0	59*	2.0	3.0	3.5	1.0	15.2	1.37
417366	627	920	2.0	55*	2.5	3.5	3.8	2.0	16.6	1.34*
417372	705	1003	3.0	55	2.0	3.5	3.0	2.0	16.3	1.62
417373	621	911	3.0	55	2.5	4.5	4.0	1.5	16.2	2.31*
417374	707 <sup>^</sup>	1008 <sup>^</sup>	3.0 <sup>^</sup>	80 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	--	25.9 <sup>^</sup>	1.80 <sup>^</sup>
417377	629	919	3.5	54	2.0	3.0	3.5	1.0	16.4	2.40
417379	630	1003	3.0	53*	1.5	2.0*	3.3	2.0	20.8	1.19
417383	625	927	3.0	59	3.0	4.0	2.8	5.0	15.4	2.06
417387	629	1001	3.0	65*	2.5	4.0*	2.8	1.0	12.9	2.28*
417390	629	1001	2.0	39*	2.0	2.5	3.0	2.0	26.9	1.04*
417392	701	1002	3.5	41	2.0	2.5	3.0	--	22.3	1.01
417394	624	918	2.5	41	1.0	2.0	3.0	2.5	18.7	2.66*
417395	623	925	3.0	67*	2.5	3.5	3.0	1.5	15.8	1.93
417396	701	924	3.0	70*	2.0	3.5	3.3	1.0	17.6	1.98*
417399	625	928	3.5	56*	1.5	2.5	3.3	2.0	15.3	1.76
417401	705	921	3.0	63*	1.0	1.0	2.8*	1.0	7.8	1.59*
417402	621	921	2.5	59*	2.0	2.5	3.5	1.5	17.0	1.63*
417403	625	929	2.0	45	1.0	2.0	3.5	1.5	19.0*	1.24*
417404	705	927	3.0	53	2.0	3.5	3.5	1.0	17.8	1.73
417411	625	928	2.5	50	2.0	3.0	3.3	1.0	22.1	1.65
417414A	701	922	2.0	69	1.0	2.0	3.0	1.0	19.4	1.97
417415	624	907	3.0	53	2.5	3.5	4.0	1.0	16.9	2.25*
417418	619	907	2.5	61*	2.5	4.5	2.5	1.0	20.1	3.15

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
417280	V	45.5 <sup>w</sup>	19.5 <sup>w</sup>	12.7	2.6	22.6	56.3	5.7
417284	V	42.0	19.4	11.9	2.4	33.3	47.2	5.2
417288	V	44.7	19.1	12.9	3.4	25.5	52.2	5.9
417306	V	41.4	19.6	12.3	2.4	34.3	47.6	3.5
417307	V	44.9	17.1	13.0	2.9	20.6	57.7	5.8
417308	V	46.2 <sup>w</sup>	19.5 <sup>w</sup>	12.1	2.7	21.1	57.3	6.7
417309B	V	44.2	18.0	12.7	2.9	27.8	50.7	5.8
417322	V	48.6 <sup>w</sup>	18.2 <sup>w</sup>	10.8	2.5	18.5	60.9	7.2
417329	V	40.6	21.9	13.0	4.0	23.3	54.9	4.8
417331	V	44.6	19.7	12.4	2.8	33.9	47.0	3.9
417332	V	44.1	19.8	13.2	2.9	24.8	54.1	5.0
417335	V	43.2	19.2	13.0	3.3	19.8	57.6	6.4
417337	V	44.6	19.1	13.5	3.0	21.4	57.7	4.5
417341	V	41.1	19.5	12.2	2.9	26.3	53.2	5.5
417346	V	44.4 <sup>w</sup>	18.1 <sup>w</sup>	11.9	2.8	24.5	54.9	6.0
417347	V	46.3 <sup>w</sup>	17.7 <sup>w</sup>	13.0	3.1	20.9	55.7	7.4
417348	V	48.3 <sup>w</sup>	17.8 <sup>w</sup>	11.3	3.6	19.3	58.9	6.8
417350	V	47.5 <sup>w</sup>	18.9 <sup>w</sup>	12.0	3.0	22.9	56.2	5.9
417351	V	44.8	20.3	14.1	3.1	23.1	54.7	4.9
417352	V	41.0	18.8	13.6	3.2	24.2	53.1	5.9
417356	V	41.9	19.2	11.9	2.5	33.2	47.7	4.7
417359	V	52.4 <sup>w</sup>	15.4 <sup>w</sup>	12.9	2.7	19.5	57.3	7.6
417360	V	42.4	18.5	11.1	2.4	50.3	32.5	3.7
417363	V	42.8	20.1	11.5	2.3	36.0	46.4	3.8
417366	V	42.5	19.3	11.8	2.3	29.4	51.2	5.3
417372	VI	43.4	18.8	13.0	2.6	31.0	48.4	5.0
417373	V	44.2	17.4	12.6	2.3	33.7	46.9	4.5
417374	VI	49.2 <sup>w^</sup>	15.7 <sup>w^</sup>	11.7 <sup>^</sup>	3.0 <sup>^</sup>	22.4 <sup>^</sup>	55.6 <sup>^</sup>	7.4 <sup>^</sup>
417377	V	45.9	21.0	13.2	2.8	27.4	52.1	4.6
417379	VI	44.8	18.1	13.1	2.7	21.5	56.7	6.0
417383	V	44.4 <sup>w</sup>	18.3 <sup>w</sup>	11.7	3.1	15.7	61.1	8.4
417387	V	42.9	19.7	12.9	2.9	22.8	55.5	6.0
417390	V	45.9 <sup>w</sup>	18.3 <sup>w</sup>	11.3	3.3	23.1	55.6	6.6
417392	V	46.6 <sup>w</sup>	16.6 <sup>w</sup>	11.1	3.0	22.3	55.7	7.8
417394	V	42.5	20.7	11.5	3.0	28.6	52.4	4.4
417395	V	45.1	19.8	11.7	3.0	26.8	54.4	4.1
417396	V	45.7	19.2	13.6	2.7	27.8	51.6	4.4
417399	V	43.2	19.7	12.9	3.0	26.3	53.1	4.7
417401	V	47.7	16.4	13.7	3.2	25.6	51.8	5.8
417402	V	42.0	20.4	13.2	2.9	24.7	53.3	6.0
417403	V	41.9	19.9	12.6	2.8	21.6	57.1	5.9
417404	V	43.3	18.9	14.7	2.5	19.3	56.7	6.7
417411	V	43.8	17.7	11.6	2.7	34.6	45.5	5.7
417414A	V	47.6	19.2	13.3	3.0	27.1	52.1	4.6
417415	V	44.8	19.5	13.7	2.6	31.1	47.9	4.7
417418	V	44.0	19.2	12.8	2.7	22.9	56.1	5.5

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
417419	Tousan 40	Kanto	Japan	Japan	1977	V
417420	Tousan 52	Kanto	Japan	Japan	1977	V
417423	Tousan kei B62	Kanto	Japan	Japan	1977	V
417426	Tousan kei C62	Kanto	Japan	Japan	1977	V
417430	Tsuru no tamago 1	Tohoku	Japan	Japan	1977	V
417440	Uronkon	Kyushu	Japan	Japan	1977	V
417441	Urusan	unknown	Korea	Korea	1977	V
417445	Wase cha shouryuu	Tohoku	Japan	Japan	1977	V
417464	Yachi mame	Tohoku	Japan	Japan	1977	V
417465	Yagi 603	Tohoku	Japan	Japan	1977	V
417466	Yagi shirohana	Tohoku	Japan	Japan	1977	V
417467	Yaji mame	Kanto	Japan	Japan	1977	V
417472D	(Yatsufusa)	Kanto	Japan	Japan	1977	V
417474	Yogore	Kanto	Japan	Japan	1977	V
417475	Yonayou	Hokuriku	Japan	Japan	1977	VI
417481	Yukinoshita	Tohoku	Japan	Japan	1977	V
417483	Zairai aki daizu	Kanto	Japan	Japan	1977	V
417484	Zairaishu	Tohoku	Japan	Japan	1977	V
417486	Zairaishu	Tohoku	Japan	Japan	1977	V
417489	Zairaishu 4	Tohoku	Japan	Japan	1977	V
417491	Zairaishu (Akiu)	Tohoku	Japan	Japan	1977	V
417492	Zairaishu (Mineyoshikawa)	unknown	Japan	Japan	1977	V
417493	Zairaishu aki daizu 2	Kanto	Japan	Japan	1977	V
417494	Zenkouji	Hokuriku	Japan	Japan	1977	V
417567	D 4	unknown	Taiwan	Japan	1977	V
417575	George Washington	unknown	United States	Japan	1977	V
417579	Southern Prolific	unknown	United States	Japan	1977	V
417581		Kinki	United States	Japan	1977	V
417582		Kinki	United States	Japan	1977	V
423720		Kyonggi	South Korea	South Korea	1978	V
423722		Kyonggi	South Korea	South Korea	1978	V
423723		Kyonggi	South Korea	South Korea	1978	V
423724		Kyonggi	South Korea	South Korea	1978	VI
423726		Kyonggi	South Korea	South Korea	1978	V
423727		Kyonggi	South Korea	South Korea	1978	VI
423732		Kyonggi	South Korea	South Korea	1978	V
423738		Kyonggi	South Korea	South Korea	1978	V
423742		Kyonggi	South Korea	South Korea	1978	V
423743A		Kyonggi	South Korea	South Korea	1978	V
423743C		Kyonggi	South Korea	South Korea	1978	V
423745		Kyonggi	South Korea	South Korea	1978	V
423751		Kangwon	South Korea	South Korea	1978	V
423754		Kangwon	South Korea	South Korea	1978	V
423758		Kangwon	South Korea	South Korea	1978	V
423759		Kangwon	South Korea	South Korea	1978	V
423760		Kangwon	South Korea	South Korea	1978	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
417419	V	D	W	G	E	Ssp	Br	I	Y	Y		3N
417420	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417423	V	D	W	G	A	Ssp	Tn	D	Y	Y		3N
417426	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
417430	V	D	W	G	A	Ssp	Br	I	Y	Y		1R
417440	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Snet	3N
417441	V	D	P	G	E	Ssp	Br	I	Y	Y	Def	3N
417445	V	D	P	Lt	Sa	Ssp	Br	I	Br	Br		2N
417464	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
417465	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417466	V	D	W	T	A	Ssp	Br	I	Y	Lbr		2N
417467	V	D	P	G	A	Ssp	Br	I	Y	Lbf		3F
417472D	V	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
417474	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
417475	VI	D	W	T	A	Ssp	Br	I	Y	Br		3N
417481	V	D	P	G	A	Ssp	Br	I	Y	Bf		4N
417483	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
417484	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Gnc	3N
417486	V	D	P	T	Sa	Ssp	Br	I	Y	Bl		3N
417489	V	D	P	T	Sa	Ssp	Br	I	Y	Br	Vhil	2N
417491	V	D	P	T	Sa	Ssp	Br	D	Gn	Gn	Gnc, Sdef	3N
417492	V	D	W	G	A	Ssp	Br	I	Y	Y		2N
417493	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
417494	V	D	P	T	A	Ssp	Br	I	Bl	Bl		3N
417567	V	N	P	T	E	N	Tn	I	Y	Brbl		3N
417575	V	N	P	T	A	Ssp	Br	I	Br	Br		4N
417579	V	N	Pth	T	E	N	Br	I	Bl	Bl		4F
417581	V	N	W	G	E	Ssp	Br	I	Y	Y	Vhil	4N
417582	V	N	P	G	E	N	Br	I	Y	Y		3N
423720	V	D	P	T	E	N	Br	D	Bl	Bl		3N
423722	V	D	W	T	Sa	N	Br	I	Bl	Bl		3N
423723	V	D	P	G	Sa	N	Tn	I	Y	Y		3N
423724	VI	D	P	G	Sa	N	Br	I	Y	Bf		3N
423726	V	D	W	T	A	N	Br	I	Gn	Bl		3N
423727	VI	N	P	Ng	E	N	Br	I	Y	Br		3N
423732	V	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
423738	V	D	P	T	E	N	Br	I	Bl	Bl		3N
423742	V	D	W	G	A	Ssp	Bl	I	Gn	Gn		2N
423743A	V	D	W	T	Sa	Ssp	Br	I	Gn	Bl		3N
423743C	V	D	W	T	E	Ssp	Br	D	Gn	Bl		3N
423745	V	D	P	Ng	A	N	Bl	I	Gn	Br	Gnc	3N
423751	V	D	P	T	Sa	Sp	Tn	I	Rbr	Rbr	Net	3N
423754	V	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
423758	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
423759	V	D	P	G	E	N	Tn	I	Y	Y		3N
423760	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		4N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
417419	630	921	2.5	64	2.5	3.5	3.8*	1.0	19.3	2.34
417420	628	919	2.5	54*	2.0	3.0	3.8	2.0	16.9	1.56
417423	625	920	2.0	53	2.5	3.5	3.8	1.0	14.4	1.74
417426	630	923	3.0	68*	2.5	3.5	3.0	1.0	15.2	2.49*
417430	628	914	2.5	42	1.0	2.0	3.0	1.0	21.6	1.94*
417440	623	922	3.0	51	1.0	1.5	3.5	4.0	24.8*	1.70*
417441	629	924	3.0	54	2.0	3.0	3.8	1.5	17.1	2.24*
417445	701	1001	3.5	74	2.0	3.5	2.3	--	8.7	1.53
417464	621	926	2.0	49	2.0	3.0	2.8	2.0	18.1	1.73
417465	621	917	2.0	55	2.5	3.5	3.3	1.0	15.2	2.31*
417466	624	911	2.0	56	2.0	3.0	3.8	1.0	17.4	2.34
417467	619	920	2.5	36	2.5	3.5	3.8	1.0	27.3*	1.82
417472D	709	915	3.5	75	2.0	3.0	2.8	1.0	12.2	2.47
417474	629	925	2.5	49	1.0	1.5	3.8	1.5	19.1*	1.55
417475	701	1003	3.0	64	1.5	3.0*	3.5	1.5	16.6*	1.63
417481	701	927	2.0	42*	2.0	3.5	3.8	2.0	21.8	1.37*
417483	629	925	3.0	54	2.0	3.0	3.8	2.0	21.5	1.63
417484	625	917	2.5	63	2.0	3.0	2.0	--	18.0	2.62
417486	630	923	3.0	53	1.0	1.5	3.0	2.5	15.2	1.73
417489	625	919	2.0	56*	3.0	4.5	3.3	2.0	16.0	1.77*
417491	630	929	3.0	72*	3.0	4.0	3.5	1.5	29.1	1.38
417492	623	919	2.0	48	2.5	4.5	3.0	1.0	14.5	2.56
417493	627	917	2.5	53	2.5	4.0*	3.5	1.0	16.2	2.04*
417494	701	917	3.0	61	2.0	3.0	2.3	--	17.0	2.33*
417567	706	903	4.0	113	2.5	4.5	2.3	2.5	9.9	2.19*
417575	621	925	4.5	152*	2.0	3.0^	4.3	--	17.5	2.11
417579	711	1001	5.0	163*	2.0	3.0	3.5	--	5.9	0.51
417581	630	913	4.0	108*	2.5	4.0	3.0*	1.5	16.1	3.18
417582	630	919	5.0	118	2.5	3.5	3.0	1.5	15.3	2.20*
423720	630	928	3.0	51	2.0	2.5	3.0	--	21.3	1.67
423722	708	924	3.0	64	1.0	2.0	2.0	--	6.9	1.71*
423723	705	917	4.0	68*	2.0	3.0	2.3	1.0	8.9	3.12
423724	713	1005	5.0	62*	1.0	2.5	2.3	2.0	10.5	1.65
423726	705	919	3.0	62	1.0	2.0	3.0*	2.0	8.8	2.27*
423727	713	1003	5.0	138	1.0	2.5	3.0	2.5	8.3	0.89
423732	707	922	2.0*	62	1.0	2.0	2.5	2.0	8.3	1.54
423738	701	915	2.5	65	1.0	1.0	2.5	--	14.7	2.42
423742	701	919	2.5	60	2.0	2.0	2.0	3.0*	9.0	2.22
423743A	621	1001	3.0	93	1.0	1.5	3.3	2.5	18.8	2.80*
423743C	701	923	3.0	91	2.0	3.0	3.8	1.5	19.5	2.86
423745	711	927	4.0	64*	1.0	2.0	2.0	4.0*	7.8	1.53
423751	620	921	2.0	32	1.0	2.0	2.3	--	22.4*	1.04
423754	625	912	3.0	52	1.0	1.5	2.8	--	25.7	2.67
423758	701	926	3.0	63	2.0	2.0	2.5	--	20.1	1.71
423759	701	929	3.0	70	1.0	1.0	2.0	1.0	7.4	2.70
423760	701	925	3.0	56	2.0	2.5	2.5	--	18.2	2.18



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
417419	V	42.7 <sup>w</sup>	20.7 <sup>w</sup>	12.6	2.7	23.2	55.5	5.9
417420	V	42.4	19.7	12.9	2.4	28.5	50.5	5.7
417423	V	43.5	20.6	13.3	3.0	22.3	55.9	5.6
417426	V	39.5	18.4	11.9	2.5	22.4	57.2	5.9
417430	V	42.1	19.4	11.8	2.4	32.7	48.6	4.5
417440	V	46.4 <sup>w</sup>	18.8 <sup>w</sup>	11.3	2.9	21.0	57.0	7.8
417441	V	40.2	19.6	11.3	2.8	25.3	55.3	5.4
417445	V	47.8 <sup>w</sup>	12.8 <sup>w</sup>	13.0	3.1	15.0	59.9	8.9
417464	V	43.9	20.1	13.0	2.7	22.4	55.7	6.1
417465	V	42.5	18.8	12.4	2.5	24.7	54.4	5.9
417466	V	41.2	20.6	12.5	2.3	25.7	54.3	5.3
417467	V	43.9	20.1	12.7	2.8	22.4	56.2	6.0
417472D	V	47.0	17.3	13.2	3.1	22.2	54.8	6.7
417474	V	41.8	18.9	11.2	2.9	28.9	51.5	5.5
417475	VI	42.1	18.8	12.4	2.8	24.4	54.5	5.8
417481	V	43.1	20.7	10.9	2.6	25.7	55.4	5.4
417483	V	45.7	19.0	14.0	2.9	24.3	53.3	5.6
417484	V	42.1 <sup>w</sup>	20.5 <sup>w</sup>	13.8	2.6	23.5	53.3	6.8
417486	V	40.7	20.3	11.3	2.7	39.2	42.6	4.3
417489	V	42.3	19.8	12.8	2.5	33.2	47.2	4.3
417491	V	47.6 <sup>w</sup>	19.1 <sup>w</sup>	11.7	3.1	28.8	51.2	5.3
417492	V	41.5	19.9	12.9	2.4	27.6	51.5	5.5
417493	V	42.5	19.1	11.9	2.5	36.2	44.5	4.9
417494	V	44.0 <sup>w</sup>	20.9 <sup>w</sup>	11.5	3.2	21.0	57.4	6.9
417567	V	47.9	15.3	13.5	3.3	22.7	52.9	7.6
417575	V	48.0 <sup>w</sup>	18.5 <sup>w</sup>	11.7	2.9	27.8	52.2	5.4
417579	V	43.6 <sup>w</sup>	13.0 <sup>w</sup>	12.3	4.0	16.1	57.8	9.7
417581	V	45.7	19.5	13.7	3.0	29.6	49.4	4.4
417582	V	45.4	21.0	12.7	3.1	28.7	50.9	4.5
423720	V	43.3 <sup>w</sup>	16.0 <sup>w</sup>	12.0	3.0	21.8	56.2	7.0
423722	V	47.6 <sup>w</sup>	13.5 <sup>w</sup>	12.6	3.8	15.1	60.2	8.3
423723	V	46.7	20.2	13.2	2.9	30.6	48.9	4.4
423724	VI	45.6	18.1	13.5	3.4	22.2	54.8	6.0
423726	V	49.5 <sup>w</sup>	14.6 <sup>w</sup>	12.0	3.4	23.6	54.0	7.1
423727	VI	48.6	16.0	13.5	3.5	22.6	54.7	5.7
423732	V	48.8 <sup>w</sup>	14.7 <sup>w</sup>	13.0	3.0	17.1	58.3	8.5
423738	V	42.6 <sup>w</sup>	20.8 <sup>w</sup>	11.8	3.3	17.4	60.6	6.9
423742	V	41.5 <sup>w</sup>	18.4 <sup>w</sup>	11.5	3.0	18.9	59.6	6.9
423743A	V	46.8 <sup>w</sup>	18.8 <sup>w</sup>	12.5	2.9	24.9	53.3	6.3
423743C	V	43.0 <sup>w</sup>	20.3 <sup>w</sup>	11.1	3.4	31.6	47.7	6.2
423745	V	44.5 <sup>w</sup>	17.0 <sup>w</sup>	11.9	3.9	22.4	55.5	6.3
423751	V	48.5 <sup>w</sup>	18.6 <sup>w</sup>	10.8	3.2	23.2	56.0	6.8
423754	V	43.3 <sup>w</sup>	21.0 <sup>w</sup>	10.6	2.9	31.5	50.2	4.7
423758	V	45.8 <sup>w</sup>	17.6 <sup>w</sup>	11.6	3.8	20.5	56.4	7.6
423759	V	45.2	17.3	13.2	3.5	17.7	59.0	6.5
423760	V	46.8 <sup>w</sup>	16.7 <sup>w</sup>	11.0	3.3	20.2	58.2	7.3

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
423761		Kangwon	South Korea	South Korea	1978	V
423762		Kangwon	South Korea	South Korea	1978	VI
423764		Kangwon	South Korea	South Korea	1978	V
423767		Kangwon	South Korea	South Korea	1978	V
423772		Kangwon	South Korea	South Korea	1978	V
423773		Kangwon	South Korea	South Korea	1978	VI
423774		Kangwon	South Korea	South Korea	1978	V
423775		Kangwon	South Korea	South Korea	1978	V
423781A		Kangwon	South Korea	South Korea	1978	V
423781B		Kangwon	South Korea	South Korea	1978	V
423782		Kangwon	South Korea	South Korea	1978	V
423785		Kangwon	South Korea	South Korea	1978	V
423786		Kangwon	South Korea	South Korea	1978	VI
423799C		Chungchong Nam	South Korea	South Korea	1978	V
423801		Chungchong Nam	South Korea	South Korea	1978	V
423804		Chungchong Puk	South Korea	South Korea	1978	V
423805		Chungchong Puk	South Korea	South Korea	1978	V
423806		Chungchong Nam	South Korea	South Korea	1978	V
423807		Chungchong Nam	South Korea	South Korea	1978	VI
423810		Chungchong Nam	South Korea	South Korea	1978	V
423817		Chungchong Nam	South Korea	South Korea	1978	V
423820		Chungchong Nam	South Korea	South Korea	1978	V
423823		Chungchong Nam	South Korea	South Korea	1978	V
423824		Chungchong Nam	South Korea	South Korea	1978	VI
423827B		Chungchong Nam	South Korea	South Korea	1978	V
423828		Chungchong Nam	South Korea	South Korea	1978	V
423832		Chungchong Puk	South Korea	South Korea	1978	V
423834		Chungchong Puk	South Korea	South Korea	1978	V
423837B		Chungchong Puk	South Korea	South Korea	1978	V
423840		Chungchong Puk	South Korea	South Korea	1978	VI
423844		Chungchong Puk	South Korea	South Korea	1978	V
423847		Chungchong Puk	South Korea	South Korea	1978	V
423854		Cholla Nam	South Korea	South Korea	1978	V
423855		Cholla Nam	South Korea	South Korea	1978	V
423856		Kyongsang Nam	South Korea	South Korea	1978	V
423857		Kyongsang Nam	South Korea	South Korea	1978	V
423860		Kyongsang Nam	South Korea	South Korea	1978	V
423862		Kyongsang Puk	South Korea	South Korea	1978	V
423873	Akasaya (Nagano)	Akita	Japan	Japan	1978	V
423874	Akasaya (Tottori)	Akita	Japan	Japan	1978	V
423875	Aokotsubu	Akita	Japan	Japan	1978	V
423876	Aokotsubu	Akita	Japan	Japan	1978	VI
423901-1	Asahi	Nagano	Japan	Japan	1978	V
423901-2	(Asahi)	Nagano	Japan	Japan	1978	V
423904	Fukusen nari	Nagano	Japan	Japan	1978	V
423912	Misuzu daizu	Nagano	Japan	Japan	1978	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
423761	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
423762	VI	D	P	Lt	A	Sp	Tn	I	Rbr	Rbr	Net	3N
423764	V	D	W	G	E	N	Tn	D	Y	Y		3N
423767	V	D	P	T	E	N	Br	I	Bl	Bl		2N
423772	V	D	P	Lt	Sa	Sp	Tn	I	Rbr	Rbr	Net	3N
423773	VI	N	W	G	E	N	Br	D	Gn	Bf		3N
423774	V	D	W	T	Sa	N	Bl	I	Gn	Bl		2N
423775	V	D	P	G	E	N	Tn	D	Y	Bf		3N
423781A	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	3N
423781B	V	D	P	Lt	Sa	Ssp	Br	I	Rbr	Rbr		3N
423782	V	D	P	T	E	Ssp	Bl	I	Rbr	Rbr	Snet	3F
423785	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
423786	VI	N	P	T	E	Ssp	Br	I	Y	Br		3N
423799C	V	D	P	Lt	Sa	Sp	Tn	I	Rbr	Rbr	Net	3N
423801	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Snet	3N
423804	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
423805	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	3N
423806	V	D	P	T	E	Ssp	Br	I	Gn	Brbl	Gnc	3N
423807	VI	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
423810	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
423817	V	D	P	G	A	Ssp	Br	I	Gn	Bf		3N
423820	V	D	W	T	Sa	N	Bl	I	Gn	Bl		2N
423823	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
423824	VI	D	P	T	Sa	Ssp	Tn	I	Rbr	Rbr		2N
423827B	V	D	P	G	E	N	Tn	I	Y	Bf		2N
423828	V	D	W	T	Sa	N	Bl	I	Gn	Brbl		2N
423832	V	D	P	T	Sa	Ssp	Br	I	Br	Br	Snet	3N
423834	V	D	W	T	Sa	N	Bl	I	Gn	Brbl		2N
423837B	V	D	W	T	A	Ssp	Tn	D	Ggn	Bl	Vsc	3N
423840	VI	D	P	G	E	N	Tn	I	Y	Bf		3N
423844	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
423847	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
423854	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	3N
423855	V	D	P	T	Sa	Ssp	Br	D	Rbr	Rbr	Snet	3N
423856	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc	3N
423857	V	D	P	G	A	Ssp	Bl	I	Gn	Bf	Gnc	4N
423860	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3F
423862	V	D	P	T	Sa	N	Br	I	Rbr	Rbr	Snet	3N
423873	V	D	W	T	Sa	N	Tn	D	Y	Br		2N
423874	V	D	W	T	A	N	Tn	I	Y	Br		2N
423875	V	D	P	T	E	N	Br	I	Gn	Br	Gnc	3N
423876	VI	D	W	G	A	N	Bl	I	Gn	Gn	Gnc	3N
423901-1	V	D	W	T	A	N	Br	D	Y	Br		3N
423901-2	V	D	W	T	A	N	Br	D	Y	Br		3N
423904	V	D	P	G	A	N	Br	I	Y	Y		3N
423912	V	D	W	G	A	N	Br	D	Y	Y		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
423761	625	923	2.5	48	2.0	2.5	2.5	--	20.5	1.73
423762	622	1003	2.0	22	1.5	2.5	2.5	--	23.4	0.51
423764	625	919	2.5	37	1.0	1.0	2.8	1.0	12.7	1.82
423767	623	921	2.5	46	1.0	2.0	2.5	--	15.8	1.46
423772	626	923	3.0	25	2.0	2.5	2.5	--	21.7	0.82
423773	710	1007	4.5	135	2.0	3.0	3.0	3.0	10.2	1.03
423774	707	923	4.0	63*	2.0	3.0	2.8*	4.5	7.8	1.52
423775	709	929	4.0	76	1.0	2.0	3.3	1.5	9.0	1.97
423781A	625	922	3.0	53	2.0	2.0	3.0	--	21.6	1.39*
423781B	621	925	3.0	46*	2.0	3.0	3.0	--	21.4	1.36*
423782	701	1002	3.5	53*	2.0	2.5	2.5	--	18.4	1.30
423785	629	915	2.5	39	1.0	1.5	2.3	1.5	16.1*	1.89
423786	702	1005	4.0	123	1.0	2.0	2.8	3.0	9.7	1.05
423799C	625	921	2.5	32	1.0	1.0	2.5	--	21.3	0.82*
423801	629	919	3.5	53*	2.0	2.0	2.5	--	17.4	1.59
423804	701	919	3.0	55	1.0	1.5	2.0	--	14.9	1.49
423805	625	921	3.0	58	1.0	1.5	2.8	2.0	16.2	2.13
423806	623	920	3.0	62*	1.0	2.0	2.5	2.5	16.9	2.01
423807	625	1007*	2.5	34*	2.0	3.0	3.0	1.5	19.7	1.38*
423810	629	927	2.5	53*	2.0	3.0	3.0	1.0	29.0*	1.74*
423817	701	925	3.0	62*	2.0	2.5	2.5	1.0	16.1	1.71
423820	706	923	5.0	52	2.5	3.5	2.5	4.0	7.4	1.44
423823	623	927	3.0	57	2.0	3.0	3.3	1.0	31.1*	2.08
423824	709	1005	4.0	72	1.5	2.5	2.5	--	10.3	1.16
423827B	711	925	3.0	72	1.0	1.5	2.5	1.5	6.0	1.69
423828	702	925	4.0	63	1.0	2.0*	2.3	3.5	8.1	1.37
423832	615	925	3.0	62	2.0	2.0	2.3	--	13.8	2.14
423834	704	927	4.0	103*	1.0	1.5	2.3	4.0	7.9	1.35
423837B	701	921	2.5	62	2.0	2.5	2.5	2.0*	8.5	2.66
423840	707	1006	4.0	62	1.0	2.0	2.8	2.0	12.6	1.40
423844	623	918	2.5	48	1.0	1.0	2.0	--	14.9	1.77
423847	621	915	2.5	39*	1.0	1.5	2.3	--	20.8	0.80
423854	622	929	2.5	31*	1.0	1.5	3.0	--	24.8	0.67*
423855	629	922	2.5	34	1.0	1.5	2.8	--	25.1	1.11*
423856	623	917	3.0	47	2.0	2.0	3.0	1.0	15.2	2.10*
423857	705	930	4.0	71	2.0	2.5	2.8	3.5	9.3	1.62
423860	621	921	3.0	45*	1.0	2.0	3.0	--	20.6	0.63
423862	620	919	2.5	35	1.0	2.0	2.8	--	24.2	2.01*
423873	630	927	3.0	53	1.0	1.5	2.8	1.0	15.3	1.94*
423874	701	927	3.0	53	1.5	2.5	2.5	1.0	14.8	1.50*
423875	701	1001	3.0	51*	1.5	2.5	2.8	4.0*	11.9	1.44*
423876	701	1004	2.5	59	1.5	2.5	3.3	5.0	10.4	1.07
423901-1	701	927	3.0	60	1.5	2.0	3.0	1.0	14.5	1.87
423901-2	701	927	3.0	52*	1.5	2.5	3.0	1.0	14.8	1.57
423904	625	925	2.5	60	2.5	3.5	2.8	1.0	18.1	1.43*
423912	626	923	2.5	69*	1.5	2.0	3.3	1.0	20.2	2.03

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
423761	V	45.8 <sup>w</sup>	18.1 <sup>w</sup>	13.3	2.8	19.8	57.6	6.5
423762	VI	46.4 <sup>w</sup>	19.6 <sup>w</sup>	10.9	2.8	24.3	56.0	6.0
423764	V	45.6	19.0	12.8	3.0	20.5	57.6	6.1
423767	V	42.1 <sup>w</sup>	18.9 <sup>w</sup>	11.2	2.7	18.2	59.9	8.0
423772	V	46.1 <sup>w</sup>	19.8 <sup>w</sup>	10.6	2.8	22.0	57.5	7.0
423773	VI	45.2 <sup>w</sup>	17.2 <sup>w</sup>	11.6	3.7	27.7	50.4	6.6
423774	V	47.7 <sup>w</sup>	16.2 <sup>w</sup>	12.0	3.4	23.4	54.9	6.4
423775	V	49.1	15.9	14.1	3.5	22.7	54.0	5.8
423781A	V	43.5 <sup>w</sup>	19.4 <sup>w</sup>	11.3	3.3	22.2	57.5	5.7
423781B	V	45.0 <sup>w</sup>	17.3 <sup>w</sup>	11.2	3.4	22.7	56.4	6.3
423782	V	47.6 <sup>w</sup>	15.2 <sup>w</sup>	11.8	2.9	19.1	58.2	8.0
423785	V	45.2	18.7	13.1	3.0	22.2	56.0	5.7
423786	VI	44.6	18.5	13.9	3.6	20.1	56.4	6.0
423799C	V	46.5 <sup>w</sup>	20.8 <sup>w</sup>	10.9	2.9	23.6	56.4	6.2
423801	V	45.5 <sup>w</sup>	19.1 <sup>w</sup>	11.4	2.5	21.6	58.5	6.0
423804	V	44.7 <sup>w</sup>	16.8 <sup>w</sup>	10.4	3.4	20.7	57.7	7.8
423805	V	42.9 <sup>w</sup>	20.2 <sup>w</sup>	12.2	3.2	20.1	57.5	6.9
423806	V	43.2 <sup>w</sup>	18.6 <sup>w</sup>	11.9	3.4	19.9	57.7	7.0
423807	VI	47.0 <sup>w</sup>	17.1 <sup>w</sup>	12.8	3.6	20.6	56.2	6.9
423810	V	44.7 <sup>w</sup>	18.8 <sup>w</sup>	12.9	2.7	26.9	51.0	6.5
423817	V	45.1 <sup>w</sup>	16.9 <sup>w</sup>	11.8	3.0	24.4	54.1	6.7
423820	V	46.3 <sup>w</sup>	16.4 <sup>w</sup>	11.6	3.2	21.9	56.4	6.9
423823	V	45.7 <sup>w</sup>	19.8 <sup>w</sup>	13.0	3.1	23.3	54.1	6.5
423824	VI	46.7 <sup>w</sup>	17.3 <sup>w</sup>	12.8	3.3	26.2	51.5	6.2
423827B	V	50.0	16.1	13.6	3.7	20.5	54.8	7.4
423828	V	47.7 <sup>w</sup>	15.8 <sup>w</sup>	11.9	3.6	23.5	54.7	6.4
423832	V	44.4 <sup>w</sup>	18.5 <sup>w</sup>	12.3	3.1	22.6	55.4	6.6
423834	V	47.7 <sup>w</sup>	16.0 <sup>w</sup>	12.3	3.1	22.3	55.5	6.9
423837B	V	45.0 <sup>w</sup>	18.6 <sup>w</sup>	12.2	3.3	23.0	55.0	6.5
423840	VI	44.8	19.2	13.0	3.0	37.7	42.3	3.9
423844	V	45.4 <sup>w</sup>	20.1 <sup>w</sup>	12.1	3.4	20.8	57.5	6.2
423847	V	43.7 <sup>w</sup>	18.7 <sup>w</sup>	12.6	3.1	18.9	58.5	6.9
423854	V	44.9 <sup>w</sup>	18.2 <sup>w</sup>	11.8	2.9	19.6	58.2	7.4
423855	V	43.1 <sup>w</sup>	19.8 <sup>w</sup>	11.2	3.1	22.7	56.0	6.9
423856	V	41.8 <sup>w</sup>	19.7 <sup>w</sup>	11.2	3.2	23.1	55.6	6.9
423857	V	44.9 <sup>w</sup>	19.7 <sup>w</sup>	11.8	3.3	21.5	56.6	6.9
423860	V	45.6 <sup>w</sup>	19.8 <sup>w</sup>	12.1	3.4	20.1	57.2	7.3
423862	V	44.1 <sup>w</sup>	19.2 <sup>w</sup>	12.7	3.0	21.4	56.6	6.3
423873	V	40.9	19.8	12.9	2.9	23.2	54.8	6.2
423874	V	40.8	20.0	13.4	3.2	24.9	52.4	6.0
423875	V	44.3 <sup>w</sup>	17.6 <sup>w</sup>	12.7	3.0	21.2	56.3	6.8
423876	VI	44.4 <sup>w</sup>	18.5 <sup>w</sup>	11.5	3.0	33.1	46.5	5.9
423901-1	V	41.0	19.8	12.8	3.2	27.8	50.3	5.9
423901-2	V	41.5	20.0	12.7	2.9	26.4	53.0	5.0
423904	V	45.6	17.1	14.0	2.7	17.4	59.5	6.5
423912	V	42.6	19.5	11.4	2.5	34.2	47.2	4.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
423914B	(Nasu shirome)	Nagano	Japan	Japan	1978	V
423919	Sakagami 2	Nagano	Japan	Japan	1978	V
423922	Suzunari	Nagano	Japan	Japan	1978	V
423924	Tamazoro	Nagano	Japan	Japan	1978	V
423928	Uda daizu	Nagano	Japan	Japan	1978	V
423970	Oshoku akidaizu	Kumamoto	Japan	Japan	1978	V
423981	Akasaya (Gifu)	Kumamoto	Japan	Japan	1978	V
423982	Akasaya (Niigata)	Kumamoto	Japan	Japan	1978	V
423984	Akasaya (Okayama Tsuyama)	Kumamoto	Japan	Japan	1978	V
423985	Akasaya (Osaka)	Kumamoto	Japan	Japan	1978	V
424136		Kyongsang Puk	South Korea	South Korea	1978	V
424137A		Kyongsang Puk	South Korea	South Korea	1978	V
424137B		Kyongsang Puk	South Korea	South Korea	1978	V
424138		Kyongsang Puk	South Korea	South Korea	1978	V
424141A		Kyongsang Puk	South Korea	South Korea	1978	V
424141B		Kyongsang Puk	South Korea	South Korea	1978	V
424144		Kyongsang Puk	South Korea	South Korea	1978	V
424156C		Kyongsang Nam	South Korea	South Korea	1978	V
424156D		Kyongsang Nam	South Korea	South Korea	1978	V
424166		Kyongsang Nam	South Korea	South Korea	1978	V
424170		Kyongsang Puk	South Korea	South Korea	1978	V
424176		Kyongsang Puk	South Korea	South Korea	1978	V
424178A		Kyongsang Puk	South Korea	South Korea	1978	V
424178B		Kyongsang Puk	South Korea	South Korea	1978	V
424182A		Kyongsang Puk	South Korea	South Korea	1978	V
424183		Kyongsang Puk	South Korea	South Korea	1978	V
424186		Kyongsang Puk	South Korea	South Korea	1978	V
424187		Kyongsang Puk	South Korea	South Korea	1978	V
424212		Kyonggi	South Korea	South Korea	1978	V
424213		Kyonggi	South Korea	South Korea	1978	V
424218		Kyonggi	South Korea	South Korea	1978	V
424222B		Kyonggi	South Korea	South Korea	1978	V
424222C		Kyonggi	South Korea	South Korea	1978	V
424237B		Kyonggi	South Korea	South Korea	1978	VI
424240		Kyonggi	South Korea	South Korea	1978	V
424248		Kangwon	South Korea	South Korea	1978	V
424251B		Kangwon	South Korea	South Korea	1978	V
424269B		Kangwon	South Korea	South Korea	1978	V
424269C		Kangwon	South Korea	South Korea	1978	V
424290		Chungchong Nam	South Korea	South Korea	1978	VI
424294C		Chungchong Nam	South Korea	South Korea	1978	V
424296C		Chungchong Nam	South Korea	South Korea	1978	V
424300B		Chungchong Nam	South Korea	South Korea	1978	V
424309B		Chungchong Puk	South Korea	South Korea	1978	V
424324B		Chungchong Puk	South Korea	South Korea	1978	V
424325		Chungchong Puk	South Korea	South Korea	1978	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
423914B	V	D	W	G	A	N	Br	I	Y	Y		3N
423919	V	D	P	G	A	Ssp	Tn	I	Y	Y		3N
423922	V	D	P	T	A	N	Br	I	Y	Lbr		3N
423924	V	D	P	T	A	N	Br	I	Y	Br		3N
423928	V	D	P	G	A	N	Br	I	Y	Y	Def	3N
423970	V	D	P	T	Sa	Ssp	Br	D	Bl	Bl		3N
423981	V	D	W	T	A	N	Br	I	Y	Br		3N
423982	V	D	W	T	A	Ssp	Br	I	Y	Br		3N
423984	V	D	W	T	A	Ssp	Tn	I	Y	Br		3N
423985	V	D	W	T	A	Ssp	Br	D	Y	Br		3N
424136	V	D	P	T	E	Ssp	Br	I	Y	Y	Vhil	2N
424137A	V	D	P	G	Sa	N	Tn	I	Y	Bf		3N
424137B	V	D	P	G	A	N	Tn	I	Y	Bf		3N
424138	V	D	P	T	E	Ssp	Br	B	Rbr	Rbr		3N
424141A	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
424141B	V	D	P	T	A	Sp	Br	I	Bl	Bl	Net	3N
424144	V	D	W	T	E	N	Bl	I	Gn	Brbl		2N
424156C	V	D	P	T	A	Ssp	Br	I	Bl	Bl		3N
424156D	V	D	P	T	Sa	N	Br	I	Bl	Bl	Snet	3N
424166	V	D	P	T	Sa	N	Br	I	Ggn	G		3N
424170	V	D	P	T	E	Ssp	Tn	I	Gn	Gn		3N
424176	V	D	W	G	E	N	Tn	D	Y	Y		3N
424178A	V	D	P	T	A	Ssp	Br	I	Gn	Gn		3N
424178B	V	D	P	T	E	Ssp	Br	I	Gn	Br		3N
424182A	V	D	W	G	E	Ssp	Br	I	Y	Y	Sdef	3N
424183	V	D	P	T	E	Ssp	Bl	I	Rbr	Rbr	Snet	2N
424186	V	D	W	G	E	Ssp	Br	I	Y	Y		3N
424187	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Net	3N
424212	V	D	P	T	Sa	Ssp	Br	I	Br	Br	Net	3N
424213	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
424218	V	D	W	G	E	Ssp	Br	I	Rbf	Rbf	Snet	3N
424222B	V	D	W	G	Sa	Ssp	Br	I	Y	Y		3N
424222C	V	D	P	G	E	N	Tn	D	Y	Y		3N
424237B	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
424240	V	D	P	T	Sa	N	Br	I	Gn	Bl		3N
424248	V	D	P	T	E	Ssp	Br	I	Gn	Br	Gnc	2N
424251B	V	D	P	T	Sa	Ssp	Br	I	Gn	Gn	Gnc	2N
424269B	V	D	P	T	E	Ssp	Br	I	Gn	Gn		3N
424269C	V	N	P	G	E	Ssp	Br	I	Gn	Bf		3N
424290	VI	D	P	T	E	Sp	Br	I	Gn	Bl		3N
424294C	V	D	W	T	Sa	N	Bl	I	Gn	Brbl		2N
424296C	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
424300B	V	D	P	G	E	N	Tn	I	Gn	Gn		2N
424309B	V	D	P	T	Sa	Ssp	Br	I	Drbr	Drbr	Snet	3N
424324B	V	D	P	G	Sa	Ssp	Bl	I	Gn	Bf		2N
424325	V	D	W	T	E	N	Bl	I	Gn	Brbl		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
423914B	701	929	2.5	57*	1.0	2.0	3.0	1.0	22.4	1.64*
423919	623	929	2.5	60	1.5	2.0	3.3	2.0	23.1	1.68
423922	630	919	3.0	60	3.0	4.0	3.0	1.0	20.6	2.15*
423924	706	1001	3.0	74*	1.5	2.5	3.3	2.0	22.2	1.77
423928	703	929	3.0	74*	1.5	2.0*	3.3	1.5	18.4	2.50
423970	701	928	3.0	63*	1.5	2.5	2.8	--	21.2	1.65*
423981	630	926	3.0	63	1.0	1.5	2.8	1.0	15.1	1.69
423982	630	924	3.0	53*	1.0	1.5	3.3	1.0	16.2	1.53*
423984	701	925	3.0	53	1.0	1.5	3.3	1.0	15.5	1.18*
423985	701	924	3.0	51	1.0	2.0	3.3	1.0	14.7	1.30
424136	625	923	2.5	62	2.0	2.5	2.5	3.5	19.2	1.99*
424137A	625	921	3.0	44	2.0	3.0	2.3	1.0	9.9	2.66
424137B	702	923	3.5	62	1.5	2.0 <sup>^</sup>	2.8	2.5	8.7	1.81
424138	625	925	3.0	52	1.5	2.5	2.8	--	25.5	1.76
424141A	625	924	2.0	36*	1.0	2.0	2.8	--	19.7	1.30
424141B	625	923	2.0	31	1.0	1.5	2.8	--	17.7	1.09*
424144	703	925	4.0	57	1.5	2.0	2.5	4.0	8.1	1.61
424156C	625	922	2.5	50	1.0	1.5	2.8	--	17.1	1.71
424156D	701	919	3.5	61	1.0	1.5	2.5	--	20.6	2.11
424166	626	913	2.5	40	1.0	2.5	3.0	2.0	19.1	1.38
424170	627	911*	2.5	43	1.0	1.5	3.0	2.0	19.7	1.34
424176	626	917	2.5	43	1.0	1.0	3.0	1.0	12.2	1.87
424178A	701	914	2.5	53	1.0	1.0	2.5	1.0	8.8	1.55
424178B	701	925	3.5	63	1.0	1.0	3.0	2.5	8.1	1.36
424182A	620	919	3.0	39	1.0	1.5	3.8	1.5	25.1*	1.85
424183	701	914	3.0	51	1.0	2.0	2.3	--	9.3	2.10
424186	621	923	2.0	35	2.0	2.5	3.5	1.0	27.1*	0.94*
424187	627	923	2.5	36*	1.0	2.0	3.3	--	23.4	1.79
424212	701	923	2.5	65	1.0	2.0	2.3	--	17.7	2.75
424213	625	921	2.5	41	1.0	1.0	2.5	1.0	13.4	2.46
424218	621	923*	2.0	46	1.0	1.5	3.0	--	25.1*	1.69
424222B	702	929	3.0	69*	1.0	1.0	3.0	1.0	11.3	1.77
424222C	623	921	2.0	51	1.0	1.0	2.8	1.0	13.2	1.81
424237B	626	1007	3.0	58*	1.5	2.5	3.5	1.0	27.7	1.43
424240	626	930	3.0	69	2.0	2.5	3.5	1.0	24.4	1.90
424248	625	918	2.5	43	2.0	2.5	3.3	2.0	18.0	1.29*
424251B	626	918	2.0	42	2.5	3.0	2.8	3.5	17.5	1.44*
424269B	702	929	3.0	58*	2.0	2.5	3.3	1.5	16.2	1.87
424269C	702	925	5.0	123*	2.5	3.0*	3.5	2.5	11.5	1.48
424290	626	1009	2.5	66	1.0	2.0	3.5	1.0	24.2	1.45
424294C	703	922	3.0	52	2.0	2.5	2.8	4.5	7.4	1.11
424296C	701	921	3.0	66*	1.0	1.5	3.0	--	16.8	1.92
424300B	621	913	2.5	52	1.5	2.5	3.0	1.5	13.2	2.37
424309B	627	923	3.0	44	1.0	2.0	3.3	--	18.5	1.31*
424324B	709	930	3.5	61*	2.0	2.5	2.5	4.0*	9.4	1.57
424325	702	923	4.0	62	2.0	2.5	3.0	4.0*	7.4	1.04



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
423914B	V	44.0	18.1	14.5	3.5	22.3	53.7	6.0
423919	V	43.1	19.5	11.7	3.0	30.7	49.4	5.2
423922	V	45.1	18.2	13.3	3.0	21.2	57.2	5.3
423924	V	44.6	17.9	13.1	3.0	26.2	52.2	5.6
423928	V	42.3	20.4	12.1	3.5	28.3	50.6	5.5
423970	V	47.3 <sup>w</sup>	15.4 <sup>w</sup>	11.4	3.3	38.0	42.2	5.1
423981	V	42.5	19.6	13.1	3.0	26.6	51.5	5.8
423982	V	41.4	20.4	12.8	3.0	24.5	53.6	6.1
423984	V	42.3	20.4	12.8	2.9	24.6	53.9	5.8
423985	V	42.4	20.7	13.4	3.3	24.6	52.7	6.0
424136	V	44.7 <sup>w</sup>	19.2 <sup>w</sup>	13.1	3.1	25.8	53.3	4.7
424137A	V	48.0	18.6	13.1	3.3	24.6	53.5	5.5
424137B	V	44.0	20.7	12.3	3.9	24.5	54.2	5.0
424138	V	47.1 <sup>w</sup>	18.2 <sup>w</sup>	12.4	3.0	19.9	57.6	7.2
424141A	V	45.7 <sup>w</sup>	18.9 <sup>w</sup>	12.6	2.9	19.8	57.9	6.7
424141B	V	46.1 <sup>w</sup>	19.6 <sup>w</sup>	12.8	3.2	17.2	58.8	8.0
424144	V	47.4 <sup>w</sup>	16.3 <sup>w</sup>	12.3	3.1	26.2	51.9	6.4
424156C	V	44.9 <sup>w</sup>	20.4 <sup>w</sup>	12.0	3.4	25.2	53.5	5.9
424156D	V	46.6 <sup>w</sup>	19.3 <sup>w</sup>	12.4	3.3	23.2	55.1	6.0
424166	V	48.6 <sup>w</sup>	18.9 <sup>w</sup>	12.7	3.0	24.1	54.8	5.3
424170	V	48.3 <sup>w</sup>	19.5 <sup>w</sup>	12.9	2.5	24.5	54.6	5.4
424176	V	47.1	19.1	13.0	3.1	22.2	55.7	6.0
424178A	V	43.6 <sup>w</sup>	19.3 <sup>w</sup>	12.7	2.7	22.2	55.8	6.5
424178B	V	44.9 <sup>w</sup>	18.3 <sup>w</sup>	12.6	3.2	24.1	53.8	6.4
424182A	V	44.0	20.1	12.3	3.0	23.3	56.3	5.2
424183	V	44.5 <sup>w</sup>	18.3 <sup>w</sup>	12.3	3.4	23.8	53.6	6.9
424186	V	47.3	18.3	12.5	2.9	23.4	56.1	5.1
424187	V	46.4 <sup>w</sup>	19.7 <sup>w</sup>	11.8	2.7	19.0	58.5	8.0
424212	V	45.0 <sup>w</sup>	20.3 <sup>w</sup>	11.9	3.3	18.5	59.3	7.0
424213	V	45.2	18.9	13.1	3.0	21.6	56.3	6.1
424218	V	46.4 <sup>w</sup>	18.6 <sup>w</sup>	11.6	3.2	19.2	59.4	6.6
424222B	V	45.0	18.0	11.6	2.9	28.7	51.3	5.4
424222C	V	43.6	20.3	13.1	3.0	26.3	52.4	5.1
424237B	VI	45.1 <sup>w</sup>	18.6 <sup>w</sup>	11.3	2.9	23.3	56.0	6.4
424240	V	44.5 <sup>w</sup>	19.9 <sup>w</sup>	12.4	2.7	26.2	51.5	7.2
424248	V	46.6 <sup>w</sup>	18.9 <sup>w</sup>	12.0	3.1	23.1	54.6	7.2
424251B	V	46.5 <sup>w</sup>	18.4 <sup>w</sup>	11.7	3.1	20.3	57.8	7.1
424269B	V	42.8 <sup>w</sup>	20.0 <sup>w</sup>	11.9	3.1	19.4	58.8	6.8
424269C	V	47.5 <sup>w</sup>	18.3 <sup>w</sup>	11.2	3.1	22.5	56.3	7.0
424290	VI	44.5 <sup>w</sup>	17.5 <sup>w</sup>	11.1	3.2	27.3	51.6	6.8
424294C	V	48.8 <sup>w</sup>	15.4 <sup>w</sup>	12.0	3.2	27.3	50.4	7.0
424296C	V	45.9 <sup>w</sup>	19.9 <sup>w</sup>	11.1	3.2	22.4	56.8	6.6
424300B	V	46.2 <sup>w</sup>	18.7 <sup>w</sup>	12.2	3.2	23.5	54.8	6.4
424309B	V	46.1 <sup>w</sup>	19.6 <sup>w</sup>	11.7	3.3	20.5	57.3	7.2
424324B	V	42.6 <sup>w</sup>	18.1 <sup>w</sup>	11.2	3.3	20.4	57.4	7.7
424325	V	50.9 <sup>w</sup>	14.7 <sup>w</sup>	11.4	3.3	23.1	54.5	7.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
424331		Chungchong Nam	South Korea	South Korea	1978	V
424333		Chungchong Nam	South Korea	South Korea	1978	VI
424334		Chungchong Nam	South Korea	South Korea	1978	V
424337-1		Chungchong Nam	South Korea	South Korea	1978	V
424340A		Chungchong Nam	South Korea	South Korea	1978	V
424340B		Chungchong Nam	South Korea	South Korea	1978	V
424341		Chungchong Nam	South Korea	South Korea	1978	V
424362		Chungchong Nam	South Korea	South Korea	1978	V
424363		Chungchong Nam	South Korea	South Korea	1978	V
424365		Chungchong Nam	South Korea	South Korea	1978	V
424376		Chungchong Nam	South Korea	South Korea	1978	VI
424378		Chungchong Nam	South Korea	South Korea	1978	VI
424390		Cholla Puk	South Korea	South Korea	1978	VI
424392		Cholla Puk	South Korea	South Korea	1978	VI
424393		Cholla Puk	South Korea	South Korea	1978	V
424394		Cholla Puk	South Korea	South Korea	1978	V
424398		Cholla Puk	South Korea	South Korea	1978	V
424404		Cholla Puk	South Korea	South Korea	1978	V
424415		Cholla Nam	South Korea	South Korea	1978	VI
424417		Cholla Nam	South Korea	South Korea	1978	V
424418		Cholla Nam	South Korea	South Korea	1978	V
424439		Cholla Nam	South Korea	South Korea	1978	VI
424440		Cholla Nam	South Korea	South Korea	1978	V
424441		Cholla Nam	South Korea	South Korea	1978	V
424445		Cholla Nam	South Korea	South Korea	1978	V
424446		Cholla Nam	South Korea	South Korea	1978	V
424448		Cholla Nam	South Korea	South Korea	1978	V
424451		Cholla Nam	South Korea	South Korea	1978	V
424455		Cholla Nam	South Korea	South Korea	1978	V
424457		Cholla Puk	South Korea	South Korea	1978	V
424480		Kyongsang Nam	South Korea	South Korea	1978	V
424482		Kyongsang Nam	South Korea	South Korea	1978	V
424491B		Kyongsang Nam	South Korea	South Korea	1978	V
424493B		Kyongsang Nam	South Korea	South Korea	1978	V
424496		Kyongsang Nam	South Korea	South Korea	1978	V
424507		Kyongsang Nam	South Korea	South Korea	1978	V
424508		Kyongsang Nam	South Korea	South Korea	1978	V
424510		Kyongsang Nam	South Korea	South Korea	1978	V
424514		Kyongsang Nam	South Korea	South Korea	1978	V
424515		Kyongsang Nam	South Korea	South Korea	1978	V
424521B		Kyongsang Nam	South Korea	South Korea	1978	VI
424526		Kyongsang Nam	South Korea	South Korea	1978	V
424551		Kyongsang Puk	South Korea	South Korea	1978	V
424553		Kyongsang Puk	South Korea	South Korea	1978	V
424558B		Kyongsang Puk	South Korea	South Korea	1978	V
424560		Kyongsang Puk	South Korea	South Korea	1978	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
424331	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
424333	VI	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
424334	V	D	W	T	E	N	Bl	I	Gn	Bl		2N
424337-1	V	D	P	G	E	N	Br	I	Gn	Gn	Snet	2N
424340A	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	2N
424340B	V	D	P	T	Sa	Ssp	Tn	I	Br	Br	Net	3N
424341	V	D	P	T	E	Ssp	Tn	I	Br	Br	Net	3N
424362	V	D	P	T	E	Ssp	Br	I	Gn	Br		3N
424363	V	D	P	T	E	Ssp	Br	I	Gn	Br	Vsc	3N
424365	V	D	P	T	Sa	Ssp	Br	B	Rbr	Rbr	Snet	3N
424376	VI	D	P	G	Sa	Ssp	Tn	I	Y	G		3N
424378	VI	D	P	G	E	Ssp	Br	D	Bf	Bf	Snet	3N
424390	VI	D	P	T	E	Ssp	Tn	I	Y	Bl		3N
424392	VI	D	P	G	E	N	Tn	I	Gn	Gn		3N
424393	V	D	P	G	E	N	Tn	I	Gn	Bf		3N
424394	V	D	P	G	Sa	N	Br	I	Gn	Gn	Gnc	3N
424398	V	D	P	T	Sa	Sp	Br	I	Bl	Bl	Net	3N
424404	V	D	W	G	E	N	Tn	I	Y	Y		3N
424415	VI	D	P	Lt	Sa	Ssp	Br	I	Ggn	Ggn		3N
424417	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr		3N
424418	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
424439	VI	D	P	T	Sa	Ssp	Tn	I	Gn	Bl		3N
424440	V	D	P	T	Sa	Ssp	Tn	I	Bl	Bl	Net	3N
424441	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
424445	V	D	W	G	E	N	Tn	I	Y	Y		3N
424446	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
424448	V	D	P	T	E	Ssp	Tn	I	Bl	Bl	Snet	3N
424451	V	D	P	G	A	Ssp	Br	I	Gn	Bf		3N
424455	V	D	P	Lt	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
424457	V	D	P	G	A	N	Br	I	Gn	Bf		3N
424480	V	D	P	G	Sa	Ssp	Br	I	Gn	Lbf	Gnc, Vhil	3N
424482	V	D	P	T	E	Ssp	Br	I	Y	Y		3N
424491B	V	D	P	T	A	N	Br	I	Gn	Bl		4F
424493B	V	D	P	T	E	N	Tn	I	Bl	Bl		3N
424496	V	D	P	G	Sa	N	Br	I	Gn	Gn		3N
424507	V	D	P	G	A	N	Br	I	Gn	Bf		3N
424508	V	D	P	G	A	N	Br	I	Gn	Bf	Vsc	3N
424510	V	D	P	G	Sa	N	Br	I	Gn	Gn	Gnc	4N
424514	V	D	W	T	Sa	Ssp	Tn	I	Y	Br		3N
424515	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Gnc	3N
424521B	VI	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
424526	V	D	P	G	A	N	Br	I	Gn	Bf		3N
424551	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
424553	V	D	W	G	E	Ssp	Br	I	Y	Bf		3N
424558B	V	D	P	T	E	Ssp	Br	D	G	G		3N
424560	V	D	P	G	A	N	Bl	I	Gn	Bf		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
424331	702	911	4.0	69	1.5	3.0*	2.5	--	14.5	2.61
424333	701	1007	2.5	35	2.0	3.0^	3.8	1.5	30.9	0.85*
424334	704	923	4.0	62*	2.0	3.5	2.5	3.5	7.3	1.50
424337-1	625	928	3.0	54*	2.0	3.0	3.0	2.0	28.1	1.22*
424340A	622	927	3.0	42*	1.5	2.5	3.0	--	20.5	1.57*
424340B	625	929	2.0	36	2.0	2.5	3.3	--	26.7	0.91
424341	625	929	2.0	43	1.0	1.5	3.3	--	26.1	0.92
424362	626	924	3.0	58*	1.0	1.5	3.3	1.0	19.7	1.36
424363	701	927	3.0	39*	1.0	1.5	3.0	1.5	22.1	1.07*
424365	626	925	3.5	59	2.0	3.0*	3.0	--	21.1	1.93
424376	626	1003	3.0	58	1.0	1.5	3.5	2.0	24.3	1.77
424378	626	1003	3.0	56	1.5	2.0*	2.3	--	26.0	1.70
424390	713	1003	3.0	63*	1.5	2.0	2.5	3.0	8.2	1.99
424392	712	1003	2.0	40	2.0	2.5	3.8	3.0	15.5	1.17
424393	711	926	3.0	59	1.5	3.0*	3.3	2.0	14.3	1.67
424394	701	923	2.5	42	1.0	1.5	3.0	2.5	17.1	1.31
424398	702	923	3.0	55	1.0	1.5	2.8	--	20.0	2.13
424404	626	920	2.5	39	1.0	1.0	2.8	1.5	12.3	1.61
424415	701	1007	3.0	51	1.0	2.0*	3.0	4.0	19.9	1.37
424417	625	923	3.5	68	1.0	1.5	3.0	--	17.8	1.77
424418	627	924	2.5	42	1.0	1.5	2.8	--	22.6	1.62
424439	627	1005	3.0	67	1.0	2.0	3.3	1.5	28.3*	1.44
424440	701	925	3.0	40	1.0	1.5	3.5	--	20.4	1.61
424441	627	927	3.0	50	2.0	2.5	2.8	--	19.3	1.84
424445	626	920	2.5	36	1.0	1.0	2.3	1.5	13.0	1.99
424446	626	921*	2.5	38	1.0	1.0	2.3	1.5	12.7	2.02
424448	701	927	3.0	43	1.0	1.5	3.0	--	24.0	0.89
424451	701	916	3.5	83	2.0	2.5	2.0	2.0	13.2	2.56
424455	704	925	4.0	58	1.0	1.5	3.3	--	21.4	1.33
424457	629	921	3.5	58	1.0	1.0	2.8	1.0	14.1	1.85
424480	625	917	3.0	52	2.0	2.5	2.8	1.5	13.9	1.84
424482	703	930	4.0	77*	2.0	2.5	3.0	3.5	13.7	1.50
424491B	709	925	3.0	78	2.0	2.5	3.3	2.0	8.5	1.19
424493B	704	1001	3.5	54*	1.0	1.5	2.8	--	17.3	0.94
424496	630	926	3.0	52*	2.0	3.0	3.3	1.5	17.4	1.94*
424507	701	928	3.5	62*	2.0	3.0	3.3	1.5	21.3	1.93
424508	701	927	3.0	59*	2.0	3.0	3.3	1.5	21.7	1.64
424510	701	910	4.0	65	2.0	3.5	3.0	1.0	10.1	1.67*
424514	705	1001	3.0	84*	2.0	3.5	3.0	3.0	9.9	1.79
424515	701	923	2.5	66*	1.0	2.5	3.0	2.0	18.3	1.57
424521B	623	1013	3.0	79*	2.0*	3.0*	3.5	1.0	20.9	1.86
424526	701	925	3.0	73*	1.0	2.5	3.3	1.5	22.7	2.27
424551	627	922	3.0	47	2.0	3.0*	2.3	--	16.6	1.73
424553	704	925	4.0	82*	1.0	2.5	2.8	2.0	12.3	1.64
424558B	626	923	2.5	43	1.0	2.5	3.3	2.0	25.4	1.79
424560	702	928	3.5	60	1.5	3.0*	2.5	3.5	9.2	1.37

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
424331	V	42.3 <sup>w</sup>	21.1 <sup>w</sup>	10.7	3.4	27.3	52.9	5.7
424333	VI	45.2 <sup>w^</sup>	20.0 <sup>w^</sup>	9.8 <sup>^</sup>	2.9 <sup>^</sup>	20.4 <sup>^</sup>	59.4 <sup>^</sup>	7.5 <sup>^</sup>
424334	V	47.3 <sup>w</sup>	16.1 <sup>w</sup>	12.0	2.8	26.2	52.3	6.6
424337-1	V	44.4 <sup>w</sup>	19.6 <sup>w</sup>	12.2	2.6	24.7	53.8	6.7
424340A	V	43.4 <sup>w</sup>	18.9 <sup>w</sup>	10.9	2.7	20.3	59.6	6.6
424340B	V	43.5 <sup>w</sup>	17.8 <sup>w</sup>	11.5	3.1	18.7	58.7	7.8
424341	V	43.4 <sup>w</sup>	18.8 <sup>w</sup>	11.3	3.1	24.2	54.4	7.0
424362	V	46.3 <sup>w</sup>	19.6 <sup>w</sup>	11.8	3.5	21.7	55.6	7.3
424363	V	49.6 <sup>w</sup>	17.6 <sup>w</sup>	12.5	3.1	19.3	57.9	7.2
424365	V	51.2 <sup>w</sup>	15.7 <sup>w</sup>	11.1	2.7	20.0	59.7	6.5
424376	VI	41.7	18.9	12.9	2.6	24.5	54.3	5.8
424378	VI	49.5 <sup>w</sup>	16.7 <sup>w</sup>	11.4	3.1	24.0	54.8	6.8
424390	VI	46.4	16.2	13.8	3.2	21.5	55.3	6.1
424392	VI	48.1 <sup>w</sup>	16.6 <sup>w</sup>	10.8	2.8	28.3	51.7	6.4
424393	V	47.9 <sup>w</sup>	16.8 <sup>w</sup>	10.5	2.8	24.0	56.0	6.6
424394	V	47.1 <sup>w</sup>	18.7 <sup>w</sup>	10.6	2.5	22.9	56.7	7.2
424398	V	44.3 <sup>w</sup>	21.1 <sup>w</sup>	10.5	2.8	25.8	54.3	6.5
424404	V	47.4	18.8	13.0	3.0	24.1	54.6	5.3
424415	VI	46.4 <sup>w</sup>	17.8 <sup>w</sup>	11.8	2.9	24.9	54.1	6.4
424417	V	43.3 <sup>w</sup>	19.5 <sup>w</sup>	11.2	2.5	24.9	54.7	6.8
424418	V	46.5 <sup>w</sup>	18.8 <sup>w</sup>	9.9	2.7	22.4	58.4	6.6
424439	VI	45.2 <sup>w</sup>	19.2 <sup>w</sup>	10.9	2.8	25.1	54.7	6.6
424440	V	45.4 <sup>w</sup>	18.0 <sup>w</sup>	12.2	2.6	25.6	53.2	6.5
424441	V	48.4 <sup>w</sup>	17.0 <sup>w</sup>	10.5	2.8	19.8	59.4	7.5
424445	V	44.8	18.2	13.3	2.9	21.0	56.4	6.4
424446	V	45.3	19.3	13.1	3.0	20.7	56.9	6.4
424448	V	48.3 <sup>w</sup>	17.9 <sup>w</sup>	10.2	3.1	17.2	62.0	7.5
424451	V	42.4 <sup>w</sup>	20.3 <sup>w</sup>	10.5	2.6	21.7	58.1	7.0
424455	V	48.5 <sup>w</sup>	17.1 <sup>w</sup>	12.1	3.4	19.7	56.8	8.1
424457	V	44.4 <sup>w</sup>	17.8 <sup>w</sup>	12.1	3.9	19.8	56.5	7.8
424480	V	43.7 <sup>w</sup>	20.0 <sup>w</sup>	11.7	3.5	19.9	57.3	7.6
424482	V	48.5 <sup>w</sup>	17.7 <sup>w</sup>	12.8	3.3	28.6	50.1	5.2
424491B	V	46.9 <sup>w</sup>	16.1 <sup>w</sup>	11.7	3.2	18.7	59.3	7.1
424493B	V	46.3 <sup>w</sup>	17.8 <sup>w</sup>	11.9	3.5	17.9	59.3	7.3
424496	V	46.7 <sup>w</sup>	19.6 <sup>w</sup>	12.1	3.3	26.8	51.9	6.0
424507	V	45.1 <sup>w</sup>	19.5 <sup>w</sup>	12.7	3.0	22.9	54.8	6.7
424508	V	45.1 <sup>w</sup>	19.2 <sup>w</sup>	13.0	3.3	25.9	51.9	5.9
424510	V	47.7 <sup>w</sup>	18.6 <sup>w</sup>	10.8	3.2	23.2	56.8	6.0
424514	V	44.7	17.4	13.4	3.0	27.2	51.1	5.3
424515	V	45.2 <sup>w</sup>	19.1 <sup>w</sup>	11.1	2.8	18.0	60.3	7.8
424521B	VI	44.5 <sup>w</sup>	19.6 <sup>w</sup>	13.2	2.9	28.0	49.4	6.5
424526	V	44.9 <sup>w</sup>	20.6 <sup>w</sup>	12.5	3.0	25.0	53.2	6.3
424551	V	41.7 <sup>w</sup>	19.3 <sup>w</sup>	11.6	2.9	17.7	59.9	8.0
424553	V	43.6	18.7	12.7	3.8	26.5	51.3	5.7
424558B	V	49.9 <sup>w</sup>	18.5 <sup>w</sup>	12.5	2.6	21.6	56.4	6.9
424560	V	45.6 <sup>w</sup>	18.7 <sup>w</sup>	12.5	3.2	24.4	53.4	6.5

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
424562		Kyongsang Puk	South Korea	South Korea	1978	V
424576		Kyongsang Puk	South Korea	South Korea	1978	V
424577		Kyongsang Puk	South Korea	South Korea	1978	V
424578		Kyongsang Puk	South Korea	South Korea	1978	V
424585		Kyongsang Puk	South Korea	South Korea	1978	VI
424586		Kyongsang Puk	South Korea	South Korea	1978	V
424589		Kyongsang Puk	South Korea	South Korea	1978	V
424593		Kyongsang Puk	South Korea	South Korea	1978	V
424598		Kyongsang Puk	South Korea	South Korea	1978	VI
424601		Kyongsang Puk	South Korea	South Korea	1978	VI
424602		Kyongsang Puk	South Korea	South Korea	1978	V
424603		Kyongsang Puk	South Korea	South Korea	1978	VI
424605B		Kyongsang Puk	South Korea	South Korea	1978	V
424606		Kyongsang Puk	South Korea	South Korea	1978	V
424616		Kyongsang Puk	South Korea	South Korea	1978	V
427276		Guangdong	China	China	1978	V
430600B	(Ta li chiang)	Fujian	China	China	1978	V
430626	1138-2	unknown	China	China	1978	V
436563	E dou No. 2	unknown	China	China	1979	V
436565	Su dou No. 1	unknown	China	China	1979	VI
436566	Yuan yong 401	unknown	China	China	1979	V
436568	70-20	unknown	China	China	1979	V
437126B	(Imeretinscaja)	unknown	Georgia	Russia	1980	VI
437126C	(Imeretinscaja)	unknown	Georgia	Russia	1980	VI
437586B	(Crest'janscij A)	unknown	China	Russia	1980	V
437586C	(Crest'janscij A)	unknown	China	Russia	1980	V
437591	Da tsin do	unknown	China	Russia	1980	VI
437671	Len suj pin din huan	unknown	China	Russia	1980	V
437696	San haj hun mao huan dou	unknown	China	Russia	1980	VI
437717	Sort l tsaluco	unknown	China	Russia	1980	VI
437719	Su jan baj go juan	unknown	China	Russia	1980	V
437734	Tszao tszao tsin mao do	unknown	China	Russia	1980	V
437813		unknown	China	Russia	1980	V
438278	Daizu N2	unknown	Japan	Russia	1980	V
438293		unknown	Japan	Russia	1980	V
438294		unknown	Japan	Russia	1980	V
438297	Buc he do	unknown	Korea	Russia	1980	V
438302B	(Zan dan ber mak)	unknown	Korea	Russia	1980	V
438306		unknown	Korea	Russia	1980	V
438343	Haberlandt	unknown	Australia	Russia	1980	V
438344	Potch 36	unknown	Australia	Russia	1980	V
438425		unknown	India	Russia	1980	V
442003A	Dong nong 43	unknown	China	China	1980	V
442009A		Kyonggi	South Korea	South Korea	1980	V
442009B		Kyonggi	South Korea	South Korea	1980	V
442017		Cholla Nam	South Korea	South Korea	1980	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
424562	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
424576	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Snet	3N
424577	V	D	P	G	E	N	Br	I	Y	Lbf		2N
424578	V	D	P	G	E	N	Br	I	Y	Lbf		2N
424585	VI	N	P	T	E	Ssp	Br	I	Bl	Bl		4N
424586	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Snet	3F
424589	V	D	P	T	E	Ssp	Tn	D	G	G		3N
424593	V	D	P	T	E	Ssp	Br	I	Gn	Bl	Snet	3N
424598	VI	D	P	T	E	Ssp	Br	I	Drbr	Drbr	Snet	3N
424601	VI	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
424602	V	D	P	T	E	Ssp	Tn	I	Bl	Bl	Snet	3N
424603	VI	D	P	T	E	Ssp	Br	B	Br	Br	St	3N
424605B	V	D	P	G	Sa	N	Br	I	Gn	Lbf	Sdef	3N
424606	V	D	W	G	Sa	N	Tn	D	Y	Y		3N
424616	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
427276	V	N	P	T	A	Ssp	Tn	I	Y	Bl		3N
430600B	V	S	P	T	A	N	Tn	I	Y	Bl		3N
430626	V	S	P	T	A	Ssp	Tn	I	Y	Bl		3N
436563	V	D	W	G	A	N	Tn	I	Y	Bf		3N
436565	VI	D	P	G	A	N	Tn	I	Y	Bf		3N
436566	V	S	W	T	A	N	Br	I	Y	Br	Vhil	3N
436568	V	D	W	T	A	N	Tn	I	Y	Br		3N
437126B	VI	N	W	Ng	E	N	Br	I	Y	Brbl	Vhil	3N
437126C	VI	N	W	Lt	Sa	N	Br	I	Y	Brbl	Vhil	3N
437586B	V	D	W	G	A	N	Tn	D	Y	Bf		3N
437586C	V	D	W	T	A	N	Tn	I	Y	Br		3N
437591	VI	D	P	G	A	N	Br	D	Gn	Bf	Gnc	3N
437671	V	D	W	G	A	N	Tn	I	Y	Bf		3N
437696	VI	S	P	T	A	Ssp	Tn	I	Y	Br		4N
437717	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
437719	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	3N
437734	V	S	P	T	A	N	Tn	I	Gn	Brbl	Vsc	3N
437813	V	D	P	T	E	Ssp	Br	I	Gn	Gn	Gnc	3N
438278	V	D	P	T	A	N	Br	I	Y	Tn		3N
438293	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
438294	V	D	P	T	Sa	Ssp	Br	D	Lgn	Brbl	Vhil	3N
438297	V	S	P	G	Sa	Ssp	Br	I	Y	G		2N
438302B	V	D	P	G	E	N	Tn	I	Y	Bf		3N
438306	V	D	W	G	Sa	Ssp	Tn	I	Y	Bf		3N
438343	V	N	W	G	E	N	Br	I	Y	Bf		3N
438344	V	N	W	G	A	N	Br	I	Y	Bf		3N
438425	V	D	P	G	Sa	Ssp	Tn	I	Y	Y	Def	3N
442003A	V	D	P	T	A	Ssp	Tn	I	Y	Bl		3N
442009A	V	D	P	T	E	Ssp	Tn	I	Bl	Bl		3N
442009B	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	3N
442017	V	D	P	G	Sa	Ssp	Tn	S	Y	Y		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
424562	623	927	3.0	53	2.0	3.0	2.5	--	21.4	1.35
424576	625	927	3.0	49	2.0	2.5	3.0	--	29.6	2.14
424577	701	909*	2.5	57	1.0	1.5	2.8	1.0	13.7	2.33
424578	702	910*	2.5	52*	1.5	2.5	3.0	1.0	14.6	2.10*
424585	701	1011	4.5	125*	1.0	1.5	2.8	--	8.1	1.18
424586	629	927	3.0	54*	1.0	2.0*	3.0	--	28.6	2.00
424589	701	926	3.0	55	2.0	2.5	3.5	2.0	19.9	1.30
424593	706	1002	2.5	59*	2.0	2.5	2.8	4.0	30.0	2.15
424598	713	1009	3.5	89	2.0	2.5	2.3	--	10.7	1.60*
424601	703	1006	3.0	59*	1.5	2.5	3.0	--	21.0	1.56
424602	702	1002	3.0	46*	2.0	3.5	3.0	--	21.1	0.89
424603	707	1006	4.0	64*	1.0	2.0	2.5	--	11.0	1.80
424605B	701	908	2.5	63*	2.5	4.5	3.8	1.0	19.8	2.64
424606	626	920	2.5	41	1.0	1.0	3.0	1.0	12.2	1.77
424616	629	927	2.5	47	2.0	2.5	3.0	--	23.4	1.48
427276	712	925	4.0	93*	2.0	3.5	3.3	1.5	16.5	1.80
430600B	710	925	3.0	100*	2.0	2.5	3.0	2.0	15.3	2.15
430626	709	925	4.0	97	2.0	3.0	3.3	2.0	16.5	2.30
436563	702	925	4.0	102	1.0	1.5	2.5	1.0	12.1	2.24*
436565	712	1023*	3.0	81	1.0	2.0	3.8*	1.0	15.5	1.52
436566	705	926	4.5	123*	2.0	2.5	3.0	1.5	14.3	1.71
436568	628	919	3.5	87	1.0	1.5	2.3	1.0	14.8	2.71
437126B	711	1017	5.0	120*	1.0	2.0	4.5	2.0	12.8	0.48
437126C	709	1013	4.5	112*	1.0	2.0	3.8	2.0	12.2	1.08
437586B	701	925	3.0	55	3.0	4.5	2.5	2.0	13.2	1.69
437586C	711	925	4.0	109*	2.0	3.0	2.8*	2.0*	11.2	2.31
437591	709	1005	3.0	76	1.5	2.5	3.8	1.5	25.5	1.61
437671	626	922	3.0	70	1.0	1.5	2.5	1.0	12.5	3.17
437696	729	1018	4.0	82*	1.0	2.0	4.0	2.5	12.9	0.74
437717	725	1013	3.5	85	1.0	2.0	3.0	2.5	12.7	1.52
437719	626	919	3.5	71*	1.0	1.0	2.0	1.0	12.4	3.23
437734	629	909*	4.0	95*	3.0	5.0	3.3	1.0	28.6	1.76
437813	625	915	2.5	52	1.5	2.5	3.5	1.0	16.2	1.52
438278	623	917	2.5	62	3.0	4.5	3.0	1.0	20.2	2.19
438293	621	911	2.5	47	2.0	3.0	3.8	1.0	16.0	2.01*
438294	621	919	2.5	46	2.0	2.5	3.0	1.5	12.4	1.39
438297	621	925	4.5	115*	2.0	3.0	2.8	1.0	14.2	2.14
438302B	629	1001	3.0	83	1.0	1.5	2.8	1.0	18.9	3.03
438306	625	1001	3.0	60	1.5	3.5	2.3	1.5	10.7	2.60
438343	623	825*	4.0	103	2.5	4.0*	2.5	1.0	13.4	2.54
438344	701	927	5.0	123*	2.0	3.0	4.0	2.0	13.5	1.09
438425	624	905	2.5	48	2.5	3.5	3.5	2.0	27.4	2.00*
442003A	709	925	3.0	99*	1.0	2.0	2.8	2.0	15.7	1.97
442009A	627	913	2.5	53	1.0	1.5	2.3	--	15.0	2.54
442009B	701	923	4.0*	56	1.5	2.0*	2.3	--	20.5	1.90
442017	704 <sup>^</sup>	908 <sup>^</sup>	1.0 <sup>^</sup>	42 <sup>^</sup>	1.0 <sup>^</sup>	1.0 <sup>^</sup>	2.5 <sup>^</sup>	1.0 <sup>^</sup>	21.1 <sup>^</sup>	2.85 <sup>^</sup>



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
424562	V	45.9 <sup>w</sup>	20.2 <sup>w</sup>	11.9	2.8	19.2	58.7	7.4
424576	V	44.2 <sup>w</sup>	19.9 <sup>w</sup>	11.1 <sup>^</sup>	2.1 <sup>^</sup>	28.4 <sup>^</sup>	51.6 <sup>^</sup>	6.7 <sup>^</sup>
424577	V	38.9	19.8	12.8	3.6	21.6	54.5	7.6
424578	V	39.9	19.1	12.7	3.5	23.7	53.1	7.0
424585	VI	46.6 <sup>w</sup>	16.0 <sup>w</sup>	13.2	3.7	22.7	54.3	6.1
424586	V	44.7 <sup>w</sup>	20.3 <sup>w</sup>	12.4	2.9	26.9	52.0	5.9
424589	V	50.3 <sup>w</sup>	17.2 <sup>w</sup>	12.4	2.8	28.9	50.5	5.5
424593	V	45.4 <sup>w</sup>	19.5 <sup>w</sup>	12.0	2.9	30.8	49.1	5.2
424598	VI	48.7 <sup>w</sup>	14.5 <sup>w</sup>	13.0	3.3	25.0	52.6	6.2
424601	VI	44.2 <sup>w</sup>	19.4 <sup>w</sup>	12.5	3.0	19.2	57.9	7.4
424602	V	49.9 <sup>w</sup>	16.4 <sup>w</sup>	12.6	3.5	24.9	53.1	5.9
424603	VI	48.2 <sup>w</sup>	16.5 <sup>w</sup>	13.0	3.6	30.7	47.6	5.1
424605B	V	46.2 <sup>w</sup>	19.6 <sup>w</sup>	12.1	3.3	28.5	50.4	5.6
424606	V	46.6	18.8	12.8	3.2	21.4	56.0	6.6
424616	V	46.3 <sup>w</sup>	17.7 <sup>w</sup>	11.1	3.1	18.7	59.1	7.9
427276	V	46.0	16.9	14.3	3.0	27.5	49.6	5.7
430600B	V	46.9	17.6	14.2	3.0	26.3	50.3	6.3
430626	V	44.4	19.0	13.3	2.8	29.7	48.3	6.0
436563	V	44.3	17.7	11.9	3.4	27.1	51.3	6.4
436565	VI	44.5	17.6	12.4	3.1	26.2	52.2	6.0
436566	V	48.8	18.0	12.7	2.9	28.3	50.0	6.1
436568	V	45.0	17.6	13.2	3.0	26.7	50.8	6.3
437126B	VI	46.9 <sup>w</sup>	15.6 <sup>w</sup>	12.1	3.1	27.5	51.0	6.3
437126C	VI	47.9 <sup>w</sup>	16.7 <sup>w</sup>	13.7	3.0	23.1	54.0	6.2
437586B	V	44.7	19.6	12.2	2.9	22.9	55.9	6.0
437586C	V	42.6	18.8	13.5	3.1	23.9	53.3	6.3
437591	VI	48.5 <sup>w</sup>	17.2 <sup>w</sup>	12.9	3.6	25.0	51.9	6.6
437671	V	41.3	20.0	11.9	2.9	27.9	51.9	5.4
437696	VI	41.8	18.0	12.1	2.9	23.1	54.8	7.2
437717	VI	44.8	16.7	12.2	2.9	24.8	53.2	6.8
437719	V	41.0	19.0	11.4	2.8	26.2	53.5	6.1
437734	V	45.2 <sup>w</sup>	18.1 <sup>w</sup>	10.6	2.8	37.7	43.6	5.2
437813	V	45.3 <sup>w</sup>	19.1 <sup>w</sup>	12.1	3.2	24.8	53.8	6.1
438278	V	47.1	18.1	12.4	2.7	20.5	58.5	5.9
438293	V	41.1 <sup>w</sup>	19.8 <sup>w</sup>	10.9	2.6	26.3	53.7	6.5
438294	V	41.3 <sup>w</sup>	21.7 <sup>w</sup>	12.0	2.4	29.4	51.0	5.2
438297	V	44.6	19.2	12.9	3.9	22.6	55.1	5.5
438302B	V	40.2	21.7	11.8	2.6	27.6	53.4	4.5
438306	V	41.3	19.3	13.2	3.2	23.4	54.9	5.4
438343	V	42.7	21.3	12.3	3.4	32.3	47.3	4.7
438344	V	45.8	19.6	13.7	3.5	25.1	51.9	5.8
438425	V	45.9	18.0	13.4	2.8	26.3	52.2	5.4
442003A	V	44.9	17.4	14.4	2.8	25.4	51.2	6.2
442009A	V	48.2 <sup>w</sup>	18.0 <sup>w</sup>	12.2	2.9	16.4	60.9	7.6
442009B	V	46.1 <sup>w</sup>	19.9 <sup>w</sup>	10.4	3.1	21.1	58.4	7.0
442017	V	43.4	20.1	12.7	3.3	26.5	52.2	5.4

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
458024B		Kyonggi	South Korea	South Korea	1981	V
458025		Kyonggi	South Korea	South Korea	1981	V
458027		Kyonggi	South Korea	South Korea	1981	VI
458028		Kyonggi	South Korea	South Korea	1981	V
458032		Kangwon	South Korea	South Korea	1981	V
458033		Kangwon	South Korea	South Korea	1981	V
458044		Kangwon	South Korea	South Korea	1981	V
458045B		Kangwon	South Korea	South Korea	1981	V
458048		Kangwon	South Korea	South Korea	1981	V
458054		Kangwon	South Korea	South Korea	1981	V
458058		Kangwon	South Korea	South Korea	1981	V
458059		Kangwon	South Korea	South Korea	1981	VI
458068		Kangwon	South Korea	South Korea	1981	V
458069		Kangwon	South Korea	South Korea	1981	V
458070C		Kangwon	South Korea	South Korea	1981	V
458070D		Kangwon	South Korea	South Korea	1981	V
458072B		Kangwon	South Korea	South Korea	1981	V
458073		Kangwon	South Korea	South Korea	1981	V
458076		Kangwon	South Korea	South Korea	1981	V
458081		Kangwon	South Korea	South Korea	1981	V
458083		Kangwon	South Korea	South Korea	1981	V
458085B		Kangwon	South Korea	South Korea	1981	V
458091		Kangwon	South Korea	South Korea	1981	V
458092		Kangwon	South Korea	South Korea	1981	VI
458093		Kangwon	South Korea	South Korea	1981	V
458094		Kangwon	South Korea	South Korea	1981	V
458096		Kangwon	South Korea	South Korea	1981	V
458097		Kangwon	South Korea	South Korea	1981	V
458099		Kangwon	South Korea	South Korea	1981	V
458100		Kangwon	South Korea	South Korea	1981	V
458102		Kangwon	South Korea	South Korea	1981	V
458107		Kangwon	South Korea	South Korea	1981	VI
458108		Kangwon	South Korea	South Korea	1981	V
458124		Chungchong Nam	South Korea	South Korea	1981	VI
458126		Chungchong Nam	South Korea	South Korea	1981	V
458127		Chungchong Nam	South Korea	South Korea	1981	V
458128		Chungchong Nam	South Korea	South Korea	1981	V
458130		Chungchong Nam	South Korea	South Korea	1981	V
458143		Chungchong Nam	South Korea	South Korea	1981	V
458146		Chungchong Nam	South Korea	South Korea	1981	V
458150A		Chungchong Nam	South Korea	South Korea	1981	V
458150B		Chungchong Nam	South Korea	South Korea	1981	VI
458150C		Chungchong Nam	South Korea	South Korea	1981	V
458153		Chungchong Nam	South Korea	South Korea	1981	V
458154		Chungchong Puk	South Korea	South Korea	1981	VI
458159		Cholla Puk	South Korea	South Korea	1981	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
458024B	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
458025	V	D	W	T	Sa	N	Br	I	Gn	Brbl	Vhil	2N
458027	VI	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
458028	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
458032	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
458033	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr	Snet	3N
458044	V	N	P	G	Sa	N	Br	I	Y	Bf		3N
458045B	V	D	P	T	E	Ssp	Br	I	Gn	Gn	Gnc	3N
458048	V	D	P	G	Sa	Ssp	Br	I	Y	G	Def	3N
458054	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
458058	V	D	P	G	Sa	Ssp	Br	I	Y	Y	Sdef	3N
458059	VI	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Net	3N
458068	V	N	P	G	E	Ssp	Br	I	Y	Y		3N
458069	V	D	W	T	A	Ssp	Br	I	Bl	Bl	Snet	2N
458070C	V	D	W	T	A	Ssp	Br	I	Bl	Bl	Snet	3N
458070D	V	D	W	T	A	Ssp	Br	I	Bl	Bl	Snet	2N
458072B	V	D	P	G	E	Ssp	Br	I	Y	Y		3N
458073	V	D	P	T	A	Ssp	Br	I	Gn	Br	Gnc	3N
458076	V	S	P	T	Sa	Ssp	Br	I	Bl	Bl		2N
458081	V	D	W	G	Sa	N	Tn	D	Y	Y		3N
458083	V	D	P	T	Sa	Ssp	Bl	I	Rbr	Rbr	Snet	3N
458085B	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
458091	V	D	P	T	E	Ssp	Br	I	Rbr	Rbr		3N
458092	VI	N	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
458093	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
458094	V	D	P	G	E	N	Bl	D	Gn	Lbf	Gnc	2N
458096	V	D	W	G	E	N	Tn	I	Y	Y		3N
458097	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
458099	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458100	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458102	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc	2N
458107	VI	N	P	Ng	E	Ssp	Bl	I	Gnbr	Gnbr		4N
458108	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458124	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458126	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
458127	V	D	W	G	Sa	N	Tn	I	Y	Y		2N
458128	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl	Snet	3N
458130	V	D	W	T	Sa	Ssp	Br	I	G	Bl		2N
458143	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr	Net	3N
458146	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
458150A	V	D	P	G	E	Ssp	Br	D	Y	Y		2N
458150B	VI	D	P	G	E	Ssp	Br	D	Y	Y	Sdef	3N
458150C	V	D	P	G	E	Ssp	Br	I	Y	Y	Def	2N
458153	V	D	P	T	E	Ssp	Br	I	Gn	Brbl		2N
458154	VI	D	P	G	E	N	Tn	I	Y	Bf		3N
458159	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
458024B	623	929	3.0	53	2.0	2.5	2.5	--	22.3*	2.04
458025	705	925	4.0	57	2.0	2.5	2.3	3.5	8.6	1.13
458027	629	1003	2.5	51	2.0	3.0	3.5	1.0	31.5*	1.65
458028	625	921	2.0	52	1.0	1.5	3.3	1.0	19.2	1.55
458032	630	922	3.0	48	1.0	2.0	3.5	2.5	18.6	1.46
458033	625	1001	2.5	58	1.0	1.5	2.0	--	20.4*	1.91
458044	625	928	4.5	120*	2.0	2.5	3.8	2.0	19.1	1.83
458045B	625	917	3.0	48	1.0	1.5	3.5	1.0	17.9*	1.68
458048	623	930	2.5	50	1.0	1.5	3.5	1.5	25.8*	1.63
458054	625	917	2.5	41	1.0	1.5	2.8	--	18.0	1.39
458058	620	920	3.0	63	2.0	2.5	3.0	1.5	23.3	2.31
458059	623	1003	2.5	43*	2.0	2.5	2.3	--	20.2	1.20
458068	621	921	5.0	117*	1.5	2.0	3.5	2.0	17.1	1.57
458069	621	923	2.5	53	2.0	3.0	3.0	--	18.0	1.76
458070C	621	925	2.0	44*	1.0	1.5	2.8	--	20.3	0.92
458070D	625	923	2.0	44	1.0	2.0	3.3*	--	19.9	0.98
458072B	621	919	2.5	52	2.0	2.5	3.0	2.0	17.5	1.79
458073	630	927	2.5	69*	2.0	2.5	3.0	2.0	15.0	1.31
458076	621	927	5.0	113*	2.0	3.0	2.5	--	15.5	1.98
458081	630	921	2.5	37	1.0	1.5	2.0	1.5	11.6	1.51*
458083	625	927	3.0	53	2.0	2.5	3.0	--	18.9	1.19
458085B	629	905	2.5	49*	2.0	2.5	2.5	--	27.9	2.18*
458091	701	923	3.0	47	1.0	1.0	3.0	--	18.7	1.58
458092	702	1015	5.0	103	1.0	2.0	2.8	--	14.8	0.74
458093	626	925	3.0	55*	1.0	1.5	2.8	--	17.2	1.37
458094	627	921	3.0	59	1.0	1.0	2.8	3.0	16.0	1.83
458096	627	917	2.5	44*	1.0	1.0	2.8	1.0	12.7	1.90
458097	626	911*	2.5	41	1.0	1.0	2.8	1.0	12.2	2.00
458099	627	911*	2.5	39	1.0	1.5	2.8	1.0	12.0	1.89
458100	626	921	2.5	39	2.0	2.5	2.3	1.5	12.4	2.24
458102	703	923	2.5	62	2.0	3.5	2.5	2.0	12.8	1.89
458107	707	1005	5.0	160*	1.0	2.0	3.5	--	8.1	1.17
458108	625	913*	2.5	36	2.0	2.5	3.3	2.0	11.9	1.59
458124	625	1005	3.0	66*	2.0	3.0	3.5	2.0	29.6	1.58
458126	624	916	3.0	54	2.0	2.5	2.5	--	18.3	2.44
458127	626	913	2.5	40	2.0	2.5	2.3	1.5	11.8	2.24
458128	626	921	2.5	50	1.5	2.0	3.3	1.5	16.7	1.79
458130	701	923	3.0	57	2.0	3.0	3.3	2.0	8.1	2.49
458143	701	929	3.0	42	1.0	2.0	2.8	--	20.8	1.12
458146	625	918	2.5	50	2.0	2.5	2.8	--	18.4	1.70
458150A	701	916	3.0	75	2.0	2.5	2.8	2.5	18.5	2.88
458150B	702	1006	3.0	77*	1.0	1.5	3.5	1.5	21.5	1.95
458150C	625	921	2.5	44	1.0	2.5	3.0	1.5	20.9	2.02
458153	701	915	3.0	61*	1.0	1.5	2.5	1.5	21.3	2.99
458154	707	1006	4.0	58	1.5	2.5	3.0	3.0	11.0	0.79
458159	621	929	3.0	47	2.5	3.5	3.5	2.0	29.3*	1.63

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
458024B	V	44.4 <sup>w</sup>	20.3 <sup>w</sup>	10.2	2.9	20.7	59.4	6.8
458025	V	48.6 <sup>w</sup>	15.8 <sup>w</sup>	11.8	3.5	25.8	52.9	6.0
458027	VI	45.3 <sup>w</sup>	20.0 <sup>w</sup>	13.0	2.8	27.1	50.2	7.0
458028	V	46.4 <sup>w</sup>	19.0 <sup>w</sup>	12.1	3.3	21.8	56.5	6.3
458032	V	48.1 <sup>w</sup>	18.6 <sup>w</sup>	11.7	3.2	25.2	53.4	6.6
458033	V	46.1 <sup>w</sup>	17.5 <sup>w</sup>	11.3	3.5	18.5	58.3	8.5
458044	V	44.8	19.6	12.7	3.1	33.7	45.7	4.7
458045B	V	46.0 <sup>w</sup>	19.8 <sup>w</sup>	12.4	3.4	24.1	53.9	6.2
458048	V	46.7	17.9	13.6	2.9	23.6	53.5	6.5
458054	V	44.1 <sup>w</sup>	20.7 <sup>w</sup>	11.9	3.2	15.5	60.6	8.9
458058	V	44.5	19.1	12.3	3.0	21.7	56.7	6.3
458059	VI	46.5 <sup>w</sup>	18.4 <sup>w</sup>	11.9	3.4	21.6	56.3	6.9
458068	V	46.5	20.7	12.5	3.0	26.5	52.8	5.2
458069	V	47.7 <sup>w</sup>	17.2 <sup>w</sup>	14.3	3.2	15.9	59.1	7.4
458070C	V	46.8 <sup>w</sup>	16.8 <sup>w</sup>	12.5	3.1	17.4	60.1	6.9
458070D	V	47.5 <sup>w</sup>	17.7 <sup>w</sup>	12.9	3.1	19.4	58.1	6.5
458072B	V	44.0	19.6	13.4	3.0	22.9	55.1	5.6
458073	V	43.6 <sup>w</sup>	20.1 <sup>w</sup>	12.3	2.9	23.0	55.6	6.2
458076	V	44.5 <sup>w</sup>	20.0 <sup>w</sup>	10.6	5.3	24.5	54.3	5.3
458081	V	46.1	18.3	13.1	3.1	23.6	54.0	6.2
458083	V	49.6 <sup>w</sup>	16.0 <sup>w</sup>	11.0	3.2	21.0	57.6	7.2
458085B	V	46.0 <sup>w</sup>	18.2 <sup>w</sup>	11.1	3.2	26.6	53.3	5.8
458091	V	48.2 <sup>w</sup>	19.1 <sup>w</sup>	10.9	3.3	25.3	54.3	6.1
458092	VI	47.6 <sup>w</sup>	15.9 <sup>w</sup>	11.2	3.6	26.7	52.1	6.3
458093	V	47.0 <sup>w</sup>	17.6 <sup>w</sup>	11.2	3.1	21.8	58.0	6.0
458094	V	45.3 <sup>w</sup>	19.4 <sup>w</sup>	10.2	3.2	18.9	60.2	7.5
458096	V	45.3	18.7	12.8	3.0	20.5	56.8	6.9
458097	V	47.4	18.4	13.1	3.0	21.0	56.0	6.8
458099	V	44.8	18.3	13.5	3.0	21.1	55.8	6.6
458100	V	46.1	18.7	13.1	3.1	22.7	54.5	6.6
458102	V	46.1 <sup>w</sup>	18.9 <sup>w</sup>	12.0	3.4	24.7	53.8	6.1
458107	VI	47.0 <sup>w</sup>	14.0 <sup>w</sup>	11.8	3.2	16.1	59.6	9.3
458108	V	45.0	18.7	13.0	3.0	22.0	55.5	6.5
458124	VI	45.8 <sup>w</sup>	18.4 <sup>w</sup>	11.7	3.1	29.1	49.9	6.2
458126	V	46.0 <sup>w</sup>	18.8 <sup>w</sup>	10.7	3.6	21.4	57.9	6.5
458127	V	44.1	19.2	13.2	2.9	21.6	56.4	5.9
458128	V	46.3 <sup>w</sup>	17.7 <sup>w</sup>	10.9	3.5	22.8	56.1	6.7
458130	V	48.1 <sup>w</sup>	17.0 <sup>w</sup>	12.7	4.1	18.7	57.7	6.7
458143	V	45.5 <sup>w</sup>	17.5 <sup>w</sup>	10.6	3.2	25.2	54.3	6.9
458146	V	42.4 <sup>w</sup>	21.6 <sup>w</sup>	12.3	3.3	20.5	57.2	6.7
458150A	V	42.3	20.1	12.5	2.7	23.2	55.9	5.7
458150B	VI	42.9	19.5	12.8	3.2	22.2	55.5	6.3
458150C	V	43.4	18.4	11.7	3.2	22.3	55.7	7.1
458153	V	43.5 <sup>w</sup>	19.0 <sup>w</sup>	11.3	3.5	21.1	57.5	6.5
458154	VI	46.2	18.9	13.2	3.2	33.4	45.9	4.4
458159	V	46.6 <sup>w</sup>	18.4 <sup>w</sup>	12.0	2.8	25.6	53.0	6.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
458161		Cholla Puk	South Korea	South Korea	1981	V
458162		Cholla Puk	South Korea	South Korea	1981	V
458164		Cholla Puk	South Korea	South Korea	1981	V
458167		Cholla Puk	South Korea	South Korea	1981	VI
458168		Cholla Puk	South Korea	South Korea	1981	V
458170		Cholla Puk	South Korea	South Korea	1981	V
458172B		Cholla Puk	South Korea	South Korea	1981	V
458173		Cholla Puk	South Korea	South Korea	1981	V
458174		Cholla Puk	South Korea	South Korea	1981	V
458180		Cholla Nam	South Korea	South Korea	1981	V
458182		Cholla Nam	South Korea	South Korea	1981	V
458183		Cholla Nam	South Korea	South Korea	1981	V
458185		Cholla Nam	South Korea	South Korea	1981	V
458186		Cholla Nam	South Korea	South Korea	1981	V
458192		Cholla Nam	South Korea	South Korea	1981	V
458193		Cholla Nam	South Korea	South Korea	1981	V
458196		Cholla Nam	South Korea	South Korea	1981	VI
458200		Cholla Nam	South Korea	South Korea	1981	V
458214		Cholla Nam	South Korea	South Korea	1981	V
458215		Cholla Nam	South Korea	South Korea	1981	V
458219		Cholla Nam	South Korea	South Korea	1981	VI
458223		Cholla Nam	South Korea	South Korea	1981	V
458225		Cholla Nam	South Korea	South Korea	1981	V
458230B		Cholla Nam	South Korea	South Korea	1981	V
458236B		Cholla Nam	South Korea	South Korea	1981	VI
458238		Cholla Nam	South Korea	South Korea	1981	V
458239		Cholla Nam	South Korea	South Korea	1981	V
458240		Cholla Nam	South Korea	South Korea	1981	V
458245		Cholla Nam	South Korea	South Korea	1981	VI
458250		Cholla Nam	South Korea	South Korea	1981	V
458253		Cholla Nam	South Korea	South Korea	1981	V
458256		Cholla Nam	South Korea	South Korea	1981	V
458258		Cholla Nam	South Korea	South Korea	1981	V
458260		Cholla Nam	South Korea	South Korea	1981	VI
458263		Cholla Nam	South Korea	South Korea	1981	V
458264		Cholla Nam	South Korea	South Korea	1981	VI
458265		Cholla Nam	South Korea	South Korea	1981	VI
458267		Cholla Nam	South Korea	South Korea	1981	V
458268		Cholla Nam	South Korea	South Korea	1981	V
458270		Cholla Nam	South Korea	South Korea	1981	VI
458271		Cholla Nam	South Korea	South Korea	1981	V
458272		Cholla Nam	South Korea	South Korea	1981	V
458273		Cholla Nam	South Korea	South Korea	1981	V
458274		Cholla Nam	South Korea	South Korea	1981	VI
458275		Cholla Nam	South Korea	South Korea	1981	V
458278A		Cholla Nam	South Korea	South Korea	1981	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
458161	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458162	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
458164	V	D	P	T	E	N	Br	I	Bl	Bl		3N
458167	VI	D	P	G	A	Ssp	Br	I	Y	Bf		2N
458168	V	D	P	T	E	N	Br	D	Gn	G		3N
458170	V	D	P	T	A	Ssp	Br	I	Br	Br		2N
458172B	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
458173	V	D	P	T	A	Ssp	Br	I	Bl	Bl		3F
458174	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458180	V	D	P	T	E	Ssp	Br	I	Bl	Bl	Snet	3N
458182	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
458183	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
458185	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
458186	V	D	P	Lt	A	Ssp	Br	I	Bl	Bl		3N
458192	V	D	P	Lt	A	Ssp	Tn	I	Bl	Bl		3N
458193	V	D	P	T	A	Ssp	Br	I	Br	Br	Snet	3N
458196	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458200	V	D	P	T	Sa	Ssp	Br	D	Gn	Br		3N
458214	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458215	V	N	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
458219	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458223	V	D	W	T	A	Ssp	Tn	D	Gn	Bl		4N
458225	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
458230B	V	D	P	T	A	Ssp	Br	I	Bl	Bl		2N
458236B	VI	D	P	G	A	Ssp	Bl	I	Gn	Ib		3N
458238	V	N	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
458239	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Snet	3N
458240	V	D	P	G	A	Ssp	Bl	I	Gn	Bf		3N
458245	VI	D	P	T	Sa	N	Br	D	Gn	Bl		3N
458250	V	D	P	G	E	Ssp	Br	D	Gn	Gn	Gnc	3N
458253	V	N	P	T	Sa	N	Br	D	Y	Br		4N
458256	V	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
458258	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
458260	VI	D	P	T	E	N	Tn	I	Gn	Bl		3N
458263	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	2N
458264	VI	D	P	T	E	Ssp	Br	I	Gn	Bl	Vsc	3N
458265	VI	N	P	T	E	Ssp	Br	I	Bl	Bl		3N
458267	V	D	P	Lt	A	Ssp	Br	D	Gn	Gn	Gnc	2N
458268	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
458270	VI	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Gnc	3N
458271	V	D	W	T	Sa	N	Br	I	Gn	Brbl		2N
458272	V	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
458273	V	D	P	G	Sa	N	Tn	I	Y	Y		3N
458274	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458275	V	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
458278A	V	D	P	T	A	Ssp	Br	B	Bl	Bl		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
458161	623	913*	2.0	41	2.0	2.5	2.8	1.0	12.2	1.96
458162	611	919	3.0	45	2.0	2.5	2.8	--	19.0	1.72
458164	627	927	3.0	55	1.0	1.5	2.5	--	9.2	1.36
458167	705	1003	3.5	81*	1.0	1.5	2.5	2.5	9.0	1.86
458168	701	923	2.5	55	1.0	1.5	3.0	3.0	20.6	1.81
458170	703	923	3.0	52	1.0	2.0	2.5	--	10.7	0.89
458172B	623	923	3.0	37	2.0	2.5	3.0	--	22.3	1.17*
458173	627	927	3.0	62*	1.0	2.0	3.0	--	23.7	1.92
458174	623	930	2.5	56	2.0	2.5	3.3	2.0	30.4	1.54
458180	629	927	3.0	62*	2.0	2.5	3.0	--	19.4*	1.39
458182	701	925	3.0	67*	2.0	2.5	3.0	--	19.4	0.95
458183	701	923	3.5	52*	2.0	3.0*	3.3	--	20.4	1.54
458185	701	923	2.5	42	2.0	2.5	3.3	--	20.1	1.21*
458186	703	929	4.0	61	2.0	3.0*	2.5	--	8.4	0.76
458192	708	929	4.0	67	2.0	2.5	2.8	--	7.4	1.02
458193	626	929	2.5	49	2.0	3.0	3.3	--	23.8	1.10
458196	626	1003	2.5	59*	2.0	3.0	3.3	1.5	29.6	1.73
458200	709	928	3.0	83*	2.0	2.5	2.3	2.0	10.7	1.61
458214	625	917	2.5	38	1.0	1.5	3.0	1.0	12.9	1.57
458215	703	1001	3.5	108	1.0	2.0	2.8	--	11.8	1.28
458219	626	1007	3.5*	51	2.0	3.0	3.3	1.5	29.7	1.63
458223	701	909	3.0	61*	2.0*	3.5*	2.5	4.0*	9.0	2.52
458225	629	923	3.5	57	2.0	2.5	2.5	--	12.4	2.07
458230B	629	907	3.0	60	2.0	2.5	2.0	--	17.6	3.01
458236B	715	1008	3.5	72*	1.0	2.0	2.8	5.0	8.5	1.24
458238	621	925*	4.5	100	2.0	2.5	2.8	--	20.2	1.60
458239	707	927	4.5	63	2.0	2.5	2.8	--	23.3	1.55
458240	629	916	4.0	69*	2.5	3.0*	2.0	3.5*	8.0	2.65
458245	701	1009*	3.0	57	2.0	3.0	3.5	1.5	29.2	1.50
458250	630	917	3.0	65*	2.5	3.0*	3.5	1.5	24.0	1.63
458253	701	915	4.0*	124*	3.5	4.5	3.3*	3.5	10.1	2.05
458256	627	907	3.5*	66	2.5	4.0*	3.0	1.0	25.3	2.85
458258	627	926	2.5	58*	2.0	2.5	3.0	--	21.5	1.08
458260	707	1004	3.0	80*	1.0	1.5	3.0	2.0	8.3	1.55
458263	701	928*	3.5	46	1.5	2.0*	2.0	--	19.9	1.39
458264	630	1007	3.0	100*	1.0	1.5	4.0	1.5	20.1	1.77
458265	703	1003	5.0	116*	1.0	2.5	3.0	--	17.4	1.01
458267	709	923	3.5	73*	2.0	2.5	2.5	1.5	11.0	1.18
458268	701	927	3.0	43*	2.0	2.5	2.5	--	20.5	1.20
458270	709	1013	3.5	75*	1.5	2.5	3.3	2.0	24.0	1.01
458271	705	922	4.0	58	2.0	3.0	2.5	4.5	7.7	1.33
458272	623	915	3.0	45*	2.0	2.5	2.5	5.0	20.0	1.63
458273	625	911	3.0	83*	1.0	2.0*	2.8	1.5	7.9	2.60
458274	626	1003	2.5	47	2.0	2.5	3.3	1.0	26.8	1.89*
458275	703	925	3.0	54	1.0	1.5	3.0	--	15.5	1.42
458278A	703	922	3.5	55	2.0	3.0	2.5	--	12.8	1.21



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
458161	V	46.0	19.2	13.0	3.1	21.9	55.3	6.7
458162	V	49.3 <sup>w</sup>	16.7 <sup>w</sup>	11.6	2.8	19.6	58.7	7.3
458164	V	46.2 <sup>w</sup>	17.8 <sup>w</sup>	11.1	3.9	21.4	57.3	6.3
458167	VI	46.4 <sup>w</sup>	16.1 <sup>w</sup>	11.8	3.5	19.9	58.5	6.4
458168	V	40.9 <sup>w</sup>	19.4 <sup>w</sup>	12.2	3.4	21.5	56.0	7.0
458170	V	44.8 <sup>w</sup>	17.7 <sup>w</sup>	13.0	3.6	24.1	52.8	6.4
458172B	V	46.6 <sup>w</sup>	18.4 <sup>w</sup>	11.6	4.3	26.3	52.1	5.7
458173	V	48.0 <sup>w</sup>	17.2 <sup>w</sup>	11.9	3.8	19.4	58.3	6.6
458174	V	44.0 <sup>w</sup>	19.1 <sup>w</sup>	12.0	3.0	29.1	49.8	6.0
458180	V	47.5 <sup>w</sup>	16.7 <sup>w</sup>	12.4	3.8	22.4	54.8	6.6
458182	V	45.6 <sup>w</sup>	19.8 <sup>w</sup>	10.6	3.9	22.6	56.4	6.4
458183	V	44.9 <sup>w</sup>	17.0 <sup>w</sup>	10.8	3.6	21.8	56.4	7.4
458185	V	44.7 <sup>w</sup>	17.8 <sup>w</sup>	11.0	3.3	20.6	57.5	7.6
458186	V	51.3 <sup>w</sup>	14.2 <sup>w</sup>	14.1	4.0	22.2	52.8	6.8
458192	V	50.7 <sup>w</sup>	14.1 <sup>w</sup>	13.9	4.9	19.6	54.3	7.3
458193	V	43.9 <sup>w</sup>	19.8 <sup>w</sup>	11.2	3.6	28.5	50.6	6.1
458196	VI	46.5 <sup>w</sup>	18.2 <sup>w</sup>	12.1	3.1	26.5	51.4	6.8
458200	V	43.7 <sup>w</sup>	19.6 <sup>w</sup>	11.9	3.6	23.7	54.9	5.9
458214	V	45.2	18.8	13.5	3.0	20.6	56.3	6.6
458215	V	46.0 <sup>w</sup>	15.3 <sup>w</sup>	11.1	3.7	25.4	53.6	6.2
458219	VI	45.6 <sup>w</sup>	18.3 <sup>w</sup>	11.7	3.2	29.9	48.7	6.5
458223	V	45.3 <sup>w</sup>	18.1 <sup>w</sup>	10.9	3.6	26.9	53.6	4.9
458225	V	44.5 <sup>w</sup>	17.6 <sup>w</sup>	11.9	3.3	19.7	58.5	6.6
458230B	V	45.7 <sup>w</sup>	17.7 <sup>w</sup>	11.9	3.1	22.6	56.4	6.0
458236B	VI	47.2 <sup>w</sup>	14.1 <sup>w</sup>	11.9	3.2	18.8	58.4	7.7
458238	V	46.9 <sup>w</sup>	18.3 <sup>w</sup>	11.5	2.9	38.3	42.9	4.5
458239	V	47.2 <sup>w</sup>	17.7 <sup>w</sup>	11.3	4.0	21.6	56.1	7.0
458240	V	44.7 <sup>w</sup>	18.5 <sup>w</sup>	11.6	3.0	19.1	59.9	6.3
458245	VI	46.0 <sup>w</sup>	19.1 <sup>w</sup>	12.7	3.5	28.4	49.0	6.3
458250	V	43.8 <sup>w</sup>	20.9 <sup>w</sup>	10.5	3.8	24.6	54.8	6.3
458253	V	48.3 <sup>w</sup>	17.4 <sup>w</sup>	12.8	3.5	25.9	51.4	6.4
458256	V	47.6	19.5	13.1	2.6	24.9	54.4	4.9
458258	V	48.1 <sup>w</sup>	18.1 <sup>w</sup>	11.9	3.8	19.8	57.6	6.8
458260	VI	47.7 <sup>w</sup>	15.2 <sup>w</sup>	13.1	4.4	22.5	52.6	7.4
458263	V	45.5 <sup>w</sup>	17.9 <sup>w</sup>	10.3	3.2	24.0	55.9	6.7
458264	VI	43.4 <sup>w</sup>	20.5 <sup>w</sup>	11.3	3.6	31.4	48.3	5.4
458265	VI	49.5 <sup>w</sup>	17.2 <sup>w</sup>	11.9	3.9	27.9	50.5	5.8
458267	V	47.7 <sup>w</sup>	17.0 <sup>w</sup>	11.2	3.4	22.2	56.4	6.9
458268	V	45.0 <sup>w</sup>	19.2 <sup>w</sup>	10.9	3.0	19.7	58.9	7.6
458270	VI	48.5 <sup>w</sup>	16.4 <sup>w</sup>	13.5	3.3	24.4	51.4	7.4
458271	V	47.8 <sup>w</sup>	16.6 <sup>w</sup>	12.2	3.6	26.5	51.5	6.2
458272	V	45.2 <sup>w</sup>	18.3 <sup>w</sup>	11.9	3.4	21.1	56.6	7.1
458273	V	45.9	19.0	13.5	3.1	24.3	53.8	5.2
458274	VI	44.9 <sup>w</sup>	19.8 <sup>w</sup>	12.8	3.0	26.6	51.2	6.4
458275	V	45.6 <sup>w</sup>	19.5 <sup>w</sup>	11.6	3.7	24.5	54.3	6.0
458278A	V	47.6 <sup>w</sup>	17.2 <sup>w</sup>	12.1	2.9	27.0	51.9	6.0

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
458278B		Cholla Nam	South Korea	South Korea	1981	V
458279		Cholla Nam	South Korea	South Korea	1981	V
458281A		Cholla Nam	South Korea	South Korea	1981	VI
458281B		Cholla Nam	South Korea	South Korea	1981	V
458283		Cholla Puk	South Korea	South Korea	1981	V
458284		Cholla Puk	South Korea	South Korea	1981	V
458285		Cholla Puk	South Korea	South Korea	1981	V
458289		Kyongsang Nam	South Korea	South Korea	1981	V
458291		Kyongsang Nam	South Korea	South Korea	1981	V
458292		Kyongsang Nam	South Korea	South Korea	1981	V
458293		Kyongsang Nam	South Korea	South Korea	1981	V
458297		Kyongsang Nam	South Korea	South Korea	1981	V
458300		Kyongsang Nam	South Korea	South Korea	1981	V
458305		Kyongsang Nam	South Korea	South Korea	1981	VI
458306B		Kyongsang Nam	South Korea	South Korea	1981	V
464933	Su xie No. 1	Jiangsu	China	China	1982	V
468967	86	unknown	Vietnam	Vietnam	1982	V
471931		unknown	Nepal	Japan	1982	V
471934		unknown	Nepal	Japan	1982	V
471938		unknown	Nepal	Japan	1982	V
471942		unknown	Nepal	Japan	1982	V
476879	Bach hoa thao moc chau	(north)	Vietnam	Vietnam	1983	V
476883	Can tho 2	(south)	Vietnam	Vietnam	1983	V
476889	Den bac ha	(north)	Vietnam	Vietnam	1983	V
476890	Den cao bang	(north)	Vietnam	Vietnam	1983	V
476891	Den nguyen duong	(north)	Vietnam	Vietnam	1983	V
476894	DT 1	unknown	Vietnam	Vietnam	1983	V
476895	Hatto hai vu may den	(south)	Vietnam	Vietnam	1983	V
476901	Mo qua kien thuy mat den	(north)	Vietnam	Vietnam	1983	V
476908	SO 82	unknown	Vietnam	Vietnam	1983	VI
476910	Thai cao	(north)	Vietnam	Vietnam	1983	VI
476912	Tho xuan	(north)	Vietnam	Vietnam	1983	V
476913	Thua pet	(north)	Vietnam	Vietnam	1983	V
476915	Tra linh	(north)	Vietnam	Vietnam	1983	V
476917	Trung quoc mat den	unknown	China	China	1983	V
476920	Tung nghia 2	(south)	Vietnam	Vietnam	1983	V
476921	Tuqui xanh a	(north)	Vietnam	Vietnam	1983	VI
476924	Vang 94	(north)	Vietnam	Vietnam	1983	V
476929	Van kieu	(north)	Vietnam	Vietnam	1983	VI
476931	Xanh ha bac	(north)	Vietnam	Vietnam	1983	V
476932	Xanh tien dai	(north)	Vietnam	Vietnam	1983	VI
476933	Xanh xuan mai	(north)	Vietnam	Vietnam	1983	V
476943	DT 74	(north)	Vietnam	Vietnam	1983	V
483083	L-B	Kyonggi	South Korea	South Korea	1983	V
495019	Sui dao huang	Beijing	China	China	1985	V
504288		Iwate	Japan	Japan	1986	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
458278B	V	D	W	Lt	Sa	Sdn	Tn	I	Rbr	Rbr		2N
458279	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458281A	VI	N	W	G	E	N	Tn	I	Y	Bf		3N
458281B	V	D	P	G	E	N	Tn	I	Y	Y		4N
458283	V	D	P	G	Sa	N	Tn	I	Y	Y		3N
458284	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
458285	V	D	P	T	E	Ssp	Tn	I	Y	Tn	Vhil	3N
458289	V	D	P	G	Sa	Ssp	Br	D	Y	Y		3N
458291	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458292	V	D	P	G	Sa	Ssp	Br	D	Gn	Bf	Gnc	3N
458293	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
458297	V	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		3N
458300	V	D	P	T	A	Ssp	Br	I	Bl	Bl	Net	3N
458305	VI	D	P	T	Sa	Ssp	Br	D	Gn	Bl		3N
458306B	V	D	P	T	Sa	N	Br	I	Gn	Br		3N
464933	V	D	W	G	A	Ssp	Tn	I	Y	Bf		4N
468967	V	N	P	Lt	A	Ssp	Br	D	Y	Bl		3N
471931	V	D	W	G	E	N	Tn	S	Y	Y		3N
471934	V	D	W	T	A	N	Br	I	Br	Br		3N
471938	V	D	P	G	A	N	Tn	I	Y	Y		3N
471942	V	D	W	T	A	N	Br	I	Br	Br		3N
476879	V	N	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
476883	V	N	P	Lt	A	N	Br	I	Y	Brbl	Vhil	4N
476889	V	N	W	T	A	N	Br	I	Bl	Bl		3N
476890	V	S	P	T	A	Ssp	Br	I	Bl	Bl		3F
476891	V	N	W	T	A	N	Br	I	Bl	Bl		3N
476894	V	D	P	G	A	N	Br	I	Y	Bf		3N
476895	V	N	P	T	A	N	Tn	I	Y	Br		3N
476901	V	N	P	T	Sa	Ssp	Br	D	Y	Brbl		3N
476908	VI	N	P	T	A	N	Br	I	Gn	Br		3N
476910	VI	N	P	T	A	N	Br	I	Gn	Br		3N
476912	V	N	P	G	A	N	Br	I	Y	Bf		3N
476913	V	S	P	T	A	N	Br	I	Y	Br		3N
476915	V	D	P	T	Sa	N	Br	I	Y	Br		3N
476917	V	D	W	T	A	N	Br	I	Y	Br		3N
476920	V	S	P	T	A	Ssp	Br	I	Y	Bl		3N
476921	VI	S	P	T	A	N	Br	I	Gn	Br		3N
476924	V	D	P	T	A	N	Br	I	Y	Brbl	Vhil	4N
476929	VI	S	P	T	A	N	Br	I	Y	Br		4N
476931	V	S	P	T	A	N	Br	I	Gn	Br		4N
476932	VI	S	P	T	A	N	Br	I	Gn	Br		3N
476933	V	S	P	G	A	N	Br	I	Gn	Bf		4n
476943	V	S	W	T	A	N	Br	I	Y	Br		3N
483083	V	D	P	T	Sa	Ssp	Br	I	Rbr	Rbr	Snet	3N
495019	V	D	P	T	A	N	Tn	I	Y	Bl		3N
504288	V	N	Dp	T	A	N	Bl	B	Bl	Bl	Flk, Sw	5F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
458278B	626	921	2.5	48	1.0	1.0	2.8*	--	12.3	1.59
458279	625	915	3.0*	38	1.0	1.0	2.3	1.5	12.6	2.23
458281A	703	1007	3.5	109*	2.0	3.0	3.3	2.0	9.6	1.25
458281B	709	927	3.0	73	1.0	1.5	3.5	2.5	9.9	0.78
458283	626	913	3.0	51	1.0	2.0	2.5	1.0	8.0	2.74
458284	703	927	3.0	60*	1.5	2.5	2.5	--	16.9	1.38
458285	703	920	3.5	59	1.0	1.5	2.5	3.0	7.2	1.87
458289	627	1001	2.5	61	1.5	2.5	3.5	2.0	23.6	1.36
458291	625	916	3.0	52	2.0	2.5	3.5	2.0	13.9	1.61
458292	625	919	3.5	65	2.0	2.5	2.8	2.0	19.9	2.16
458293	623	917	2.5	40	1.0	1.5	2.3	1.5	12.2	2.26
458297	701	929	3.0	63	2.0	3.0	2.5	--	20.5*	1.86
458300	702	917	3.5	54*	2.0	2.5	2.5	--	20.7	2.21
458305	701	1003	3.0	59*	2.0	3.0	3.8	1.5	28.0	1.09
458306B	703	1002	3.0	75*	2.0	2.5	2.8	2.0	15.3	2.07
464933	707	927	3.0	97	1.0	2.0	3.3	2.0	14.6	2.20
468967	704	917	4.0	95*	2.5	3.5	3.0	2.5	20.9	3.58
471931	701	915	2.5	81*	2.0	2.5	2.5	1.0	10.9	3.13
471934	705	929	2.0	79*	2.0	2.5	3.3*	--	15.9	1.47
471938	707	927	3.0	84*	1.0	1.0	2.8	1.5	12.6	2.59
471942	709	1002*	3.5	79*	1.5	2.0*	3.5	--	16.3	1.24
476879	709	916	4.0	86*	3.0	4.5	2.0	3.0	7.5	1.54*
476883	706	925*	4.5	97	2.5	4.5	3.3	2.0	10.5	0.69
476889	701	905	3.5	104*	3.5	4.5	2.3	--	10.4	2.47
476890	705	1002	5.0	109	2.0	2.5	3.0	--	10.0	1.23
476891	701	905	4.5	105*	3.0	5.0	2.8	--	13.1	2.02
476894	701	911	4.0	78*	2.5	4.0*	2.8*	1.0	13.9	3.19
476895	704	909	4.0	86	3.0	4.5	2.0	2.0	9.7	1.70
476901	703	915	4.0	102*	2.5	3.5*	3.5	2.0	22.6*	2.51*
476908	728	1011	4.5	112*	1.5	2.5	3.5	3.0	9.4	0.59
476910	726	1005	5.0	113*	2.0	3.0	3.5	3.0	9.0	0.46
476912	708	912	4.0	94*	2.5	4.0*	2.3	2.0	9.2	2.25
476913	707	918	4.0	106	2.0	3.5	2.5	3.5	8.3	2.18
476915	707	919	4.0	89	2.0	3.0	2.5	3.0	8.6	1.71
476917	701	907	4.0	82*	3.0	4.5	2.0	1.0	12.3	2.31
476920	708	913	4.0	105	2.5	3.5	2.5	2.0	8.5	2.02*
476921	731	1010	5.0	101*	1.5	2.5	3.0	3.0	8.7	0.81
476924	703	930	4.5	101*	2.0	3.5	3.3	1.5	12.5	1.60
476929	727	1011	5.0	163*	2.0	3.5	3.8	3.5	9.8	0.32
476931	719	925	5.0	103*	3.0	4.0	3.8*	2.5	10.1	0.72
476932	727	1007	5.0	106	2.0	3.0	3.5	3.0	9.1	0.96
476933	717	925	5.0	103	2.5	4.0*	3.5	3.0	7.5	0.38
476943	709	929	5.0	108*	2.5	4.5	3.0	2.0	12.0	1.80
483083	625	925	2.5	47	1.0	1.5	2.8	--	24.4	1.88
495019	705	923	3.0	90*	2.5	3.5	3.0	1.0	15.7	2.18
504288	713	930	5.0	100	2.0	3.5	3.0^	--	2.1^	0.26^

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
458278B	V	44.5 <sup>w</sup>	18.6 <sup>w</sup>	12.9	3.4	20.3	56.6	6.8
458279	V	44.8	19.1	13.1	3.0	23.0	55.0	5.9
458281A	VI	44.6	19.1	12.3	3.8	26.1	53.1	4.6
458281B	V	46.7	17.7	13.2	3.8	24.7	53.3	5.1
458283	V	46.0	19.0	13.4	3.3	24.4	53.7	5.3
458284	V	44.9 <sup>w</sup>	18.3 <sup>w</sup>	11.7	3.4	23.4	54.9	6.6
458285	V	43.8	18.3	12.8	3.4	24.2	53.7	5.9
458289	V	42.5	20.3	12.2	3.1	24.6	54.0	6.1
458291	V	46.5	20.2	13.5	2.9	24.9	53.1	5.6
458292	V	44.9 <sup>w</sup>	20.9 <sup>w</sup>	11.2	3.3	21.5	57.4	6.5
458293	V	45.6	18.5	12.9	3.0	21.2	56.4	6.5
458297	V	47.1 <sup>w</sup>	18.5 <sup>w</sup>	12.5	3.3	20.4	58.1	5.8
458300	V	45.5 <sup>w</sup>	19.5 <sup>w</sup>	11.6	3.4	18.6	59.1	7.4
458305	VI	45.4 <sup>w</sup>	19.6 <sup>w</sup>	12.2	3.2	24.0	53.9	6.7
458306B	V	41.0 <sup>w</sup>	21.1 <sup>w</sup>	12.4	3.1	19.8	58.5	6.3
464933	V	48.7	17.6	14.7	2.9	29.7	47.9	4.9
468967	V	43.4	20.0	12.5	3.3	25.5	52.9	5.9
471931	V	39.3	22.5	12.7	3.0	21.0	57.0	6.2
471934	V	46.5 <sup>w</sup>	17.9 <sup>w</sup>	13.0	3.4	23.4	54.1	6.2
471938	V	39.4	21.0	12.2	3.4	23.6	54.8	6.0
471942	V	47.2 <sup>w</sup>	16.7 <sup>w</sup>	13.5	3.3	23.6	53.7	5.9
476879	V	40.6	18.7	12.9	3.4	27.0	51.6	5.1
476883	V	44.4	16.9	12.9	3.3	31.1	47.5	5.3
476889	V	45.2 <sup>w</sup>	14.6 <sup>w</sup>	12.0	2.6	23.5	54.3	7.6
476890	V	46.8 <sup>w</sup>	15.1 <sup>w</sup>	12.2	3.3	21.4	56.6	6.6
476891	V	45.1 <sup>w</sup>	17.2 <sup>w</sup>	12.2	2.7	31.8	48.0	5.2
476894	V	43.6	18.4	12.3	3.0	27.1	52.1	5.4
476895	V	43.4	18.2	13.5	3.4	32.8	45.2	5.2
476901	V	44.1	20.5	12.9	3.2	26.6	51.5	5.8
476908	VI	46.7 <sup>w</sup>	15.8 <sup>w</sup>	13.3	4.3	28.8	47.8	5.7
476910	VI	45.9 <sup>w</sup>	16.3 <sup>w</sup>	13.8	3.9	28.7	47.4	6.3
476912	V	45.2	16.7	12.4	3.6	27.6	51.0	5.4
476913	V	45.5 <sup>w</sup>	16.7 <sup>w</sup>	13.1	3.6	23.5	53.1	6.7
476915	V	42.6	17.6	13.2	3.6	26.6	51.0	5.7
476917	V	44.2	17.9	12.4	2.9	24.2	54.0	6.5
476920	V	46.4	18.3	12.4	3.7	24.4	53.7	5.8
476921	VI	45.2 <sup>w</sup>	16.6 <sup>w</sup>	13.0	4.6	27.5	48.8	6.1
476924	V	47.1	15.4	14.5	2.6	22.5	53.3	7.1
476929	VI	47.1 <sup>w</sup>	14.7 <sup>w</sup>	12.8	3.2	30.1	47.8	6.1
476931	V	45.7 <sup>w</sup>	16.0 <sup>w</sup>	13.2	3.5	21.2	54.0	8.1
476932	VI	44.6 <sup>w</sup>	16.6 <sup>w</sup>	12.8	4.1	25.0	51.1	7.0
476933	V	48.2 <sup>w</sup>	14.5 <sup>w</sup>	13.2	4.3	24.8	50.8	6.9
476943	V	43.7	18.3	12.2	3.3	27.2	51.8	5.6
483083	V	43.9 <sup>w</sup>	20.3 <sup>w</sup>	11.7	3.2	22.5	55.6	6.9
495019	V	45.7	17.4	14.6	3.0	25.1	50.7	6.5
504288	V	50.4 <sup>w^</sup>	8.2 <sup>w^</sup>	13.0 <sup>^</sup>	4.0 <sup>^</sup>	14.5 <sup>^</sup>	58.7 <sup>^</sup>	9.8 <sup>^</sup>

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
504495	Kaohsiung No. 2	unknown	Taiwan	Taiwan	1986	V
504510	OCB 81	unknown	Thailand	Taiwan	1986	V
506472	3	Kanto	Japan	Japan	1986	V
506474	20-6-10	Tohoku	Japan	Japan	1986	V
506485	Aizu mame	Tohoku	Japan	Japan	1986	V
506487	Aka daizu	Kanto	Japan	Japan	1986	V
506489	Akaho	Tohoku	Japan	Japan	1986	V
506492	Akasaya	Kinki	Japan	Japan	1986	V
506517	Akita zairai (1)	Tohoku	Japan	Japan	1986	V
506518	Akita zairai (2)	Tohoku	Japan	Japan	1986	VI
506522	Akuden shirazu	Tohoku	Japan	Japan	1986	V
506535	Ao chouhin 4	Kanto	Japan	Japan	1986	V
506541	Ao chouhin 9	Kanto	Japan	Japan	1986	V
506549	Ao chouhin 16 (Muraski Bana)	Tohoku	Japan	Japan	1986	V
506550A	Ao chouhin 16 (Shiro Bana)	Tohoku	Japan	Japan	1986	V
506550B	(Ao chouhin 16 (Shiro Bana))	Tohoku	Japan	Japan	1986	V
506552	Ao daizu	Kanto	Japan	Japan	1986	V
506553	Ao daizu	Kanto	Japan	Japan	1986	V
506558	Ao hira	Tohoku	Japan	Japan	1986	V
506565	Aobata	Kanto	Japan	Japan	1986	V
506582	Asahi 60	Kinki	Japan	Japan	1986	V
506583	Asahi mame (Tairyuu)	Kinki	Japan	Japan	1986	V
506586	Azuki mame	Tohoku	Japan	Japan	1986	V
506594	Bittari mame	Tohoku	Japan	Japan	1986	V
506597	Byoutou shushitou 1	Kinki	Japan	Japan	1986	V
506598	Cha	Kanto	Japan	Japan	1986	V
506605	Chino zairai (3)	Kanto	Japan	Japan	1986	VI
506630	Chouhin hitashi 20	Tohoku	Japan	Japan	1986	V
506639	Chuukyousan (Tokiwa Seifun)	Kanto	Japan	Japan	1986	V
506647	D 4 (Shirobeso)	Kyushu	Japan	Japan	1986	V
506651	Dai ichi Hienuki 10-3	Kanto	Japan	Japan	1986	V
506660	Date ao	Tohoku	Japan	Japan	1986	V
506666	Echigo baka	Kanto	Japan	Japan	1986	V
506668	Fuji otome	Kanto	Japan	Japan	1986	V
506694	Gioo	Kanto	Japan	Japan	1986	V
506707	Hachikoku	unknown	Japan	Japan	1986	V
506713	Hagishina daizu	Kanto	Japan	Japan	1986	V
506717	Hakushuu 1	Tohoku	Japan	Japan	1986	V
506718	Hakushuu 1 (Shirome)	Kanto	Japan	Japan	1986	V
506729	Hato goroshi 12	Tohoku	Japan	Japan	1986	V
506730	Hato koroshi 4	Tohoku	Japan	Japan	1986	V
506733B	(Heijou)	Hokuriku	Japan	Japan	1986	VI
506738	Hikage shirazu	Kanto	Japan	Japan	1986	VI
506744	Hira mame	Tohoku	Japan	Japan	1986	VI
506745	Hirai 1	Kanto	Japan	Japan	1986	V
506746	Hiraishi	Tohoku	Japan	Japan	1986	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
504495	V	D	P	G	Sa	N	Br	D	Gn	Bf		3N
504510	V	D	P	T	A	N	Tn	I	Y	Br		3N
506472	V	D	P	G	A	N	Br	I	Y	Y		3N
506474	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
506485	V	D	W	G	A	Ssp	Br	I	Gn	Gn		3N
506487	V	D	W	G	Sa	Ssp	Br	I	Rbf	Rbf	Snet	2N
506489	V	D	P	T	A	N	Br	I	Y	Tn		3N
506492	V	D	W	T	Sa	N	Br	D	Y	Br		2N
506517	V	D	W	G	A	Ssp	Br	I	Gn	Gn	Vsc	3N
506518	VI	D	P	T	Sa	Ssp	Br	I	Gn	Brbl	Gnc, Vhil	4N
506522	V	D	P	G	A	Ssp	Br	D	Y	Y	Def	3N
506535	V	D	P	T	A	Ssp	Br	D	Gn	Gn	Gnc	3N
506541	V	D	P	T	A	Ssp	Br	I	Gn	Bl	Gnc	3F
506549	V	D	P	T	A	Ssp	Br	I	Gn	Brbl	Gnc, Vhil	3N
506550A	V	D	W	T	A	Ssp	Br	I	Gn	Brbl		3N
506550B	V	D	W	T	A	Ssp	Br	I	Gn	Brbl	Gnc	3N
506552	V	D	P	G	A	Ssp	Br	I	Gn	Gn	Def	2N
506553	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Gnc	3N
506558	V	D	P	T	Sa	Ssp	Br	I	Gn	Brbl		3F
506565	V	D	P	G	A	Ssp	Br	I	Gn	Bf	Gnc	3N
506582	V	D	W	T	A	N	Br	I	Y	Y	Def	2N
506583	V	D	W	T	A	N	Br	I	Y	Br	Sdef	2N
506586	V	D	W	G	Sa	Ssp	Br	I	Rbf	Rbf	Snet	2N
506594	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Gnc	4F
506597	V	D	P	T	Sa	N	Tn	I	Y	Y		2N
506598	V	D	P	T	E	Ssp	Br	I	Br	Br	Snet	2N
506605	VI	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Sad	4N
506630	V	D	P	T	A	N	Br	I	Gn	Bl	Gnc	4F
506639	V	N	W	T	A	N	Br	I	Gn	Br	Gnc	3N
506647	V	D	W	T	Sa	Ssp	Br	I	Y	Y		3N
506651	V	D	P	T	A	N	Br	I	Gn	Br	Gnc	3N
506660	V	D	W	T	A	Ssp	Br	I	Gn	Br		3N
506666	V	D	P	T	A	N	Br	I	Y	Br		3N
506668	V	D	P	G	A	N	Br	I	Y	Y		3N
506694	V	D	P	T	A	Ssp	Br	D	Gn	Gn		3N
506707	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
506713	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
506717	V	D	P	T	A	Ssp	Br	I	Y	Br	Sdef	3N
506718	V	D	P	G	A	N	Br	I	Y	Y		3N
506729	V	D	P	G	E	N	Br	D	Y	Y	Def	2N
506730	V	D	P	G	Sa	Ssp	Br	I	Y	Bf	Sdef	3N
506733B	VI	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
506738	VI	D	W	G	Sa	Ssp	Br	I	Y	Bf		2N
506744	VI	D	P	T	A	Ssp	Br	I	Gn	Bl		5F
506745	V	D	P	T	A	N	Br	I	Y	Br		3N
506746	V	D	P	T	A	Ssp	Br	I	Gn	Bl		5F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
504495	702	921	3.0	93*	2.0	3.0	3.3	2.0	12.8	1.87
504510	707	920	3.5	105*	2.0	3.0	3.5	1.0	15.8	1.80
506472	622	929	2.0	46	2.0	2.5	3.8	2.0	23.7*	1.60
506474	621	925	2.5	49	2.0	2.5	3.0	1.5	16.2	1.45*
506485	621	917	2.5	40	2.5	3.5	2.8	2.5	26.2	1.36
506487	620	917	2.0	48	2.5	3.5	2.0	--	16.7	1.75
506489	627	914	2.5	66	2.5	4.0	3.3	1.0	21.6	2.77
506492	627	922	3.0	56	2.0	2.5	3.0	1.0	16.1	2.12
506517	621	919	2.5	43	2.0	3.0	2.5	3.0	24.8	1.73
506518	621	1005	2.0	53	2.0	3.0	3.5	1.5	26.4	0.92
506522	621	924	2.5	64	2.5	3.5	3.8	1.5	27.5	1.76
506535	621	920	2.0	56	2.0	3.0	3.5	2.0	16.6	2.22*
506541	626	925	3.0	60	2.0	2.5	3.3	2.0	26.3	1.61
506549	621	929	3.0	59	2.0	3.0	2.8*	1.5	22.1	1.87
506550A	623	923	3.0	65*	2.0	2.5	3.5*	1.5	21.4	1.57
506550B	623	923	3.0	68*	2.0	2.5	3.3*	1.5	19.3	2.20
506552	621	909	2.5	44*	2.5	3.5	3.3	2.0	27.9	1.26
506553	620	912	2.5	36	2.5	4.0*	3.3	1.0	22.2	1.70
506558	621	923	2.5	45	2.5	4.0*	3.8	2.5	24.6	0.97
506565	621	923	3.0	48	2.5	3.0*	3.8*	1.5	15.8*	1.20
506582	703	919	2.5	71*	2.0	2.5	3.3	1.5	19.7	2.25
506583	621	909	2.5	53*	3.0	4.0	2.8	1.0	27.5	2.53*
506586	624	925	2.5	38	2.5	3.5	2.8	--	19.7	1.47
506594	617	1001	2.5	47	2.0	3.0	3.8	2.0	32.2	1.06
506597	621	917	3.5	55	2.0	3.0	2.5	1.5	15.8*	1.99
506598	621	917	2.0	48	2.0	3.0	2.0	--	20.8	2.06
506605	621	1005	3.5	62*	2.0	3.0	3.0	--	26.0	2.05
506630	621	927*	2.5	50*	2.5	3.5	3.8	2.5	23.8	0.90
506639	621	913	5.0	118*	2.5	4.5	3.8*	1.5	18.6	1.55*
506647	713	916	5.0	115*	2.5	3.5	2.3	3.0	7.7	2.15
506651	628	925	2.5	56	2.5	4.0	3.0	1.5	15.6	1.66
506660	621	923	2.5	47	2.0	3.0	3.0	2.0	21.3	1.90*
506666	627	926	3.5	67	2.0	2.5	3.0	2.0	17.6	1.83
506668	622	919	3.0	56	2.0	3.0	3.0	1.0	19.3	1.73
506694	626	919	3.5	69*	2.0	3.0	3.0*	2.0*	16.7	1.51*
506707	701	921	3.0	55	1.0	1.5	3.8*	2.0*	17.2	1.24
506713	622	929	3.0	53	2.0	2.5	3.3	2.5	23.5	1.83
506717	623	925	3.0	59*	2.5	4.0	3.3	3.0	23.4	2.12
506718	621	925	3.0	42	2.5	3.5	3.3	2.0	25.5	1.91*
506729	622	925	2.0	53*	2.0	2.5	3.0	1.5	21.0	1.79
506730	626	925*	3.0	43*	2.0	2.5	3.5	2.5	30.6	1.40*
506733B	702	1005	3.5	66	2.0	3.0	3.3	2.5	19.6	2.17
506738	704	1003	3.0	63*	2.0	2.5	3.0	2.5	19.1	1.63
506744	621	1003*	2.0	55*	2.0	3.0	3.3	1.5	30.0*	1.44*
506745	621	917	3.0	51	2.0	2.5	3.5	2.5	23.0	2.30
506746	621	1001	2.0	47*	2.0	3.0	3.8	1.5	29.3*	1.04*



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
504495	V	46.0 <sup>w</sup>	16.2 <sup>w</sup>	11.4	3.1	22.4	55.7	7.5
504510	V	43.8	17.3	13.8	2.9	26.6	49.6	7.0
506472	V	42.4	21.5	11.8	2.8	28.6	52.1	4.8
506474	V	40.9	21.0	12.0	3.0	25.8	54.2	4.9
506485	V	41.1 <sup>w</sup>	20.8 <sup>w</sup>	11.4	2.6	15.7	61.6	8.8
506487	V	44.2 <sup>w</sup>	18.7 <sup>w</sup>	12.4	2.7	20.7	57.7	6.5
506489	V	46.2	18.3	13.0	2.9	22.1	56.4	5.7
506492	V	43.3	19.2	13.0	3.1	27.9	50.1	6.0
506517	V	41.6 <sup>w</sup>	21.6 <sup>w</sup>	11.6	2.6	15.9	61.5	8.4
506518	VI	46.9 <sup>w</sup>	17.4 <sup>w</sup>	12.2	2.8	20.0	58.3	6.8
506522	V	43.7	20.5	12.0	2.9	24.2	54.6	6.4
506535	V	43.0 <sup>w</sup>	20.9 <sup>w</sup>	12.2	3.0	16.6	60.9	7.2
506541	V	46.2 <sup>w</sup>	21.1 <sup>w</sup>	11.2	2.9	22.3	58.0	5.5
506549	V	42.6 <sup>w</sup>	20.7 <sup>w</sup>	10.1	3.6	36.4	45.0	4.9
506550A	V	42.3 <sup>w</sup>	22.3 <sup>w</sup>	10.6	3.4	27.2	53.0	5.8
506550B	V	42.4 <sup>w</sup>	21.4 <sup>w</sup>	11.1	3.6	23.6	55.3	6.4
506552	V	45.0 <sup>w</sup>	18.9 <sup>w</sup>	12.0	2.5	27.2	52.4	6.0
506553	V	45.6 <sup>w</sup>	19.1 <sup>w</sup>	12.7	3.5	18.9	58.6	6.3
506558	V	48.3 <sup>w</sup>	19.1 <sup>w</sup>	12.7	3.0	20.5	57.9	5.9
506565	V	43.5 <sup>w</sup>	18.8 <sup>w</sup>	12.4	3.5	17.0	59.4	7.8
506582	V	43.0	18.3	11.7	2.8	44.5	36.3	4.8
506583	V	38.9	20.5	12.1	2.6	25.6	53.9	5.8
506586	V	45.0 <sup>w</sup>	17.9 <sup>w</sup>	12.1	2.7	21.0	57.9	6.3
506594	V	47.5 <sup>w</sup>	17.8 <sup>w</sup>	11.6	2.3	18.7	60.7	6.6
506597	V	41.8	19.5	12.8	3.1	18.0	59.1	6.9
506598	V	42.1 <sup>w</sup>	18.7 <sup>w</sup>	11.7	2.9	21.6	56.8	7.0
506605	VI	51.1 <sup>w</sup>	15.5 <sup>w</sup>	11.3	2.6	20.3	57.5	8.3
506630	V	44.6 <sup>w</sup>	20.0 <sup>w</sup>	11.6	2.6	26.0	54.1	5.7
506639	V	50.1 <sup>w</sup>	16.6 <sup>w</sup>	12.6	4.0	30.8	47.3	5.3
506647	V	47.7	15.3	12.8	2.9	22.8	53.6	7.9
506651	V	45.1 <sup>w</sup>	20.1 <sup>w</sup>	12.3	3.1	20.4	57.7	6.5
506660	V	41.0 <sup>w</sup>	20.4 <sup>w</sup>	12.0	3.1	18.9	59.3	6.8
506666	V	41.2	19.6	13.7	3.0	20.7	55.5	7.1
506668	V	40.2	21.5	14.8	2.8	20.5	55.4	6.5
506694	V	44.8 <sup>w</sup>	21.7 <sup>w</sup>	12.6	3.5	27.8	50.8	5.4
506707	V	40.5	20.1	12.3	2.9	27.6	51.3	5.9
506713	V	42.7	20.7	11.4	2.9	25.6	54.2	6.0
506717	V	45.7	19.2	13.2	3.2	25.3	53.1	5.2
506718	V	42.5	20.0	13.5	2.9	27.3	50.7	5.6
506729	V	42.5	18.4	11.3	2.2	23.8	55.9	6.8
506730	V	43.9	20.7	13.2	2.9	24.7	53.7	5.5
506733B	VI	43.1	19.8	12.5	3.1	25.6	52.9	5.8
506738	VI	41.7	21.2	12.9	2.9	26.1	52.5	5.5
506744	VI	48.1 <sup>w</sup>	18.1 <sup>w</sup>	10.0	2.6	17.8	63.0	6.7
506745	V	42.7	19.4	13.6	3.1	21.5	56.0	5.9
506746	V	47.0 <sup>w</sup>	18.6 <sup>w</sup>	10.9	2.8	19.1	60.6	6.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
506751	Hitashi mame	Tohoku	Japan	Japan	1986	V
506752	Hitashi mame 1	Kanto	Japan	Japan	1986	V
506757	Hokuman 198	Kanto	Japan	Japan	1986	V
506767	Ichiba arashi	Tohoku	Japan	Japan	1986	V
506780	Inasato zairai (3)	Kanto	Japan	Japan	1986	V
506783	Irazu (Yamagata)	Tohoku	Japan	Japan	1986	V
506791	Iwa A 1	Tohoku	Japan	Japan	1986	V
506794	Iwa A-3 (Murasaki Bana)	Tohoku	Japan	Japan	1986	V
506797	Iwahin hitashi 1	Tohoku	Japan	Japan	1986	V
506804	Iwamura san	Kanto	Japan	Japan	1986	V
506805	Iwate aka daizu	Kanto	Japan	Japan	1986	V
506806	Iwate oodama	Tohoku	Japan	Japan	1986	V
506807	Iwate toukichi	Tohoku	Japan	Japan	1986	V
506811	Iyo daizu	Tohoku	Japan	Japan	1986	V
506826	Kakihei zairai 7	Kanto	Japan	Japan	1986	V
506827	Kakushin 2	Tohoku	Japan	Japan	1986	VI
506830	Kamiiwa	Kanto	Japan	Japan	1986	V
506831	Kamiiwashita zairai	Kanto	Japan	Japan	1986	V
506834	Kanan seitou 76-1	Kinki	Japan	Japan	1986	V
506835	Kanbayashi zairai	Kanto	Japan	Japan	1986	V
506844	Kantou 40	Kanto	Japan	Japan	1986	V
506845	Kantou 43	Kanto	Japan	Japan	1986	V
506846	Kantou 44	Kanto	Japan	Japan	1986	V
506851	Kantou 59	Kanto	Japan	Japan	1986	V
506854	Kantou 62	Kanto	Japan	Japan	1986	V
506856	Kantou 65	Kanto	Japan	Japan	1986	V
506875	Kazunoko mame	Tohoku	Japan	Japan	1986	V
506890	Kinnari 1	Tohoku	Japan	Japan	1986	V
506891	Kinoshita 3	Tohoku	Japan	Japan	1986	V
506893	Kinoshita mame	Kanto	Japan	Japan	1986	V
506915	Komamaki zairai (Kuro)	Kanto	Japan	Japan	1986	V
506919	Kongou tairyuu	Kanto	Japan	Japan	1986	V
506923	Kosaka zairai (Katsubeso)	Tohoku	Japan	Japan	1986	V
506924	Kosaka zairai (Kurobeso)	Tohoku	Japan	Japan	1986	V
506934	Kouji irazu	Kanto	Japan	Japan	1986	V
506936	Kouji irazu 4	Tohoku	Japan	Japan	1986	V
506938	Koukei 86	Kyushu	Japan	Japan	1986	VI
506940	Kounou 2	Tohoku	Japan	Japan	1986	V
506941	Koushoku daizu	Tohoku	Japan	Japan	1986	V
506944	Koushuu	Kanto	Japan	Japan	1986	V
506961	Kuro chouhin 10	Kanto	Japan	Japan	1986	V
506983	Kuro chouhin 32	Tohoku	Japan	Japan	1986	V
506986	Kuro daizu	Kanto	Japan	Japan	1986	V
506988	Kuro daizu 2 (Tochigi)	Kanto	Japan	Japan	1986	V
506997	Kurosaya	Tohoku	Japan	Japan	1986	V
506999	Kurosaya (Ishioka)	Kanto	Japan	Japan	1986	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
506751	V	D	P	T	A	Ssp	Br	I	Gn	Bl	Gnc	3N
506752	V	D	P	T	A	Ssp	Br	I	Gn	Bl		5F
506757	V	D	P	T	A	N	Br	I	Y	Br		2N
506767	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
506780	V	D	P	G	Sa	Ssp	Br	D	Y	Y		3N
506783	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
506791	V	D	P	T	A	Ssp	Br	I	Gn	Bl	Gnc	3N
506794	V	D	P	T	Sa	Ssp	Tn	I	Gn	Bl	Gnc	5F
506797	V	D	P	T	Sa	Ssp	Tn	I	Gn	Bl	Gnc	5F
506804	V	D	W	T	A	Ssp	Br	I	Gn	Gn		3N
506805	V	D	W	G	Sa	Ssp	Br	I	Rbf	Rbf	Snet	3N
506806	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
506807	V	N	P	T	A	Ssp	Br	I	Y	Br		3N
506811	V	D	W	G	Sa	Ssp	Br	D	Y	Y	Def	2N
506826	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
506827	VI	D	P	G	Sa	Ssp	Tn	I	Y	Y		3N
506830	V	D	W	G	A	Ssp	Br	I	Gn	Gn		2N
506831	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
506834	V	D	P	T	A	N	Br	D	Gn	Br		3N
506835	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Gnc	2N
506844	V	D	W	T	A	Ssp	Br	I	Y	Y		1N
506845	V	D	P	G	A	N	Br	I	Y	Y		2N
506846	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
506851	V	D	W	T	A	N	Tn	I	Y	Y		2N
506854	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
506856	V	D	P	T	Sa	Ssp	Br	I	Y	Y		3N
506875	V	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
506890	V	D	P	T	A	Ssp	Tn	I	Y	Br		2N
506891	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
506893	V	D	P	T	A	Ssp	Br	I	Gn	Brbl	Gnc	3N
506915	V	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
506919	V	D	W	G	Sa	Ssp	Br	I	Y	Bf		2N
506923	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
506924	V	D	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
506934	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
506936	V	D	P	G	A	Ssp	Br	I	Gn	Bf		3N
506938	VI	N	W	T	A	N	Tn	I	Y	Br		3N
506940	V	D	W	T	A	Ssp	Br	I	Gn	Gn		3N
506941	V	D	P	T	A	N	Br	D	Y	Y	Vhil	2N
506944	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
506961	V	D	P	T	A	Ssp	Br	I	Bl	Bl		3N
506983	V	D	P	T	E	N	Tn	I	Bl	Bl		5F
506986	V	D	P	T	Sa	N	Br	I	Bl	Bl		3N
506988	V	D	P	T	A	Ssp	Br	I	Bl	Bl		4F
506997	V	D	P	T	A	Ssp	Bl	I	Y	Tn		3N
506999	V	D	P	T	A	Ssp	Bl	I	Y	Tn		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
506751	701	1001	3.0	64*	2.0	3.0	2.8	1.0	25.6	1.65
506752	621	1001	2.0	38	2.0	3.0	3.8	1.5	28.4*	1.19*
506757	622	916	3.0	50	2.5	3.5	2.8	2.0	21.2	2.55
506767	627	929	3.0	51	1.5	2.5	3.5	1.5	26.4*	0.98
506780	622	928	3.0	64*	2.5	3.5	3.5	2.0	25.9	1.14
506783	623	927	3.0	55	2.5	3.5	3.3	2.5	24.0	1.19
506791	701	927	3.0	58	2.0	3.0	3.0	1.5	21.4	1.59
506794	622	920	2.0	50*	2.5	3.5	4.0	2.0	26.1	0.83
506797	621	927*	2.0	52*	2.5	3.0*	4.0	2.0	31.2	1.04
506804	621	929*	2.5	72	2.0	3.0	2.8	1.5	21.2	1.28
506805	621	919	2.0	45	2.5	3.0*	2.8	--	19.2	1.49
506806	621	917	2.5	64	2.5	3.5	2.8	1.5	19.8	2.39
506807	708	927	5.0	140*	3.0	4.0	3.3	3.5	16.7	1.29
506811	621	917	3.0	50	2.0	3.0	3.3	2.0	27.0	1.48
506826	623	929	3.0	50*	2.0	3.0	3.8	2.5	26.5	1.40
506827	623	1003	3.0	61*	2.0	3.0	2.8	1.5	20.3*	2.00
506830	621	917	2.0	49	2.0	2.5	3.0	3.5	22.4	2.15
506831	624	923	2.5	46	2.0	2.5	2.8	1.5	25.3*	1.95
506834	625	913	3.0	61*	2.0	2.5	2.5	2.0	11.8	3.11
506835	622	911	2.5	38	2.5	3.5	2.8	1.5	15.8	1.71*
506844	621	912	2.0	40	2.5	3.5	2.8	2.0	20.8	1.94
506845	621	915	3.0	57	2.5	3.5	2.5	1.5	19.0	2.06
506846	623	918	2.5	55	2.0	3.0	3.5	2.0	16.2	2.13
506851	624	929	2.5	47	2.5	3.5	3.0	1.0	23.7	1.89
506854	623	902*	3.5	58*	2.0	3.0	2.8	1.5	18.2	2.99*
506856	623	924	2.0	61	2.0	3.0	3.5	3.0	19.5	1.54
506875	624	929	2.5	43	2.0	2.5	3.3	1.5	29.2*	1.70
506890	621	917	2.5	45	2.5	3.5	2.8	2.0	28.2	2.65*
506891	621	919	2.0	59	2.0	3.0	3.5	1.5	15.4	1.89
506893	625	923	3.0	60	2.5	3.5	3.0	1.5	17.4	2.07
506915	624	925	3.0	65	2.5	3.5	2.8	--	21.9	2.12
506919	621	922	2.0	41	2.0	3.0	3.0	1.0	20.3	1.85*
506923	625	1001*	3.0	61	1.5	3.0	3.5	2.5	14.7	1.51
506924	625	930	2.5	50*	2.0	2.5	3.8	2.5	15.0	1.34
506934	623	930	3.0	58*	2.5	3.5	3.3	1.5	24.7	1.38
506936	702	1001	3.5	64*	2.5	3.5	3.3	1.5	22.4	2.01
506938	712	1007	4.5	142*	1.5	2.5	3.0	3.0	11.3	1.06
506940	621	929	2.5	68	2.0	3.0	2.8	1.5	21.1	2.54
506941	703	916	3.0	66*	2.5	3.5	2.8	1.0	15.2	2.41
506944	622	917	3.0	51*	2.5	3.5	3.3	2.0	21.1	2.41
506961	626	925	3.0	55	2.0	2.5	2.8	--	19.0	2.27*
506983	623	926*	3.0	71*	2.5	4.0	3.5	--	27.1	1.40
506986	626	915	2.5	55	1.5	2.5	2.8	--	25.3*	1.93
506988	621	924	2.0	37*	2.0	2.5	3.3	--	27.3	1.43*
506997	624	927	3.0	62	2.0	2.5	2.5	5.0	18.4	1.36
506999	624	1002	2.5	64*	2.0	2.5	2.5	5.0	16.7	1.19

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
506751	V	42.2 <sup>w</sup>	20.4 <sup>w</sup>	12.2	2.6	20.3	57.0	7.8
506752	V	47.7 <sup>w</sup>	17.5 <sup>w</sup>	11.5	3.0	18.5	59.9	7.0
506757	V	43.7	19.0	14.2	3.0	20.7	55.8	6.3
506767	V	41.5 <sup>w</sup>	20.8 <sup>w</sup>	10.9	3.6	23.2	55.4	7.0
506780	V	44.6	20.1	12.0	2.9	23.1	56.1	5.9
506783	V	43.1	21.2	12.1	3.2	25.9	52.8	6.1
506791	V	45.1 <sup>w</sup>	20.1 <sup>w</sup>	12.5	3.0	22.1	54.6	7.8
506794	V	48.0 <sup>w</sup>	19.3 <sup>w</sup>	12.7	2.8	20.1	57.8	6.5
506797	V	49.4 <sup>w</sup>	18.2 <sup>w</sup>	12.2	2.7	18.1	60.3	6.7
506804	V	44.5 <sup>w</sup>	19.6 <sup>w</sup>	11.2	2.8	17.3	60.1	8.5
506805	V	44.7 <sup>w</sup>	18.7 <sup>w</sup>	11.9	2.8	21.7	57.5	6.1
506806	V	41.5	19.8	12.7	3.5	22.4	55.5	5.9
506807	V	46.0 <sup>w</sup>	18.1 <sup>w</sup>	13.6	3.3	27.7	49.1	6.3
506811	V	44.0	19.1	13.5	2.6	25.7	52.5	5.7
506826	V	46.3	19.3	11.5	3.5	33.3	46.6	5.0
506827	VI	44.0	19.2	13.2	3.2	26.3	52.2	5.1
506830	V	41.3 <sup>w</sup>	19.9 <sup>w</sup>	12.2	2.9	19.7	57.6	7.6
506831	V	42.3	20.3	13.4	2.9	22.8	55.6	5.4
506834	V	44.8 <sup>w</sup>	16.3 <sup>w</sup>	12.6	3.1	17.5	58.9	7.9
506835	V	47.2 <sup>w</sup>	18.4 <sup>w</sup>	11.9	3.8	18.0	59.1	7.1
506844	V	45.0	18.9	13.3	2.5	20.3	57.6	6.2
506845	V	42.4	19.3	15.1	2.6	23.3	52.9	6.1
506846	V	41.9	19.9	13.1	2.5	23.0	55.5	5.8
506851	V	43.6	18.1	11.9	2.7	39.1	41.2	5.0
506854	V	43.8	21.0	12.7	2.8	26.5	53.2	4.7
506856	V	46.8	18.9	13.6	3.0	24.2	53.9	5.2
506875	V	45.4	19.6	12.7	3.0	22.7	55.7	6.0
506890	V	40.2	19.2	12.0	2.7	26.4	53.3	5.6
506891	V	40.5	20.5	11.7	2.6	27.4	51.9	6.4
506893	V	43.3 <sup>w</sup>	20.6 <sup>w</sup>	11.4	3.3	21.7	57.7	6.0
506915	V	42.1 <sup>w</sup>	18.8 <sup>w</sup>	12.5	2.4	19.4	58.0	7.6
506919	V	44.0	19.5	11.2	2.6	21.0	59.3	5.9
506923	V	43.4 <sup>w</sup>	17.6 <sup>w</sup>	11.5	2.4	39.2	41.2	5.7
506924	V	41.4 <sup>w</sup>	20.2 <sup>w</sup>	10.1	2.1	43.9	39.8	4.0
506934	V	42.8	20.4	11.4	2.9	23.9	56.0	5.9
506936	V	47.2 <sup>w</sup>	17.9 <sup>w</sup>	12.7	3.3	19.7	57.2	7.2
506938	VI	48.0	15.9	15.6	3.4	25.5	48.9	6.5
506940	V	44.6 <sup>w</sup>	19.8 <sup>w</sup>	12.3	3.3	26.3	52.6	5.5
506941	V	41.4	20.4	13.5	2.9	21.2	56.8	5.7
506944	V	42.4	19.7	12.7	3.1	30.7	47.5	6.0
506961	V	43.3 <sup>w</sup>	21.1 <sup>w</sup>	11.2	3.6	18.3	60.0	6.9
506983	V	45.4 <sup>w</sup>	19.9 <sup>w</sup>	11.7	2.8	26.3	54.0	5.1
506986	V	44.5 <sup>w</sup>	20.6 <sup>w</sup>	11.5	3.0	22.8	56.4	6.4
506988	V	47.1 <sup>w</sup>	17.4 <sup>w</sup>	11.6	3.1	18.4	59.7	7.1
506997	V	47.1 <sup>w</sup>	17.8 <sup>w</sup>	12.5	2.9	24.9	53.3	6.4
506999	V	47.2 <sup>w</sup>	18.3 <sup>w</sup>	12.8	2.8	21.4	55.9	7.1

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
507013	Kyuushu mejirou 57	Kyushu	Japan	Japan	1986	VI
507014	Kyuushuu 58	Kyushu	Japan	Japan	1986	VI
507017	Madara ooha tsuru mame	Kanto	Japan	Japan	1986	VII
507031	Meigetsu	Kanto	Japan	Japan	1986	V
507032	Meigetsu mame	Tohoku	Japan	Japan	1986	V
507033	Mejiro	Kanto	Japan	Japan	1986	VI
507034	Menashi akasaya	Kanto	Japan	Japan	1986	V
507045	Misuzu	Kanto	Japan	Japan	1986	VI
507048	Mitsu mame	Kanto	Japan	Japan	1986	V
507052	Miyahara zairai	Kanto	Japan	Japan	1986	V
507055	Mochi mame	Tohoku	Japan	Japan	1986	V
507056	Mochi mame	Tohoku	Japan	Japan	1986	V
507058	Mochiderakei (Shirome)	Kanto	Japan	Japan	1986	VII
507076	Nakano zairai	Kanto	Japan	Japan	1986	V
507077	Nakasato zairai (C)	Kanto	Japan	Japan	1986	V
507079	Nakasennari	Kanto	Japan	Japan	1986	V
507081	Nakayama mame	Tohoku	Japan	Japan	1986	V
507087	Natsudaizu kimusume	Kanto	Japan	Japan	1986	V
507095B	(Nioi mame)	Tohoku	Japan	Japan	1986	V
507096	Nishikinsan zairai	Kanto	Japan	Japan	1986	V
507098	Nitchuu 47	Kanto	Japan	Japan	1986	V
507102	Nori mame	Kanto	Japan	Japan	1986	VI
507115	Ogawa zairai (7)	Kanto	Japan	Japan	1986	VI
507121	Oho ibaraki	Tohoku	Japan	Japan	1986	V
507124	Oiran	Kanto	Japan	Japan	1986	V
507126	Okatsu mame	Kanto	Japan	Japan	1986	V
507127	Okatsu mame	Kanto	Japan	Japan	1986	V
507128	Oku mame	Kanto	Japan	Japan	1986	V
507135	Oodama	Kanto	Japan	Japan	1986	V
507138	Oojiro	Tohoku	Japan	Japan	1986	VI
507139	Oojiro	Kanto	Japan	Japan	1986	V
507144	Ootama	Tohoku	Japan	Japan	1986	V
507154	Ougi mame	Kanto	Japan	Japan	1986	V
507157	Oushoku natsu daizu	Hokuriku	Japan	Japan	1986	V
507159	Ouu 5	Tohoku	Japan	Japan	1986	V
507170	Rikuu 6	Tohoku	Japan	Japan	1986	VI
507177	Rikuu 15	Tohoku	Japan	Japan	1986	V
507183	Rikuu 23	Tohoku	Japan	Japan	1986	V
507185	Rikuu 26	Tohoku	Japan	Japan	1986	V
507186	Rikuu 28	Tohoku	Japan	Japan	1986	V
507203	Sakae daizu	Kanto	Japan	Japan	1986	V
507209	Sakyuu daizu	Kanto	Japan	Japan	1986	V
507212	Sasaga zairai (Ban)	Kanto	Japan	Japan	1986	V
507217	Sendai fuku	Kanto	Japan	Japan	1986	V
507218	Sendaishu	Kanto	Japan	Japan	1986	V
507230	Shimayamane 1	Tohoku	Japan	Japan	1986	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
507013	VI	D	W	G	A	Ssp	Br	I	Y	Y		3N
507014	VI	D	P	G	A	Ssp	Br	D	Lgn	Lgn		2N
507017	VII	N	P	T	A	N	Br	I	Gnbr	Gnbr	Sw	4N
507031	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl	Sdef	2N
507032	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl	Def	2N
507033	VI	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
507034	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
507045	VI	D	P	G	Sa	Ssp	Tn	I	Y	Y		3N
507048	V	D	P	T	A	Ssp	Br	I	Y	Tn		2N
507052	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507055	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
507056	V	D	P	G	E	N	Br	D	Gn	Gn		2N
507058	VII	D	P	G	A	N	Tn	I	Y	Bf		3N
507076	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
507077	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
507079	V	D	P	G	A	Ssp	Br	D	Y	Y	Sdef	3N
507081	V	D	W	T	A	Ssp	Br	I	Y	Br	Vhil	3N
507087	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507095B	V	D	P	G	E	Ssp	Br	D	Gn	Gn		3N
507096	V	D	P	T	A	Ssp	Br	I	Lgn	Br		2N
507098	V	D	P	G	E	Ssp	Tn	S	Y	Y		3N
507102	VI	D	W	T	Sa	Ssp	Br	I	Gn	Bl		3N
507115	VI	D	P	T	Sa	Ssp	Br	I	Gn	Bl		5F
507121	V	D	W	G	Sa	Ssp	Br	D	Y	Y	Def	2N
507124	V	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	3N
507126	V	D	P	G	A	N	Tn	I	Y	Y		2N
507127	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507128	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507135	V	D	P	G	Sa	Ssp	Br	D	Y	Y		3N
507138	VI	D	P	T	Sa	N	Br	I	Y	Br		3N
507139	V	D	P	T	Sa	Ssp	Br	I	Y	Y		3N
507144	V	D	W	G	A	N	Br	I	Y	Bf		2N
507154	V	D	P	T	A	N	Br	I	Y	Br		3N
507157	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
507159	V	D	W	T	A	Ssp	Br	I	Y	Br		2N
507170	VI	D	P	G	A	N	Br	I	Y	Y		2N
507177	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
507183	V	D	W	T	A	Ssp	Br	I	Y	Br		3N
507185	V	D	W	T	A	Ssp	Br	I	Y	Br	Sdef	2N
507186	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
507203	V	D	P	G	A	Ssp	Tn	I	Y	Y		2N
507209	V	D	W	T	Sa	Ssp	Br	I	Y	Br		3N
507212	V	D	P	G	A	Ssp	Br	D	Y	Y		3N
507217	V	D	W	T	A	N	Br	I	Y	Y		1N
507218	V	D	W	T	A	Ssp	Br	I	Y	Tn		2N
507230	V	D	W	T	A	N	Br	I	Y	Br	Vhil	2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
507013	713	1005	3.0	71	1.5	2.5	2.8	1.0	15.1	2.31
507014	701	1007	2.5	46*	1.5	2.5	3.3	1.5	23.2	1.74
507017	808	1102	5.0	120*	2.0	2.5	3.3	--	7.2	0.27
507031	701	929	3.0	66	2.5	3.5	3.8	2.0	29.1	1.90
507032	627	922	3.0	64*	2.0	2.5	3.5	1.5	27.3	1.97
507033	622	1005	3.0	64*	2.0	3.0	3.8	3.0	26.1	1.16
507034	701	925	2.5	61*	2.5	3.0*	3.3	2.0	19.4*	2.15
507045	623	1003	3.0	69*	2.0	3.0	3.3	1.5	23.2	1.71
507048	627	925	3.0	78*	2.0	3.0	3.3	1.0	19.5	2.14*
507052	625	925	3.0	61*	2.0	2.5	3.0	2.0	21.4	1.49
507055	630	925	2.5	75*	2.0	2.5	3.0	2.0	16.7	2.09
507056	622	921	3.0	56*	2.0	2.5	3.3*	2.5	25.6*	2.21
507058	719	1029	3.5	96*	1.5	2.5	3.8	2.0	23.4*	0.88
507076	702	923	3.0	68*	2.0	2.5	3.5*	3.0	17.8	1.14
507077	624	916	2.0	53	2.5	3.5	2.8*	1.0	14.2	2.34
507079	701	920	3.0	57	2.0	3.0	3.0	1.0	16.0	2.97*
507081	702	923	2.5	53	2.0	2.5	2.8*	2.0	18.1	1.81
507087	623	923	2.5	55	2.0	3.0	2.8	1.0	19.7	2.70
507095B	621	917	2.5	43	2.0	3.0	3.3	2.5	27.6	1.79
507096	623	919	2.0	50	2.0	3.0	3.5	2.0	15.4	1.77
507098	629	919	3.0	72	1.0	2.0	2.8	1.0	16.7	3.05
507102	627	1006	3.5	75*	2.0	2.5	2.8	--	24.4	1.92
507115	625	1006	3.0	53	2.0	3.0	4.0	1.5	24.9	1.40
507121	621	921	3.0	46*	2.5	3.5	3.8	1.5	31.0	1.13*
507124	625	930	2.5	52	2.0	2.5	3.3	2.5	20.3	1.33
507126	625	917	2.5	53*	2.0	3.0	2.8	2.0	21.1	2.64*
507127	622	921	2.5	40	2.5	3.5	2.5	2.0	20.5	1.69*
507128	622	927	2.5	50	2.0	3.0	3.5	2.0	26.2	1.62*
507135	625	1001	2.5	65	2.0	2.5	3.3	2.0	29.8	1.32
507138	703	1003	3.0	68	1.5	2.5	2.8	3.0	14.6	1.63
507139	621	930	2.0	40	2.0	3.0	3.5	2.0	24.1	1.07
507144	622	919*	2.5	46	2.0	2.5	3.0	2.0	21.8	1.79
507154	625	922	3.0	59*	2.0	3.0	3.5	2.0	23.3	1.61
507157	701	927	3.0	50	1.5	2.0	3.3	2.0	18.4*	2.00
507159	626	921	2.5	56	3.0	4.0	3.0	2.0	19.7	2.12
507170	621	1005	2.5	52	1.5	2.5	3.5	2.0	28.6	1.39*
507177	622	929	3.0	55	2.0	2.5	2.8	1.5	23.7*	1.78*
507183	626	923	2.0	53	3.0	4.0	3.0	2.0	15.9	2.14
507185	703	921	2.0	55	2.0	3.0	3.3	1.0	16.0	2.11
507186	701	915	3.0	66*	3.0	4.0	3.0	2.0	20.6	2.15
507203	621	922	3.0	56	2.0	3.5	3.0	2.0	25.4	1.50
507209	623	920	2.0	49	1.0	2.0	2.8*	1.5	12.9	2.12
507212	622	923	2.0	55	1.5	2.0	3.0	2.0	24.2	1.32
507217	703	921	2.5	62*	2.0	2.5	3.3	2.0	17.3	1.94
507218	701	923	3.0	57*	2.0	2.5	3.3	2.0	17.3	2.06
507230	623	917	2.0	50	1.5	3.0	2.8	1.5	15.1	2.14



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
507013	VI	44.5	18.1	13.2	3.0	21.3	55.5	7.0
507014	VI	43.1 <sup>w</sup>	20.6 <sup>w</sup>	12.8	3.0	23.7	54.7	5.8
507017	VII	52.3 <sup>w</sup>	11.9 <sup>w</sup>	12.0	4.4	19.7	56.0	7.8
507031	V	44.9 <sup>w</sup>	18.2 <sup>w</sup>	13.7	3.6	23.4	52.6	6.8
507032	V	45.1 <sup>w</sup>	19.3 <sup>w</sup>	13.0	3.2	24.6	52.9	6.4
507033	VI	46.5	18.3	11.9	2.9	23.3	56.1	5.9
507034	V	42.0	18.9	11.4	3.1	28.1	51.6	5.8
507045	VI	42.2	19.9	11.6	2.7	28.8	52.4	4.4
507048	V	45.7	18.0	12.6	3.1	20.0	58.0	6.3
507052	V	42.4	21.4	11.3	3.0	23.6	56.1	6.0
507055	V	41.3	18.4	11.8	3.3	22.3	55.4	7.1
507056	V	42.7 <sup>w</sup>	21.2 <sup>w</sup>	11.7	2.8	21.3	57.6	6.5
507058	VII	49.2 <sup>w</sup>	16.8 <sup>w</sup>	12.4	3.6	30.1	48.8	5.2
507076	V	46.2	18.9	13.6	3.3	25.1	51.6	6.5
507077	V	41.0	19.3	12.1	2.5	26.3	52.2	7.0
507079	V	42.1	19.6	12.8	2.9	21.9	55.9	6.4
507081	V	41.8	20.7	12.7	2.8	27.2	52.2	5.1
507087	V	40.7	18.5	11.5	2.4	20.4	58.1	7.6
507095B	V	45.1 <sup>w</sup>	19.6 <sup>w</sup>	11.6	2.6	24.1	55.8	5.8
507096	V	41.6 <sup>w</sup>	20.3 <sup>w</sup>	11.2	2.5	26.1	52.6	7.5
507098	V	39.4	20.9	12.4	4.0	26.3	52.7	4.6
507102	VI	50.4 <sup>w</sup>	17.5 <sup>w</sup>	11.5	2.8	19.6	57.6	8.5
507115	VI	45.3 <sup>w</sup>	16.8 <sup>w</sup>	12.4	3.2	16.7	60.2	7.4
507121	V	41.8	18.4	12.4	2.5	25.4	54.0	5.7
507124	V	39.6	20.4	13.1	3.2	19.7	57.5	6.4
507126	V	40.9	20.9	14.3	2.6	22.9	55.0	5.1
507127	V	41.9	18.1	13.3	2.6	19.0	58.2	6.9
507128	V	42.3	20.7	11.5	2.8	24.5	55.2	6.0
507135	V	42.7	20.2	11.3	3.2	25.0	54.7	5.8
507138	VI	41.0	18.6	13.9	3.0	22.4	54.0	6.6
507139	V	42.9	18.6	12.1	2.9	23.3	55.8	6.0
507144	V	42.0	21.0	12.0	3.5	25.8	53.1	5.6
507154	V	43.3	18.8	13.1	2.8	23.5	54.6	6.0
507157	V	41.6	18.5	11.2	2.8	29.2	50.9	6.0
507159	V	39.0	19.6	12.0	2.7	24.2	54.5	6.5
507170	VI	42.1	20.0	11.4	3.5	28.5	51.7	5.0
507177	V	42.0	20.6	12.2	2.8	22.2	56.9	5.9
507183	V	40.9	20.2	11.2	2.8	33.5	47.8	4.7
507185	V	42.7	18.0	12.3	2.7	27.5	51.6	5.8
507186	V	43.4	18.7	13.0	2.8	20.9	56.5	6.7
507203	V	42.2	21.7	10.8	2.8	26.8	54.1	5.5
507209	V	42.6	19.8	12.3	2.8	22.0	56.3	6.6
507212	V	41.8	21.5	11.1	2.9	23.2	56.9	5.9
507217	V	41.8	18.8	12.0	3.0	24.6	53.2	7.1
507218	V	40.9	19.0	11.6	3.0	23.5	54.9	7.0
507230	V	40.0	20.0	12.1	2.6	27.9	51.6	5.8

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
507233	Shimofuri mame	Tohoku	Japan	Japan	1986	V
507234	Shimofuri mame	Tohoku	Japan	Japan	1986	V
507235	Shimokaburi	Kanto	Japan	Japan	1986	V
507242	Shina daizu	Kanto	Japan	Japan	1986	V
507243	Shina mame	Kanto	Japan	Japan	1986	V
507246	Shirage 9	Kanto	Japan	Japan	1986	V
507252	Shiratama 10	Tohoku	Japan	Japan	1986	V
507256	Shiro chonkon	Kanto	Japan	Japan	1986	V
507260	Shiro daizu	Tohoku	Japan	Japan	1986	VI
507263	Shiro daizu (Amijou)	Kanto	Japan	Japan	1986	VI
507266	Shiro hachikoku 2	Tohoku	Japan	Japan	1986	V
507269	Shiro mitsu mame	Kanto	Japan	Japan	1986	VI
507270	Shiro no tairyuu	Kanto	Japan	Japan	1986	V
507275	Shiro yamadera	Tohoku	Japan	Japan	1986	V
507283	Shirokawa daizu	Kinki	Japan	Japan	1986	V
507284	Shirokuchi 1	Tohoku	Japan	Japan	1986	V
507287	Shirosaya (1)	Tohoku	Japan	Japan	1986	V
507288	Shirosaya (Toufu Mame)	Kanto	Japan	Japan	1986	V
507290	Shizukamurasan	Kanto	Japan	Japan	1986	V
507304	Suzunari	Tohoku	Japan	Japan	1986	V
507305	Taihaku	Tohoku	Japan	Japan	1986	V
507306	Taihaku	Kanto	Japan	Japan	1986	VI
507307	Taika daizu 1-4-1	Kanto	Japan	Japan	1986	V
507308	Taika daizu 1-5-2	Kanto	Japan	Japan	1986	V
507314	Takai zairai	Kanto	Japan	Japan	1986	V
507321	Takei 12	Kanto	Japan	Japan	1986	V
507324	Takiya mame	Tohoku	Japan	Japan	1986	V
507330	Tamatsukuri	Tohoku	Japan	Japan	1986	V
507331	Tamatsukuri	Kanto	Japan	Japan	1986	V
507333	Tamatsukuri 2	Tohoku	Japan	Japan	1986	V
507361	Touhoku 3	Tohoku	Japan	Japan	1986	V
507372	Toukyou daizu	Kanto	Japan	Japan	1986	V
507374	Tousan 2	Kanto	Japan	Japan	1986	V
507375	Tousan 8	Kanto	Japan	Japan	1986	V
507376	Tousan 11	Kanto	Japan	Japan	1986	V
507378	Tousan 35	Kanto	Japan	Japan	1986	V
507388	Tousan 49	Kanto	Japan	Japan	1986	V
507389	Tousan 50	Kanto	Japan	Japan	1986	V
507391	Tousan 52	Kanto	Japan	Japan	1986	V
507393	Tousan 54	Kanto	Japan	Japan	1986	VI
507397	Tousan 59	Kanto	Japan	Japan	1986	V
507399	Tousan 61	Kanto	Japan	Japan	1986	V
507401	Tousan 63	Kanto	Japan	Japan	1986	V
507402	Tousan 64	Kanto	Japan	Japan	1986	V
507403	Tousan 65	Kanto	Japan	Japan	1986	V
507409	Tousan 70	Kanto	Japan	Japan	1986	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
507233	V	D	P	G	A	Ssp	Tn	I	Y	Y		3N
507234	V	D	P	G	A	Ssp	Tn	I	Y	Y		3N
507235	V	D	P	T	A	Ssp	Br	I	Gn	Gn	Gnc	3N
507242	V	D	W	T	A	N	Br	I	Y	Y		2N
507243	V	D	W	T	A	N	Br	I	Y	Y		2N
507246	V	D	P	G	A	N	Tn	I	Y	Y		3N
507252	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
507256	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507260	VI	D	P	T	A	Ssp	Br	I	Gn	Gn		3N
507263	VI	D	P	T	A	Ssp	Br	I	Br	Br	Net	3N
507266	V	D	P	G	Sa	N	Br	I	Y	Bf		3N
507269	VI	D	P	G	Sa	N	Br	I	Y	Bf		3N
507270	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507275	V	D	P	T	Sa	N	Br	I	Gn	Gn	Gnc	3N
507283	V	N	P	T	A	N	Tn	I	Y	Br		3N
507284	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
507287	V	D	P	G	A	N	Tn	I	Y	Y		3N
507288	V	D	W	G	A	N	Tn	I	Y	Lbf		3N
507290	V	D	P	T	A	N	Br	I	Gn	Br		3N
507304	V	D	P	T	A	N	Br	I	Y	Y	Vhil	3N
507305	V	D	P	T	Sa	Ssp	Br	I	Y	Y	Sdef	2N
507306	VI	D	P	G	Sa	Ssp	Tn	I	Y	Y		3N
507307	V	D	P	G	A	N	Tn	I	Y	Y	Fasc	3N
507308	V	D	P	G	A	N	Tn	I	Y	Bf	Fasc	2N
507314	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507321	V	D	W	T	A	N	Br	I	Y	Br	Vhil	3N
507324	V	D	P	G	A	N	Br	I	Y	Y		3N
507330	V	D	P	G	A	N	Br	I	Y	Y		2N
507331	V	D	P	G	A	Ssp	Br	D	Y	Y		3N
507333	V	D	P	G	A	N	Tn	I	Y	Lbf		3N
507361	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
507372	V	D	P	G	Sa	Ssp	Br	D	Y	Y		3N
507374	V	D	P	G	A	N	Tn	I	Y	Y		2N
507375	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507376	V	D	P	G	A	Ssp	Br	I	Y	Bf	Vhil	2N
507378	V	D	W	G	Sa	Ssp	Br	D	Y	Y		3N
507388	V	D	P	G	Sa	N	Br	I	Y	Y		1N
507389	V	D	W	G	Sa	Ssp	Br	I	Y	Y	Def	2N
507391	V	D	P	G	Sa	Ssp	Br	I	Y	Y		1N
507393	VI	D	P	G	A	Ssp	Br	I	Y	Y		2N
507397	V	D	W	G	A	Ssp	Br	I	Y	Lbf		2N
507399	V	D	P	G	A	N	Br	I	Y	Y		1N
507401	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507402	V	D	P	G	Sa	N	Br	I	Y	Y		2N
507403	V	D	P	G	A	Ssp	Tn	I	Y	Y		3N
507409	V	D	P	G	A	Ssp	Br	I	Y	Y		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
507233	701	1001	2.5	61*	1.5	2.5	3.3	2.0	23.8	1.57
507234	627	930	3.0	62	2.0	2.5	3.3	2.0	23.9	1.55
507235	629	922	2.5	56*	1.5	2.0	2.8*	2.0	12.4	2.09
507242	626	920	3.0	66*	1.0	1.5	2.8	1.5	16.8	2.55
507243	702	921	2.5	56	1.0	1.5	3.3	1.5	17.7*	2.06
507246	621	915	3.0	50	2.5	3.5	3.0	2.5	22.5	2.25*
507252	703	926	3.0	62*	1.0	2.0	3.0	1.5	20.7	1.52
507256	627	915	3.0	57	2.0	4.0	2.5	1.0	19.5	3.12
507260	703	1003	3.0	68	1.5	3.0	3.3	1.5	21.4	1.81*
507263	625	1008	2.0	54	1.5	2.5	3.0	--	20.7	1.00
507266	702	929*	2.5	55	1.5	2.5	3.8	2.0	12.9	0.77
507269	703	1003	3.5	67	1.5	2.5	3.0	3.0	18.0	1.93
507270	626	1002	3.0	59*	1.5	2.5	3.0	2.0	26.5	1.77
507275	705	925	3.0	67	2.5	3.5	3.0	3.0	12.8	1.52
507283	707	929	5.0	150*	4.0	5.0	3.0	4.0	8.9	0.38
507284	621	923	2.0	48	2.0	3.0	3.0	2.0	17.5	1.82
507287	627	927	3.0	50	2.0	2.5	3.0	1.5	19.2	1.72
507288	623	927*	3.0	52	2.0	3.0	3.3	1.5	21.4	1.50
507290	701	926	3.5	61	2.5	3.5	3.3	2.0	20.3	2.46
507304	701	918	3.0	61	3.0	4.0	3.0	1.0	21.7	2.33
507305	621	925	2.5	44*	2.0	3.0	3.3*	2.0	22.6	1.20*
507306	622	1003	2.0	63*	2.0	3.0	3.8	1.5	25.3	1.40*
507307	706	925*	3.5	68	3.0	4.0	3.3	1.0	17.4	1.84
507308	705	922	3.5	64	3.0	4.0	3.3	1.0	17.8	2.16
507314	623	926	2.5	60	2.0	3.0	2.8	2.0	25.0*	1.62
507321	623	925	2.0	49	2.5	3.5	2.8	2.5	13.1	1.54
507324	702	927	3.0	71	2.5	3.5	2.8*	1.5	12.2	2.45
507330	621	917	2.0	59	2.5	4.0*	3.5	1.0	14.3	2.20*
507331	702	929	3.0	60	2.0	2.5	3.0	1.0	15.5	2.21
507333	621	921	2.0	47*	2.0	3.0	3.3	1.0	18.9	1.51*
507361	625	919	3.5	61*	2.5	3.5	3.3	3.0	15.0	1.46
507372	622	929	2.5	54*	1.5	2.5	3.5	2.0	24.3*	1.15
507374	625	918	3.0	63*	2.0	2.5	3.0	1.0	17.2	2.44
507375	625	930	3.0	66*	2.0	3.0	3.0	1.5	19.4	1.90
507376	621	921	2.0	57	3.0	3.5	3.0	2.0	16.0	1.56
507378	621	920	3.0	64	2.5	3.5	3.5	1.0	19.3	2.25*
507388	621	920	2.5	59	2.5	3.5	3.0	1.0	22.1*	2.16
507389	623	921	2.5	53	2.0	3.0	3.3	1.0	21.3	1.25
507391	621	922	2.0	47	2.0	2.5	2.8	1.5	16.9	2.11
507393	625	1003	2.0	70*	2.0	3.0	3.3	2.0	25.8	1.82
507397	621	929	2.0	51*	2.0	3.0	3.0	2.0	23.5*	1.28*
507399	621	919	2.0	47	2.5	3.5	2.8	1.0	20.5	1.38*
507401	621	916	3.0	59	3.0	4.5	3.0	1.0	22.6*	2.44
507402	621	919	2.0	53	3.0	4.0	3.0	1.0	21.7	1.84
507403	630	925	3.0	73*	2.0	2.5	3.3	1.0	19.3	2.38
507409	620	930*	2.5	41	1.5	2.5	2.5	2.0	17.6	1.38

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
507233	V	43.0	20.1	11.3	3.1	26.7	52.8	6.0
507234	V	43.3	20.9	11.9	3.2	25.7	53.2	6.0
507235	V	42.7 <sup>w</sup>	18.8 <sup>w</sup>	12.9	2.9	23.4	54.2	6.6
507242	V	41.4	18.4	11.7	2.9	26.1	52.8	6.5
507243	V	41.5	18.8	12.3	3.2	22.6	55.2	6.7
507246	V	39.6	20.8	15.0	2.6	21.0	55.4	6.0
507252	V	44.0	18.3	13.2	2.5	21.8	56.1	6.4
507256	V	40.9	20.3	13.8	2.8	30.2	48.8	4.4
507260	VI	44.2 <sup>w</sup>	18.5 <sup>w</sup>	12.2	2.9	20.4	57.4	7.0
507263	VI	50.4 <sup>w</sup>	15.3 <sup>w</sup>	12.2	3.3	17.9	58.9	7.7
507266	V	44.4	19.2	13.2	2.5	24.8	54.5	5.0
507269	VI	44.0	18.9	13.7	3.6	20.1	55.8	6.9
507270	V	41.5	20.4	11.4	3.1	25.9	54.0	5.6
507275	V	44.2 <sup>w</sup>	19.9 <sup>w</sup>	11.7	2.8	28.9	51.1	5.6
507283	V	50.4 <sup>w</sup>	13.7 <sup>w</sup>	12.9	4.0	32.6	43.6	6.9
507284	V	41.6	19.8	12.2	2.7	25.4	53.8	5.9
507287	V	45.4	18.6	12.9	2.9	25.8	52.6	5.8
507288	V	42.4	19.0	12.6	2.5	42.6	38.2	4.1
507290	V	42.6 <sup>w</sup>	20.1 <sup>w</sup>	12.8	3.1	23.1	54.6	6.3
507304	V	45.6	18.7	13.3	2.8	18.5	59.5	6.0
507305	V	41.9	19.1	12.4	2.9	19.5	58.2	7.0
507306	VI	42.5	20.3	11.8	2.9	22.9	56.9	5.5
507307	V	43.2	19.5	10.9	2.9	38.4	43.0	4.9
507308	V	45.5	18.8	11.4	3.1	34.0	46.2	5.3
507314	V	42.2	20.9	11.7	2.9	26.6	52.9	5.9
507321	V	43.8	18.6	12.4	2.5	25.1	54.3	5.7
507324	V	41.9	19.6	12.0	2.3	27.1	53.0	5.6
507330	V	44.3	18.2	12.8	2.4	28.7	50.5	5.6
507331	V	40.1	19.5	13.3	2.7	21.4	55.6	7.0
507333	V	43.4	19.8	12.0	2.5	34.9	45.4	5.1
507361	V	41.9	20.0	11.8	3.3	23.4	56.0	5.5
507372	V	42.8	19.8	12.0	3.0	22.9	56.1	6.1
507374	V	39.7	20.3	14.7	2.6	22.7	53.8	6.2
507375	V	41.9	19.6	14.4	2.7	26.1	51.2	5.7
507376	V	42.5	20.8	12.2	3.3	25.3	53.0	6.2
507378	V	42.4	20.9	11.6	2.3	30.2	50.5	5.3
507388	V	42.3	19.6	13.2	2.5	19.8	58.2	6.3
507389	V	45.7	18.4	13.5	2.4	23.1	55.2	5.8
507391	V	40.4	19.1	13.9	2.7	20.6	56.3	6.4
507393	VI	42.4	19.5	13.2	2.9	24.5	53.6	5.7
507397	V	41.9	19.8	12.5	2.9	25.3	53.8	5.5
507399	V	43.5	18.7	13.7	2.8	19.0	58.8	5.8
507401	V	40.4	20.3	11.8	2.6	34.6	45.9	5.2
507402	V	43.6	20.7	13.0	2.8	24.5	53.9	5.9
507403	V	43.0	19.0	13.6	3.4	22.3	54.5	6.2
507409	V	40.2	20.7	14.7	3.1	24.6	51.8	5.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
507410	Tousan 71	Kanto	Japan	Japan	1986	V
507416	Tousan 78	Kanto	Japan	Japan	1986	V
507417	Tousan 78	Kanto	Japan	Japan	1986	V
507420	Tousan 81	Kanto	Japan	Japan	1986	V
507426	Tousan 86	Kanto	Japan	Japan	1986	V
507427	Tousan 87	Kanto	Japan	Japan	1986	V
507433	Tousan 94	Kanto	Japan	Japan	1986	V
507437	Tousan 99	Kanto	Japan	Japan	1986	V
507438	Tousan 100	Kanto	Japan	Japan	1986	VI
507450	Tousan kei A 622	Kanto	Japan	Japan	1986	V
507453	Tousan kei A 710	Kanto	Japan	Japan	1986	V
507454	Tousan kei B 77	Kanto	Japan	Japan	1986	V
507462	Tousan kei C 573	Kanto	Japan	Japan	1986	V
507463	Tousan kei D 802	Kanto	Japan	Japan	1986	V
507469	Tousan kei G 949	Kanto	Japan	Japan	1986	VI
507474	Tousan kei NA 26	Kanto	Japan	Japan	1986	V
507475	Tousan kei NA 75	Kanto	Japan	Japan	1986	V
507477	Tousan kei YL 1	Kanto	Japan	Japan	1986	VI
507482	Toushuu	Kanto	Japan	Japan	1986	V
507485	Tsukui	Kanto	Japan	Japan	1986	V
507489	Tsuru no tamago 3	Tohoku	Japan	Japan	1986	VI
507490	Tsuru no tamago 3	Tohoku	Japan	Japan	1986	V
507498	Ueda tairyu mejiro 22	Kanto	Japan	Japan	1986	V
507510	Uzura mame	Kanto	Japan	Japan	1986	V
507518	Wase asahi	Chugoku	Japan	Japan	1986	V
507532	Watanabeshu (Yamagata)	Tohoku	Japan	Japan	1986	V
507534	Yagi	Kanto	Japan	Japan	1986	V
507537	Yahagi daizu	Kanto	Japan	Japan	1986	VI
507545	Yamaoki	Kanto	Japan	Japan	1986	V
507549	Yodamurasan	Kanto	Japan	Japan	1986	V
507550	Yonezawa zairai	Kanto	Japan	Japan	1986	V
507551	Yonryuukou	Kanto	Japan	Japan	1986	V
507560	Yukihera	Tohoku	Japan	Japan	1986	V
507566	Yukinoshita mame	Tohoku	Japan	Japan	1986	V
507575	Zairaishu (1)	Kanto	Japan	Japan	1986	VI
507578	Zairaishu (Ogura Kei)	Kanto	Japan	Japan	1986	V
507690	Mocinave 7	unknown	Georgia	Russia	1987	V
508294		Cholla Puk	South Korea	South Korea	1987	V
508295		Cholla Puk	South Korea	South Korea	1987	V
508297		Cholla Nam	South Korea	South Korea	1987	V
508298		Cholla Nam	South Korea	South Korea	1987	V
509076		Kangwon	South Korea	South Korea	1987	V
509078		Chungchong Nam	South Korea	South Korea	1987	V
509080		Chungchong Nam	South Korea	South Korea	1987	V
509081		Chungchong Nam	South Korea	South Korea	1987	V
509091A		Cholla Puk	South Korea	South Korea	1987	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
507410	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507416	V	N	P	G	Sa	Ssp	Br	I	Y	Y		3N
507417	V	N	P	G	A	Ssp	Br	I	Y	Y		3N
507420	V	N	P	G	Sa	Ssp	Br	I	Y	Y		3N
507426	V	D	P	G	A	Ssp	Br	D	Y	Y		3N
507427	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507433	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507437	V	D	W	G	A	Ssp	Br	I	Y	Y		2N
507438	VI	D	P	G	Sa	N	Br	D	Y	Y		3N
507450	V	D	W	G	A	Ssp	Br	I	Y	Y	Def	2N
507453	V	D	W	G	A	Ssp	Br	I	Y	Y	Sdef	2N
507454	V	D	W	G	Sa	N	Br	D	Y	Y		2N
507462	V	D	P	G	A	Ssp	Br	I	Y	Y		4N
507463	V	D	P	T	Sa	Ssp	Br	I	Y	Tn	Vhil	2N
507469	VI	D	W	T	Sa	Ssp	Br	I	Y	Y	Def	2N
507474	V	D	P	G	Sa	N	Tn	I	Y	Ib		3N
507475	V	D	P	G	E	N	Tn	I	Y	Bf	Na	3N
507477	VI	N	P	G	Sa	Ssp	Br	I	Y	Y	Cd	3N
507482	V	D	W	T	A	Ssp	Br	I	Y	Y		2N
507485	V	D	W	G	A	Ssp	Br	I	Gn	Gn		2N
507489	VI	D	W	G	Sa	Ssp	Br	I	Y	Y		2N
507490	V	D	P	G	Sa	N	Br	I	Y	Y		3N
507498	V	D	P	G	A	Ssp	Br	I	Y	Y		2N
507510	V	D	W	T	A	Ssp	Br	I	Bl	Bl	Net	3N
507518	V	D	W	T	A	Ssp	Tn	I	Y	Y		2N
507532	V	D	P	T	A	Ssp	Br	D	Gn	Br		2N
507534	V	D	W	G	Sa	Ssp	Br	I	Y	Y		2N
507537	VI	D	P	T	A	Ssp	Br	I	Y	Lbr		3N
507545	V	D	P	T	A	N	Br	I	Y	Br		3N
507549	V	D	P	G	Sa	Ssp	Br	I	Gn	Dib	Gnc	3N
507550	V	D	P	G	A	Ssp	Br	I	Y	Y		3N
507551	V	D	W	T	Sa	N	Tn	D	Y	Br		3N
507560	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
507566	V	D	P	G	Sa	N	Br	D	Gn	Gn		3N
507575	VI	D	W	T	Sa	Ssp	Br	I	Y	Br		2N
507578	V	D	P	G	E	Ssp	Br	I	Y	Y		3N
507690	V	D	P	G	E	N	Tn	I	Y	Y		3N
508294	V	D	P	G	Sa	Ssp	Tn	I	Y	Bf		3N
508295	V	D	P	G	Sa	N	Br	I	Y	Bf		3N
508297	V	D	P	T	Sa	N	Tn	I	Y	Y		3N
508298	V	D	P	T	A	Ssp	Bl	B	Bl	Bl		3N
509076	V	D	W	T	Sa	N	Bl	I	Gn	Brbl		2N
509078	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
509080	V	D	W	T	Sa	Ssp	Bl	I	Gn	Bl		1N
509081	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		3N
509091A	V	D	W	G	A	Ssp	Tn	I	Y	Bf		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
507410	627	923	3.0	73*	2.0	3.0	3.5	1.0	18.1	3.19*
507416	621	921	4.5	123*	2.5	4.5	4.0	1.5	18.1	1.90
507417	621	923	4.5	121*	2.5	4.5	3.8	1.5	17.0	1.91
507420	621	924	4.5	123*	2.0	3.5	3.8	1.5	18.2	2.39
507426	629	920	3.0	58	2.0	2.5	3.5	1.0	16.5	2.58
507427	629	930	2.5	59	2.0	3.5	3.3	1.0	24.5	2.13
507433	621	927	3.0	50*	2.0	3.0	3.3	1.0	28.4*	1.72
507437	621	923	2.0	38	2.0	3.0	2.8	1.5	20.0	1.98
507438	621	1007	2.5	53*	2.0	3.0	3.5	1.0	29.9	1.35
507450	629	925	2.5	59	1.0	1.5	3.3	2.0	23.5	1.92
507453	621	1001	3.0	57	2.0	3.0	3.0	2.0	23.6	2.09
507454	623	1001	3.0	58*	2.0	3.0	3.0	1.5	16.4	1.94
507462	628	923	3.0	74*	2.0	3.5	3.8	1.0	18.8	2.36
507463	625	925*	2.0 <sup>^</sup>	42*	2.0	3.5	3.5	2.5	17.6	0.77
507469	625	1005	2.5	54	1.5	2.5	3.3	1.0	32.7	1.48
507474	621	921	2.0	43*	2.0	3.0	3.3*	1.0	21.7	2.57*
507475	703	929	3.5	89*	2.0	2.5	2.5	1.5	7.9	2.22
507477	630	1007	4.5	113*	2.0	2.5	3.5	2.5	16.6	1.69
507482	701	925	3.0	57	2.0	2.5	3.3	1.5	18.1	1.73
507485	622	915	2.5	44	2.0	3.5	3.3	2.5	25.4	1.82
507489	624	1003	2.5	47*	2.0	2.5	3.0	2.5	20.5	1.19
507490	623	929	2.0	43	2.0	3.0	2.8	3.0	17.5	1.01
507498	626	928	3.0	65	2.0	3.0	2.8	1.5	22.2	2.00
507510	620	926	2.0	33*	1.5	3.5	3.0	--	26.6*	0.74
507518	621	916	2.5	43	1.5	2.5	2.5	1.0	14.3	2.10
507532	630	921	2.5	62	2.0	2.5	3.0	1.5	21.0	2.03
507534	622	1001	2.0	36	1.0	2.5	3.0	1.5	19.7	1.65*
507537	623	1005	3.0	68	2.0	3.0	3.0	2.0	18.0	1.84
507545	626	915	3.0	53	3.0	4.0	2.8	1.5	19.0	2.43
507549	626	927	2.5	59	2.0	3.0	3.3	1.5	23.8	1.61
507550	625	924	2.0	60*	2.0	3.0	3.3	2.0	24.4	1.59
507551	626	925	3.0	56	2.0	3.0	3.0	1.0	13.8	1.70
507560	621	928	2.0	57*	3.0	4.0	3.8	2.0	15.8	1.49
507566	623	925	3.0	48*	2.0	3.0	3.3	2.0	25.6	1.79
507575	621	1003	2.0	51*	2.0	2.5	3.5	1.0	24.9	1.69
507578	627	928	2.5	75*	2.0	4.0	3.5	1.0	19.2	1.35
507690	701	924*	3.0	70	1.0	1.5	2.3	1.0	15.1	3.30
508294	703	919	3.0	62	1.5	2.0	2.3	2.5	9.0	2.78
508295	625	917	3.0	57	2.5	3.0*	2.0	1.5	10.3	2.71
508297	626	918*	3.0	40	2.0	2.5	3.0	1.5	8.0	2.25
508298	701	918	3.0	52	2.5	3.0*	2.3	--	13.8	1.83
509076	703	921	4.5	60	2.0	2.5	2.8	5.0	7.9	1.10
509078	625	830*	2.5	59	2.0	3.0	3.0	--	27.1	2.68
509080	704	923	4.0	62 <sup>^</sup>	2.5	3.5	2.3	4.0*	6.7	1.22
509081	627	929	2.5	53	2.0	2.5	3.3	1.0	29.5	1.68
509091A	621	917	2.0	56	2.5	3.5	3.0	2.5	17.2	1.95*



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
507410	V	41.7	21.2	12.1	3.1	24.8	54.0	6.0
507416	V	46.4	21.5	12.4	3.0	36.5	44.1	3.9
507417	V	44.1	20.3	12.1	3.0	41.3	40.0	3.6
507420	V	45.8	21.2	12.1	3.1	36.2	44.6	4.1
507426	V	42.2	20.8	13.2	3.0	23.5	54.2	6.2
507427	V	43.7	19.7	12.0	2.4	35.8	45.5	4.3
507433	V	44.1	20.2	12.6	2.4	23.4	55.3	6.3
507437	V	42.2	19.8	14.5	2.7	22.9	53.7	6.1
507438	VI	42.0	20.6	11.8	3.0	26.4	53.0	5.8
507450	V	46.5	18.7	13.2	2.8	25.4	52.5	6.0
507453	V	42.7	20.4	15.4	3.3	23.3	52.0	6.1
507454	V	40.8	20.2	12.2	2.7	29.5	49.9	5.6
507462	V	45.4 <sup>w</sup>	17.3 <sup>w</sup>	12.6	3.0	19.9	58.1	6.5
507463	V	42.9	19.0	12.9	3.1	18.8	58.4	6.9
507469	VI	42.9	17.8	13.0	2.3	28.8	49.2	6.7
507474	V	39.5	21.1	12.9	3.0	19.7	57.4	7.0
507475	V	42.8	19.7	12.5	3.2	21.6	57.8	4.9
507477	VI	45.5	18.4	12.5	3.1	37.4	42.3	4.7
507482	V	42.4	18.6	11.2	2.7	28.9	51.8	5.4
507485	V	41.0 <sup>w</sup>	20.1 <sup>w</sup>	12.2	2.6	20.7	57.4	7.1
507489	VI	41.5	18.9	12.7	3.2	25.7	52.9	5.5
507490	V	43.8	18.9	12.9	3.0	21.0	57.0	6.1
507498	V	42.1	20.3	12.0	3.0	24.7	54.5	5.8
507510	V	46.1 <sup>w</sup>	19.5 <sup>w</sup>	13.6	3.2	21.2	54.9	7.1
507518	V	45.0	20.3	11.8	2.6	25.8	54.0	5.9
507532	V	40.3 <sup>w</sup>	19.6 <sup>w</sup>	12.9	2.9	21.4	56.1	6.8
507534	V	40.8	18.6	11.8	3.1	25.7	53.8	5.7
507537	VI	42.8	19.7	12.5	3.4	20.9	57.1	6.1
507545	V	42.0	19.6	13.7	3.1	22.9	54.3	6.0
507549	V	44.9 <sup>w</sup>	18.4 <sup>w</sup>	12.9	2.5	25.3	52.6	6.7
507550	V	40.4	21.8	11.8	3.2	27.0	52.2	5.8
507551	V	41.9	19.9	13.0	3.1	22.9	54.2	6.7
507560	V	41.7	18.8	12.6	2.7	25.6	52.7	6.5
507566	V	46.0 <sup>w</sup>	20.5 <sup>w</sup>	11.3	2.7	22.6	57.6	5.8
507575	VI	42.8	18.9	12.9	3.3	18.3	58.3	7.2
507578	V	43.7	19.2	12.9	2.8	26.7	52.0	5.6
507690	V	38.7	21.3	13.1	2.8	23.3	55.5	5.4
508294	V	46.8	18.2	14.2	3.3	19.7	55.8	6.9
508295	V	44.9	18.7	12.5	2.7	22.9	56.8	5.1
508297	V	45.6	19.8	13.5	3.0	24.7	53.8	5.0
508298	V	48.9 <sup>w</sup>	18.1 <sup>w</sup>	11.4	2.6	22.1	57.6	6.3
509076	V	47.1 <sup>w</sup>	16.3 <sup>w</sup>	11.7	3.0	23.5	55.4	6.4
509078	V	47.1 <sup>w</sup>	20.5 <sup>w</sup>	11.7	2.9	35.4	45.8	4.2
509080	V	48.3 <sup>w</sup>	16.0 <sup>w</sup>	12.5	3.7	22.9	54.8	6.0
509081	V	47.1 <sup>w</sup>	19.5 <sup>w</sup>	12.6	3.0	26.7	51.3	6.5
509091A	V	46.1	18.5	14.2	3.2	20.3	55.7	6.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
509091B		Cholla Puk	South Korea	South Korea	1987	V
509092		Cholla Nam	South Korea	South Korea	1987	V
509096		Kyongsang Nam	South Korea	South Korea	1987	V
509097		Kyongsang Nam	South Korea	South Korea	1987	V
509098		Kyongsang Nam	South Korea	South Korea	1987	V
509099		Kyongsang Nam	South Korea	South Korea	1987	V
509101		Kyongsang Nam	South Korea	South Korea	1987	V
509103		Kyongsang Puk	South Korea	South Korea	1987	V
509106		Kyongsang Puk	South Korea	South Korea	1987	V
509109		Kyongsang Puk	South Korea	South Korea	1987	V
509110A		Kyongsang Puk	South Korea	South Korea	1987	V
509110B		Kyongsang Puk	South Korea	South Korea	1987	V
518291B	(Ta lien tou)	Liaoning	China	China	1988	V
518723	Su xie No. 1	Jiangsu	China	China	1988	V
518728	Xiao li huang	Guangdong	China	China	1988	V
518729	Xing ning da li huang	Guangdong	China	China	1988	V
518759	Kaohsiung 10	unknown	Taiwan	Taiwan	1988	VI
518825	Aka mame	Hokkaido	Japan	Japan	1988	V
518833		unknown	Japan	Japan	1988	VI
538402A	AV 68	unknown	Taiwan	Taiwan	1989	V
538402B	(AV 68)	unknown	Taiwan	Taiwan	1989	VII
549018		Ningxia	China	China	1990	V
549019		Ningxia	China	China	1990	V
549020	Lu cha dou	Liaoning	China	China	1990	V
549021B	(Na hei dou)	Liaoning	China	China	1990	V
549023A	Na xiao lu dou	Liaoning	China	China	1990	V
549023B	(Na xiao lu dou)	Liaoning	China	China	1990	V
549024	Na hong dou	Liaoning	China	China	1990	V
549025	Da tu huang	Liaoning	China	China	1990	V
549026	Gao li huang	Liaoning	China	China	1990	V
549027B	(Tian er dan)	Liaoning	China	China	1990	V
549028	Feng da li	Liaoning	China	China	1990	V
549045B		Shaanxi	China	China	1990	V
561271	Pei xian da quing dou	Zhejiang	China	China	1990	V
561287B	(AGS 290)	unknown	Taiwan	Taiwan	1991	V
561290	Blue Side	unknown	Taiwan	Taiwan	1991	V
561291	G9053	unknown	Taiwan	Taiwan	1991	V
561360	Gedenshirazu	Nagano	Japan	Japan	1991	VI
561361	Tosan 75	Kanto	Japan	Japan	1991	V
561362	Tosan 93	Kanto	Japan	Japan	1991	V
561363	Tosankei NA144	Kanto	Japan	Japan	1991	V
561372	Fen dou 33	Shanxi	China	China	1991	V
561373	Fen dou 34	Shanxi	China	China	1991	V
561375	Qi huang No. 1	Shandong	China	China	1991	V
561378	Guanyun da hei dun	Jiangsu	China	China	1991	V
561379A	Sudo No. 1	Jiangsu	China	China	1991	VI

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
509091B	V	D	W	G	Sa	N	Tn	I	Y	Y		3N
509092	V	D	P	G	E	Ssp	Br	I	Gn	Bf	Gnc	3N
509096	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
509097	V	D	W	T	Sa	Ssp	Tn	D	Y	Bl		3N
509098	V	D	P	G	E	Ssp	Tn	I	Y	Y		3N
509099	V	D	P	T	Sa	Ssp	Br	I	Bl	Bl	Net	3N
509101	V	D	P	T	A	Ssp	Br	I	Br	Br		1N
509103	V	D	P	T	Sa	N	Bl	I	Rbr	Rbr	Snet	3N
509106	V	D	P	T	Sa	Ssp	Br	I	Ggn	Ggn		3N
509109	V	D	P	G	E	N	Br	D	Gn	Bf	Gnc	3N
509110A	V	D	P	G	Sa	Ssp	Br	I	Gn	Gn	Def, Gnc, Vhil	3N
509110B	V	D	P	T	E	Ssp	Br	D	Ggn	G	Vsc	3N
518291B	V	N	W	G	A	N	Br	I	Y	Bf		3N
518723	V	D	W	G	A	Ssp	Tn	I	Y	Bf		4N
518728	V	N	P	T	A	N	Tn	I	Y	Br		3N
518729	V	S	P	T	A	N	Tn	I	Y	Bl		3N
518759	VI	N	P	G	A	Ssp	Br	I	Y	Bf		3N
518825	V	D	W	G	Sa	Ssp	Br	I	Rbf	Ib		2N
518833	VI	D	P	G	Sa	N	Tn	I	Y	Y		3N
538402A	V	N	P	T	E	N	Br	I	Y	Bl		3N
538402B	VII	D	W	T	A	N	Br	I	Y	Br		3N
549018	V	N	W	T	A	N	Br	D	Gn	Brbl	Sw	3F
549019	V	N	W	T	A	N	Br	I	Bl	Bl	Sw	3F
549020	V	D	W	Lt	E	Ssp	Br	I	Gn	Bl	Gnc	3N
549021B	V	D	P	T	A	Ssp	Br	S	Bl	Bl	Gnc, Na	2N
549023A	V	D	W	G	Sa	Ssp	Br	I	Gn	Gn		3N
549023B	V	D	W	G	Sa	Ssp	Dbr	I	Y	Y		3N
549024	V	D	W	G	Sa	Ssp	Br	D	Rbf	Rbf		4N
549025	V	D	P	T	Sa	Ssp	Dbr	I	Y	Br		3N
549026	V	D	W	G	Sa	N	Br	I	Y	Bf		3N
549027B	V	S	P	G	E	Ssp	Br	I	Y	Y		3N
549028	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl		2N
549045B	V	N	P	T	A	N	Bl	B	Bl	Bl	Flk, Sw	5F
561271	V	N	W	G	A	N	Br	I	Gn	Bf		4N
561287B	V	D	P	T	E	N	Tn	D	Y	Br	Abh	3N
561290	V	D	P	T	A	Ssp	Br	I	Gn	Br	Gnc	3N
561291	V	D	P	G	Sa	Ssp	Br	I	Y	Y		3N
561360	VI	D	P	G	A	N	Br	I	Y	Y	Def	3N
561361	V	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
561362	V	D	P	G	A	N	Tn	I	Y	Bf		2N
561363	V	D	P	G	E	N	Br	S	Y	Y	Na	3N
561372	V	D	P	G	Sa	N	Dbr	I	Y	Y		3N
561373	V	D	P	G	Sa	N	Br	I	Y	Y		3N
561375	V	N	P	G	A	N	Br	I	Y	Y		3N
561378	V	D	P	T	A	N	Br	I	Brbl	Brbl	Snet	3N
561379A	VI	D	P	G	Sa	Ssp	Tn	I	Y	Bf	Vhil	4N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
509091B	626	917	2.5	35	1.0	1.5	2.3	1.5	12.4	1.78
509092	621	919	3.0	64	2.0	3.0	2.8	1.5	17.4	2.24
509096	621	919	2.0	49*	2.0	3.0	3.0	--	19.2*	1.91*
509097	629	917	4.0	49	2.0	3.0	3.3*	4.0	10.4	1.64
509098	623	920	2.5	41	1.0	1.5	3.0*	1.0	8.0	2.26
509099	626	928	3.0	46	1.5	2.5	3.3	--	18.4	1.81*
509101	709^	930^	2.0^	41^	2.0^	2.0^	2.5^	--	11.9^	2.04^
509103	626	919	3.0	59*	2.5	3.0*	2.8	--	16.0	2.66*
509106	701	917	2.0	59	2.0	3.0	3.0	1.0	13.2	2.29
509109	626	919	3.0	59*	1.0	2.0	3.3	2.0	18.7	1.81
509110A	621	916	2.5	40	2.5	3.5	3.3	1.0	25.0	2.08
509110B	626	919	3.0	44	2.0	3.0	3.5	2.5	25.3	1.28
518291B	621	923	4.0	112*	3.0	5.0	3.3	1.5	14.6	1.59
518723	704	927	3.0	88	2.0	3.0	3.0	2.0	13.2	1.82
518728	723	930	5.0	125*	2.0	3.0	2.5	3.0*	10.4	1.02
518729	713	928	4.0	103	2.0	3.0	3.3	1.5	16.0	1.95
518759	703	1007	4.5	124*	2.0	2.5	3.3	1.5	13.7	1.69
518825	621	1002	2.0	37	2.0	3.0	3.8	--	26.2*	0.78*
518833	701	1003	3.0	54	2.0*	3.0*	3.0	1.5	7.7	2.45
538402A	713	921	4.0	109*	3.0	4.0	3.3*	2.0	10.9	1.15*
538402B	712	1026	5.0	118*	2.0	2.5	3.3	2.5	12.8*	0.25
549018	703	927	5.0	100	4.0	5.0	4.3	1.5	2.9	0.14
549019	707	925	5.0	100	4.0	5.0	2.8	--	3.2	0.24
549020	629	904	3.5	62	2.5	3.5	2.5	1.0	17.8	1.64*
549021B	624	918	2.0	33	2.0	2.5	2.0	--	9.4	1.50
549023A	615	927	2.0	21	2.5	3.5	2.8*	2.5	13.2	0.59
549023B	615	929	2.0	20	2.0	3.0	3.3	2.5	14.5*	0.48
549024	617	915*	2.0	25	2.0	3.0^	3.0*	--	10.5	0.30
549025	623	917	2.0	38	2.0	3.5	3.0	2.5	19.0*	1.77*
549026	627	911	2.5	76*	2.0	3.0	3.5	1.0	19.2	2.32*
549027B	623	907*	2.5	30*	2.5	3.5	3.8*	1.0	19.4*	0.20
549028	621	923	2.0	45	3.0	4.0	3.5	2.0	23.2*	0.98*
549045B	717	929	5.0	100	2.5	4.0	2.5^	--	2.1^	0.51^
561271	702	925	5.0	114*	3.0	4.0	3.8	1.0	15.6	0.79
561287B	617	907	3.5	78	2.5	4.0*	2.8	1.5	13.9	2.58
561290	621	1002	2.0	41*	2.0	2.5	3.0	1.0	20.5	1.38*
561291	625	1002	2.5	55	1.5	2.5	3.8	2.5	25.3	1.54*
561360	708	1014	3.0	72*	1.5	2.5	4.3	1.5	21.6*	1.63*
561361	620	927	2.0	44	3.0	4.5	3.3	1.0	17.9	1.91
561362	703^	920^	2.0^	52^	1.0^	2.0^	2.0^	1.0^	19.2^	3.53^
561363	623	923	2.5	55	1.0	2.0	2.0	1.0	9.1	3.07*
561372	621	919	2.0	42	2.5	3.5	2.5	1.0	13.5	2.83
561373	621	919	2.0	45	2.5	3.5	2.3	1.0	14.5	2.55*
561375	628	911	3.5	96	3.0*	5.0	2.0	1.0	15.4	2.82
561378	701	919	3.5	80*	2.0	3.0	2.5	--	22.6	3.03
561379A	713	1006	3.0	85*	2.0	4.0	3.5	2.0	15.5	1.50

Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
509091B	V	44.3	19.1	13.5	3.0	20.5	56.4	6.6
509092	V	42.8 <sup>w</sup>	20.1 <sup>w</sup>	11.6	3.9	18.9	58.8	6.8
509096	V	42.7 <sup>w</sup>	21.5 <sup>w</sup>	12.6	3.3	19.5	57.4	7.2
509097	V	46.5 <sup>w</sup>	19.6 <sup>w</sup>	12.1	3.8	26.1	52.9	5.2
509098	V	45.4	19.2	13.2	3.4	22.7	55.1	5.7
509099	V	42.4 <sup>w</sup>	20.1 <sup>w</sup>	11.6	3.3	21.1	57.3	6.8
509101	V	40.8 <sup>w^</sup>	18.8 <sup>w^</sup>	11.8 <sup>^</sup>	2.8 <sup>^</sup>	22.1 <sup>^</sup>	55.7 <sup>^</sup>	7.6 <sup>^</sup>
509103	V	42.5 <sup>w</sup>	19.1 <sup>w</sup>	11.1	2.9	16.2	62.2	7.7
509106	V	42.6 <sup>w</sup>	20.6 <sup>w</sup>	10.7	3.2	20.1	58.6	7.5
509109	V	43.6 <sup>w</sup>	19.9 <sup>w</sup>	11.3	3.4	22.6	56.0	6.6
509110A	V	44.1 <sup>w</sup>	20.5 <sup>w</sup>	11.5	3.6	22.6	56.1	6.2
509110B	V	49.4 <sup>w</sup>	19.2 <sup>w</sup>	12.3	3.0	24.1	54.6	6.0
518291B	V	47.0	19.9	12.7	3.4	24.6	54.7	4.6
518723	V	47.0	17.5	14.9	3.0	32.5	44.9	4.6
518728	V	44.9 <sup>w</sup>	16.4 <sup>w</sup>	12.7	3.2	30.3	47.8	6.0
518729	V	45.2	17.4	14.5	3.1	29.2	47.7	5.5
518759	VI	43.1	20.0	13.6	3.5	24.1	53.0	5.9
518825	V	44.5 <sup>w</sup>	18.1 <sup>w</sup>	12.8	2.8	21.7	55.8	6.9
518833	VI	44.3	16.4	13.3	2.5	21.2	55.9	7.2
538402A	V	42.3	19.3	13.9	3.7	28.8	48.5	5.1
538402B	VII	43.6	18.9	13.4	3.8	29.7	47.4	5.7
549018	V	48.7 <sup>w</sup>	10.1 <sup>w</sup>	14.3	3.6	19.4	54.3	8.5
549019	V	44.7 <sup>w</sup>	10.0 <sup>w</sup>	13.7	3.7	20.9	53.1	8.5
549020	V	45.5 <sup>w</sup>	20.0 <sup>w</sup>	12.2	3.6	20.3	56.7	7.2
549021B	V	42.3 <sup>w</sup>	18.8 <sup>w</sup>	12.2	3.5	17.2	58.5	8.5
549023A	V	45.9 <sup>w</sup>	17.5 <sup>w</sup>	11.9	2.9	31.0	48.3	5.9
549023B	V	44.8	19.0	12.8	3.2	33.6	45.4	4.9
549024	V	46.6 <sup>w</sup>	15.8 <sup>w</sup>	12.8	3.1	30.5	47.0	6.5
549025	V	42.0	19.7	12.4	3.4	24.2	54.6	5.3
549026	V	43.9	21.2	12.7	3.3	39.7	40.7	3.7
549027B	V	46.5	18.8	14.2	3.1	23.3	53.3	6.1
549028	V	44.5 <sup>w</sup>	19.6 <sup>w</sup>	13.1	3.0	24.2	52.5	7.2
549045B	V	50.2 <sup>w^</sup>	9.8 <sup>w^</sup>	12.7 <sup>^</sup>	3.7 <sup>^</sup>	14.4 <sup>^</sup>	58.4 <sup>^</sup>	10.8 <sup>^</sup>
561271	V	48.1 <sup>w</sup>	17.5 <sup>w</sup>	13.0	2.7	24.5	52.7	7.1
561287B	V	42.3	19.2	13.0	2.9	29.2	50.0	4.8
561290	V	43.5 <sup>w</sup>	19.2 <sup>w</sup>	12.2	3.2	24.1	54.3	6.2
561291	V	43.1	20.3	11.6	3.0	24.2	55.4	5.7
561360	VI	43.7	19.0	15.3	3.5	27.7	47.9	5.6
561361	V	41.4	21.8	13.0	2.6	28.9	49.6	5.9
561362	V	41.8 <sup>^</sup>	22.4 <sup>^</sup>	13.4 <sup>^</sup>	2.8 <sup>^</sup>	33.0 <sup>^</sup>	44.7 <sup>^</sup>	6.1 <sup>^</sup>
561363	V	40.3	20.5	13.0	3.5	18.1	57.8	7.6
561372	V	40.0	19.3	14.7	3.0	20.3	54.7	7.4
561373	V	41.7	18.9	14.4	3.0	22.3	53.4	6.9
561375	V	42.7	18.1	12.9	2.6	35.7	43.8	5.0
561378	V	44.3 <sup>w</sup>	21.0 <sup>w</sup>	12.6	3.3	20.3	57.1	6.7
561379A	VI	44.6	18.0	13.9	2.7	26.9	50.6	5.9

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity group V,  
PI 416758 to PI 561398

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
561379B	(Sudo No. 1)	Jiangsu	China	China	1991	VI
561380	Qingyuan da qingdou	Guangdong	China	China	1991	VI
561381	Shangrao da qingsi	Jiangxi	China	China	1991	VII
561382	Shangrao wan qingsi	Jiangxi	China	China	1991	VII
561387	Kosuzu	unknown	Japan	Japan	1991	V
561390	Takanowa	unknown	Japan	Japan	1991	V
561391	Tomahomare	unknown	Japan	Japan	1991	VI
561392	Tsuronoko	Nagano	Japan	Japan	1991	V
561393	Ootura	Nagano	Japan	Japan	1991	V
561395	Suzuyutaka	unknown	Japan	Japan	1991	V
561396	Tachinagaha	unknown	Japan	Japan	1991	V
561397	Tousan 122	Kanto	Japan	Japan	1991	V
561398	Tousan 140	Kanto	Japan	Japan	1991	V

Table 2.2. Descriptive data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
561379B	VI	D	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
561380	VI	N	P	T	A	N	Br	I	Gn	Br	Sdef	3N
561381	VII	S	P	T	A	N	Tn	I	Lgn	Dbr		4N
561382	VII	S	P	T	A	N	Tn	I	Gn	Bl	Vhil	3N
561387	V	D	W	G	Sa	Ssp	Tn	I	Y	Lbf	Vhil	2N
561390	V	D	P	G	Sa	Ssp	Tn	D	Y	Y		3N
561391	VI	D	P	G	A	N	Br	D	Y	Y		3N
561392	V	D	P	G	Sa	N	Br	D	Y	Y	Sdef	2N
561393	V	D	P	G	A	N	Br	I	Y	Y		2N
561395	V	D	P	G	A	Ssp	Br	D	Y	Y	Sdef	2N
561396	V	D	P	G	Sa	N	Br	I	Y	Y		2N
561397	V	D	P	G	Sa	N	Br	D	Y	Y		3N
561398	V	D	W	G	A	N	Br	D	Y	Y	Sdef	3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
561379B	711	1003	3.0	90*	2.0	3.5	3.0	1.5	15.6	2.39
561380	725	1006	4.0	74	2.0	3.0	2.5	3.5	12.4	1.08
561381	723	1028	4.5	125*	1.5	2.5	4.0	2.0	16.7	0.29
561382	717	1119^	3.5	119*	2.0	3.0^	4.0^	2.0^	13.6^	0.22^
561387	703	919	2.5	65	2.5	4.0*	2.8*	1.0	6.6	1.55
561390	626	928	3.0	60	2.5	3.5	2.8*	2.0	7.1	2.24
561391	703	1005	2.5	55	2.0	3.0	3.3	1.5	18.0	1.50
561392	625	917	2.0	58	3.0	4.5	3.0	1.0	23.4	2.00*
561393	621	916	2.0	52	3.0	4.0	3.3	1.5	24.0	2.24
561395	621	822*	2.5	44	2.5	4.5	2.8	1.0	17.4	3.20
561396	621	919	2.0	55	2.5	3.5	3.0	1.5	22.9	2.14*
561397	621	924	2.0	50	2.5	3.5	3.8	1.5	21.2	1.93
561398	623	905	2.5	65*	3.0*	5.0	2.8	1.0	25.0	2.51



Table 4.2. Seed composition data for USDA soybean germplasm in maturity group V, PI 416758 to PI 561398, grown at Stoneville, MS in 2000 and 2002

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
561379B	VI	43.6	18.3	13.7	2.9	27.0	50.9	5.5
561380	VI	47.7 <sup>w</sup>	14.6 <sup>w</sup>	12.0	2.9	22.7	55.3	7.1
561381	VII	47.1 <sup>w</sup>	16.1 <sup>w</sup>	12.5	3.1	25.5	51.4	7.5
561382	VII	47.0 <sup>w^</sup>	16.3 <sup>w^</sup>	11.6 <sup>^</sup>	3.5 <sup>^</sup>	27.1 <sup>^</sup>	50.8 <sup>^</sup>	7.0 <sup>^</sup>
561387	V	41.3	19.6	13.2	3.9	20.5	55.6	6.7
561390	V	45.8	16.5	13.7	2.9	21.8	54.8	6.8
561391	VI	43.2	19.0	12.3	2.6	21.3	56.8	6.9
561392	V	43.4	20.4	13.0	3.1	31.7	47.9	4.4
561393	V	43.3	20.0	11.8	2.8	29.1	51.3	5.0
561395	V	39.9	20.4	13.9	3.0	22.1	54.0	7.0
561396	V	43.1	20.4	12.7	2.8	32.6	47.6	4.3
561397	V	40.4	20.4	12.5	3.0	23.3	55.2	6.0
561398	V	45.1	18.4	14.6	3.0	21.9	55.0	5.5

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
	Bedford	Tennessee	United States	United States	1977	V
	Bradley	Missouri	United States	United States	1983	VI
	Brim	North Carolina	United States	United States	1990	VI
	Cook	Georgia	United States	United States	1991	VIII
	Crockett	Texas	United States	United States	1988	VIII
	Curtis	Louisiana	United States	United States	1958	VI
	Delsoy 4710	Missouri	United States	United States	1991	IV
	Delsoy 4900	Missouri	United States	United States	1989	IV
	Doles	Georgia	United States	United States	1993	VI
	Hagood	South Carolina	United States	United States	1990	VII
	Haskell	Georgia	United States	United States	1993	VII
	Holladay	North Carolina	United States	United States	1993	V
	Hutcheson	Virginia	United States	United States	1987	V
	Jupiter-R	Florida	United States	United States	1982	IX
	Kino	Arizona	United States	United States	1966	VI
	Lyon	Mississippi	United States	United States	1993	VI
	Manokin	Maryland	United States	United States	1991	IV
	Maxcy	South Carolina	United States	United States	1992	VIII
	Pearl	North Carolina	United States	United States	1994	VII
	Stonewall	Alabama	United States	United States	1988	VII
	TN 6-90	Tennessee	United States	United States	1993	VI
	Vernal	Mississippi	United States	United States	1992	VI
81029	Chuseikurome daizu	Hokkaido	Japan	Japan	1929	VI
87002	Ogonta	Kyongsang Puk	South Korea	South Korea	1930	VI
200490	Kiwami	Shikoku	Japan	Japan	1952	VIII
200520	Ono	Shikoku	Japan	Japan	1952	VIII
230976		unknown	Japan	Japan	1956	VI
269518A	Koolat	unknown	Pakistan	Pakistan	1960	VI
269518B	(Koolat)	unknown	Pakistan	Pakistan	1960	VI
269518C	(Koolat)	unknown	Pakistan	Pakistan	1960	VI
374219	Blyvoor	Transvaal	South Africa	South Africa	1972	VI
416778	Aki sengoku (Kyushu 11)	Kyushu	Japan	Japan	1977	VIII
416819A	Bunsei	Kyushu	Japan	Japan	1977	VIII
416826A	Cha sengoku 81	unknown	Japan	Japan	1977	VIII
416826B	(Cha sengoku 81)	unknown	Japan	Japan	1977	VIII
416873B	(Fusanari daizu)	Kyushu	Japan	Japan	1977	VIII
416873C	(Fusanari daizu)	Kyushu	Japan	Japan	1977	VIII
416874A	Fusanari 1	Kyushu	Japan	Japan	1977	IX
416874B	(Fusanari 1)	Kyushu	Japan	Japan	1977	IX
416926A	Hishiumi zairai	Kinki	Japan	Japan	1977	IX
417109	Kyushu 7	Kyushu	Japan	Japan	1977	VIII
417110	Kyushu 8	Kyushu	Japan	Japan	1977	VIII
417111	Kyushu 10	Kyushu	Japan	Japan	1977	VIII
417114	Kyushu 15	Kyushu	Japan	Japan	1977	IX
417118	Kyushu 23	Kyushu	Japan	Japan	1977	IX
417126	Kyushu 32	Kyushu	Japan	Japan	1977	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
Bedford	V	D	W	T	Sa	N	Tn	I	Y	Bl		2N
Bradley	VI	D	W	T	E	N	Tn	I	Y	Bl		2N
Brim	VI	D	W	G	E	N	Br	S	Y	Bf		2N
Cook	VIII	D	P	T	A	N	Tn	I	Y	Bl		2N
Crockett	VIII	D	P	T	Sa	N	Tn	D	Y	Br		2N
Curtis	VI	D	P	G	E	N	Tn	S	Y	Ib	Vhil	2N
Delsoy 4710	IV	N	P	T	E	N	Tn	I	Y	Bl		2N
Delsoy 4900	IV	D	P	T	E	N	Tn	D	Y	Lbr		2N
Doles	VI	D	W	T	E	N	Tn	S	Y	Bl		1N
Hagood	VII	D	W	G	A	N	Tn	S	Y	Bf	Vhil	2N
Haskell	VII	D	P	T	E	N	Tn	I	Y	Bl		3N
Holladay	V	D	P	G	E	N	Tn	I	Y	Ib		2N
Hutcheson	V	D	W	G	Sa	N	Tn	D	Y	Bf		2N
Jupiter-R	IX	D	P	T	A	N	Tn	I	Y	Br	Vhil	3N
Kino	VI	D	P	T	Sa	N	Tn	I	Y	Bl		2N
Lyon	VI	D	W	T	E	N	Tn	I	Y	Bl		2N
Manokin	IV	D	W	T	E	N	Tn	I	Y	Bl		3N
Maxcy	VIII	D	P	T	E	N	Tn	I	Y	Bl		2N
Pearl	VII	D	W	G	E	N	Tn	S	Y	Y	Na, Vhil	2N
Stonewall	VII	D	W	T	E	N	Tn	D	Y	Bl		2N
TN 6-90	VI	D	W	T	E	N	Tn	I	Y	Bl		2N
Vernal	VI	D	W	G	Sa	N	Tn	I	Y	Bf	Vhil	2N
81029	VI	N	P	T	E	N	Br	I	Y	Bl		2N
87002	VI	D	W	T	Sa	Ssp	Tn	I	Y	G		2N
200490	VIII	N	P	T	Sa	Ssp	Dbr	I	Gn	Brbl		3N
200520	VIII	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	2N
230976	VI	D	P	T	A	Ssp	Tn	I	Lgn	Br		3N
269518A	VI	N	P	T	A	Ssp	Dbr	I	Y	Br		4F
269518B	VI	N	P	T	A	N	Br	I	Br	Br		5F
269518C	VI	N	P	T	Sa	N	Dbr	I	Br	Br		5F
374219	VI	N	W	G	Sa	N	Br	I	Y	Bf		2N
416778	VIII	N	W	G	Sa	N	Tn	I	Y	Bf		2N
416819A	VIII	D	P	T	A	N	Br	I	Y	Brbl	Vhil	4N
416826A	VIII	D	P	T	Sa	N	Br	D	Br	Br		3N
416826B	VIII	D	P	T	Sa	N	Br	D	Br	Br		3N
416873B	VIII	D	P	T	Sa	N	Br	I	Y	Br		3N
416873C	VIII	D	W	T	A	N	Br	I	Y	Br		3N
416874A	IX	N	P	T	A	N	Tn	I	Y	Br		3N
416874B	IX	N	P	T	A	Ssp	Br	I	Y	Br		4N
416926A	IX	D	P	G	Sa	N	Tn	I	Y	Bf		3N
417109	VIII	N	P	G	A	N	Tn	I	Y	Bf		4N
417110	VIII	N	P	T	A	N	Br	I	Y	Br		3N
417111	VIII	D	W	G	Sa	N	Br	I	Y	Bf		3N
417114	IX	N	W	G	A	N	Br	I	Y	Bf	Vhil	3N
417118	IX	N	P	G	A	N	Tn	I	Y	Bf		3N
417126	VIII	D	W	G	Sa	N	Br	I	Y	Bf	Def	2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
Bedford	714	1001	2.5	83	1.5	1.5	2.2	4.0	11.3	2.24
Bradley	713	1009	2.0	80	1.0	1.5	1.8*	2.0*	10.8	2.58*
Brim	717	1013	3.0	110*	1.0	1.0	2.0	1.5	12.1	4.22
Cook	725	1023	2.5	118	1.5	2.5	1.5	1.0	13.7	3.94*
Crockett	809	1106*	3.5	111	1.0	1.5	1.8	1.5	10.2	2.06
Curtis	719	1013	3.0	86	1.0	1.0	1.8	1.0	10.5	2.60
Delsoy 4710	629	914	1.0	89*	2.0	2.0	3.0*	2.0*	14.6	2.21^
Delsoy 4900	701	915	1.0	68	1.5	2.0	2.0	1.5	16.4*	2.87
Doles	715	1009	3.0	85*	1.0	1.0	1.8	1.5	10.5	3.52
Hagood	727	1019	2.0	124*	1.0	1.5	1.5	1.0	12.3	3.46
Haskell	723	1019	4.0	99*	1.0	1.5	1.8	1.0	14.1	3.59
Holladay	709	927	1.5	65	1.5	1.5	2.5	1.0	14.7*	3.30
Hutcheson	711	929	2.0	69*	1.0	1.0	2.0	1.0	14.5	3.74
Jupiter-R	824	1114	4.0	152	1.5	2.0*	3.0^	3.0^	14.7*	0.12
Kino	721	1012	2.0	85	1.0	1.5	2.0	1.5	11.5	2.95*
Lyon	715	1011	3.0	86	1.0	1.0	2.0	2.5	12.8	3.59
Manokin	708	922	1.0	72*	1.5	2.0*	2.8	2.0*	13.1	2.86
Maxcy	723	1025	2.5	118*	1.0	1.0	1.5	1.0	13.3	3.46*
Pearl	726	1018	3.0	86	1.0	2.0	1.8	1.5	7.5	2.98
Stonewall	713	1013	3.0	108	1.0	1.5	1.8	1.5	15.8	3.88
TN 6-90	717	1013	3.0	98	1.0	2.0^	1.8	1.5	14.5	4.22
Vernal	725	1008	3.0	121*	1.0	1.0	2.2	2.0	11.4	3.10
81029	723	1014	3.0	142*	1.0	2.0	3.2	3.5	13.6	1.40*
87002	731	1011	3.0	87*	1.0	1.0	3.0	4.5	15.2	1.95
200490	820	1110	3.0	108	1.0	2.0	3.0	5.0	8.6^	0.48
200520	808	1102*	3.5	136*	1.0	1.0^	2.0	2.5	11.4	1.34*
230976	721	1011	3.0	75	1.0	2.0	2.2	2.0	15.0	2.09*
269518A	730	1009	4.5	81	3.0	4.0	2.8*	4.5	6.5	0.53
269518B	801	1007	5.0	90*	3.0	4.0	3.2	--	5.5	0.27
269518C	808	1007	4.0	74	3.0	4.0	3.0	--	6.1	0.45
374219	719	1011	4.0	126	1.5	3.0	3.0	2.0	16.1	3.18
416778	818^	1117^	2.0^	90^	1.0^	2.0^	1.0^	1.0^	16.1^	2.95^
416819A	818^	1117^	2.0^	100^	1.0^	2.0^	3.0^	3.0^	21.4^	1.12^
416826A	812^	1031^	3.0^	102^	2.0^	3.0^	2.0^	--	6.8^	2.16^
416826B	815^	1031^	3.0^	83^	2.0^	3.0^	2.0^	--	7.0^	0.20^
416873B	815^	1117^	3.0^	112^	1.0^	2.0^	2.0^	2.0^	15.1^	2.22^
416873C	815^	1117^	3.0^	117^	1.0^	2.0^	2.5^	2.0^	16.5^	1.51^
416874A	815^	1117^	4.0^	120^	1.0^	2.0^	2.5^	2.0^	15.7^	0.77^
416874B	811^	1117^	4.0^	130^	1.0^	2.0^	4.0^	3.0^	16.3^	0.80^
416926A	815^	1117^	3.0^	90^	2.0^	-	2.5^	2.0^	22.1^	0.28^
417109	815^	1117^	2.0^	90^	2.0^	-	2.5^	4.0^	16.3^	0.95^
417110	811^	1117^	2.0^	95^	1.0^	2.0^	3.0^	3.0^	20.5^	1.40^
417111	815^	1101^	3.0^	95^	1.0^	2.0^	1.0^	1.0^	16.0^	3.08^
417114	815^	1117^	3.0^	98^	2.0^	3.0^	2.5^	3.0^	18.1^	1.04^
417118	815^	1117^	3.0^	75^	2.0^	3.0^	2.5^	3.0^	17.5^	0.27^
417126	704^	1101^	1.0^	97^	1.0^	1.0^	2.0^	1.0^	11.1^	1.97^

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Bedford	V	42.2 <sup>w</sup>	19.0 <sup>w</sup>	11.1	3.8	27.7	51.6	5.7
Bradley	VI	43.6	18.7	12.5	3.5	20.6	56.2	7.2
Brim	VI	44.4	18.3	12.2	3.8	21.7	55.3	7.0
Cook	VIII	42.3	18.6	12.8	2.7	18.9	57.7	7.9
Crockett	VIII	42.8	17.2	12.5	2.7	19.6	56.9	8.3
Curtis	VI	45.1	17.8	12.1	3.6	19.3	57.7	7.2
Delsoy 4710	IV	41.2	19.5	11.5	4.7	20.0	56.7	7.1
Delsoy 4900	IV	42.3	19.7	11.7	3.8	28.9	50.3	5.4
Doles	VI	42.5	20.1	12.4	3.3	18.8	58.4	7.1
Hagood	VII	43.2	18.9	12.4	3.6	20.9	57.0	6.1
Haskell	VII	41.1	19.8	12.9	4.0	19.4	57.2	6.4
Holladay	V	39.3	20.3	12.1	3.7	19.7	57.3	7.1
Hutcheson	V	41.5	19.3	12.3	4.2	19.6	56.8	7.1
Jupiter-R	IX	47.3 <sup>^</sup>	15.6 <sup>^</sup>	12.1 <sup>^</sup>	3.3 <sup>^</sup>	19.1 <sup>^</sup>	57.4 <sup>^</sup>	8.1 <sup>^</sup>
Kino	VI	42.9	18.9	11.5	3.8	18.9	58.8	7.0
Lyon	VI	42.7	19.6	11.9	3.9	22.0	55.2	7.0
Manokin	IV	42.2	20.4	12.1	4.2	27.0	51.2	5.5
Maxcy	VIII	41.1	19.1	12.4	4.4	19.8	57.8	7.1
Pearl	VII	41.9	17.5	12.6	4.1	16.1	58.4	8.8
Stonewall	VII	43.0	19.3	12.3	3.6	21.1	56.9	6.2
TN 6-90	VI	43.0	19.3	12.8	3.8	20.8	55.8	6.8
Vernal	VI	42.7	19.0	11.7	3.2	26.2	52.5	6.4
81029	VI	44.4	18.1	12.1	3.7	21.0	56.5	6.7
87002	VI	44.2 <sup>w</sup>	17.2 <sup>w</sup>	11.9	3.8	19.2	52.1	13.1
200490	VIII	44.3 <sup>w^</sup>	16.5 <sup>w^</sup>	10.9	3.1	18.1	59.7	8.1
200520	VIII	44.4	17.0	12.2	3.7	18.9	58.2	6.9
230976	VI	44.6 <sup>w</sup>	16.5 <sup>w</sup>	11.6	3.1	18.4	58.4	8.5
269518A	VI	45.0 <sup>w</sup>	13.2 <sup>w</sup>	13.1	3.4	15.9	58.8	8.8
269518B	VI	44.8 <sup>w^</sup>	15.3 <sup>w^</sup>	11.8	3.9	18.5	56.9	9.0
269518C	VI	43.3 <sup>w^</sup>	16.8 <sup>w^</sup>	13.0	3.8	17.1	57.4	8.8
374219	VI	42.3	19.7	11.3	3.5	22.8	55.4	7.0
416778	VIII	43.0 <sup>^</sup>	17.3 <sup>^</sup>	11.9 <sup>^</sup>	4.1 <sup>^</sup>	18.0 <sup>^</sup>	57.6 <sup>^</sup>	8.4 <sup>^</sup>
416819A	VIII	47.8 <sup>^</sup>	15.4 <sup>^</sup>	11.8 <sup>^</sup>	3.7 <sup>^</sup>	17.3 <sup>^</sup>	59.7 <sup>^</sup>	7.6 <sup>^</sup>
416826A	VIII	-	-	11.4 <sup>^</sup>	3.5 <sup>^</sup>	13.4 <sup>^</sup>	63.2 <sup>^</sup>	8.6 <sup>^</sup>
416826B	VIII	-	-	11.2 <sup>^</sup>	3.5 <sup>^</sup>	13.6 <sup>^</sup>	62.9 <sup>^</sup>	8.8 <sup>^</sup>
416873B	VIII	46.5 <sup>^</sup>	16.6 <sup>^</sup>	12.5 <sup>^</sup>	3.8 <sup>^</sup>	16.4 <sup>^</sup>	59.9 <sup>^</sup>	7.3 <sup>^</sup>
416873C	VIII	47.5 <sup>^</sup>	15.9 <sup>^</sup>	12.2 <sup>^</sup>	4.0 <sup>^</sup>	17.0 <sup>^</sup>	59.7 <sup>^</sup>	7.1 <sup>^</sup>
416874A	IX	45.9 <sup>^</sup>	15.8 <sup>^</sup>	11.8 <sup>^</sup>	3.3 <sup>^</sup>	18.0 <sup>^</sup>	59.6 <sup>^</sup>	7.3 <sup>^</sup>
416874B	IX	45.5 <sup>^</sup>	17.6 <sup>^</sup>	11.8 <sup>^</sup>	3.8 <sup>^</sup>	19.4 <sup>^</sup>	58.5 <sup>^</sup>	6.4 <sup>^</sup>
416926A	IX	47.7 <sup>^</sup>	15.1 <sup>^</sup>	12.2 <sup>^</sup>	3.9 <sup>^</sup>	17.2 <sup>^</sup>	59.6 <sup>^</sup>	7.2 <sup>^</sup>
417109	VIII	44.5 <sup>^</sup>	17.6 <sup>^</sup>	11.6 <sup>^</sup>	3.6 <sup>^</sup>	18.4 <sup>^</sup>	59.0 <sup>^</sup>	7.4 <sup>^</sup>
417110	VIII	45.3 <sup>^</sup>	17.5 <sup>^</sup>	13.2 <sup>^</sup>	3.7 <sup>^</sup>	15.9 <sup>^</sup>	59.7 <sup>^</sup>	7.4 <sup>^</sup>
417111	VIII	43.0 <sup>^</sup>	18.6 <sup>^</sup>	11.6 <sup>^</sup>	4.4 <sup>^</sup>	18.0 <sup>^</sup>	58.5 <sup>^</sup>	7.5 <sup>^</sup>
417114	IX	44.7 <sup>^</sup>	16.1 <sup>^</sup>	11.7 <sup>^</sup>	3.8 <sup>^</sup>	20.8 <sup>^</sup>	56.8 <sup>^</sup>	6.9 <sup>^</sup>
417118	IX	45.0 <sup>^</sup>	15.4 <sup>^</sup>	12.4 <sup>^</sup>	3.4 <sup>^</sup>	17.3 <sup>^</sup>	59.1 <sup>^</sup>	7.8 <sup>^</sup>
417126	VIII	43.8 <sup>^</sup>	16.8 <sup>^</sup>	11.0 <sup>^</sup>	3.6 <sup>^</sup>	20.2 <sup>^</sup>	57.0 <sup>^</sup>	8.2 <sup>^</sup>

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
417149	Menotake	Kyushu	Japan	Japan	1977	VIII
417317	Shiro daizu	Tokai	Japan	Japan	1977	VIII
417365A	Takimizu	Kyushu	Japan	Japan	1977	VIII
417369	Tamana	Hokuriku	Japan	Japan	1977	VIII
417385	Tochigi cha sengoku	Kinki	Japan	Japan	1977	VIII
417389A	Tokushima daizu 2	Shikoku	Japan	Japan	1977	VIII
417462	Y1	Kyushu	Japan	Japan	1977	IX
417502	L356	unknown	Brazil	Japan	1977	VIII
423958	Asoaogari	Kumamoto	Japan	Japan	1978	VIII
423963	Izumi	Kumamoto	Japan	Japan	1978	VIII
424182C		Kyongsang Puk	South Korea	South Korea	1978	VI
428691		Manipur	India	India	1978	VIII
430736	Kudu	unknown	Zimbabwe	Zimbabwe	1978	VI
430737	Oribi	unknown	Zimbabwe	Zimbabwe	1978	VII
434980A	Indo 180	unknown	C.A.R.	Nigeria	1979	VIII
436567	Zan bian 20	unknown	China	China	1979	VI
441373A		Java	Indonesia	Indonesia	1980	VIII
445848A	Tsieng tou	Zhejiang	China	China	1980	VIII
468965	Con khuong	unknown	Vietnam	Vietnam	1982	VIII
481683	Shauling Kharti	unknown	Bhutan	Bhutan	1983	IX
506530	Ao aki daizu	Kanto	Japan	Japan	1986	VI
506593	Bansei oojiro	Hokuriku	Japan	Japan	1986	VI
509082		Chungchong Nam	South Korea	South Korea	1987	VI
532458	Ba yue bao	Jiangsu	China	China	1989	VIII
532461	19-15	Jiangsu	China	China	1989	VI
566960		East Java	Indonesia	Indonesia	1993	VIII
566961		East Java	Indonesia	Indonesia	1993	VIII
566967A		East Java	Indonesia	Indonesia	1993	VIII
566968A		East Java	Indonesia	Indonesia	1993	VIII
566971A		East Java	Indonesia	Indonesia	1993	VIII
566975		East Java	Indonesia	Indonesia	1993	VIII
566976		East Java	Indonesia	Indonesia	1993	VIII
566977A		East Java	Indonesia	Indonesia	1993	VIII
566977B		East Java	Indonesia	Indonesia	1993	VIII
566978		East Java	Indonesia	Indonesia	1993	VIII
566981		unknown	Taiwan	Indonesia	1993	VIII
566984		unknown	Indonesia	Indonesia	1993	VI
566985A		unknown	Taiwan	Indonesia	1993	VIII
566985B		unknown	Taiwan	Indonesia	1993	VIII
566987A		unknown	Indonesia	Indonesia	1993	VIII
566988A		unknown	Indonesia	Indonesia	1993	VIII
566989A		unknown	Indonesia	Indonesia	1993	VII
566989B		unknown	Indonesia	Indonesia	1993	VIII
566989C		unknown	Indonesia	Indonesia	1993	VIII
566990A		unknown	Indonesia	Indonesia	1993	VIII
566991		unknown	Indonesia	Indonesia	1993	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
417149	VIII	N	P	T	A	N	Br	I	Y	Br		3N
417317	VIII	D	P	T	A	N	Br	I	Y	Br	Snet	3N
417365A	VIII	D	P	T	E	N	Br	I	Y	Brbl	Snet,Vhil	4N
417369	VIII	N	P	T	E	Ssp	Br	I	Gn	Br	Vhil	3N
417385	VIII	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
417389A	VIII	D	P	T	A	N	Tn	I	Y	Brbl		3N
417462	IX	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
417502	VIII	D	W	T	E	N	Br	I	Y	Brbl		3N
423958	VIII	D	P	T	E	Ssp	Br	I	Y	Br		3N
423963	VIII	S	P	T	E	N	Br	I	Y	Br	Def	3N
424182C	VI	D	W	G	E	Ssp	Br	I	Y	Y	Sdef	2N
428691	VIII	D	W	T	Sa	N	Br	I	Y	Br		3N
430736	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
430737	VII	D	P	G	E	N	Tn	S	Y	Y		2N
434980A	VIII	S	P	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
436567	VI	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	2N
441373A	VIII	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
445848A	VIII	D	P	T	A	N	Br	I	Y	Brbl		3N
468965	VIII	D	P	T	A	N	Br	S	Y	Brbl		2N
481683	IX	N	W	T	A	N	Br	I	Y	Brbl		3N
506530	VI	D	P	T	A	N	Br	I	Gn	Br	Vhil	2N
506593	VI	D	P	T	Sa	Ssp	Br	I	Gn	Br		2N
509082	VI	D	P	G	Sa	Ssp	Br	I	Y	Ig	Def	2N
532458	VIII	N	P	T	A	Ssp	Br	I	Gn	Brbl	Gnc	2N
532461	VI	D	W	T	Sa	N	Tn	I	Y	Bl		3N
566960	VIII	N	P	T	E	N	Tn	I	Y	Brbl		3N
566961	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
566967A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
566968A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
566971A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
566975	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
566976	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
566977A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
566977B	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
566978	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
566981	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
566984	VI	D	P	T	Sa	N	Tn	I	Y	Bl		3N
566985A	VIII	N	P	Lt	E	N	Br	I	Y	Brbl		3N
566985B	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
566987A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
566988A	VIII	N	P	T	E	Ssp	Tn	I	Y	Brbl		3N
566989A	VII	D	P	T	E	N	Tn	I	Y	Lbr		3N
566989B	VIII	D	P	T	E	N	Tn	I	Y	Lbr		3N
566989C	VIII	D	P	T	E	N	Br	I	Y	Lbr		3N
566990A	VIII	N	P	T	A	Ssp	Br	I	Y	Brbl		3N
566991	VIII	N	P	T	A	Ssp	Br	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
417149	818 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	113 <sup>^</sup>	2.0 <sup>^</sup>	-	2.5 <sup>^</sup>	3.0 <sup>^</sup>	17.5 <sup>^</sup>	1.34 <sup>^</sup>
417317	815 <sup>^</sup>	1031 <sup>^</sup>	2.0 <sup>^</sup>	75 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.5 <sup>^</sup>	5.0 <sup>^</sup>	18.4 <sup>^</sup>	2.35 <sup>^</sup>
417365A	815 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	127 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	2.0 <sup>^</sup>	17.0 <sup>^</sup>	1.76 <sup>^</sup>
417369	815 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	157 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	16.5 <sup>^</sup>	2.16 <sup>^</sup>
417385	812 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	118 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	--	12.7 <sup>^</sup>	2.76 <sup>^</sup>
417389A	804 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	98 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	2.0 <sup>^</sup>	17.6 <sup>^</sup>	0.87 <sup>^</sup>
417462	828 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	100 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.5 <sup>^</sup>	4.0 <sup>^</sup>	16.0 <sup>^</sup>	0.20 <sup>^</sup>
417502	818 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	163 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	14.4 <sup>^</sup>	1.54 <sup>^</sup>
423958	811 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	94 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	1.0 <sup>^</sup>	1.0 <sup>^</sup>	7.8 <sup>^</sup>	2.30 <sup>^</sup>
423963	811 <sup>^</sup>	1117 <sup>^</sup>	2.0 <sup>^</sup>	106 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	2.0 <sup>^</sup>	14.5 <sup>^</sup>	2.29 <sup>^</sup>
424182C	701	1003	1.0	57	1.0	2.0	2.8	2.5	24.5	1.44
428691	804 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	115 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	18.8 <sup>^</sup>	1.70 <sup>^</sup>
430736	717	1011	2.0	100	1.5	2.0	2.8*	2.0	18.4	2.41*
430737	721	1019	2.0	108	1.0	1.5	2.8	2.5	15.1	2.34*
434980A	804 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	158 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	10.7 <sup>^</sup>	2.12 <sup>^</sup>
436567	801	1011	3.0	110	2.0	2.5	2.2	2.0	13.2	2.88
441373A	824 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	143 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	--	7.6 <sup>^</sup>	0.57 <sup>^</sup>
445848A	824 <sup>^</sup>	1102 <sup>^</sup>	3.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	19.7 <sup>^</sup>	1.18 <sup>^</sup>
468965	728 <sup>^</sup>	1020 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0 <sup>^</sup>	12.2 <sup>^</sup>	1.99 <sup>^</sup>
481683	826 <sup>^</sup>	1117 <sup>^</sup>	3.0 <sup>^</sup>	110 <sup>^</sup>	2.0 <sup>^</sup>	-	4.0 <sup>^</sup>	5.0 <sup>^</sup>	14.3 <sup>^</sup>	0.55 <sup>^</sup>
506530	707	1009	3.0	84	1.0	2.0	2.2	1.0	30.0	2.43
506593	709	1011	2.0	80	4.0	5.0	3.2	1.0	32.0*	1.23
509082	709	1008	2.0	54	2.0	3.0	3.2*	3.0	22.8	1.27
532458	821	1108*	3.0	108	2.0	2.5	2.8	2.0	16.7	1.32*
532461	805	1014	3.0	102	2.0	3.0	2.5	2.0	18.1	1.94
566960	815 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	55 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.1 <sup>^</sup>	1.31 <sup>^</sup>
566961	818 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	112 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	8.7 <sup>^</sup>	1.00 <sup>^</sup>
566967A	815 <sup>^</sup>	1027 <sup>^</sup>	3.0 <sup>^</sup>	160 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.5 <sup>^</sup>	0.78 <sup>^</sup>
566968A	815 <sup>^</sup>	1020 <sup>^</sup>	3.0 <sup>^</sup>	112 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	9.1 <sup>^</sup>	1.31 <sup>^</sup>
566971A	815 <sup>^</sup>	1020 <sup>^</sup>	3.0 <sup>^</sup>	150 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.2 <sup>^</sup>	1.29 <sup>^</sup>
566975	815 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	146 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.4 <sup>^</sup>	0.58 <sup>^</sup>
566976	815 <sup>^</sup>	1026 <sup>^</sup>	3.0 <sup>^</sup>	185 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.3 <sup>^</sup>	0.80 <sup>^</sup>
566977A	815 <sup>^</sup>	1020 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	9.2 <sup>^</sup>	1.17 <sup>^</sup>
566977B	815 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	140 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	7.9 <sup>^</sup>	0.93 <sup>^</sup>
566978	815 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	116 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.3 <sup>^</sup>	1.15 <sup>^</sup>
566981	818 <sup>^</sup>	1027 <sup>^</sup>	3.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.7 <sup>^</sup>	1.08 <sup>^</sup>
566984	731 <sup>^</sup>	1004 <sup>^</sup>	3.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	11.9 <sup>^</sup>	1.09 <sup>^</sup>
566985A	811 <sup>^</sup>	1026 <sup>^</sup>	3.0 <sup>^</sup>	150 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	8.9 <sup>^</sup>	1.43 <sup>^</sup>
566985B	811 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	175 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.7 <sup>^</sup>	1.01 <sup>^</sup>
566987A	811 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	168 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	10.0 <sup>^</sup>	0.73 <sup>^</sup>
566988A	811 <sup>^</sup>	1020 <sup>^</sup>	3.0 <sup>^</sup>	107 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.7 <sup>^</sup>	1.60 <sup>^</sup>
566989A	811 <sup>^</sup>	1010 <sup>^</sup>	4.0 <sup>^</sup>	110 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	1.0 <sup>^</sup>	12.1 <sup>^</sup>	1.86 <sup>^</sup>
566989B	815 <sup>^</sup>	1020 <sup>^</sup>	3.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	1.5 <sup>^</sup>	1.0 <sup>^</sup>	11.2 <sup>^</sup>	1.93 <sup>^</sup>
566989C	818 <sup>^</sup>	1029 <sup>^</sup>	3.0 <sup>^</sup>	134 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	1.0 <sup>^</sup>	9.3 <sup>^</sup>	1.05 <sup>^</sup>
566990A	811 <sup>^</sup>	1031 <sup>^</sup>	4.0 <sup>^</sup>	220 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	9.8 <sup>^</sup>	0.93 <sup>^</sup>
566991	823 <sup>^</sup>	1031 <sup>^</sup>	4.0 <sup>^</sup>	200 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	9.2 <sup>^</sup>	0.48 <sup>^</sup>



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
417149	VIII	48.5 <sup>^</sup>	13.8 <sup>^</sup>	11.6 <sup>^</sup>	3.1 <sup>^</sup>	18.6 <sup>^</sup>	58.5 <sup>^</sup>	8.1 <sup>^</sup>
417317	VIII	45.6 <sup>^</sup>	17.6 <sup>^</sup>	13.1 <sup>^</sup>	3.7 <sup>^</sup>	16.8 <sup>^</sup>	58.8 <sup>^</sup>	7.6 <sup>^</sup>
417365A	VIII	46.1 <sup>^</sup>	15.6 <sup>^</sup>	12.4 <sup>^</sup>	3.5 <sup>^</sup>	17.6 <sup>^</sup>	58.8 <sup>^</sup>	7.7 <sup>^</sup>
417369	VIII	45.6 <sup>^</sup>	16.7 <sup>^</sup>	11.3 <sup>^</sup>	3.5 <sup>^</sup>	18.6 <sup>^</sup>	59.3 <sup>^</sup>	7.3 <sup>^</sup>
417385	VIII	-	-	12.4 <sup>^</sup>	3.7 <sup>^</sup>	16.2 <sup>^</sup>	59.6 <sup>^</sup>	8.1 <sup>^</sup>
417389A	VIII	46.3 <sup>^</sup>	17.4 <sup>^</sup>	12.0 <sup>^</sup>	3.9 <sup>^</sup>	20.8 <sup>^</sup>	57.1 <sup>^</sup>	6.2 <sup>^</sup>
417462	IX	45.7 <sup>^</sup>	16.0 <sup>^</sup>	11.5 <sup>^</sup>	3.6 <sup>^</sup>	17.7 <sup>^</sup>	59.6 <sup>^</sup>	7.6 <sup>^</sup>
417502	VIII	42.9 <sup>^</sup>	19.2 <sup>^</sup>	11.7 <sup>^</sup>	3.2 <sup>^</sup>	17.2 <sup>^</sup>	60.3 <sup>^</sup>	7.6 <sup>^</sup>
423958	VIII	46.9 <sup>^</sup>	15.4 <sup>^</sup>	11.8 <sup>^</sup>	3.6 <sup>^</sup>	15.1 <sup>^</sup>	61.1 <sup>^</sup>	8.3 <sup>^</sup>
423963	VIII	47.6 <sup>^</sup>	16.0 <sup>^</sup>	12.6 <sup>^</sup>	3.1 <sup>^</sup>	15.6 <sup>^</sup>	60.3 <sup>^</sup>	8.4 <sup>^</sup>
424182C	VI	45.2	18.8	12.3	3.5	20.7	56.7	6.8
428691	VIII	47.6 <sup>^</sup>	16.7 <sup>^</sup>	10.8 <sup>^</sup>	4.1 <sup>^</sup>	19.2 <sup>^</sup>	58.5 <sup>^</sup>	7.4 <sup>^</sup>
430736	VI	41.6	18.4	12.5	3.5	22.5	54.4	7.0
430737	VII	43.9	18.2	12.7	3.4	21.8	55.0	7.2
434980A	VIII	42.9 <sup>^</sup>	17.1 <sup>^</sup>	11.9 <sup>^</sup>	4.6 <sup>^</sup>	19.6 <sup>^</sup>	55.9 <sup>^</sup>	8.0 <sup>^</sup>
436567	VI	46.1	17.1	12.0	3.9	24.4	52.3	7.5
441373A	VIII	-	-	12.0 <sup>^</sup>	5.0 <sup>^</sup>	21.8 <sup>^</sup>	53.6 <sup>^</sup>	7.6 <sup>^</sup>
445848A	VIII	47.7 <sup>^</sup>	16.8 <sup>^</sup>	11.3 <sup>^</sup>	4.4 <sup>^</sup>	20.3 <sup>^</sup>	56.3 <sup>^</sup>	7.7 <sup>^</sup>
468965	VIII	45.7 <sup>^</sup>	17.3 <sup>^</sup>	10.9 <sup>^</sup>	4.2 <sup>^</sup>	20.5 <sup>^</sup>	57.1 <sup>^</sup>	7.3 <sup>^</sup>
481683	IX	45.3 <sup>^</sup>	15.7 <sup>^</sup>	11.5 <sup>^</sup>	3.4 <sup>^</sup>	19.6 <sup>^</sup>	59.8 <sup>^</sup>	5.7 <sup>^</sup>
506530	VI	42.7 <sup>w</sup>	18.1 <sup>w</sup>	11.2	3.8	24.5	53.9	6.5
506593	VI	44.9 <sup>w</sup>	16.4 <sup>w</sup>	12.1	2.9	21.1	55.5	8.5
509082	VI	46.7	18.2	12.7	3.4	25.4	51.7	6.8
532458	VIII	45.2 <sup>w</sup>	17.6 <sup>w</sup>	10.9	3.6	20.8	56.9	7.8
532461	VI	45.6	16.4	12.5	4.3	24.2	53.0	6.1
566960	VIII	49.7 <sup>^</sup>	14.0 <sup>^</sup>	12.7 <sup>^</sup>	5.0 <sup>^</sup>	24.6 <sup>^</sup>	49.9 <sup>^</sup>	7.9 <sup>^</sup>
566961	VIII	51.2 <sup>^</sup>	12.4 <sup>^</sup>	10.8 <sup>^</sup>	4.7 <sup>^</sup>	24.0 <sup>^</sup>	51.8 <sup>^</sup>	8.7 <sup>^</sup>
566967A	VIII	48.0 <sup>^</sup>	14.1 <sup>^</sup>	12.7 <sup>^</sup>	5.2 <sup>^</sup>	23.5 <sup>^</sup>	50.4 <sup>^</sup>	8.2 <sup>^</sup>
566968A	VIII	49.9 <sup>^</sup>	13.4 <sup>^</sup>	12.1 <sup>^</sup>	4.4 <sup>^</sup>	22.3 <sup>^</sup>	52.6 <sup>^</sup>	8.6 <sup>^</sup>
566971A	VIII	48.7 <sup>^</sup>	13.7 <sup>^</sup>	12.6 <sup>^</sup>	5.6 <sup>^</sup>	21.0 <sup>^</sup>	51.9 <sup>^</sup>	9.0 <sup>^</sup>
566975	VIII	-	-	13.0 <sup>^</sup>	5.5 <sup>^</sup>	22.2 <sup>^</sup>	50.9 <sup>^</sup>	8.3 <sup>^</sup>
566976	VIII	49.7 <sup>^</sup>	13.4 <sup>^</sup>	11.8 <sup>^</sup>	5.2 <sup>^</sup>	20.8 <sup>^</sup>	53.7 <sup>^</sup>	8.6 <sup>^</sup>
566977A	VIII	47.0 <sup>^</sup>	14.4 <sup>^</sup>	13.5 <sup>^</sup>	4.9 <sup>^</sup>	21.6 <sup>^</sup>	51.7 <sup>^</sup>	8.3 <sup>^</sup>
566977B	VIII	46.3 <sup>^</sup>	15.7 <sup>^</sup>	12.7 <sup>^</sup>	5.6 <sup>^</sup>	21.5 <sup>^</sup>	51.5 <sup>^</sup>	8.6 <sup>^</sup>
566978	VIII	48.5 <sup>^</sup>	15.5 <sup>^</sup>	12.2 <sup>^</sup>	5.2 <sup>^</sup>	24.9 <sup>^</sup>	49.8 <sup>^</sup>	7.9 <sup>^</sup>
566981	VIII	46.3 <sup>^</sup>	14.5 <sup>^</sup>	12.3 <sup>^</sup>	5.2 <sup>^</sup>	22.1 <sup>^</sup>	49.8 <sup>^</sup>	10.6 <sup>^</sup>
566984	VI	46.1 <sup>^</sup>	14.7 <sup>^</sup>	13.3 <sup>^</sup>	3.4 <sup>^</sup>	23.8 <sup>^</sup>	51.5 <sup>^</sup>	8.0 <sup>^</sup>
566985A	VIII	48.1 <sup>^</sup>	13.8 <sup>^</sup>	12.0 <sup>^</sup>	4.3 <sup>^</sup>	20.7 <sup>^</sup>	55.1 <sup>^</sup>	7.9 <sup>^</sup>
566985B	VIII	52.8 <sup>^</sup>	13.1 <sup>^</sup>	12.5 <sup>^</sup>	5.0 <sup>^</sup>	20.5 <sup>^</sup>	53.0 <sup>^</sup>	9.0 <sup>^</sup>
566987A	VIII	51.7 <sup>^</sup>	13.3 <sup>^</sup>	12.0 <sup>^</sup>	6.2 <sup>^</sup>	20.8 <sup>^</sup>	52.1 <sup>^</sup>	8.8 <sup>^</sup>
566988A	VIII	45.4 <sup>^</sup>	16.3 <sup>^</sup>	12.2 <sup>^</sup>	4.0 <sup>^</sup>	20.4 <sup>^</sup>	54.4 <sup>^</sup>	9.0 <sup>^</sup>
566989A	VII	47.2 <sup>^</sup>	17.2 <sup>^</sup>	11.4 <sup>^</sup>	4.3 <sup>^</sup>	22.7 <sup>^</sup>	54.2 <sup>^</sup>	7.5 <sup>^</sup>
566989B	VIII	49.0 <sup>^</sup>	15.3 <sup>^</sup>	11.4 <sup>^</sup>	4.1 <sup>^</sup>	18.9 <sup>^</sup>	56.5 <sup>^</sup>	9.1 <sup>^</sup>
566989C	VIII	49.2 <sup>^</sup>	13.5 <sup>^</sup>	11.5 <sup>^</sup>	5.2 <sup>^</sup>	24.8 <sup>^</sup>	49.9 <sup>^</sup>	8.7 <sup>^</sup>
566990A	VIII	48.6 <sup>^</sup>	14.4 <sup>^</sup>	11.7 <sup>^</sup>	5.6 <sup>^</sup>	27.0 <sup>^</sup>	47.8 <sup>^</sup>	7.9 <sup>^</sup>
566991	VIII	48.2 <sup>^</sup>	14.1 <sup>^</sup>	11.4 <sup>^</sup>	5.2 <sup>^</sup>	26.8 <sup>^</sup>	48.8 <sup>^</sup>	7.8 <sup>^</sup>

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
566992A		unknown	Indonesia	Indonesia	1993	VI
566992B		unknown	Indonesia	Indonesia	1993	VI
566993A		unknown	Indonesia	Indonesia	1993	VIII
566993B		unknown	Indonesia	Indonesia	1993	VIII
566994		unknown	Indonesia	Indonesia	1993	VIII
566995A		unknown	Indonesia	Indonesia	1993	VIII
566995B		unknown	Indonesia	Indonesia	1993	VIII
566996		unknown	Indonesia	Indonesia	1993	VIII
566998A		unknown	Indonesia	Indonesia	1993	VIII
566998B		unknown	Indonesia	Indonesia	1993	VIII
566999A		unknown	Indonesia	Indonesia	1993	VIII
566999C		unknown	Indonesia	Indonesia	1993	VIII
567000A		unknown	Indonesia	Indonesia	1993	VIII
567001A		unknown	Indonesia	Indonesia	1993	VIII
567002A		unknown	Indonesia	Indonesia	1993	VIII
567002B		unknown	Indonesia	Indonesia	1993	VIII
567003A		unknown	Indonesia	Indonesia	1993	VIII
567004		unknown	Indonesia	Indonesia	1993	IV
567006A		unknown	Indonesia	Indonesia	1993	VIII
567007A		unknown	Indonesia	Indonesia	1993	VIII
567007B		unknown	Indonesia	Indonesia	1993	VIII
567009A		unknown	Indonesia	Indonesia	1993	VIII
567010A		unknown	Indonesia	Indonesia	1993	VII
567011A		unknown	Indonesia	Indonesia	1993	VIII
567013		unknown	Indonesia	Indonesia	1993	VIII
567014A		unknown	Indonesia	Indonesia	1993	VIII
567014B		unknown	Indonesia	Indonesia	1993	VIII
567016		unknown	Indonesia	Indonesia	1993	VII
567017A		unknown	Indonesia	Indonesia	1993	VIII
567020A		unknown	Indonesia	Indonesia	1993	VIII
567021		unknown	Indonesia	Indonesia	1993	VIII
567022A		unknown	Indonesia	Indonesia	1993	VIII
567023A		unknown	Indonesia	Indonesia	1993	VII
567023B		unknown	Indonesia	Indonesia	1993	VIII
567024		unknown	Indonesia	Indonesia	1993	VIII
567025A		unknown	Indonesia	Indonesia	1993	VIII
567027A		unknown	Indonesia	Indonesia	1993	VIII
567027B		unknown	Indonesia	Indonesia	1993	VII
567028		unknown	Taiwan	Indonesia	1993	VIII
567029A		unknown	Indonesia	Indonesia	1993	VII
567029B		unknown	Indonesia	Indonesia	1993	VIII
567030		East Java	Indonesia	Indonesia	1993	VII
567031A		Central Java	Indonesia	Indonesia	1993	VIII
567031B		Central Java	Indonesia	Indonesia	1993	VIII
567032A		East Java	Indonesia	Indonesia	1993	VIII
567033A		East Java	Indonesia	Indonesia	1993	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
566992A	VI	D	P	T	A	N	Br	I	Y	Brbl		3N
566992B	VI	N	P	T	Sa	N	Br	I	Y	Brbl		3N
566993A	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
566993B	VIII	D	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
566994	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
566995A	VIII	D	P	T	A	Ssp	Br	I	Y	Brbl		3N
566995B	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
566996	VIII	D	P	T	A	Ssp	Br	I	Y	Brbl		3N
566998A	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
566998B	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
566999A	VIII	D	P	T	A	N	Tn	I	Y	Lbr		3N
566999C	VIII	D	P	T	Sa	N	Br	I	Y	Lbr		3N
567000A	VIII	D	W	T	E	N	Br	I	Y	Br	Sdef	3N
567001A	VIII	D	P	T	E	Ssp	Tn	I	Y	Brbl		3N
567002A	VIII	D	W	T	E	N	Tn	I	Y	Brbl		4N
567002B	VIII	D	W	T	Sa	N	Br	D	Y	Brbl		4N
567003A	VIII	D	W	T	Sa	N	Tn	I	Y	Lbr		3N
567004	IV	S	P	T	E	Ssp	Br	I	Y	Brbl		3N
567006A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567007A	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567007B	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567009A	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567010A	VII	D	P	T	Sa	Ssp	Br	S	Y	Brbl		3N
567011A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567013	VIII	N	P	T	Sa	N	Br	S	Y	Brbl		3N
567014A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567014B	VIII	N	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
567016	VII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567017A	VIII	N	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
567020A	VIII	N	W	T	E	N	Br	I	Y	Brbl		3N
567021	VIII	D	P	T	A	N	Br	I	Y	Brbl		2N
567022A	VIII	N	P	T	Sa	N	Br	I	Y	Brbl		3N
567023A	VII	D	P	T	Sa	N	Tn	I	Y	Brbl		2N
567023B	VIII	D	P	T	Sa	N	Tn	I	Y	Brbl		2N
567024	VIII	D	P	T	A	N	Br	I	Y	Brbl		3N
567025A	VIII	N	W	T	E	N	Br	I	Y	Brbl	Sdef	3N
567027A	VIII	N	W	T	Sa	N	Br	D	Y	Brbl	Vhil, Vsc	3N
567027B	VII	N	W	T	Sa	Ssp	Br	D	Y	Brbl	Vsc	3N
567028	VIII	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
567029A	VII	D	P	T	E	N	Br	D	Y	Brbl		3N
567029B	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567030	VII	D	W	T	Sa	N	Br	I	Bl	Bl		3N
567031A	VIII	N	P	T	A	N	Tn	I	Y	Brbl		3N
567031B	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
567032A	VIII	N	P	G	E	Ssp	Br	I	Y	Bf		3N
567033A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
566992A	818^	1011^	4.0^	200^	3.0^	4.0^	2.5^	3.0^	8.3^	1.19^
566992B	818^	1011^	4.0^	182^	3.0^	4.0^	2.5^	3.0^	8.5^	1.34^
566993A	728^	1030^	4.0^	203^	3.0^	4.0^	2.5^	4.0^	9.0^	0.53^
566993B	804^	1030^	4.0^	190^	3.0^	4.0^	2.5^	4.0^	8.0^	0.66^
566994	815^	1030^	4.0^	155^	3.0^	4.0^	2.5^	4.0^	8.7^	1.17^
566995A	804^	1031^	4.0^	138^	3.0^	4.0^	2.0^	3.0^	9.8^	1.02^
566995B	818^	1031^	4.0^	140^	3.0^	4.0^	2.0^	3.0^	9.7^	0.87^
566996	728^	1031^	4.0^	124^	2.0^	3.0^	2.5^	3.0^	9.0^	0.94^
566998A	815^	1028^	4.0^	228^	2.0^	3.0^	3.0^	5.0^	10.1^	0.92^
566998B	818^	1028^	4.0^	140^	2.0^	3.0^	2.5^	4.0^	10.5^	0.92^
566999A	823^	1031^	4.0^	135^	1.0^	2.0^	2.0^	1.0^	11.7^	1.21^
566999C	825^	1031^	4.0^	148^	1.0^	2.0^	2.0^	2.0^	10.8^	1.13^
567000A	815^	1028^	4.0^	140^	2.0^	3.0^	1.5^	1.0^	13.7^	1.97^
567001A	811^	1026^	3.0^	120^	2.0^	3.0^	2.5^	4.0^	7.7^	1.24^
567002A	818^	1029^	4.0^	140^	1.0^	2.0^	2.5^	4.0^	9.6^	0.66^
567002B	815^	1026^	4.0^	115^	1.0^	2.0^	2.5^	3.0^	9.0^	1.08^
567003A	815^	1028^	3.0^	135^	2.0^	3.0^	2.5^	3.0^	10.9^	1.13^
567004	708^	911^	2.0^	66^	2.0^	4.0^	3.0^	4.0^	5.3^	1.50^
567006A	731^	1027^	3.0^	180^	2.0^	3.0^	2.0^	3.0^	8.8^	1.66^
567007A	731^	1026^	3.0^	178^	2.0^	3.0^	2.5^	3.0^	9.5^	1.57^
567007B	731^	1026^	4.0^	200^	2.0^	3.0^	2.5^	3.0^	8.9^	0.86^
567009A	731^	1026^	3.0^	230^	2.0^	3.0^	2.0^	4.0^	9.7^	1.08^
567010A	804^	1018^	3.0^	148^	2.0^	3.0^	2.0^	2.0^	11.5^	1.35^
567011A	818^	1028^	4.0^	210^	2.0^	3.0^	2.0^	2.0^	8.0^	1.08^
567013	731^	1028^	4.0^	202^	1.0^	2.0^	2.0^	3.0^	7.4^	0.44^
567014A	815^	1028^	4.0^	158^	1.0^	2.0^	2.5^	4.0^	7.0^	0.96^
567014B	818^	1027^	4.0^	240^	1.0^	2.0^	2.5^	3.0^	7.6^	0.71^
567016	811^	1018^	4.0^	250^	2.0^	3.0^	2.5^	3.0^	9.2^	1.20^
567017A	818^	1020^	4.0^	225^	2.0^	3.0^	2.5^	3.0^	7.8^	1.22^
567020A	728^	1019^	3.0^	140^	2.0^	3.0^	2.0^	2.0^	11.5^	1.49^
567021	815^	1019^	4.0^	130^	2.0^	3.0^	2.5^	3.0^	8.2^	1.03^
567022A	818^	1019^	4.0^	112^	1.0^	2.0^	2.5^	4.0^	10.3^	0.91^
567023A	818^	1018^	4.0^	210^	1.0^	2.0^	2.0^	3.0^	9.9^	1.06^
567023B	825^	1026^	4.0^	136^	1.0^	2.0^	2.0^	3.0^	8.7^	0.90^
567024	731^	1026^	4.0^	110^	2.0^	3.0^	2.5^	2.0^	11.1^	1.87^
567025A	811^	1028^	4.0^	120^	2.0^	3.0^	2.5^	3.0^	10.6^	1.21^
567027A	818^	1028^	4.0^	180^	2.0^	3.0^	2.5^	3.0^	10.3^	1.34^
567027B	815^	1018^	3.0^	110^	2.0^	3.0^	2.0^	3.0^	10.4^	1.90^
567028	824^	1030^	4.0^	138^	1.0^	2.0^	2.5^	--	7.7^	0.53^
567029A	731^	1003^	3.0^	75^	2.0^	3.0^	2.0^	3.0^	10.3^	0.35^
567029B	818^	1026^	4.0^	102^	2.0^	3.0^	2.5^	5.0^	9.5^	0.72^
567030	731^	1018^	4.0^	107^	1.0^	2.0^	2.5^	--	9.0^	1.29^
567031A	818^	1019^	4.0^	168^	1.0^	2.0^	2.5^	4.0^	9.7^	1.42^
567031B	818^	1026^	4.0^	126^	1.0^	2.0^	2.0^	3.0^	11.0^	1.04^
567032A	812^	1028^	4.0^	135^	2.0^	3.0^	2.5^	3.0^	9.7^	0.58^
567033A	815^	1030^	4.0^	115^	2.0^	3.0^	2.5^	3.0^	12.9^	0.67^

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
566992A	VI	51.7 <sup>^</sup>	12.5 <sup>^</sup>	12.6 <sup>^</sup>	4.4 <sup>^</sup>	21.6 <sup>^</sup>	52.4 <sup>^</sup>	9.1 <sup>^</sup>
566992B	VI	51.1 <sup>^</sup>	12.1 <sup>^</sup>	12.6 <sup>^</sup>	4.5 <sup>^</sup>	22.0 <sup>^</sup>	51.8 <sup>^</sup>	9.2 <sup>^</sup>
566993A	VIII	48.5 <sup>^</sup>	14.3 <sup>^</sup>	11.7 <sup>^</sup>	4.7 <sup>^</sup>	22.2 <sup>^</sup>	53.1 <sup>^</sup>	8.3 <sup>^</sup>
566993B	VIII	48.9 <sup>^</sup>	14.1 <sup>^</sup>	11.9 <sup>^</sup>	5.2 <sup>^</sup>	24.2 <sup>^</sup>	51.0 <sup>^</sup>	7.7 <sup>^</sup>
566994	VIII	50.4 <sup>^</sup>	14.0 <sup>^</sup>	12.0 <sup>^</sup>	5.3 <sup>^</sup>	22.6 <sup>^</sup>	51.7 <sup>^</sup>	8.3 <sup>^</sup>
566995A	VIII	48.8 <sup>^</sup>	14.4 <sup>^</sup>	12.0 <sup>^</sup>	4.9 <sup>^</sup>	18.2 <sup>^</sup>	55.5 <sup>^</sup>	9.4 <sup>^</sup>
566995B	VIII	48.3 <sup>^</sup>	14.4 <sup>^</sup>	12.3 <sup>^</sup>	4.7 <sup>^</sup>	20.0 <sup>^</sup>	53.8 <sup>^</sup>	9.2 <sup>^</sup>
566996	VIII	50.3 <sup>^</sup>	13.7 <sup>^</sup>	12.4 <sup>^</sup>	4.7 <sup>^</sup>	18.9 <sup>^</sup>	54.2 <sup>^</sup>	9.8 <sup>^</sup>
566998A	VIII	50.9 <sup>^</sup>	12.8 <sup>^</sup>	11.2 <sup>^</sup>	5.1 <sup>^</sup>	20.4 <sup>^</sup>	55.9 <sup>^</sup>	7.4 <sup>^</sup>
566998B	VIII	50.6 <sup>^</sup>	13.6 <sup>^</sup>	11.2 <sup>^</sup>	4.9 <sup>^</sup>	21.1 <sup>^</sup>	55.4 <sup>^</sup>	7.3 <sup>^</sup>
566999A	VIII	47.3 <sup>^</sup>	14.7 <sup>^</sup>	11.4 <sup>^</sup>	4.0 <sup>^</sup>	19.8 <sup>^</sup>	56.4 <sup>^</sup>	8.4 <sup>^</sup>
566999C	VIII	47.3 <sup>^</sup>	14.6 <sup>^</sup>	10.9 <sup>^</sup>	3.9 <sup>^</sup>	20.3 <sup>^</sup>	56.3 <sup>^</sup>	8.7 <sup>^</sup>
567000A	VIII	45.2 <sup>^</sup>	16.3 <sup>^</sup>	11.4 <sup>^</sup>	4.2 <sup>^</sup>	19.8 <sup>^</sup>	56.7 <sup>^</sup>	7.9 <sup>^</sup>
567001A	VIII	50.4 <sup>^</sup>	12.7 <sup>^</sup>	12.2 <sup>^</sup>	4.8 <sup>^</sup>	21.0 <sup>^</sup>	51.6 <sup>^</sup>	10.5 <sup>^</sup>
567002A	VIII	46.0 <sup>^</sup>	13.5 <sup>^</sup>	10.4 <sup>^</sup>	4.6 <sup>^</sup>	25.6 <sup>^</sup>	51.6 <sup>^</sup>	7.8 <sup>^</sup>
567002B	VIII	45.2 <sup>^</sup>	14.1 <sup>^</sup>	10.3 <sup>^</sup>	4.8 <sup>^</sup>	26.4 <sup>^</sup>	51.1 <sup>^</sup>	7.5 <sup>^</sup>
567003A	VIII	48.0 <sup>^</sup>	15.9 <sup>^</sup>	10.8 <sup>^</sup>	4.8 <sup>^</sup>	18.3 <sup>^</sup>	56.8 <sup>^</sup>	9.2 <sup>^</sup>
567004	IV	46.0 <sup>^</sup>	14.1 <sup>^</sup>	12.8 <sup>^</sup>	4.8 <sup>^</sup>	20.8 <sup>^</sup>	52.7 <sup>^</sup>	8.9 <sup>^</sup>
567006A	VIII	48.7 <sup>^</sup>	15.4 <sup>^</sup>	11.6 <sup>^</sup>	4.6 <sup>^</sup>	17.4 <sup>^</sup>	56.9 <sup>^</sup>	9.5 <sup>^</sup>
567007A	VIII	46.6 <sup>^</sup>	12.8 <sup>^</sup>	10.5 <sup>^</sup>	5.0 <sup>^</sup>	25.5 <sup>^</sup>	51.7 <sup>^</sup>	7.3 <sup>^</sup>
567007B	VIII	51.6 <sup>^</sup>	13.5 <sup>^</sup>	11.7 <sup>^</sup>	5.0 <sup>^</sup>	20.2 <sup>^</sup>	53.7 <sup>^</sup>	9.4 <sup>^</sup>
567009A	VIII	49.9 <sup>^</sup>	13.0 <sup>^</sup>	11.6 <sup>^</sup>	4.5 <sup>^</sup>	18.9 <sup>^</sup>	54.6 <sup>^</sup>	10.3 <sup>^</sup>
567010A	VII	46.8 <sup>^</sup>	16.1 <sup>^</sup>	11.6 <sup>^</sup>	3.7 <sup>^</sup>	18.9 <sup>^</sup>	57.0 <sup>^</sup>	8.7 <sup>^</sup>
567011A	VIII	49.1 <sup>^</sup>	15.3 <sup>^</sup>	10.5 <sup>^</sup>	5.0 <sup>^</sup>	22.2 <sup>^</sup>	54.1 <sup>^</sup>	8.2 <sup>^</sup>
567013	VIII	46.5 <sup>^</sup>	15.6 <sup>^</sup>	11.8 <sup>^</sup>	5.1 <sup>^</sup>	23.7 <sup>^</sup>	51.4 <sup>^</sup>	8.0 <sup>^</sup>
567014A	VIII	50.8 <sup>^</sup>	13.5 <sup>^</sup>	12.3 <sup>^</sup>	5.1 <sup>^</sup>	24.3 <sup>^</sup>	50.2 <sup>^</sup>	8.1 <sup>^</sup>
567014B	VIII	47.3 <sup>^</sup>	14.8 <sup>^</sup>	12.2 <sup>^</sup>	5.6 <sup>^</sup>	27.2 <sup>^</sup>	47.8 <sup>^</sup>	7.2 <sup>^</sup>
567016	VII	50.2 <sup>^</sup>	15.2 <sup>^</sup>	11.9 <sup>^</sup>	5.2 <sup>^</sup>	20.7 <sup>^</sup>	53.9 <sup>^</sup>	8.3 <sup>^</sup>
567017A	VIII	53.0 <sup>^</sup>	12.0 <sup>^</sup>	10.9 <sup>^</sup>	5.2 <sup>^</sup>	21.4 <sup>^</sup>	53.3 <sup>^</sup>	9.2 <sup>^</sup>
567020A	VIII	46.6 <sup>^</sup>	17.2 <sup>^</sup>	11.9 <sup>^</sup>	5.0 <sup>^</sup>	18.5 <sup>^</sup>	56.9 <sup>^</sup>	7.8 <sup>^</sup>
567021	VIII	49.1 <sup>^</sup>	14.0 <sup>^</sup>	11.3 <sup>^</sup>	5.3 <sup>^</sup>	22.4 <sup>^</sup>	53.1 <sup>^</sup>	7.9 <sup>^</sup>
567022A	VIII	45.6 <sup>^</sup>	14.4 <sup>^</sup>	12.0 <sup>^</sup>	5.4 <sup>^</sup>	25.7 <sup>^</sup>	48.9 <sup>^</sup>	8.1 <sup>^</sup>
567023A	VII	45.9 <sup>^</sup>	13.5 <sup>^</sup>	13.1 <sup>^</sup>	4.2 <sup>^</sup>	20.3 <sup>^</sup>	52.9 <sup>^</sup>	9.5 <sup>^</sup>
567023B	VIII	45.9 <sup>^</sup>	14.5 <sup>^</sup>	10.8 <sup>^</sup>	5.4 <sup>^</sup>	25.8 <sup>^</sup>	50.9 <sup>^</sup>	7.2 <sup>^</sup>
567024	VIII	45.4 <sup>^</sup>	16.5 <sup>^</sup>	12.1 <sup>^</sup>	4.7 <sup>^</sup>	17.9 <sup>^</sup>	56.9 <sup>^</sup>	8.5 <sup>^</sup>
567025A	VIII	48.0 <sup>^</sup>	14.8 <sup>^</sup>	12.2 <sup>^</sup>	4.5 <sup>^</sup>	17.6 <sup>^</sup>	57.6 <sup>^</sup>	8.0 <sup>^</sup>
567027A	VIII	47.9 <sup>^</sup>	12.1 <sup>^</sup>	11.7 <sup>^</sup>	5.1 <sup>^</sup>	19.8 <sup>^</sup>	54.6 <sup>^</sup>	8.8 <sup>^</sup>
567027B	VII	46.8 <sup>^</sup>	16.0 <sup>^</sup>	12.3 <sup>^</sup>	4.7 <sup>^</sup>	24.4 <sup>^</sup>	51.4 <sup>^</sup>	7.2 <sup>^</sup>
567028	VIII	-	-	12.1 <sup>^</sup>	5.3 <sup>^</sup>	23.0 <sup>^</sup>	52.1 <sup>^</sup>	7.5 <sup>^</sup>
567029A	VII	47.1 <sup>^</sup>	14.8 <sup>^</sup>	13.5 <sup>^</sup>	5.0 <sup>^</sup>	24.6 <sup>^</sup>	49.6 <sup>^</sup>	7.4 <sup>^</sup>
567029B	VIII	-	-	12.0 <sup>^</sup>	5.5 <sup>^</sup>	20.6 <sup>^</sup>	53.9 <sup>^</sup>	7.9 <sup>^</sup>
567030	VII	-	-	12.6 <sup>^</sup>	4.8 <sup>^</sup>	24.4 <sup>^</sup>	51.2 <sup>^</sup>	7.0 <sup>^</sup>
567031A	VIII	45.2 <sup>^</sup>	14.2 <sup>^</sup>	12.6 <sup>^</sup>	4.4 <sup>^</sup>	24.0 <sup>^</sup>	50.7 <sup>^</sup>	8.4 <sup>^</sup>
567031B	VIII	45.3 <sup>^</sup>	14.6 <sup>^</sup>	12.6 <sup>^</sup>	5.3 <sup>^</sup>	25.5 <sup>^</sup>	49.2 <sup>^</sup>	7.4 <sup>^</sup>
567032A	VIII	48.0 <sup>^</sup>	13.2 <sup>^</sup>	12.1 <sup>^</sup>	4.2 <sup>^</sup>	24.9 <sup>^</sup>	50.0 <sup>^</sup>	8.8 <sup>^</sup>
567033A	VIII	45.7 <sup>^</sup>	15.8 <sup>^</sup>	12.9 <sup>^</sup>	5.0 <sup>^</sup>	25.4 <sup>^</sup>	50.4 <sup>^</sup>	6.3 <sup>^</sup>

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567034		Central Java	Indonesia	Indonesia	1993	VIII
567035A		unknown	Indonesia	Indonesia	1993	VIII
567035B		unknown	Indonesia	Indonesia	1993	VIII
567041A		East Java	Indonesia	Indonesia	1993	VIII
567042		East Java	Indonesia	Indonesia	1993	VIII
567043A		Lampung	Indonesia	Indonesia	1993	IX
567046A		Central Java	Indonesia	Indonesia	1993	VIII
567046B		Central Java	Indonesia	Indonesia	1993	VIII
567046C		Central Java	Indonesia	Indonesia	1993	VII
567048A		unknown	Indonesia	Indonesia	1993	VIII
567049A		unknown	Indonesia	Indonesia	1993	VIII
567050		unknown	Indonesia	Indonesia	1993	VIII
567051		Central Java	Indonesia	Indonesia	1993	VIII
567054A		unknown	Indonesia	Indonesia	1993	VIII
567054B		unknown	Indonesia	Indonesia	1993	VIII
567055		unknown	Indonesia	Indonesia	1993	VIII
567056A		unknown	Indonesia	Indonesia	1993	VIII
567056B		unknown	Indonesia	Indonesia	1993	VIII
567058A		unknown	Indonesia	Indonesia	1993	VIII
567058B		unknown	Indonesia	Indonesia	1993	VIII
567059		unknown	Indonesia	Indonesia	1993	V
567060A		unknown	Indonesia	Indonesia	1993	V
567060B		unknown	Indonesia	Indonesia	1993	VI
567061		unknown	Indonesia	Indonesia	1993	VIII
567062		East Java	Indonesia	Indonesia	1993	VIII
567063		East Java	Indonesia	Indonesia	1993	VII
567064A		East Java	Indonesia	Indonesia	1993	VIII
567064B		East Java	Indonesia	Indonesia	1993	VIII
567065		East Java	Indonesia	Indonesia	1993	VIII
567066		East Java	Indonesia	Indonesia	1993	VIII
567067A		East Java	Indonesia	Indonesia	1993	VIII
567069A		East Java	Indonesia	Indonesia	1993	VIII
567069B		East Java	Indonesia	Indonesia	1993	VIII
567070A		East Java	Indonesia	Indonesia	1993	VIII
567070B		East Java	Indonesia	Indonesia	1993	VIII
567070C		East Java	Indonesia	Indonesia	1993	VIII
567072A		East Java	Indonesia	Indonesia	1993	VIII
567072B		East Java	Indonesia	Indonesia	1993	VIII
567073A		East Java	Indonesia	Indonesia	1993	VIII
567073B		East Java	Indonesia	Indonesia	1993	VIII
567074A		East Java	Indonesia	Indonesia	1993	VIII
567075A		East Java	Indonesia	Indonesia	1993	VIII
567077A		East Java	Indonesia	Indonesia	1993	VIII
567078		East Java	Indonesia	Indonesia	1993	VII
567079		East Java	Indonesia	Indonesia	1993	VIII
567081		East Java	Indonesia	Indonesia	1993	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567034	VIII	D	P	T	A	N	Br	I	Y	Brbl	Def	3N
567035A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567035B	VIII	D	P	T	Sa	N	Tn	I	Y	Brbl		3N
567041A	VIII	D	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
567042	VIII	S	P	T	E	N	Br	I	Y	Brbl		3N
567043A	IX	D	P	G	E	Ssp	Br	I	Y	Bf		3N
567046A	VIII	N	P	T	Sa	N	Br	I	Y	Brbl		4N
567046B	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
567046C	VII	N	P	T	E	N	Br	I	Y	Brbl	Sdef	3N
567048A	VIII	N	W	T	E	N	Br	I	Y	Brbl		3N
567049A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567050	VIII	D	P	T	A	N	Tn	D	Y	Brbl	Def	3N
567051	VIII	D	P	T	A	N	Br	I	Bl	Bl		4N
567054A	VIII	N	P	T	E	N	Tn	I	Y	Brbl		3N
567054B	VIII	N	W	T	E	Ssp	Br	I	Y	Brbl		3N
567055	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567056A	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
567056B	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567058A	VIII	N	P	T	Sa	Ssp	Tn	I	Y	Br		3N
567058B	VIII	D	P	T	A	Ssp	Br	I	Y	Brbl	Sdef	3N
567059	V	N	P	T	A	N	Tn	I	Y	Br	Vhil	3N
567060A	V	N	P	T	Sa	Ssp	Br	I	Y	Brbl		2N
567060B	VI	N	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
567061	VIII	N	W	T	Sa	N	Tn	I	Y	Dbr		4N
567062	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567063	VII	N	P	T	E	N	Br	I	Y	Brbl		2N
567064A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567064B	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567065	VIII	D	W	G	Sa	N	Tn	I	Y	Bf		3N
567066	VIII	D	P	T	E	N	Br	I	Y	Brbl	Def	3N
567067A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567069A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567069B	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567070A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567070B	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567070C	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567072A	VIII	N	P	T	E	N	Br	D	Y	Brbl		3N
567072B	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567073A	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567073B	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567074A	VIII	D	P	T	E	N	Br	I	Bl	Bl		3N
567075A	VIII	D	P	T	E	N	Br	I	Bl	Bl		3N
567077A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567078	VII	N	P	T	E	N	Tn	I	Y	Brbl		3N
567079	VIII	N	P	T	E	N	Tn	I	Y	Brbl		3N
567081	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567034	824 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	125 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	9.7 <sup>^</sup>	0.56 <sup>^</sup>
567035A	818 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	105 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.9 <sup>^</sup>	0.76 <sup>^</sup>
567035B	804 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	213 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	9.1 <sup>^</sup>	0.68 <sup>^</sup>
567041A	812 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	110 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	9.9 <sup>^</sup>	0.78 <sup>^</sup>
567042	825 <sup>^</sup>	1117 <sup>^</sup>	4.0 <sup>^</sup>	52 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	11.0 <sup>^</sup>	0.16 <sup>^</sup>
567043A	826 <sup>^</sup>	1117 <sup>^</sup>	4.0 <sup>^</sup>	125 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	10.0 <sup>^</sup>	0.17 <sup>^</sup>
567046A	818 <sup>^</sup>	1031 <sup>^</sup>	3.0 <sup>^</sup>	126 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	9.9 <sup>^</sup>	0.69 <sup>^</sup>
567046B	818 <sup>^</sup>	1117 <sup>^</sup>	4.0 <sup>^</sup>	148 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	9.9 <sup>^</sup>	0.60 <sup>^</sup>
567046C	811 <sup>^</sup>	1018 <sup>^</sup>	4.0 <sup>^</sup>	133 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	10.6 <sup>^</sup>	1.41 <sup>^</sup>
567048A	825 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	125 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	7.9 <sup>^</sup>	1.04 <sup>^</sup>
567049A	813 <sup>^</sup>	1026 <sup>^</sup>	2.0 <sup>^</sup>	153 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0 <sup>^</sup>	9.4 <sup>^</sup>	2.07 <sup>^</sup>
567050	818 <sup>^</sup>	1019 <sup>^</sup>	4.0 <sup>^</sup>	122 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	9.2 <sup>^</sup>	0.73 <sup>^</sup>
567051	826 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	155 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	--	6.6 <sup>^</sup>	0.68 <sup>^</sup>
567054A	815 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	6.7 <sup>^</sup>	0.96 <sup>^</sup>
567054B	818 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.6 <sup>^</sup>	1.21 <sup>^</sup>
567055	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	128 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.0 <sup>^</sup>	1.33 <sup>^</sup>
567056A	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	9.9 <sup>^</sup>	0.80 <sup>^</sup>
567056B	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	128 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	5.0 <sup>^</sup>	7.4 <sup>^</sup>	0.79 <sup>^</sup>
567058A	811 <sup>^</sup>	1103 <sup>^</sup>	4.0 <sup>^</sup>	132 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	2.0 <sup>^</sup>	8.6 <sup>^</sup>	0.51 <sup>^</sup>
567058B	811 <sup>^</sup>	1103 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	12.5 <sup>^</sup>	1.16 <sup>^</sup>
567059	721 <sup>^</sup>	1004 <sup>^</sup>	4.0 <sup>^</sup>	90 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	13.3 <sup>^</sup>	1.31 <sup>^</sup>
567060A	724 <sup>^</sup>	928 <sup>^</sup>	4.0 <sup>^</sup>	128 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	11.0 <sup>^</sup>	1.43 <sup>^</sup>
567060B	724 <sup>^</sup>	1006 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	9.6 <sup>^</sup>	1.02 <sup>^</sup>
567061	811 <sup>^</sup>	1025 <sup>^</sup>	4.0 <sup>^</sup>	158 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0 <sup>^</sup>	12.6 <sup>^</sup>	1.52 <sup>^</sup>
567062	815 <sup>^</sup>	1019 <sup>^</sup>	3.0 <sup>^</sup>	140 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.5 <sup>^</sup>	1.12 <sup>^</sup>
567063	815 <sup>^</sup>	1018 <sup>^</sup>	4.0 <sup>^</sup>	220 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.9 <sup>^</sup>	1.62 <sup>^</sup>
567064A	818 <sup>^</sup>	1020 <sup>^</sup>	4.0 <sup>^</sup>	170 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	9.0 <sup>^</sup>	1.10 <sup>^</sup>
567064B	815 <sup>^</sup>	1031 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.6 <sup>^</sup>	1.16 <sup>^</sup>
567065	824 <sup>^</sup>	1117 <sup>^</sup>	4.0 <sup>^</sup>	174 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0 <sup>^</sup>	8.1 <sup>^</sup>	0.45 <sup>^</sup>
567066	818 <sup>^</sup>	1029 <sup>^</sup>	4.0 <sup>^</sup>	180 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.2 <sup>^</sup>	0.67 <sup>^</sup>
567067A	815 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	154 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.9 <sup>^</sup>	0.60 <sup>^</sup>
567069A	804 <sup>^</sup>	1020 <sup>^</sup>	4.0 <sup>^</sup>	147 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	7.2 <sup>^</sup>	1.21 <sup>^</sup>
567069B	731 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	9.2 <sup>^</sup>	0.51 <sup>^</sup>
567070A	813 <sup>^</sup>	1020 <sup>^</sup>	4.0 <sup>^</sup>	205 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	7.6 <sup>^</sup>	1.39 <sup>^</sup>
567070B	825 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.9 <sup>^</sup>	0.70 <sup>^</sup>
567070C	815 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	7.2 <sup>^</sup>	1.53 <sup>^</sup>
567072A	815 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	154 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	7.3 <sup>^</sup>	0.65 <sup>^</sup>
567072B	818 <sup>^</sup>	1029 <sup>^</sup>	4.0 <sup>^</sup>	128 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.3 <sup>^</sup>	1.01 <sup>^</sup>
567073A	815 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	158 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	6.8 <sup>^</sup>	0.52 <sup>^</sup>
567073B	818 <sup>^</sup>	1031 <sup>^</sup>	4.0 <sup>^</sup>	160 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	5.6 <sup>^</sup>	0.80 <sup>^</sup>
567074A	818 <sup>^</sup>	1102 <sup>^</sup>	4.0 <sup>^</sup>	210 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	--	6.6 <sup>^</sup>	0.40 <sup>^</sup>
567075A	818 <sup>^</sup>	1102 <sup>^</sup>	4.0 <sup>^</sup>	175 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	--	6.5 <sup>^</sup>	0.34 <sup>^</sup>
567077A	818 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	180 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.8 <sup>^</sup>	0.90 <sup>^</sup>
567078	818 <sup>^</sup>	1018 <sup>^</sup>	4.0 <sup>^</sup>	155 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.3 <sup>^</sup>	1.45 <sup>^</sup>
567079	818 <sup>^</sup>	1028 <sup>^</sup>	3.0 <sup>^</sup>	125 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	8.1 <sup>^</sup>	1.06 <sup>^</sup>
567081	815 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	180 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	5.0 <sup>^</sup>	6.4 <sup>^</sup>	0.67 <sup>^</sup>



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567034	VIII	45.7 <sup>^</sup>	15.0 <sup>^</sup>	12.7 <sup>^</sup>	4.3 <sup>^</sup>	24.7 <sup>^</sup>	51.1 <sup>^</sup>	7.2 <sup>^</sup>
567035A	VIII	45.9 <sup>^</sup>	15.9 <sup>^</sup>	13.6 <sup>^</sup>	5.5 <sup>^</sup>	22.4 <sup>^</sup>	50.6 <sup>^</sup>	7.9 <sup>^</sup>
567035B	VIII	47.7 <sup>^</sup>	14.3 <sup>^</sup>	12.2 <sup>^</sup>	4.9 <sup>^</sup>	24.5 <sup>^</sup>	48.4 <sup>^</sup>	10.0 <sup>^</sup>
567041A	VIII	49.8 <sup>^</sup>	13.8 <sup>^</sup>	12.5 <sup>^</sup>	5.8 <sup>^</sup>	21.8 <sup>^</sup>	51.5 <sup>^</sup>	8.3 <sup>^</sup>
567042	VIII	46.4 <sup>^</sup>	16.5 <sup>^</sup>	11.7 <sup>^</sup>	5.1 <sup>^</sup>	24.1 <sup>^</sup>	51.2 <sup>^</sup>	7.9 <sup>^</sup>
567043A	IX	50.7 <sup>^</sup>	11.3 <sup>^</sup>	12.2 <sup>^</sup>	4.1 <sup>^</sup>	20.3 <sup>^</sup>	52.4 <sup>^</sup>	11.0 <sup>^</sup>
567046A	VIII	48.5 <sup>^</sup>	12.5 <sup>^</sup>	12.8 <sup>^</sup>	5.3 <sup>^</sup>	22.1 <sup>^</sup>	50.6 <sup>^</sup>	9.2 <sup>^</sup>
567046B	VIII	49.0 <sup>^</sup>	12.7 <sup>^</sup>	12.0 <sup>^</sup>	5.0 <sup>^</sup>	22.3 <sup>^</sup>	51.2 <sup>^</sup>	9.5 <sup>^</sup>
567046C	VII	46.8 <sup>^</sup>	16.2 <sup>^</sup>	12.6 <sup>^</sup>	4.5 <sup>^</sup>	19.6 <sup>^</sup>	54.6 <sup>^</sup>	8.6 <sup>^</sup>
567048A	VIII	48.4 <sup>^</sup>	12.2 <sup>^</sup>	12.2 <sup>^</sup>	4.7 <sup>^</sup>	16.4 <sup>^</sup>	55.6 <sup>^</sup>	11.0 <sup>^</sup>
567049A	VIII	47.2 <sup>^</sup>	16.4 <sup>^</sup>	11.6 <sup>^</sup>	4.1 <sup>^</sup>	19.4 <sup>^</sup>	57.3 <sup>^</sup>	7.5 <sup>^</sup>
567050	VIII	45.5 <sup>^</sup>	13.5 <sup>^</sup>	13.3 <sup>^</sup>	4.7 <sup>^</sup>	23.3 <sup>^</sup>	50.6 <sup>^</sup>	8.1 <sup>^</sup>
567051	VIII	-	-	10.8 <sup>^</sup>	6.0 <sup>^</sup>	26.9 <sup>^</sup>	49.3 <sup>^</sup>	7.0 <sup>^</sup>
567054A	VIII	48.3 <sup>^</sup>	14.6 <sup>^</sup>	11.9 <sup>^</sup>	5.0 <sup>^</sup>	24.3 <sup>^</sup>	48.7 <sup>^</sup>	10.1 <sup>^</sup>
567054B	VIII	53.1 <sup>^</sup>	11.5 <sup>^</sup>	13.2 <sup>^</sup>	5.1 <sup>^</sup>	17.0 <sup>^</sup>	54.4 <sup>^</sup>	10.3 <sup>^</sup>
567055	VIII	48.7 <sup>^</sup>	14.6 <sup>^</sup>	12.1 <sup>^</sup>	5.0 <sup>^</sup>	22.7 <sup>^</sup>	51.0 <sup>^</sup>	9.2 <sup>^</sup>
567056A	VIII	49.3 <sup>^</sup>	12.9 <sup>^</sup>	12.9 <sup>^</sup>	5.2 <sup>^</sup>	22.1 <sup>^</sup>	50.6 <sup>^</sup>	9.1 <sup>^</sup>
567056B	VIII	49.9 <sup>^</sup>	13.0 <sup>^</sup>	12.2 <sup>^</sup>	5.1 <sup>^</sup>	21.0 <sup>^</sup>	52.2 <sup>^</sup>	9.5 <sup>^</sup>
567058A	VIII	49.7 <sup>^</sup>	12.6 <sup>^</sup>	11.3 <sup>^</sup>	3.5 <sup>^</sup>	17.5 <sup>^</sup>	58.8 <sup>^</sup>	8.9 <sup>^</sup>
567058B	VIII	46.9 <sup>^</sup>	15.5 <sup>^</sup>	11.8 <sup>^</sup>	3.5 <sup>^</sup>	22.0 <sup>^</sup>	54.8 <sup>^</sup>	7.8 <sup>^</sup>
567059	V	44.9 <sup>^</sup>	17.9 <sup>^</sup>	12.0 <sup>^</sup>	5.1 <sup>^</sup>	29.4 <sup>^</sup>	47.0 <sup>^</sup>	6.5 <sup>^</sup>
567060A	V	44.7 <sup>^</sup>	17.1 <sup>^</sup>	12.6 <sup>^</sup>	5.1 <sup>^</sup>	26.1 <sup>^</sup>	48.6 <sup>^</sup>	7.6 <sup>^</sup>
567060B	VI	46.1 <sup>^</sup>	15.9 <sup>^</sup>	11.8 <sup>^</sup>	4.8 <sup>^</sup>	24.1 <sup>^</sup>	51.2 <sup>^</sup>	8.2 <sup>^</sup>
567061	VIII	45.8 <sup>^</sup>	16.6 <sup>^</sup>	11.5 <sup>^</sup>	3.8 <sup>^</sup>	20.1 <sup>^</sup>	56.0 <sup>^</sup>	8.7 <sup>^</sup>
567062	VIII	46.8 <sup>^</sup>	14.7 <sup>^</sup>	12.5 <sup>^</sup>	5.1 <sup>^</sup>	23.7 <sup>^</sup>	49.4 <sup>^</sup>	9.3 <sup>^</sup>
567063	VII	51.1 <sup>^</sup>	12.9 <sup>^</sup>	12.3 <sup>^</sup>	4.8 <sup>^</sup>	22.8 <sup>^</sup>	51.1 <sup>^</sup>	9.0 <sup>^</sup>
567064A	VIII	48.1 <sup>^</sup>	15.0 <sup>^</sup>	12.6 <sup>^</sup>	4.7 <sup>^</sup>	22.2 <sup>^</sup>	50.6 <sup>^</sup>	10.0 <sup>^</sup>
567064B	VIII	49.4 <sup>^</sup>	12.9 <sup>^</sup>	12.0 <sup>^</sup>	4.5 <sup>^</sup>	20.3 <sup>^</sup>	52.8 <sup>^</sup>	10.3 <sup>^</sup>
567065	VIII	47.6 <sup>^</sup>	14.4 <sup>^</sup>	11.0 <sup>^</sup>	4.0 <sup>^</sup>	21.1 <sup>^</sup>	55.2 <sup>^</sup>	8.7 <sup>^</sup>
567066	VIII	52.0 <sup>^</sup>	13.3 <sup>^</sup>	11.5 <sup>^</sup>	5.0 <sup>^</sup>	22.5 <sup>^</sup>	52.6 <sup>^</sup>	8.4 <sup>^</sup>
567067A	VIII	48.7 <sup>^</sup>	13.6 <sup>^</sup>	11.6 <sup>^</sup>	5.2 <sup>^</sup>	22.4 <sup>^</sup>	49.4 <sup>^</sup>	11.5 <sup>^</sup>
567069A	VIII	51.0 <sup>^</sup>	14.0 <sup>^</sup>	10.9 <sup>^</sup>	4.5 <sup>^</sup>	28.1 <sup>^</sup>	47.1 <sup>^</sup>	9.5 <sup>^</sup>
567069B	VIII	50.9 <sup>^</sup>	14.0 <sup>^</sup>	12.6 <sup>^</sup>	4.4 <sup>^</sup>	21.7 <sup>^</sup>	52.6 <sup>^</sup>	8.6 <sup>^</sup>
567070A	VIII	47.2 <sup>^</sup>	15.0 <sup>^</sup>	14.9 <sup>^</sup>	4.5 <sup>^</sup>	21.6 <sup>^</sup>	50.4 <sup>^</sup>	8.7 <sup>^</sup>
567070B	VIII	47.6 <sup>^</sup>	14.4 <sup>^</sup>	12.5 <sup>^</sup>	4.7 <sup>^</sup>	22.1 <sup>^</sup>	51.2 <sup>^</sup>	9.5 <sup>^</sup>
567070C	VIII	-	-	11.8 <sup>^</sup>	4.1 <sup>^</sup>	19.8 <sup>^</sup>	53.5 <sup>^</sup>	10.8 <sup>^</sup>
567072A	VIII	49.7 <sup>^</sup>	16.1 <sup>^</sup>	13.1 <sup>^</sup>	4.2 <sup>^</sup>	22.5 <sup>^</sup>	51.3 <sup>^</sup>	8.9 <sup>^</sup>
567072B	VIII	47.8 <sup>^</sup>	14.8 <sup>^</sup>	13.1 <sup>^</sup>	4.2 <sup>^</sup>	20.6 <sup>^</sup>	52.0 <sup>^</sup>	10.2 <sup>^</sup>
567073A	VIII	-	-	14.1 <sup>^</sup>	4.5 <sup>^</sup>	23.5 <sup>^</sup>	49.5 <sup>^</sup>	8.4 <sup>^</sup>
567073B	VIII	50.4 <sup>^</sup>	13.4 <sup>^</sup>	12.2 <sup>^</sup>	4.7 <sup>^</sup>	20.9 <sup>^</sup>	52.5 <sup>^</sup>	9.7 <sup>^</sup>
567074A	VIII	-	-	11.4 <sup>^</sup>	5.4 <sup>^</sup>	21.8 <sup>^</sup>	52.4 <sup>^</sup>	9.0 <sup>^</sup>
567075A	VIII	-	-	11.9 <sup>^</sup>	5.2 <sup>^</sup>	22.9 <sup>^</sup>	51.0 <sup>^</sup>	9.0 <sup>^</sup>
567077A	VIII	-	-	12.7 <sup>^</sup>	4.2 <sup>^</sup>	22.0 <sup>^</sup>	52.0 <sup>^</sup>	9.1 <sup>^</sup>
567078	VII	46.1 <sup>^</sup>	14.8 <sup>^</sup>	13.1 <sup>^</sup>	4.5 <sup>^</sup>	23.7 <sup>^</sup>	50.1 <sup>^</sup>	8.6 <sup>^</sup>
567079	VIII	46.1 <sup>^</sup>	14.3 <sup>^</sup>	12.7 <sup>^</sup>	4.3 <sup>^</sup>	20.4 <sup>^</sup>	51.0 <sup>^</sup>	11.6 <sup>^</sup>
567081	VIII	-	-	12.6 <sup>^</sup>	4.2 <sup>^</sup>	19.4 <sup>^</sup>	53.4 <sup>^</sup>	10.4 <sup>^</sup>

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567082A		East Java	Indonesia	Indonesia	1993	VIII
567082B		East Java	Indonesia	Indonesia	1993	VIII
567083A		East Java	Indonesia	Indonesia	1993	VIII
567084		East Java	Indonesia	Indonesia	1993	VIII
567085A		East Java	Indonesia	Indonesia	1993	VIII
567085B		East Java	Indonesia	Indonesia	1993	VIII
567086A		East Java	Indonesia	Indonesia	1993	VIII
567087A		East Java	Indonesia	Indonesia	1993	VIII
567087B		East Java	Indonesia	Indonesia	1993	VII
567088A		East Java	Indonesia	Indonesia	1993	VIII
567088B		East Java	Indonesia	Indonesia	1993	VIII
567089A		East Java	Indonesia	Indonesia	1993	VIII
567089B		East Java	Indonesia	Indonesia	1993	VIII
567091		East Java	Indonesia	Indonesia	1993	VIII
567092A		East Java	Indonesia	Indonesia	1993	VIII
567092B		East Java	Indonesia	Indonesia	1993	VIII
567093A		East Java	Indonesia	Indonesia	1993	VIII
567093B		East Java	Indonesia	Indonesia	1993	VIII
567094		East Java	Indonesia	Indonesia	1993	VIII
567095A		East Java	Indonesia	Indonesia	1993	VIII
567097A		East Java	Indonesia	Indonesia	1993	VIII
567097B		East Java	Indonesia	Indonesia	1993	VIII
567098A		East Java	Indonesia	Indonesia	1993	VIII
567105		East Java	Indonesia	Indonesia	1993	VIII
567107A		East Java	Indonesia	Indonesia	1993	VIII
567108A		East Java	Indonesia	Indonesia	1993	VIII
567108B		East Java	Indonesia	Indonesia	1993	VIII
567110A		East Java	Indonesia	Indonesia	1993	VIII
567111		East Java	Indonesia	Indonesia	1993	VIII
567114		East Java	Indonesia	Indonesia	1993	VIII
567115A		East Java	Indonesia	Indonesia	1993	VIII
567116A		East Java	Indonesia	Indonesia	1993	VIII
567116B		East Java	Indonesia	Indonesia	1993	VIII
567117A		East Java	Indonesia	Indonesia	1993	VIII
567120		East Java	Indonesia	Indonesia	1993	VIII
567121A		East Java	Indonesia	Indonesia	1993	VIII
567122A		East Java	Indonesia	Indonesia	1993	VIII
567122B		East Java	Indonesia	Indonesia	1993	VIII
567123A		East Java	Indonesia	Indonesia	1993	VIII
567124		East Java	Indonesia	Indonesia	1993	VIII
567132A		East Java	Indonesia	Indonesia	1993	VIII
567132B		East Java	Indonesia	Indonesia	1993	VIII
567133A		East Java	Indonesia	Indonesia	1993	VIII
567134		East Java	Indonesia	Indonesia	1993	VIII
567136A		East Java	Indonesia	Indonesia	1993	VIII
567137A		Bali	Indonesia	Indonesia	1993	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567082A	VIII	D	P	T	E	N	Br	I	Y	Brbl	Def	3N
567082B	VIII	N	P	T	E	Ssp	Br	I	Y	Brbl		3N
567083A	VIII	D	P	T	E	N	Tn	D	Y	Brbl	Sdef	3N
567084	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567085A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567085B	VIII	D	P	T	E	Ssp	Tn	I	Y	Brbl		3N
567086A	VIII	D	P	T	E	N	Br	I	Y	Brbl	Sdef	3N
567087A	VIII	D	P	G	E	N	Tn	I	Y	Bf		3N
567087B	VII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567088A	VIII	D	P	T	E	Ssp	Tn	I	Y	Brbl		3N
567088B	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567089A	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567089B	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567091	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567092A	VIII	N	P	T	E	N	Tn	I	Y	Brbl	Def	3N
567092B	VIII	N	P	T	E	N	Br	I	Y	Brbl	Sdef	3N
567093A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567093B	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567094	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567095A	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567097A	VIII	N	P	T	E	N	Tn	I	Y	Brbl		3N
567097B	VIII	N	P	T	E	N	Br	I	Y	Brbl		3N
567098A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567105	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567107A	VIII	D	P	G	E	Ssp	Tn	I	Y	Bf	Sdef	3N
567108A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567108B	VIII	D	P	T	E	Ssp	Br	I	Y	Brbl		3N
567110A	VIII	D	P	T	E	N	Tn	D	Y	Brbl		3N
567111	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567114	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567115A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567116A	VIII	D	P	T	E	Ssp	Tn	I	Y	Brbl		3N
567116B	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567117A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567120	VIII	S	P	T	E	N	Br	I	Y	Brbl		3N
567121A	VIII	S	P	T	E	N	Br	I	Y	Brbl		3N
567122A	VIII	D	P	T	Sa	Ssp	Br	I	Y	Brbl		3N
567122B	VIII	D	P	T	E	N	Br	I	Y	Brbl	Sdef	3N
567123A	VIII	S	P	T	E	Ssp	Br	I	Y	Brbl		3N
567124	VIII	D	P	T	E	N	Br	I	Y	Brbl	Sdef	3N
567132A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567132B	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567133A	VIII	D	P	T	E	N	Br	I	Lgn	Brbl		3N
567134	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567136A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N
567137A	VIII	D	P	T	E	N	Br	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			Yield
	date	date			early	late	Quality	Mottling	Weight	
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567082A	731 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	150 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.2 <sup>^</sup>	1.08 <sup>^</sup>
567082B	813 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	153 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	7.8 <sup>^</sup>	1.12 <sup>^</sup>
567083A	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	180 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	5.0 <sup>^</sup>	9.5 <sup>^</sup>	1.41 <sup>^</sup>
567084	811 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	140 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	6.9 <sup>^</sup>	1.28 <sup>^</sup>
567085A	811 <sup>^</sup>	1021 <sup>^</sup>	3.0 <sup>^</sup>	134 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.7 <sup>^</sup>	1.32 <sup>^</sup>
567085B	815 <sup>^</sup>	1021 <sup>^</sup>	3.0 <sup>^</sup>	135 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.9 <sup>^</sup>	1.76 <sup>^</sup>
567086A	815 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	125 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	6.9 <sup>^</sup>	1.29 <sup>^</sup>
567087A	804 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0 <sup>^</sup>	8.2 <sup>^</sup>	1.67 <sup>^</sup>
567087B	728 <sup>^</sup>	1016 <sup>^</sup>	4.0 <sup>^</sup>	110 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.7 <sup>^</sup>	0.84 <sup>^</sup>
567088A	815 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.7 <sup>^</sup>	1.19 <sup>^</sup>
567088B	815 <sup>^</sup>	1104 <sup>^</sup>	4.0 <sup>^</sup>	158 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.7 <sup>^</sup>	0.59 <sup>^</sup>
567089A	728 <sup>^</sup>	1021 <sup>^</sup>	4.0 <sup>^</sup>	150 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.4 <sup>^</sup>	2.22 <sup>^</sup>
567089B	811 <sup>^</sup>	1021 <sup>^</sup>	4.0 <sup>^</sup>	186 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.1 <sup>^</sup>	1.49 <sup>^</sup>
567091	815 <sup>^</sup>	1023 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.4 <sup>^</sup>	1.68 <sup>^</sup>
567092A	815 <sup>^</sup>	1023 <sup>^</sup>	4.0 <sup>^</sup>	155 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	7.9 <sup>^</sup>	1.56 <sup>^</sup>
567092B	818 <sup>^</sup>	1031 <sup>^</sup>	4.0 <sup>^</sup>	170 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.0 <sup>^</sup>	0.79 <sup>^</sup>
567093A	811 <sup>^</sup>	1021 <sup>^</sup>	4.0 <sup>^</sup>	180 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.0 <sup>^</sup>	1.47 <sup>^</sup>
567093B	815 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	144 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	8.2 <sup>^</sup>	1.68 <sup>^</sup>
567094	818 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	136 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.6 <sup>^</sup>	1.54 <sup>^</sup>
567095A	815 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	8.3 <sup>^</sup>	1.26 <sup>^</sup>
567097A	818 <sup>^</sup>	1025 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.9 <sup>^</sup>	0.77 <sup>^</sup>
567097B	815 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	155 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.6 <sup>^</sup>	1.14 <sup>^</sup>
567098A	818 <sup>^</sup>	1030 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.2 <sup>^</sup>	1.37 <sup>^</sup>
567105	818 <sup>^</sup>	1022 <sup>^</sup>	3.0 <sup>^</sup>	125 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	5.0 <sup>^</sup>	8.6 <sup>^</sup>	1.76 <sup>^</sup>
567107A	811 <sup>^</sup>	1025 <sup>^</sup>	4.0 <sup>^</sup>	128 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	8.1 <sup>^</sup>	0.63 <sup>^</sup>
567108A	811 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	6.9 <sup>^</sup>	1.40 <sup>^</sup>
567108B	813 <sup>^</sup>	1025 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	9.3 <sup>^</sup>	1.14 <sup>^</sup>
567110A	811 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	160 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.9 <sup>^</sup>	1.09 <sup>^</sup>
567111	815 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	123 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.0 <sup>^</sup>	0.83 <sup>^</sup>
567114	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	122 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.1 <sup>^</sup>	1.01 <sup>^</sup>
567115A	813 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	120 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	6.6 <sup>^</sup>	1.16 <sup>^</sup>
567116A	815 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	9.3 <sup>^</sup>	1.42 <sup>^</sup>
567116B	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	132 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.0 <sup>^</sup>	1.22 <sup>^</sup>
567117A	811 <sup>^</sup>	1028 <sup>^</sup>	4.0 <sup>^</sup>	123 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	7.6 <sup>^</sup>	0.87 <sup>^</sup>
567120	811 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	130 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	6.5 <sup>^</sup>	1.12 <sup>^</sup>
567121A	813 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	125 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.5 <sup>^</sup>	1.20 <sup>^</sup>
567122A	811 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	126 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.4 <sup>^</sup>	1.71 <sup>^</sup>
567122B	818 <sup>^</sup>	1023 <sup>^</sup>	4.0 <sup>^</sup>	160 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	7.2 <sup>^</sup>	1.34 <sup>^</sup>
567123A	813 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	114 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.2 <sup>^</sup>	1.05 <sup>^</sup>
567124	824 <sup>^</sup>	1024 <sup>^</sup>	4.0 <sup>^</sup>	145 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.1 <sup>^</sup>	1.59 <sup>^</sup>
567132A	818 <sup>^</sup>	1026 <sup>^</sup>	4.0 <sup>^</sup>	122 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.2 <sup>^</sup>	1.09 <sup>^</sup>
567132B	813 <sup>^</sup>	1023 <sup>^</sup>	4.0 <sup>^</sup>	155 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	5.0 <sup>^</sup>	7.3 <sup>^</sup>	1.57 <sup>^</sup>
567133A	818 <sup>^</sup>	1024 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.5 <sup>^</sup>	4.0 <sup>^</sup>	8.4 <sup>^</sup>	1.52 <sup>^</sup>
567134	811 <sup>^</sup>	1024 <sup>^</sup>	4.0 <sup>^</sup>	150 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	8.1 <sup>^</sup>	1.35 <sup>^</sup>
567136A	811 <sup>^</sup>	1025 <sup>^</sup>	4.0 <sup>^</sup>	135 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	9.0 <sup>^</sup>	1.35 <sup>^</sup>
567137A	813 <sup>^</sup>	1022 <sup>^</sup>	4.0 <sup>^</sup>	145 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	7.3 <sup>^</sup>	1.47 <sup>^</sup>

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567082A	VIII	47.8 <sup>^</sup>	15.4 <sup>^</sup>	12.0 <sup>^</sup>	3.8 <sup>^</sup>	20.6 <sup>^</sup>	54.5 <sup>^</sup>	9.1 <sup>^</sup>
567082B	VIII	49.9 <sup>^</sup>	13.1 <sup>^</sup>	12.3 <sup>^</sup>	4.3 <sup>^</sup>	18.8 <sup>^</sup>	54.3 <sup>^</sup>	10.2 <sup>^</sup>
567083A	VIII	48.0 <sup>^</sup>	15.8 <sup>^</sup>	11.4 <sup>^</sup>	3.9 <sup>^</sup>	22.1 <sup>^</sup>	51.3 <sup>^</sup>	11.3 <sup>^</sup>
567084	VIII	48.4 <sup>^</sup>	14.2 <sup>^</sup>	11.7 <sup>^</sup>	4.3 <sup>^</sup>	20.6 <sup>^</sup>	53.7 <sup>^</sup>	9.7 <sup>^</sup>
567085A	VIII	50.5 <sup>^</sup>	13.7 <sup>^</sup>	13.4 <sup>^</sup>	4.3 <sup>^</sup>	21.8 <sup>^</sup>	50.8 <sup>^</sup>	9.8 <sup>^</sup>
567085B	VIII	51.1 <sup>^</sup>	11.5 <sup>^</sup>	13.0 <sup>^</sup>	3.9 <sup>^</sup>	19.4 <sup>^</sup>	53.3 <sup>^</sup>	10.4 <sup>^</sup>
567086A	VIII	49.8 <sup>^</sup>	13.0 <sup>^</sup>	13.7 <sup>^</sup>	4.0 <sup>^</sup>	20.4 <sup>^</sup>	52.2 <sup>^</sup>	9.7 <sup>^</sup>
567087A	VIII	47.7 <sup>^</sup>	15.4 <sup>^</sup>	13.0 <sup>^</sup>	3.7 <sup>^</sup>	21.0 <sup>^</sup>	53.6 <sup>^</sup>	8.7 <sup>^</sup>
567087B	VII	46.9 <sup>^</sup>	16.2 <sup>^</sup>	12.8 <sup>^</sup>	4.2 <sup>^</sup>	28.4 <sup>^</sup>	47.2 <sup>^</sup>	7.4 <sup>^</sup>
567088A	VIII	51.3 <sup>^</sup>	13.6 <sup>^</sup>	11.8 <sup>^</sup>	4.5 <sup>^</sup>	22.0 <sup>^</sup>	52.2 <sup>^</sup>	9.4 <sup>^</sup>
567088B	VIII	48.5 <sup>^</sup>	13.9 <sup>^</sup>	11.7 <sup>^</sup>	4.4 <sup>^</sup>	20.9 <sup>^</sup>	53.0 <sup>^</sup>	10.1 <sup>^</sup>
567089A	VIII	52.7 <sup>^</sup>	12.8 <sup>^</sup>	12.7 <sup>^</sup>	4.8 <sup>^</sup>	21.5 <sup>^</sup>	51.7 <sup>^</sup>	9.2 <sup>^</sup>
567089B	VIII	50.5 <sup>^</sup>	13.7 <sup>^</sup>	12.2 <sup>^</sup>	4.7 <sup>^</sup>	21.4 <sup>^</sup>	52.0 <sup>^</sup>	9.6 <sup>^</sup>
567091	VIII	47.3 <sup>^</sup>	14.7 <sup>^</sup>	12.1 <sup>^</sup>	4.6 <sup>^</sup>	20.8 <sup>^</sup>	52.8 <sup>^</sup>	9.7 <sup>^</sup>
567092A	VIII	49.7 <sup>^</sup>	13.9 <sup>^</sup>	12.4 <sup>^</sup>	3.8 <sup>^</sup>	18.7 <sup>^</sup>	54.8 <sup>^</sup>	10.3 <sup>^</sup>
567092B	VIII	-	-	11.9 <sup>^</sup>	4.4 <sup>^</sup>	22.1 <sup>^</sup>	52.2 <sup>^</sup>	9.4 <sup>^</sup>
567093A	VIII	49.6 <sup>^</sup>	15.1 <sup>^</sup>	11.7 <sup>^</sup>	4.6 <sup>^</sup>	26.9 <sup>^</sup>	48.4 <sup>^</sup>	8.4 <sup>^</sup>
567093B	VIII	47.0 <sup>^</sup>	15.4 <sup>^</sup>	11.9 <sup>^</sup>	4.2 <sup>^</sup>	21.6 <sup>^</sup>	53.4 <sup>^</sup>	8.9 <sup>^</sup>
567094	VIII	46.1 <sup>^</sup>	15.1 <sup>^</sup>	12.4 <sup>^</sup>	4.6 <sup>^</sup>	20.5 <sup>^</sup>	52.4 <sup>^</sup>	10.1 <sup>^</sup>
567095A	VIII	46.6 <sup>^</sup>	15.0 <sup>^</sup>	12.4 <sup>^</sup>	5.3 <sup>^</sup>	22.4 <sup>^</sup>	50.6 <sup>^</sup>	9.3 <sup>^</sup>
567097A	VIII	49.8 <sup>^</sup>	13.0 <sup>^</sup>	12.2 <sup>^</sup>	5.5 <sup>^</sup>	21.6 <sup>^</sup>	51.3 <sup>^</sup>	9.4 <sup>^</sup>
567097B	VIII	-	-	12.4 <sup>^</sup>	5.1 <sup>^</sup>	24.6 <sup>^</sup>	47.4 <sup>^</sup>	10.5 <sup>^</sup>
567098A	VIII	48.3 <sup>^</sup>	12.5 <sup>^</sup>	11.7 <sup>^</sup>	4.8 <sup>^</sup>	20.4 <sup>^</sup>	53.1 <sup>^</sup>	9.9 <sup>^</sup>
567105	VIII	49.3 <sup>^</sup>	14.2 <sup>^</sup>	13.3 <sup>^</sup>	4.6 <sup>^</sup>	19.7 <sup>^</sup>	53.3 <sup>^</sup>	9.1 <sup>^</sup>
567107A	VIII	51.5 <sup>^</sup>	12.2 <sup>^</sup>	11.7 <sup>^</sup>	5.0 <sup>^</sup>	22.2 <sup>^</sup>	52.3 <sup>^</sup>	8.8 <sup>^</sup>
567108A	VIII	52.4 <sup>^</sup>	12.0 <sup>^</sup>	12.6 <sup>^</sup>	4.3 <sup>^</sup>	21.5 <sup>^</sup>	52.8 <sup>^</sup>	8.8 <sup>^</sup>
567108B	VIII	52.5 <sup>^</sup>	13.4 <sup>^</sup>	11.7 <sup>^</sup>	4.1 <sup>^</sup>	21.3 <sup>^</sup>	54.3 <sup>^</sup>	8.6 <sup>^</sup>
567110A	VIII	47.9 <sup>^</sup>	15.5 <sup>^</sup>	12.6 <sup>^</sup>	4.3 <sup>^</sup>	26.5 <sup>^</sup>	50.4 <sup>^</sup>	6.2 <sup>^</sup>
567111	VIII	51.2 <sup>^</sup>	13.8 <sup>^</sup>	12.0 <sup>^</sup>	4.9 <sup>^</sup>	23.5 <sup>^</sup>	50.9 <sup>^</sup>	8.7 <sup>^</sup>
567114	VIII	49.9 <sup>^</sup>	14.1 <sup>^</sup>	12.7 <sup>^</sup>	4.8 <sup>^</sup>	23.7 <sup>^</sup>	50.6 <sup>^</sup>	8.2 <sup>^</sup>
567115A	VIII	49.3 <sup>^</sup>	13.6 <sup>^</sup>	11.6 <sup>^</sup>	3.8 <sup>^</sup>	23.9 <sup>^</sup>	50.5 <sup>^</sup>	10.2 <sup>^</sup>
567116A	VIII	50.4 <sup>^</sup>	14.8 <sup>^</sup>	11.6 <sup>^</sup>	4.2 <sup>^</sup>	21.2 <sup>^</sup>	54.6 <sup>^</sup>	8.4 <sup>^</sup>
567116B	VIII	49.2 <sup>^</sup>	14.1 <sup>^</sup>	12.7 <sup>^</sup>	3.6 <sup>^</sup>	23.8 <sup>^</sup>	49.1 <sup>^</sup>	10.9 <sup>^</sup>
567117A	VIII	51.2 <sup>^</sup>	12.6 <sup>^</sup>	10.6 <sup>^</sup>	3.8 <sup>^</sup>	24.3 <sup>^</sup>	50.7 <sup>^</sup>	10.5 <sup>^</sup>
567120	VIII	50.4 <sup>^</sup>	13.8 <sup>^</sup>	12.3 <sup>^</sup>	4.1 <sup>^</sup>	24.2 <sup>^</sup>	51.0 <sup>^</sup>	8.5 <sup>^</sup>
567121A	VIII	-	-	14.2 <sup>^</sup>	4.2 <sup>^</sup>	23.1 <sup>^</sup>	50.0 <sup>^</sup>	8.6 <sup>^</sup>
567122A	VIII	47.8 <sup>^</sup>	14.7 <sup>^</sup>	13.1 <sup>^</sup>	4.4 <sup>^</sup>	20.4 <sup>^</sup>	52.1 <sup>^</sup>	10.0 <sup>^</sup>
567122B	VIII	49.8 <sup>^</sup>	13.8 <sup>^</sup>	13.0 <sup>^</sup>	4.4 <sup>^</sup>	20.6 <sup>^</sup>	52.7 <sup>^</sup>	9.4 <sup>^</sup>
567123A	VIII	49.2 <sup>^</sup>	14.2 <sup>^</sup>	12.9 <sup>^</sup>	5.3 <sup>^</sup>	21.4 <sup>^</sup>	52.1 <sup>^</sup>	8.3 <sup>^</sup>
567124	VIII	49.4 <sup>^</sup>	14.2 <sup>^</sup>	12.7 <sup>^</sup>	4.0 <sup>^</sup>	18.8 <sup>^</sup>	54.5 <sup>^</sup>	10.0 <sup>^</sup>
567132A	VIII	46.4 <sup>^</sup>	15.3 <sup>^</sup>	12.4 <sup>^</sup>	4.4 <sup>^</sup>	20.7 <sup>^</sup>	52.2 <sup>^</sup>	10.2 <sup>^</sup>
567132B	VIII	46.9 <sup>^</sup>	15.3 <sup>^</sup>	13.2 <sup>^</sup>	4.5 <sup>^</sup>	20.7 <sup>^</sup>	52.6 <sup>^</sup>	9.0 <sup>^</sup>
567133A	VIII	51.5 <sup>w^</sup>	12.6 <sup>w^</sup>	12.6 <sup>^</sup>	4.3 <sup>^</sup>	18.8 <sup>^</sup>	54.3 <sup>^</sup>	10.0 <sup>^</sup>
567134	VIII	51.6 <sup>^</sup>	12.9 <sup>^</sup>	11.8 <sup>^</sup>	3.7 <sup>^</sup>	23.9 <sup>^</sup>	50.9 <sup>^</sup>	9.6 <sup>^</sup>
567136A	VIII	48.3 <sup>^</sup>	14.5 <sup>^</sup>	12.7 <sup>^</sup>	4.6 <sup>^</sup>	22.3 <sup>^</sup>	50.8 <sup>^</sup>	9.6 <sup>^</sup>
567137A	VIII	46.9 <sup>^</sup>	14.6 <sup>^</sup>	12.3 <sup>^</sup>	5.3 <sup>^</sup>	21.5 <sup>^</sup>	51.8 <sup>^</sup>	9.0 <sup>^</sup>

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567145A		Bali	Indonesia	Indonesia	1993	VIII
567148	198b	unknown	Nepal	Italy	1992	VII
567176	Line 18	unknown	Japan	Australia	1992	VII
567180	140	unknown	Vietnam	Vietnam	1992	V
567182	862	unknown	Vietnam	Vietnam	1992	IV
567183	DH 4 (white flower)	unknown	Vietnam	Vietnam	1992	V
567184	DT 83	unknown	Vietnam	Vietnam	1992	VII
567185	IPK86	unknown	Vietnam	Vietnam	1992	VI
567186	M 103	unknown	Vietnam	Vietnam	1992	V
567187	VX 9-1	unknown	Vietnam	Vietnam	1992	IV
567188	VX 9-3	unknown	Vietnam	Vietnam	1992	VI
567189A	Ekhabac	unknown	Vietnam	Vietnam	1992	IV
567189B	(Ekhabac)	unknown	Vietnam	Vietnam	1992	V
567190	Halang 4 thang	unknown	Vietnam	Vietnam	1992	VI
567191	Ouesso	unknown	Vietnam	Vietnam	1992	V
567192	SRF black	unknown	Vietnam	Vietnam	1992	V
567203	GL2664/89	unknown	Georgia	Germany	1992	V
567204	GL2665/89	unknown	Georgia	Germany	1992	V
567205	GL2671/89	unknown	Georgia	Germany	1992	VI
567206	GL2674/90	unknown	Georgia	Germany	1992	VI
567207		unknown	Georgia	Germany	1992	VI
567230		Shaanxi	China	China	1992	V
567232A		Sichuan	China	China	1992	VI
567232B		Sichuan	China	China	1992	VI
567233		Sichuan	China	China	1992	V
567234A		Sichuan	China	China	1992	V
567234B		Sichuan	China	China	1992	V
567234C		Sichuan	China	China	1992	V
567236		Guangdong	China	China	1992	V
567256	Ai jiao qing	Jiangxi	China	China	1993	VIII
567257A		Jiangxi	China	China	1992	VIII
567257B		Jiangxi	China	China	1992	VIII
567257C		Jiangxi	China	China	1992	VIII
567268	Local mixed	Guangdong	China	China	1992	V
567269A	Local mixed	Guangdong	China	China	1992	V
567269B	(Local mixed)	Guangdong	China	China	1992	V
567269C	(Local mixed)	Guangdong	China	China	1992	V
567269D	(Local mixed)	Guangdong	China	China	1992	V
567270B	(Local mixed)	Guangdong	China	China	1992	V
567270C	(Local mixed)	Guangdong	China	China	1992	V
567271		unknown	Taiwan	Taiwan	1992	VII
567274	Bam kong	unknown	South Korea	South Korea	1992	V
567282A		unknown	South Korea	South Korea	1992	VI
567282B		unknown	South Korea	South Korea	1992	VI
567290B	(Bai huang dou)	Gansu	China	China	1992	V
567292	Bai xiong dou	Gansu	China	China	1992	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567145A	VIII	D	P	T	E	N	Tn	I	Y	Brbl		3N
567148	VII	D	P	T	A	N	Tn	I	Y	Br		2N
567176	VII	D	W	G	Sa	Ssp	Tn	I	Gn	Bf	Gnc	3N
567180	V	D	P	T	I	N	Br	I	Y	Br		3N
567182	IV	D	P	T	A	N	Br	I	Y	Br		3N
567183	V	D	W	T	A	N	Tn	I	Y	Br	Sdef	3N
567184	VII	D	P	T	A	N	Tn	I	Y	Brbl		2N
567185	VI	N	P	T	A	N	Tn	I	Gn	Br		3N
567186	V	D	P	T	A	N	Tn	I	Y	Br		3N
567187	IV	D	P	T	Sa	N	Br	I	Y	Br		3N
567188	VI	D	W	T	Sa	N	Tn	I	Y	Br		3N
567189A	IV	D	P	T	A	N	Tn	I	Y	Br		2N
567189B	V	D	P	T	A	N	Tn	I	Y	Br		2N
567190	VI	D	W	T	A	N	Tn	I	Y	Br		3N
567191	V	D	W	T	A	N	Br	I	Y	Br		3N
567192	V	N	P	T	A	N	Br	I	Bl	Bl	Sdef	2N
567203	V	N	W	Lt	E	Ssp	Br	I	Y	Br		3N
567204	V	N	P	Lt	E	Ssp	Tn	I	Y	Br		3N
567205	VI	N	W	T	Sa	Ssp	Br	I	Y	Bl		3N
567206	VI	D	P	T	E	Ssp	Br	I	Lgn	Br		3N
567207	VI	N	W	Lt	Sa	N	Lbr	I	Y	Br		3N
567230	V	N	P	Lt	E	N	Bl	I	Bl	Bl	Flk	5F
567232A	VI	N	P	G	A	N	Br	I	Y	Bf		5N
567232B	VI	S	P	G	Sa	N	Br	I	Y	Bf		5N
567233	V	N	P	G	A	N	Br	I	Y	Bf		5N
567234A	V	N	P	G	A	N	Br	D	Y	Bf		3N
567234B	V	N	P	G	A	N	Br	D	Y	Bf		3N
567234C	V	D	P	G	Sa	N	Dbr	D	Y	Bf		3N
567236	V	D	P	T	A	N	Tn	I	Y	Bl	Sdef	3N
567256	VIII	N	P	T	A	N	Br	I	Gn	Br	Sdef	3N
567257A	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
567257B	VIII	N	P	T	Sa	N	Br	I	Y	Br		3N
567257C	VIII	N	P	T	Sa	N	Br	I	Y	Brbl	Lft4	3N
567268	V	D	P	G	A	N	Br	D	Y	Bf	Def	2N
567269A	V	N	P	T	Sa	N	Br	I	Y	Br		3N
567269B	V	N	P	T	E	N	Tn	I	Y	Br		2N
567269C	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
567269D	V	D	P	T	Sa	N	Tn	D	Y	Br		3N
567270B	V	N	P	T	A	N	Tn	I	Y	Br		3N
567270C	V	N	P	G	A	N	Tn	I	Y	Ib	Vhil	2N
567271	VII	N	W	T	E	N	Br	D	Y	Br		3N
567274	V	D	P	T	Sa	Ssp	Br	D	Gn	Bl		2N
567282A	VI	D	P	T	E	Ssp	Br	Lb	Bl	Bl		3N
567282B	VI	D	P	T	A	Ssp	Br	I	Bl	Bl	Gnc	3F
567290B	V	N	P	T	Sa	N	Dbr	I	Y	Br		4N
567292	V	N	P	G	E	N	Br	I	Y	Ib	Vhil	4N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567145A	811^	1025^	4.0^	135^	2.0^	3.0^	2.5^	4.0^	6.5^	0.89^
567148	806	1013	4.0	76	1.0	1.5	2.0	2.0	12.9	2.78
567176	720	1018	3.0	81*	3.0	4.5	3.2	3.0	16.7	0.74^
567180	710	915	3.5	100*	4.0	5.0	2.5	1.0	15.1	2.00
567182	706	912	3.0	102*	3.5	4.5	2.2	2.0	14.6	0.96
567183	713	929	4.0	115	3.0	4.0	2.8	2.0	16.0	2.15
567184	806	1013	5.0	121	3.0	4.0	2.8	3.0	12.0	1.42
567185	730	1003	5.0	119*	3.0	4.0	2.0	4.0	10.4	1.17
567186	717	925	3.5	113	3.0	4.0	2.5	2.0	17.2	2.15
567187	627	911	2.0	72	2.0*	2.5	2.2	3.0	13.6	1.95
567188	719	1010	2.0	103	3.0	4.0^	2.2	3.5	13.9	1.53
567189A	711	911	3.5	103	3.5	4.5	1.8	2.0	11.2	1.81
567189B	715	919	4.0	111	3.0	4.0	1.8	2.5	9.4	1.74
567190	717	1005	3.0	102	2.0	3.0	2.2	2.0	13.0	1.73
567191	709	915	3.5	90*	2.5	3.5	2.0	1.5	16.2	1.89
567192	707	917	3.0*	79	1.0	2.0	2.2	--	10.8	1.62
567203	706	1001	3.0	94	1.5	2.0	3.5	3.0	16.3*	1.58*
567204	703	924	3.5	107*	2.0*	2.5	2.8	3.0	11.9	2.09
567205	711	1009	3.0^	98*	2.5	3.0	3.5	3.5	15.7	1.74^
567206	711	1005	1.5	73	2.5	3.0	2.2*	3.0	9.6	1.31
567207	721	1007	3.0	109	2.0*	2.5	3.0	2.5	12.5	1.47
567230	719	927	5.0	101	3.0*	3.5	2.5	--	4.8	0.43
567232A	703	1002	5.0	110	2.0	3.0	3.5	1.0	12.2	2.07*
567232B	701	1002	5.0	123*	2.0	3.0	3.5	1.0	12.8	2.37*
567233	705	929	5.0	106	2.0	3.0	2.8	1.5	11.1	3.13
567234A	628	920	4.5	82	2.0*	3.0*	3.2	2.5	11.4	1.50^
567234B	627	915	4.0	75*	2.0*	2.5	3.2	1.5	13.4*	1.80^
567234C	703	920	1.5	57	2.0*	2.5	2.8	2.0*	10.7*	1.28
567236	721	925	3.5	98	2.0	3.0^	2.5	2.5	17.0*	1.87
567256	806	1022	3.5	110*	1.0	2.0	3.0	2.5	22.6	1.83
567257A	814	1104*	4.0	153	1.0	1.5	2.5	2.0	20.8	1.48
567257B	814	1110	4.0	152*	1.0	2.0	2.8	3.5	18.3	1.15
567257C	819	1110	4.0	120	1.0	2.0	3.2	2.5	24.2	0.91*
567268	719	925	3.0	57*	2.0*	3.0*	3.0	3.0*	15.4	1.20
567269A	730	929*	4.0	91	1.5	2.5	2.5	5.0	11.9	0.62
567269B	723	1001*	4.0	76	2.0	3.0	2.5	5.0	9.9	0.42
567269C	719	917	4.0	106*	3.0*	3.5	2.0	2.5	11.2	1.80
567269D	729	930*	4.0	103*	2.0*	3.0*	2.8*	5.0	10.7	0.75
567270B	726	930*	4.0	103	2.0	3.0	2.8*	5.0	11.0	0.67
567270C	727	919	5.0	109*	3.5	4.0	2.2	3.0	9.0	1.19
567271	719	1023*	3.0	162	2.0	3.0	3.0	2.5	13.7	1.27*
567274	703	929	1.5	59	1.5	2.5	3.0	2.0	27.7*	1.12
567282A	715	1005	2.0*	92*	1.5	2.5	2.5	--	11.0	1.03
567282B	717	1007	2.5	78	1.5	2.5	2.5	--	24.6*	0.99
567290B	715	1003	4.0	120	2.0*	3.0*	3.5	4.5	8.9	1.01
567292	701	927*	4.0	108	2.0	3.0	3.2	2.0	9.0	0.84



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567145A	VIII	51.8 <sup>^</sup>	13.0 <sup>^</sup>	12.6 <sup>^</sup>	5.2 <sup>^</sup>	25.7 <sup>^</sup>	49.0 <sup>^</sup>	7.5 <sup>^</sup>
567148	VII	46.4	16.4	12.0	3.9	24.1	54.4	5.7
567176	VII	44.7 <sup>w</sup>	17.3 <sup>w</sup>	11.6	3.8	22.5	53.1	9.0
567180	V	47.3	15.6	12.8	3.1	24.7	52.2	7.3
567182	IV	44.8	16.4	12.0	3.1	32.0	46.9	6.1
567183	V	43.6	16.6	13.1	3.1	25.2	50.9	7.7
567184	VII	43.5	17.3	12.2	3.9	25.8	51.2	7.0
567185	VI	43.2 <sup>w</sup>	15.9 <sup>w</sup>	12.5	3.2	25.2	52.5	6.6
567186	V	43.8	17.1	13.3	3.3	26.1	49.5	7.8
567187	IV	42.7	20.1	12.0	4.1	24.8	53.4	5.8
567188	VI	44.9	18.3	12.3	3.6	22.2	54.1	7.8
567189A	IV	47.4	17.0	11.4	3.3	37.9	41.0	6.3
567189B	V	43.2	18.4	11.0	3.4	35.6	43.5	6.5
567190	VI	45.7	15.4	12.9	3.3	27.0	48.6	8.2
567191	V	48.0	15.7	12.7	2.6	26.5	51.1	7.0
567192	V	48.2 <sup>w^</sup>	15.6 <sup>w^</sup>	10.2	4.4	29.9	48.1	7.4
567203	V	48.3	17.0	12.1	3.5	35.5	43.7	5.2
567204	V	43.5	18.3	12.9	3.6	23.8	53.2	6.5
567205	VI	47.4	17.5	11.5	3.7	38.6	41.7	4.6
567206	VI	47.0	14.4	12.5	3.2	18.1	58.0	8.2
567207	VI	42.7	17.0	12.3	3.6	20.5	55.7	7.9
567230	V	46.6 <sup>w^</sup>	11.9 <sup>w^</sup>	12.5	4.0	16.6	58.7	8.3
567232A	VI	45.5	14.3	12.6	3.3	18.2	57.9	8.0
567232B	VI	45.3	14.2	12.5	3.1	18.9	57.3	8.2
567233	V	44.8	14.7	13.3	4.0	24.1	50.1	8.4
567234A	V	48.6	15.1	13.7	3.3	23.1	53.3	6.6
567234B	V	42.8	16.7	13.8	3.8	20.0	55.2	7.2
567234C	V	45.5	14.7	12.2	3.4	21.9	55.8	6.8
567236	V	47.0	16.3	13.2	3.3	25.5	51.5	6.6
567256	VIII	48.4	16.2	11.8	4.4	21.8	55.2	6.9
567257A	VIII	45.9	16.1	12.1	4.2	23.9	53.0	6.8
567257B	VIII	46.5	16.0	12.3	4.0	25.4	52.0	6.4
567257C	VIII	45.0	16.7	11.9	4.4	26.2	51.2	6.4
567268	V	47.6 <sup>w</sup>	15.6 <sup>w</sup>	10.5	3.4	31.5	48.4	6.3
567269A	V	46.4 <sup>w</sup>	13.8 <sup>w</sup>	11.1	3.4	34.2	44.9	6.4
567269B	V	47.3 <sup>w</sup>	15.5 <sup>w</sup>	12.0	3.3	29.1	48.8	6.8
567269C	V	48.7	16.5	12.9	3.6	29.0	47.7	6.9
567269D	V	46.6 <sup>w</sup>	14.5 <sup>w</sup>	11.0	3.4	33.0	46.3	6.2
567270B	V	48.7 <sup>w</sup>	15.1 <sup>w</sup>	11.7	3.3	29.2	49.3	6.5
567270C	V	50.4	14.8	13.5	3.7	24.2	50.7	8.0
567271	VII	45.8	16.5	12.1	4.0	20.9	54.6	8.3
567274	V	45.6 <sup>w^</sup>	18.3 <sup>w^</sup>	12.3	3.4	31.2	47.2	5.8
567282A	VI	46.6 <sup>w^</sup>	15.5 <sup>w^</sup>	12.1	3.5	19.0	58.2	7.2
567282B	VI	42.7 <sup>w^</sup>	19.0 <sup>w^</sup>	11.4	3.3	21.7	56.4	7.2
567290B	V	40.7 <sup>w</sup>	16.4 <sup>w</sup>	11.9	4.0	21.2	55.3	7.5
567292	V	46.9	13.2	12.7	3.3	15.8	59.2	9.0

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567295	Bian huang dou	Gansu	China	China	1992	VIII
567298	Chan yao dou	Gansu	China	China	1992	V
567299A	Chang man you huang dou	Gansu	China	China	1992	V
567299B	(Chang man you huang dou)	Gansu	China	China	1992	V
567300B	(Da hei dou)	Gansu	China	China	1992	V
567303B	(Hei da dou)	Gansu	China	China	1992	V
567308	Hei huang dou	Gansu	China	China	1992	V
567309	Hei huang dou	Gansu	China	China	1992	V
567310A	Hei huang dou	Gansu	China	China	1992	V
567310B	(Hei huang dou)	Gansu	China	China	1992	V
567312	Hei yao huang dou	Gansu	China	China	1992	VI
567314	Hei you huang dou	Gansu	China	China	1992	VI
567315	Hong huang dou	Gansu	China	China	1992	VII
567316A	Hong huang dou	Gansu	China	China	1992	V
567316B	(Hong huang dou)	Gansu	China	China	1992	VI
567320	Huang dou	Gansu	China	China	1992	V
567321B	(Huang dou)	Gansu	China	China	1992	V
567322	Huang dou	Gansu	China	China	1992	VI
567325B	(Huang dou)	Gansu	China	China	1992	V
567326A	Huang dou	Gansu	China	China	1992	VI
567326B	(Huang dou)	Gansu	China	China	1992	VI
567328	Huang gun dou	Gansu	China	China	1992	V
567329	Huang huang dou	Gansu	China	China	1992	VI
567332	Huo huang dou	Gansu	China	China	1992	VI
567333B	(Ji dan pi)	Gansu	China	China	1992	V
567334	Jiang dou zi	Gansu	China	China	1992	VI
567335B	(Lai da dou)	Gansu	China	China	1992	V
567336C	(Lao hei dou)	Gansu	China	China	1992	V
567338	Lu huang dou	Gansu	China	China	1992	V
567339	Lu huang dou	Gansu	China	China	1992	V
567340	Lu lai dou	Gansu	China	China	1992	V
567342	Ma hei dou	Gansu	China	China	1992	V
567343	Ma huang dou	Gansu	China	China	1992	V
567345	Niu mao huang	Gansu	China	China	1992	VI
567346	Niu mao huang dou	Gansu	China	China	1992	V
567347	Qian lu gun dou	Gansu	China	China	1992	V
567349A	Shu pi huang dou	Gansu	China	China	1992	V
567349B	(Shu pi huang dou)	Gansu	China	China	1992	VI
567350A	Shu pi huang dou	Gansu	China	China	1992	VI
567350B	(Shu pi huang dou)	Gansu	China	China	1992	VI
567352C	(Yang yan qing dou)	Gansu	China	China	1992	V
567355A	Yuan huang dou	Gansu	China	China	1992	V
567355B	(Yuan huang dou)	Gansu	China	China	1992	V
567356	Zao bai huang dou	Gansu	China	China	1992	VI
567370B	(Xu wang huang da dou)	Ningxia	China	China	1992	V
567373B	(Zhong wei huang da dou)	Ningxia	China	China	1992	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567295	VIII	N	P	Lt	E	N	Br	I	Br	Br		5N
567298	V	D	P	T	E	N	Bl	I	Y	Brbl		5N
567299A	V	D	P	G	E	N	Bl	I	Y	Bf		4N
567299B	V	N	P	T	E	N	Br	I	Y	Br		5N
567300B	V	N	W	T	E	N	Bl	I	Bl	Bl	Lft5	3N
567303B	V	N	P	T	E	N	Lbr	I	Bl	Bl	Flk	5F
567308	V	D	W	T	Sa	N	Bl	I	Bl	Bl		3N
567309	V	N	P	T	E	Ssp	Bl	I	Bl	Bl	Flk	5N
567310A	V	N	P	T	E	Ssp	Bl	I	Bl	Bl	Flk	4N
567310B	V	D	W	T	E	N	Bl	I	Bl	Bl		3N
567312	VI	D	W	T	E	N	Bl	I	Y	Brbl		4N
567314	VI	N	P	T	E	N	Bl	I	Bl	Bl	Flk	5F
567315	VII	N	W	T	E	Ssp	Br	S	Br	Br		4N
567316A	V	D	W	T	E	Ssp	Br	I	Rbr	Rbr		2N
567316B	VI	D	W	T	E	Ssp	Tn	D	Br	Br		3N
567320	V	D	P	T	E	N	Bl	D	Y	Brbl		4N
567321B	V	N	W	G	E	N	Br	D	Y	Bf		4N
567322	VI	N	P	T	E	N	Br	I	Y	Br		4N
567325B	V	S	P	T	E	N	Bl	I	Y	Br		3N
567326A	VI	N	P	T	E	N	Dbr	S	Y	Br		4N
567326B	VI	N	P	T	E	N	Bl	S	Y	Br		4N
567328	V	N	P	T	E	N	Bl	I	Y	Br		3N
567329	VI	D	W	T	E	Ssp	Br	I	Y	Br		2N
567332	VI	N	P	T	E	N	Br	I	Y	Br		5N
567333B	V	D	W	G	E	Ssp	Tn	D	Y	Bf		2N
567334	VI	N	W	T	E	N	Bl	D	Br	Br		3N
567335B	V	N	P	T	E	N	Bl	S	Y	Brbl		3N
567336C	V	N	P	T	E	N	Bl	I	Bl	Bl		5F
567338	V	N	P	T	E	N	Bl	I	Gn	Bl		3N
567339	V	N	P	T	E	N	Dbr	I	Gn	Br	Gnc, Vhil	3N
567340	V	D	P	G	E	N	Bl	I	Gn	Bf		2N
567342	V	N	P	T	E	N	Bl	I	Gnbr	Gnbr		5F
567343	V	N	P	Lt	E	N	Bl	I	Br	Br		4F
567345	VI	D	W	T	E	N	Br	I	Y	Br		4N
567346	V	D	P	G	E	N	Bl	I	Y	Dbf		3N
567347	V	D	P	G	E	N	Br	D	Gn	Dbf	Abh	2N
567349A	V	D	P	G	E	N	Bl	I	Y	Bf		3N
567349B	VI	D	W	T	A	N	Br	I	Y	Br		2N
567350A	VI	N	W	T	E	N	Bl	I	Y	Br		4N
567350B	VI	D	P	T	Sa	N	Dbr	I	Y	Br		3N
567352C	V	N	P	T	E	N	Br	I	Br	Br	St	4N
567355A	V	N	P	T	E	N	Bl	I	Y	Br		2N
567355B	V	N	P	T	Sa	N	Bl	I	Y	Br		2N
567356	VI	D	W	T	E	Ssp	Bl	I	Gn	Bl		2N
567370B	V	N	W	T	E	N	Br	I	Y	Brbl		3N
567373B	V	N	P	T	E	N	Br	D	Y	Br		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567295	806	1027	4.0	141*	2.0	2.5	3.0	--	9.5	1.30 <sup>^</sup>
567298	701	927	2.0	74	2.0*	2.5*	3.0	2.5	8.9	1.74
567299A	717	927	2.5	82	1.5	1.5	2.0	5.0	8.1	1.20
567299B	713	1003	4.5	158*	2.0*	3.0*	3.2	4.0	10.2	1.80*
567300B	713	923	3.5	115*	1.5	2.0	2.0	--	9.9	0.74
567303B	724	1001	4.0	156*	1.5	2.0*	2.2	--	5.4	0.86
567308	630	930	3.0	82	1.5	2.5	2.2	--	11.5	1.51
567309	719	1001	4.0	104	1.5	2.0	2.0	--	8.0	1.31
567310A	720	1004	4.0	114	1.5	2.0*	2.2	--	10.1	1.82
567310B	706	929	2.5	84	1.5	2.0	2.2	--	11.8	1.51
567312	717	1011	3.0	77	1.5	2.0	3.0	3.5	9.3	1.59
567314	726	1007	4.0	141*	1.5	2.5	2.5	--	7.3	0.74
567315	720	1013	3.0	107	2.0	3.0	2.5	--	13.3	1.07
567316A	715	1001	2.5	86	1.5	2.0	2.0	--	10.2	1.51
567316B	727	1007	3.0	98*	1.5	3.0	2.2	--	9.7	1.22
567320	705	920	2.0	62	1.5	1.5	3.2*	2.5	8.8	1.42*
567321B	703	923	3.5*	84*	2.0	2.5	4.0	2.5	7.2	1.21
567322	718	1005	4.5	130*	1.5	2.0*	2.8	2.5	8.9	1.33*
567325B	713	1001	3.5	119*	1.5	2.5	2.5	4.0*	9.8	1.05
567326A	715	1005	4.5	134*	1.5	2.5	2.8	4.5	10.2	1.24
567326B	713	1005	3.0	123*	1.5	2.0*	3.0	4.0*	10.4	1.40
567328	713	1001	4.0	121*	1.5	1.5	2.8	3.5	10.5	0.95
567329	722	1011	2.5	84	1.5	3.0	2.0	2.0	12.5	1.64
567332	715	1006	4.0	138*	2.0*	2.5	2.8*	4.5	9.4	0.55
567333B	707	918	1.5	75*	2.0*	3.0*	1.8	1.5	12.1	1.58
567334	801	1014	3.5	98*	1.5	3.0	1.8*	--	13.1	1.11
567335B	706	925	4.5	107*	2.5	3.5	2.8	3.5	6.7	0.96
567336C	704	923	5.0	144*	2.5	3.5	2.5	--	4.9	0.39
567338	629	925	4.5	130*	2.0	2.5	2.2	2.5	10.9*	1.01
567339	703	925	3.0*	125	2.0	2.5	2.8	2.0	11.5	1.48 <sup>^</sup>
567340	707	927	3.5	74	1.0	1.0	2.0	2.5	9.6	1.46
567342	707	927*	4.5	138	2.0*	2.5	3.0	--	5.0	0.38
567343	720	1003	3.5	107*	1.0	1.0	2.2	--	6.4	1.47
567345	720	1006	3.0	76	1.0	1.0	2.5	2.5	8.3	1.45
567346	707	929	2.5	83	1.0	1.0	2.2	5.0	8.0	1.50
567347	630	921	1.5	45	1.0	1.5	1.5	1.5	8.5	1.45
567349A	715	1003	2.5	90	1.5	1.5	2.0	2.5	10.4	1.41
567349B	722	1009	3.0	102*	2.0	3.0	1.8	3.5	8.6	1.99
567350A	801	1011	4.0	130	1.5	2.0	2.5	3.5	8.4	1.32
567350B	722	1009	2.5	82*	1.0	2.0	2.5	3.5	9.5	1.32
567352C	701	919	4.5	114*	2.0*	2.5	3.5	--	14.0*	1.10
567355A	701	929	4.0	140	2.0	3.0	2.2	3.0*	10.0	1.93
567355B	707	1001	4.0	151*	1.5	1.5	2.5	3.0*	10.3	1.80
567356	730	1014	3.5	92	1.5	2.0	2.2	3.5	12.8	1.38
567370B	701	1003	4.0	119*	1.5	2.0	2.5	2.5	11.7	1.55
567373B	701	927*	4.0	118*	1.5	2.5	2.5	3.5	10.0	0.93

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567295	VIII	43.4 <sup>w^</sup>	14.7 <sup>w^</sup>	11.6	3.0	16.4	61.2	7.8
567298	V	45.7	15.5	12.6	3.2	17.4	59.8	6.9
567299A	V	44.5 <sup>w</sup>	13.7 <sup>w</sup>	11.9	3.3	21.4	56.3	7.2
567299B	V	44.8 <sup>w^</sup>	17.4 <sup>w^</sup>	11.9	3.7	23.3	54.9	6.2
567300B	V	45.2 <sup>w^</sup>	16.3 <sup>w^</sup>	12.3	4.1	22.1	53.1	8.4
567303B	V	45.5 <sup>w^</sup>	13.1 <sup>w^</sup>	12.5	4.4	20.1	54.5	8.5
567308	V	46.6 <sup>w^</sup>	16.6 <sup>w^</sup>	11.6	3.5	18.5	59.1	7.3
567309	V	44.0 <sup>w^</sup>	13.0 <sup>w^</sup>	11.3	3.3	17.8	57.9	9.7
567310A	V	42.9 <sup>w^</sup>	13.1 <sup>w^</sup>	11.4	3.7	29.2	49.5	6.2
567310B	V	45.9 <sup>w^</sup>	13.8 <sup>w^</sup>	11.5	3.6	17.9	59.8	7.3
567312	VI	40.5 <sup>w^</sup>	18.4 <sup>w^</sup>	10.5	3.4	19.6	58.6	8.0
567314	VI	46.6 <sup>w^</sup>	13.7 <sup>w^</sup>	12.8	4.2	20.4	55.4	7.3
567315	VII	50.7 <sup>w</sup>	16.3 <sup>w</sup>	11.8	4.7	26.3	50.7	6.5
567316A	V	46.3 <sup>w</sup>	17.5 <sup>w</sup>	11.4	3.9	19.9	58.4	6.3
567316B	VI	48.6 <sup>w</sup>	16.8 <sup>w</sup>	11.3	4.4	19.9	58.2	6.3
567320	V	45.8 <sup>^</sup>	16.6 <sup>^</sup>	12.0	3.0	19.2	59.0	6.7
567321B	V	42.3	16.0	13.7	4.2	17.4	56.7	8.0
567322	VI	43.7	15.5	12.8	3.6	17.8	56.8	9.0
567325B	V	41.2 <sup>w</sup>	17.0 <sup>w</sup>	12.0	3.7	22.0	54.8	7.4
567326A	VI	46.0 <sup>w</sup>	16.6 <sup>w</sup>	11.8	3.4	19.9	58.1	6.9
567326B	VI	41.2 <sup>w</sup>	16.5 <sup>w</sup>	11.9	4.4	23.0	52.4	8.3
567328	V	44.8 <sup>w</sup>	17.0 <sup>w</sup>	11.5	3.3	32.5	46.7	5.9
567329	VI	44.2	18.1	11.2	3.4	26.6	53.3	5.5
567332	VI	45.9 <sup>w</sup>	15.7 <sup>w</sup>	12.3	3.8	19.7	56.9	7.2
567333B	V	47.1	18.4	11.9	4.2	19.3	58.0	6.5
567334	VI	45.5 <sup>w</sup>	18.0 <sup>w</sup>	11.5	3.7	21.8	56.2	6.8
567335B	V	50.2 <sup>w^</sup>	17.8 <sup>w^</sup>	13.2	4.2	17.0	56.6	8.9
567336C	V	45.6 <sup>w^</sup>	17.0 <sup>w^</sup>	12.4	3.3	15.2	60.0	9.0
567338	V	47.4 <sup>w</sup>	17.4 <sup>w</sup>	11.6	4.2	22.8	55.7	5.9
567339	V	45.1 <sup>w</sup>	16.9 <sup>w</sup>	12.0	4.0	30.5	48.3	5.2
567340	V	47.1 <sup>w</sup>	16.6 <sup>w</sup>	11.4	3.1	22.9	56.0	6.5
567342	V	51.9 <sup>w^</sup>	14.3 <sup>w^</sup>	11.7	3.6	15.9	58.9	9.9
567343	V	48.0 <sup>w^</sup>	11.9 <sup>w^</sup>	11.9	3.8	17.3	57.3	9.7
567345	VI	43.9	13.5	13.4	3.4	19.0	55.9	8.3
567346	V	45.2 <sup>w</sup>	13.4 <sup>w</sup>	11.8	3.1	19.8	57.4	8.0
567347	V	44.3 <sup>w</sup>	14.9 <sup>w</sup>	13.3	3.5	25.6	52.2	5.4
567349A	V	44.6	17.1	12.8	3.5	20.2	55.8	7.7
567349B	VI	46.2 <sup>w</sup>	15.4 <sup>w</sup>	11.2	4.0	19.7	58.1	7.0
567350A	VI	45.4 <sup>w</sup>	15.4 <sup>w</sup>	11.4	3.9	19.2	56.2	9.2
567350B	VI	46.9 <sup>w</sup>	14.6 <sup>w</sup>	10.7	3.4	20.6	57.5	7.8
567352C	V	43.4 <sup>w^</sup>	17.9 <sup>w^</sup>	12.3	3.3	20.1	56.5	7.8
567355A	V	43.9 <sup>w</sup>	15.9 <sup>w</sup>	12.2	3.8	23.8	53.9	6.2
567355B	V	43.2 <sup>w</sup>	17.1 <sup>w</sup>	11.8	3.8	29.2	49.0	6.1
567356	VI	47.1 <sup>w</sup>	15.5 <sup>w</sup>	12.2	2.9	19.8	56.7	8.5
567370B	V	47.9	16.5	13.2	3.6	21.4	55.8	6.1
567373B	V	44.9 <sup>w</sup>	15.6 <sup>w</sup>	12.5	3.4	20.0	56.3	7.8

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567375C	(Ba yue zha)	Shaanxi	China	China	1992	V
567375D	(Ba yue zha)	Shaanxi	China	China	1992	V
567376A	Ba yue zha	Shaanxi	China	China	1992	VI
567376B	(Ba yue zha)	Shaanxi	China	China	1992	VI
567377A	Ba yue zha	Shaanxi	China	China	1992	V
567377B	(Ba yue zha)	Shaanxi	China	China	1992	VI
567378	Ba yue zha	Shaanxi	China	China	1992	VI
567379A	Bai gun dou	Shaanxi	China	China	1992	V
567379B	(Bai gun dou)	Shaanxi	China	China	1992	V
567379C	(Bai gun dou)	Shaanxi	China	China	1992	V
567380	Bai huai dou	Shaanxi	China	China	1992	V
567381B	(Bai ke huang)	Shaanxi	China	China	1992	V
567382A	Da bai dou	Shaanxi	China	China	1992	V
567382B	(Da bai dou)	Shaanxi	China	China	1992	V
567382C	(Da bai dou)	Shaanxi	China	China	1992	V
567383	Da ke huang dou	Shaanxi	China	China	1992	V
567384	Hu pi dou	Shaanxi	China	China	1992	V
567385	Hua mao yan huang dou	Shaanxi	China	China	1992	V
567386	Huang da dou (1)	Shaanxi	China	China	1992	VI
567388	Huang huai dou	Shaanxi	China	China	1992	V
567389B	(Hui cuo dou)	Shaanxi	China	China	1992	V
567390	Ji dan pi bai dou	Shaanxi	China	China	1992	V
567391	Jiang se huang dou	Shaanxi	China	China	1992	VII
567392	Jing yang hong da dou	Shaanxi	China	China	1992	V
567393	Jiu yue han	Shaanxi	China	China	1992	VII
567394A	Jiu yue han	Shaanxi	China	China	1992	VI
567394B	(Jiu yue han)	Shaanxi	China	China	1992	VI
567394C	(Jiu yue han)	Shaanxi	China	China	1992	VI
567396C	(Lao shu pi)	Shaanxi	China	China	1992	V
567396D	(Lao shu pi)	Shaanxi	China	China	1992	V
567397	Lu huang dou	Shaanxi	China	China	1992	V
567399	Niu mao huang	Shaanxi	China	China	1992	V
567400	Niu mao huang	Shaanxi	China	China	1992	V
567401	Niu niao quan	Shaanxi	China	China	1992	V
567402	Shi yue han	Shaanxi	China	China	1992	V
567403A	Shuan huang dou	Shaanxi	China	China	1992	VII
567403B	(Shuan huang dou)	Shaanxi	China	China	1992	VII
567404B	(Wang shan hou)	Shaanxi	China	China	1992	VI
567404C	(Wang shan hou)	Shaanxi	China	China	1992	V
567404D	(Wang shan hou)	Shaanxi	China	China	1992	VII
567404E	(Wang shan hou)	Shaanxi	China	China	1992	VII
567404F	(Wang shan hou)	Shaanxi	China	China	1992	VII
567405	Wei zi dou	Shaanxi	China	China	1992	VI
567406A	Wu se da dou	Shaanxi	China	China	1992	VI
567406B	(Wu se da dou)	Shaanxi	China	China	1992	VI
567407	Xiao dou	Shaanxi	China	China	1992	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567375C	V	N	P	G	Sa	N	Dbr	D	Y	Bf	Vhil	2N
567375D	V	N	P	G	A	N	Dbr	I	Y	Bf	Vhil	2N
567376A	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
567376B	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
567377A	V	D	W	G	E	N	Tn	I	Y	Bf		2N
567377B	VI	D	W	G	E	N	Tn	I	Y	Bf	Vhil	2N
567378	VI	N	W	Lt	E	N	Bl	I	Bl	Bl		5N
567379A	V	N	P	G	A	N	Br	D	Y	Bf	Vhil	2N
567379B	V	N	W	G	E	Ssp	Bl	D	Y	Bf		2N
567379C	V	N	W	G	E	Ssp	Br	D	Y	Bf		2N
567380	V	N	W	G	E	Sdn	Tn	I	Y	Bf		4N
567381B	V	D	W	G	E	Ssp	Bl	D	Y	Bf	Vhil	2N
567382A	V	D	W	G	E	N	Tn	I	Y	Bf		3N
567382B	V	D	W	G	E	N	Br	I	Y	Bf		3N
567382C	V	D	W	G	E	N	Tn	I	Y	Bf		3N
567383	V	D	W	G	E	N	Tn	I	Y	Bf		3N
567384	V	D	P	G	E	N	Bl	I	Y	Bf		3N
567385	V	D	W	T	E	N	Br	I	Br	Br	St	2N
567386	VI	N	W	G	E	N	Tn	I	Y	Bf		4N
567388	V	N	P	T	E	N	Bl	S	Gnbr	Gnbr		4F
567389B	V	D	W	G	E	Ssp	Lbr	D	Y	Bf		2N
567390	V	D	W	G	E	N	Lbr	I	Y	Bf		2N
567391	VII	D	W	T	A	Ssp	Br	I	Br	Br	St	3N
567392	V	D	P	T	A	N	Br	I	Br	Br		3N
567393	VII	D	P	G	A	N	Bl	I	Y	Bf		4N
567394A	VI	N	P	G	E	Ssp	Bl	D	Y	Bf		3N
567394B	VI	N	W	G	E	Ssp	Bl	D	Y	Bf		2N
567394C	VI	N	P	G	Sa	Ssp	Bl	D	Y	Ib	Vhil	3N
567396C	V	D	W	G	A	N	Tn	I	Y	Bf		3N
567396D	V	N	P	G	Sa	N	Br	I	Y	Bf	Vhil	3N
567397	V	D	W	T	E	N	Tn	S	Y	Brbl		4N
567399	V	N	W	G	E	N	Bl	I	Gn	Dbf		2N
567400	V	N	W	T	E	N	Br	I	Y	Br		3N
567401	V	D	W	T	E	Ssp	Br	I	Br	Br	St	2N
567402	V	D	W	G	E	Ssp	Tn	I	Y	Bf	Vhil	2N
567403A	VII	D	W	G	A	N	Tn	D	Y	Bf		3N
567403B	VII	N	W	G	A	N	Tn	I	Y	Bf	Vhil	3N
567404B	VI	N	P	G	E	N	Tn	I	Y	Bf		3N
567404C	V	N	W	G	E	N	Br	I	Y	Bf		3N
567404D	VII	N	P	G	E	N	Br	I	Y	Bf		3N
567404E	VII	N	P	G	Sa	N	Br	I	Y	Bf		3N
567404F	VII	N	W	G	Sa	N	Br	I	Y	Bf		3N
567405	VI	D	W	Lt	E	Ssp	Tn	I	Y	Brbl		3N
567406A	VI	N	W	T	E	N	Br	D	Br	Br	St	3N
567406B	VI	S	W	T	Sa	N	Br	D	Br	Br	St	3N
567407	V	N	W	G	E	N	Tn	I	Y	Bf		4N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567375C	712	930	3.5	139	1.5	1.5	1.8	2.0	10.2	1.57
567375D	714	1003	4.0	114	1.5	2.0	1.8	2.0	10.5	1.58
567376A	718	1005	3.0*	85	2.0	3.0	2.2	2.5	8.1	1.76
567376B	717	1005	3.0*	80*	2.0	3.0	2.0	2.0	7.3	1.52
567377A	706	1003	1.5	44	1.0	1.0	1.5	1.0	9.6	0.51 <sup>^</sup>
567377B	717	1005	2.0	60	1.5	1.5	2.0	2.0	10.4*	0.97
567378	729	1005	5.0	123*	1.5	1.5	2.5	--	4.8	1.22
567379A	705	925	4.0	114	2.0	3.0	2.2	1.0	13.4	2.00
567379B	705	929	3.5	102*	2.0	3.0	2.8	2.5	12.2	1.92
567379C	705	925	3.5	122	3.0	4.0	2.0	2.0	10.6	1.72
567380	718	930	4.0	107*	1.5	2.5	2.0	3.5	6.2	1.64
567381B	715	1002	2.0	72*	1.0	1.0	2.2	3.0	14.3	1.53
567382A	707	925	1.5	46	1.0	1.0 <sup>^</sup>	1.8	1.0	9.7	1.24
567382B	705	921	1.5	70	1.5	2.5	2.0	1.0	11.6	1.91
567382C	711	929	1.5	54*	1.0	1.5	1.5	1.5	9.2	0.91
567383	715	1001	4.0	77*	1.5	2.5	2.2	2.5	17.2	2.32
567384	627	925	1.5	50	1.0	2.0	2.5	5.0	10.4	0.97
567385	629	1001	2.0	74	1.5	2.5	2.5	--	18.4	1.83
567386	719	1007	3.5	96*	1.5	2.5	2.2	1.5	7.9	1.32
567388	711	922	5.0	185	1.0	2.0	2.5	--	4.9	1.46
567389B	715	925	4.0	90	2.5	3.5	1.8	1.5	8.2	1.62
567390	706	929	1.5	53	1.0	1.0	1.5	1.0	10.5	1.25
567391	731	1016	4.0	100	1.0	2.0	2.2	--	20.9	2.56*
567392	720	930	3.0	90	1.0	2.0	1.8	--	12.2	1.26
567393	801	1015	4.0	108*	1.0	2.0	3.0	5.0	15.9	2.18
567394A	713	1008	2.5	110	1.0	2.0	3.0	5.0	9.9	1.59
567394B	715	1011	3.5	98	1.0	2.0	2.5	4.5	10.5	1.38
567394C	708	1005	3.5	112	1.0	1.5	2.2	5.0	8.6	1.76
567396C	704	1003	2.0	72	1.0	1.5	2.0	2.5	12.9	2.35
567396D	722	1003	3.0	108	1.0	2.0	2.2	2.0	14.5	2.18
567397	722	927	3.0	93	1.5	2.5	2.2	4.0	4.9	0.87 <sup>^</sup>
567399	722	930	4.0	112*	1.5	2.5	2.0	2.5	7.0	1.46
567400	719	1003	4.0	104	3.0	4.0	2.0	3.0	9.8	1.31
567401	706	930	2.5	100	1.5	1.5	2.0	--	14.7*	1.84
567402	713	930	4.0	102	1.5	1.5	2.0	1.5	9.0	1.69
567403A	722	1017*	2.0	82*	1.0	2.0	2.5	2.5	11.6	1.11
567403B	804	1023	3.0	129*	1.0	2.0 <sup>^</sup>	2.2*	2.5	15.6	0.83
567404B	723	1011	4.0	134*	1.5	2.0	2.5	1.5	11.6	1.44
567404C	717	929	3.0	119*	1.5	1.5	2.2	2.0	12.4	1.85
567404D	809	1020*	2.5	106*	1.5	1.5	2.8	2.5	11.8	1.45
567404E	805	1020*	3.5	130	1.5	1.5	2.5	2.0	12.4	1.66
567404F	719	1015	4.0	122	1.0	2.0	2.5	2.0	13.5	2.33
567405	725	1011	3.0	88	1.0	2.0	2.5	2.5	8.9	1.32
567406A	719	1008	4.0	85*	1.0	2.0	2.0	--	13.8	1.34
567406B	722	1009	3.0	100*	1.0	2.0	2.0	--	11.6	1.66
567407	720	929	4.5	94	1.5	2.5	2.2	3.5	6.1	1.34



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567375C	V	44.7	16.6	13.9	3.5	24.2	51.6	6.9
567375D	V	45.0	15.5	13.5	3.3	21.0	54.4	7.9
567376A	VI	41.3	15.5	13.1	4.0	18.0	57.2	7.8
567376B	VI	42.2	14.4	12.5	4.0	18.2	57.3	8.0
567377A	V	45.5	17.8	12.3	3.8	21.4	55.0	7.4
567377B	VI	45.9	16.4	12.1	3.8	20.4	55.4	8.2
567378	VI	42.5 <sup>w^</sup>	19.9 <sup>w^</sup>	12.2	3.0	14.4	58.5	11.9
567379A	V	46.6	16.7	13.5	3.7	25.6	50.3	6.8
567379B	V	47.9	16.8	12.1	4.0	27.1	50.7	6.1
567379C	V	45.9	16.1	14.4	3.6	23.9	51.0	7.2
567380	V	45.7	13.6	12.8	4.1	15.2	58.3	9.6
567381B	V	45.4	17.1	12.2	3.4	18.8	56.9	8.7
567382A	V	43.8	17.7	13.6	3.7	18.3	55.5	9.0
567382B	V	45.3	17.1	12.4	3.5	20.7	55.7	7.8
567382C	V	44.1	17.1	12.2	3.8	21.0	54.1	9.1
567383	V	42.7	20.4	12.0	3.7	24.1	54.6	5.6
567384	V	45.6 <sup>w</sup>	13.5 <sup>w</sup>	11.8	2.9	19.6	57.6	8.1
567385	V	45.2 <sup>w^</sup>	14.0 <sup>w^</sup>	10.8	2.9	26.0	53.2	7.1
567386	VI	47.0	14.8	12.7	3.6	20.3	53.1	10.3
567388	V	47.4 <sup>w^</sup>	12.9 <sup>w^</sup>	13.0	3.5	17.7	56.2	9.7
567389B	V	43.6	15.1	13.2	3.2	19.6	56.1	7.9
567390	V	44.1	18.0	11.9	3.7	22.3	53.6	8.5
567391	VII	43.1 <sup>w</sup>	18.5 <sup>w</sup>	12.2	3.0	19.5	57.6	7.7
567392	V	46.1 <sup>w</sup>	14.7 <sup>w</sup>	11.9	3.5	30.3	49.0	5.3
567393	VII	46.5 <sup>w</sup>	15.1 <sup>w</sup>	11.8	3.4	21.4	56.5	7.0
567394A	VI	46.2 <sup>w</sup>	15.1 <sup>w</sup>	12.5	3.5	19.0	57.4	7.5
567394B	VI	47.5 <sup>w</sup>	14.5 <sup>w</sup>	13.3	3.0	21.8	54.6	7.2
567394C	VI	47.9 <sup>w</sup>	12.9 <sup>w</sup>	12.5	3.8	18.9	56.1	8.8
567396C	V	43.3	18.0	12.8	3.1	25.5	52.6	5.9
567396D	V	48.2	15.4	13.1	3.6	21.5	54.7	7.1
567397	V	44.2 <sup>w</sup>	13.2 <sup>w</sup>	14.3	3.2	13.8	59.2	9.5
567399	V	44.8 <sup>w</sup>	14.6 <sup>w</sup>	11.5	4.0	22.6	54.9	7.1
567400	V	46.3	17.0	12.9	3.7	23.1	54.1	6.2
567401	V	42.0 <sup>w^</sup>	12.7 <sup>w^</sup>	12.3	3.1	23.1	55.1	6.4
567402	V	47.8	15.7	12.3	3.6	20.9	55.4	7.8
567403A	VII	45.0	15.9	11.2	3.3	20.2	58.0	7.2
567403B	VII	46.5	16.9	11.9	3.7	20.2	57.4	6.7
567404B	VI	44.6	16.5	12.9	4.5	24.1	51.4	7.0
567404C	V	46.3	16.0	14.0	3.6	18.4	54.9	9.1
567404D	VII	47.7	15.3	12.9	4.3	20.8	54.2	7.8
567404E	VII	45.0	16.7	12.7	4.4	24.2	51.4	7.4
567404F	VII	45.3	15.9	13.5	3.7	18.6	55.3	8.9
567405	VI	45.3	14.4	11.8	3.3	17.9	58.0	9.0
567406A	VI	43.7 <sup>w^</sup>	11.2 <sup>w^</sup>	11.8	4.6	29.0	49.4	5.3
567406B	VI	43.7 <sup>w^</sup>	12.9 <sup>w^</sup>	10.3	3.9	26.5	53.7	5.7
567407	V	44.0 <sup>w</sup>	13.6 <sup>w</sup>	14.2	4.0	15.8	56.8	9.1

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567408	Xiao jin huang	Shaanxi	China	China	1992	V
567409B	(Xiao yi wo feng)	Shaanxi	China	China	1992	V
567410A	Yang huang dou	Shaanxi	China	China	1992	VII
567410B	(Yang huang dou)	Shaanxi	China	China	1992	VII
567410C	(Yang huang dou)	Shaanxi	China	China	1992	VII
567411	Yang yan qing dou	Shaanxi	China	China	1992	V
567412	Yi wo feng	Shaanxi	China	China	1992	VI
567413	Yi wo feng	Shaanxi	China	China	1992	V
567414	Zhu ye qing	Shaanxi	China	China	1992	V
567415B	(Bai da huang dou)	Shanxi	China	China	1992	V
567439	Hong jia huang dou	Shanxi	China	China	1992	V
567441C	(Huang dou)	Shanxi	China	China	1992	V
567445C	(Huang dou)	Shanxi	China	China	1992	V
567447D	(Huang dou)	Shanxi	China	China	1992	V
567459	Ji yao huang dou	Shanxi	China	China	1992	V
567466B	(Xiao bai dou)	Shanxi	China	China	1992	V
567472	Yang ge dou	Shanxi	China	China	1992	V
567488B	(Di liu huang dou No. 2)	Hebei	China	China	1992	IV
567488C	(Di liu huang dou No. 2)	Hebei	China	China	1992	IV
567507E	(Xiao huang dou No. 2)	Hebei	China	China	1992	V
567517	Bai dou	Shandong	China	China	1992	V
567521	Bai jia	Shandong	China	China	1992	V
567553	Jin dou	Shandong	China	China	1992	V
567568B	(Ping ding huang)	Shandong	China	China	1992	V
567613	Chang yuan bai zui huang dou	Henan	China	China	1992	V
567625	Ji yuan zhu yao qi bai dou	Henan	China	China	1992	IV
567629A	Lu yi xiao zi huang	Henan	China	China	1992	V
567629B	(Lu yi xiao zi huang)	Henan	China	China	1992	V
567634	Mi yang niu mao huang	Henan	China	China	1992	V
567635	Mi yang xiao zi huang	Henan	China	China	1992	V
567650C	(Ru nan huang mao dou)	Henan	China	China	1992	IV
567650D	(Ru nan huang mao dou)	Henan	China	China	1992	V
567657	Tang he huang dou	Henan	China	China	1992	V
567660B	(Tong xu xiao zi huang)	Henan	China	China	1992	IV
567667C	(Xia yi zi hua jiao)	Henan	China	China	1992	V
567670	Xin yang liu yue bao	Henan	China	China	1992	V
567680	Zhe cheng huang dou	Henan	China	China	1992	V
567682A	Zheng zhou da zi huang	Henan	China	China	1992	V
567682B	(Zheng zhou da zi huang)	Henan	China	China	1992	V
567683B	(Zheng zhou niu yao qi)	Henan	China	China	1992	VI
567736	Dong hai bai ta me jia cao	Jiangsu	China	China	1992	V
567741	Gan yu chun dou bing	Jiangsu	China	China	1992	IV
567742B	(Gan yu hong mao you)	Jiangsu	China	China	1992	V
567744B	(Pei xian ba yue zha)	Jiangsu	China	China	1992	IV
567744C	(Pei xian ba yue zha)	Jiangsu	China	China	1992	VI
567751C	(Pei xian hong mao you)	Jiangsu	China	China	1992	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567408	V	N	W	T	E	N	Br	D	Y	Br		4N
567409B	V	N	W	G	E	N	Tn	I	Y	Bf		4N
567410A	VII	D	W	G	A	N	Tn	I	Y	Bf		3N
567410B	VII	N	W	G	E	N	Tn	D	Y	Bf		3N
567410C	VII	S	W	G	Sa	N	Tn	I	Y	Bf		3N
567411	V	N	W	T	E	N	Br	I	Br	Br	St	2N
567412	VI	D	W	G	E	N	Lbr	I	Y	Bf		3N
567413	V	S	W	G	E	N	Lbr	I	Y	Bf		3N
567414	V	D	W	G	E	Ssp	Br	D	Gn	Bf		2N
567415B	V	N	P	T	E	N	Br	D	Y	Bl		3N
567439	V	N	P	G	E	N	Br	D	Y	Bf		3N
567441C	V	D	W	G	E	N	Tn	I	Y	Bf		3N
567445C	V	N	P	T	E	N	Br	D	Y	Bl		3N
567447D	V	N	P	G	A	N	Br	I	Y	Bf	Vhil	4N
567459	V	N	P	G	A	N	Br	I	Y	Bf		5N
567466B	V	N	P	G	Sa	N	Br	D	Y	Bf	Vhil	3N
567472	V	N	W	G	E	N	Br	I	Y	Bf		3N
567488B	IV	N	W	G	E	N	Br	I	Y	Dbf		3N
567488C	IV	N	W	G	E	N	Br	I	Y	Dbf		3N
567507E	V	N	W	G	E	N	Br	S	Y	Bf		2N
567517	V	D	W	G	Sa	N	Tn	D	Y	Y		2N
567521	V	D	W	G	E	Ssp	Tn	I	Y	Bf		2N
567553	V	D	W	G	E	N	Tn	D	Y	Y		2N
567568B	V	N	W	Lt	E	N	Bl	I	Y	Br		3N
567613	V	D	W	G	E	Ssp	Br	D	Y	Bf		3N
567625	IV	D	W	G	E	Ssp	Br	I	Y	Bf		3F
567629A	V	D	W	T	A	Ssp	Tn	D	Y	Br		3N
567629B	V	D	W	T	Va	N	Tn	D	Y	Br		3N
567634	V	D	W	T	A	N	Br	I	Y	Br		3N
567635	V	D	W	T	E	N	Br	I	Y	Br		3N
567650C	IV	D	W	T	A	N	Br	I	Y	Br		3N
567650D	V	D	W	T	A	N	Br	I	Y	Br		3N
567657	V	D	W	T	E	N	Br	I	Y	Br		2N
567660B	IV	D	W	G	Sa	N	Br	I	Y	Bf		3N
567667C	V	D	P	G	A	N	Br	I	Y	Bf		3N
567670	V	D	W	T	A	N	Br	I	Y	Br		2N
567680	V	D	W	T	A	N	Br	I	Y	Br		2N
567682A	V	D	W	T	Sa	N	Br	I	Y	Br		3N
567682B	V	D	W	T	Sa	N	Br	I	Y	Br		3N
567683B	VI	N	W	T	A	N	Br	I	Y	Br		3N
567736	V	D	W	G	E	Ssp	Br	D	Y	Bf	Vhil	2N
567741	IV	N	W	T	Sa	N	Tn	I	Y	Br		3N
567742B	V	D	P	G	E	Ssp	Tn	I	Y	Ib	Vhil	3N
567744B	IV	N	P	G	A	N	Br	I	Y	Bf	Vhil	3N
567744C	VI	N	W	G	A	N	Tn	I	Y	Bf		3N
567751C	V	N	P	T	A	N	Tn	I	Y	Br		2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Shattering		Seed		Weight (cg sd <sup>-1</sup> )	Yield (Mg ha <sup>-1</sup> )
	date (mmdd)	date (mmdd)			early (score)	late (score)	Quality (score)	Mottling (score)		
567408	719	1003	4.0	96*	2.5	3.5	2.2	3.5	9.3	1.66*
567409B	718	1001	4.5	108	1.5	2.5	2.2	3.5	6.8	1.37
567410A	721	1017*	4.0	111*	3.0	4.0	2.2	2.0	14.0	1.71
567410B	722	1017	4.0	103	2.0	3.0	2.8	1.5	15.0*	2.46
567410C	722	1017	3.0	102	2.0	3.0	2.8	1.5	13.9	2.38*
567411	711	1001	4.0	118	1.5	2.5	2.0	--	13.6	1.73
567412	717	1005	4.0	91*	1.5	2.5	2.5	2.5	8.8	1.67
567413	701	929	3.5	95	1.5	2.0*	2.2	2.0*	7.9	2.00
567414	703	921	2.0	86	2.5	3.0^	2.2	1.5	12.8*	1.77
567415B	703	917	2.5	89	1.5	1.5	2.8	1.5	17.0*	2.39
567439	705	927*	4.0	100*	2.5	3.5	3.0	2.5	12.4	1.01
567441C	719	1003	3.5	84*	1.5	2.5	2.8	3.0	8.1	1.54
567445C	628	927	4.0	90*	1.5	2.5	2.8	3.5	12.5	1.45
567447D	715	1004	4.0	112*	1.5	2.0*	2.8	3.0*	12.2	1.43
567459	703	924	4.0	97*	1.5	2.0	2.8*	1.5	13.8	1.18
567466B	703	1001	4.0	132	1.0	2.0	2.2	1.5	8.9	1.79
567472	706	925	4.0	121*	2.5	3.5	2.2	1.5	15.5*	2.10
567488B	705	913	3.0*	104	2.5	3.5	2.0	2.5	12.1	2.21*
567488C	705	909	2.5	101	3.0	4.0	2.0	3.0*	13.6	2.44
567507E	710	919	4.5	148*	3.0	4.0	1.5	2.0	10.7	2.09
567517	701	921	1.5	36	1.5	1.5	1.8	2.0*	12.1	1.60
567521	706	1004	1.5	69	1.5	1.5	1.8	1.5	11.4	3.63
567553	708	929	1.5	38	1.5	1.5	2.0	2.5	12.7	2.12
567568B	706	925	5.0	246	2.5	4.0	3.0	4.0*	11.5*	1.52
567613	708	922	3.0	70	2.0	3.0	2.0	3.0*	13.2^	1.36^
567625	708	911	3.0	86	3.0	4.0	1.8	1.5	8.1	1.34*
567629A	701	921	3.0	88*	1.5	1.5	1.8	1.5	12.4	1.64
567629B	701	925	3.0	77	1.5	1.5	2.0	1.5	12.3	2.19
567634	709	925	3.5	77	2.0	3.0	2.2	3.0*	11.1*	1.98
567635	709	929*	4.0	87	1.5	2.5	2.2	3.0*	10.1	1.73
567650C	706	909	3.5	91	2.5	3.0	2.0	2.5	13.9*	2.00*
567650D	709	923*	4.0	91*	2.5	3.0^	2.2*	3.0*	12.0	2.12*
567657	709	929	4.0	88	1.5	2.0	1.8	2.0	11.7	2.35
567660B	708	913	4.0	82	3.0*	3.5	2.0	3.0	10.3	2.03
567667C	713	1001	4.0	96*	1.5	2.5	2.2*	2.0	13.7	1.71
567670	709	921	3.5	77	1.5	2.0*	2.0	2.5	11.4*	1.89
567680	709	925	3.5	82*	2.0	3.0	2.0	3.5	11.0*	1.69*
567682A	706	919	3.0	66	2.5	3.5	2.5	3.5	15.6*	1.91*
567682B	711	925	3.0	66*	2.5	3.5	2.5*	3.0	15.7*	1.49
567683B	719	1001	4.5	161*	2.5	3.5	2.5	4.0	11.8	1.72
567736	703	929	3.0	92	1.5	2.5	2.8	3.0	16.2	2.02
567741	703	907	3.0*	111	3.5	4.5	1.8	1.5	12.4	2.49
567742B	705	923	1.5	52	1.5	2.5	2.5	1.0	22.9*	1.91
567744B	706	912	4.5	105*	3.0	4.0	1.8	1.0	12.8	2.19
567744C	722	1008	5.0	154*	2.5	3.5	3.2	3.0	9.5	1.34
567751C	707	914	3.5	96*	4.0	5.0	2.5	2.5	14.5	1.82

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567408	V	45.5	17.6	12.4	3.7	23.1	54.7	6.1
567409B	V	46.0 <sup>w</sup>	14.8 <sup>w</sup>	14.1	3.5	14.4	58.1	9.9
567410A	VII	47.7	17.4	12.0	3.6	23.0	55.0	6.4
567410B	VII	46.9	16.7	12.0	3.8	18.7	58.1	7.3
567410C	VII	45.7	17.7	12.0	3.4	18.8	58.0	7.7
567411	V	48.5 <sup>w^</sup>	17.0 <sup>w^</sup>	10.9	3.3	32.6	47.8	5.4
567412	VI	42.1	15.8	12.1	3.6	20.1	56.7	7.5
567413	V	44.5	12.6	13.0	3.3	23.6	53.0	7.0
567414	V	44.8 <sup>w</sup>	20.3 <sup>w</sup>	12.5	2.9	21.0	56.3	7.2
567415B	V	41.8	20.7	12.3	3.8	24.0	53.5	6.3
567439	V	46.2	16.8	13.6	3.6	22.1	54.5	6.3
567441C	V	41.9	15.7	12.6	3.8	17.6	58.3	7.8
567445C	V	44.9 <sup>w</sup>	16.9 <sup>w</sup>	11.6	3.4	21.8	55.4	7.8
567447D	V	46.0 <sup>w</sup>	15.3 <sup>w</sup>	12.4	3.1	23.5	53.9	7.1
567459	V	44.9	14.9	12.3	3.3	23.3	54.3	6.9
567466B	V	43.9	16.0	14.0	3.7	22.8	52.9	6.6
567472	V	47.2	17.0	12.2	3.1	27.7	49.3	7.6
567488B	IV	46.3	16.9	12.2	2.7	24.0	54.1	7.0
567488C	IV	46.1 <sup>w</sup>	17.0 <sup>w</sup>	11.6	2.7	27.5	50.7	7.4
567507E	V	46.8	15.4	12.7	2.9	24.6	52.5	7.3
567517	V	46.8	15.7	12.6	2.9	19.3	57.2	8.0
567521	V	44.8	17.1	12.7	3.1	17.5	58.9	7.7
567553	V	45.7	18.6	12.4	3.1	20.5	56.9	7.1
567568B	V	46.4 <sup>w</sup>	17.8 <sup>w</sup>	12.2	3.1	19.6	56.5	8.6
567613	V	44.0 <sup>w</sup>	16.9 <sup>w</sup>	13.0	2.9	22.5	54.0	7.6
567625	IV	45.9	15.5	13.4	3.3	18.5	55.8	9.0
567629A	V	44.6	16.9	11.6	3.1	22.2	56.2	6.9
567629B	V	44.6	18.3	11.6	3.2	21.8	56.7	6.8
567634	V	43.7 <sup>w</sup>	17.2 <sup>w</sup>	12.5	3.1	21.9	54.6	8.0
567635	V	45.6 <sup>w</sup>	16.5 <sup>w</sup>	12.1	3.9	21.2	55.5	7.2
567650C	IV	42.7	19.4	11.7	2.9	27.8	52.7	4.9
567650D	V	42.6 <sup>w</sup>	18.4 <sup>w</sup>	13.0	2.9	24.9	53.2	6.1
567657	V	42.8	19.6	11.5	3.6	22.0	56.3	6.6
567660B	IV	40.7	18.7	14.3	3.2	22.5	53.3	6.8
567667C	V	42.7	19.6	11.8	3.4	23.2	55.3	6.2
567670	V	45.8	15.9	12.7	3.3	25.7	51.4	6.9
567680	V	46.1 <sup>w</sup>	15.7 <sup>w</sup>	12.6	3.1	21.8	54.7	7.9
567682A	V	44.8 <sup>w</sup>	17.7 <sup>w</sup>	11.1	2.9	23.2	55.3	7.6
567682B	V	44.4	18.5	11.2	2.9	23.5	56.1	6.3
567683B	VI	42.4 <sup>w</sup>	18.5 <sup>w</sup>	12.8	3.2	20.4	57.1	6.6
567736	V	46.6	16.0	14.0	3.2	21.2	53.9	7.7
567741	IV	44.0	18.6	11.7	3.1	30.7	48.7	5.8
567742B	V	41.7	18.5	12.0	2.9	28.8	50.5	5.8
567744B	IV	46.7	17.2	11.3	2.7	27.6	52.2	6.2
567744C	VI	46.4	16.6	12.5	3.5	31.9	43.8	8.4
567751C	V	48.5	17.0	12.3	3.1	30.6	47.7	6.3

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
567755C	(Pei xian ping ding huang yi)	Jiangsu	China	China	1992	V
567759	Pei xian xiao bai jian ke	Jiangsu	China	China	1992	V
567763	Pei xian xiao you dou	Jiangsu	China	China	1992	V
567764	Sui ning da qing dou yi	Jiangsu	China	China	1992	V
567766	Sui ning jian ding chun da qing dou	Jiangsu	China	China	1992	V
567779C	(Tong shan xiao hong mao)	Jiangsu	China	China	1992	V
572265A	GL2497/Orig.	unknown	Georgia	Germany	1993	V
572265B	(GL2497/Orig.)	unknown	Georgia	Germany	1993	V
572265C	(GL2497/Orig.)	unknown	Georgia	Germany	1993	V
574476C	(Fen dou 16)	Shanxi	China	China	1992	V
578305A		Jumla	Nepal	Nepal	1990	VIII
578305B		Jumla	Nepal	Nepal	1990	VI
578306A		Jumla	Nepal	Nepal	1990	VI
578306B		Jumla	Nepal	Nepal	1990	VII
578307A		Jumla	Nepal	Nepal	1990	VI
578307B		Jumla	Nepal	Nepal	1990	VIII
578307C		Jumla	Nepal	Nepal	1990	VII
578308A		Jumla	Nepal	Nepal	1990	VI
578308B		Jumla	Nepal	Nepal	1990	VI
578309	I-64	Jumla	Nepal	Italy	1990	VI
578311A		Kuala Chaur	Nepal	Nepal	1990	VI
578311B		Kuala Chaur	Nepal	Nepal	1990	VII
578311C		Kuala Chaur	Nepal	Nepal	1990	VI
578312	I-98	Garjonkot	Nepal	Italy	1990	VII
578313A		Garjonkot	Nepal	Nepal	1990	VIII
578313B		Garjonkot	Nepal	Nepal	1990	VI
578314	I-837	Ghorahi	Nepal	Italy	1990	VII
578315A		Lankhua	Nepal	Nepal	1990	VIII
578315B		Lankhua	Nepal	Nepal	1990	VIII
578316A		Lankhua	Nepal	Nepal	1990	VIII
578316B		Lankhua	Nepal	Nepal	1990	VIII
578316C		Lankhua	Nepal	Nepal	1990	VIII
578317	2130c	Lankhua	Nepal	Italy	1990	VII
578318A		unknown	Nepal	Nepal	1990	VI
578318B		unknown	Nepal	Nepal	1990	VIII
578318D		unknown	Nepal	Nepal	1990	VIII
578318E		unknown	Nepal	Nepal	1990	VII
578319A		unknown	Nepal	Nepal	1990	VI
578319B		unknown	Nepal	Nepal	1990	VIII
578319C		unknown	Nepal	Nepal	1990	VIII
578319D		unknown	Nepal	Nepal	1990	VIII
578319E		unknown	Nepal	Nepal	1990	VII
578319F		unknown	Nepal	Nepal	1990	VII
578320	2188b	unknown	Nepal	Italy	1990	VIII
578321	2225	Bayarbas	Nepal	Italy	1990	VIII
578323A	8055a	unknown	Nepal	Nepal	1990	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
567755C	V	N	Dp	G	A	N	Lbr	I	Y	Ib		2N
567759	V	N	W	G	A	Sp	Tn	S	Y	Bf		2N
567763	V	N	W	G	A	Sp	Tn	I	Y	Bf	Sdef	3N
567764	V	D	P	G	Sa	Ssp	Br	I	Gn	Bf	Vhil	2N
567766	V	D	P	G	A	Ssp	Br	I	Gn	Ib	Vhil	2N
567779C	V	N	P	G	A	N	Tn	D	Y	Bf	Vhil	2N
572265A	V	D	P	Lt	Sa	Ssp	Br	I	Y	Bl		2N
572265B	V	D	P	Lt	E	Ssp	Br	D	Y	Bl		2N
572265C	V	D	W	Lt	E	Ssp	Br	D	Y	Bl		3N
574476C	V	N	P	G	E	N	Br	I	Y	Bf	Vhil	5N
578305A	VIII	N	P	T	Sa	N	Tn	I	Bl	Bl	Snet, Lft4,5	4F
578305B	VI	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4N
578306A	VI	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4N
578306B	VII	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4F
578307A	VI	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4N
578307B	VIII	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4N
578307C	VII	N	P	T	Sa	N	Tn	I	Bl	Bl	Flk	5F
578308A	VI	N	P	T	E	N	Br	I	Y	Br		4N
578308B	VI	N	P	T	Sa	N	Tn	I	Bl	Bl	Flk	4N
578309	VI	N	P	T	Sa	N	Tn	I	Bl	Bl	Flk	4N
578311A	VI	N	P	T	E	N	Br	I	Bl	Bl	Flk	4N
578311B	VII	N	P	T	Sa	N	Tn	I	Bl	Bl	Flk	4F
578311C	VI	N	P	T	Sa	N	Tn	I	Y	Br		4N
578312	VII	N	W	T	E	N	Br	I	Bl	Bl	Flk	4N
578313A	VIII	N	P	T	E	N	Tn	I	Bl	Bl		4N
578313B	VI	N	P	T	Sa	N	Br	I	Bl	Bl		4N
578314	VII	N	W	T	A	N	Br	I	Br	Br		3N
578315A	VIII	N	W	T	A	N	Br	I	Br	Br	Snet	3N
578315B	VIII	N	W	T	A	N	Br	I	Br	Br	Snet, Lft5	3N
578316A	VIII	N	P	T	Sa	N	Br	I	Bl	Bl	Flk, Lft4,5	4F
578316B	VIII	N	P	T	Sa	N	Br	I	Bl	Bl		3N
578316C	VIII	N	W	T	A	N	Br	I	Bl	Bl	Lft4	3N
578317	VII	D	P	T	A	N	Tn	I	Y	Br		2N
578318A	VI	N	P	T	Sa	N	Br	I	Bl	Bl		4N
578318B	VIII	N	P	T	E	N	Br	I	Bl	Bl	Lft4,5	4F
578318D	VIII	N	P	T	Sa	N	Br	I	Bl	Bl	Flk, Lft4	4N
578318E	VII	N	P	T	Sa	N	Br	I	Bl	Bl	Flk	4N
578319A	VI	N	P	T	Sa	N	Tn	I	Y	Br		4N
578319B	VIII	N	P	T	E	N	Br	I	Bl	Bl	Lft4,5	4F
578319C	VIII	N	W	T	E	N	Br	I	Br	Br		2N
578319D	VIII	N	P	T	Sa	N	Br	I	Br	Br	Lft5	4F
578319E	VII	N	W	T	A	N	Br	I	Br	Br	Lft5	3N
578319F	VII	N	W	T	A	N	Br	I	Br	Br	Lft5	3N
578320	VIII	N	W	T	A	N	Br	I	Br	Br		3N
578321	VIII	N	W	T	A	N	Br	I	Br	Br	Snet, Lft5	3N
578323A	VII	N	P	T	E	N	Tn	I	Bl	Bl	Flk	4F

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
567755C	709	917	4.0	101	2.5*	2.5*	1.8	1.0	17.3	2.49*
567759	709	915	4.5	107*	4.0	5.0	2.0	3.0	6.8	1.57
567763	712	924	4.5	126	2.0*	2.0^	2.5	3.0	9.6	0.99
567764	707	924	2.5	66	1.5	2.5	2.2	1.5	28.9*	2.21
567766	705	920	1.5	68	1.5	2.5	2.5	1.5	25.2	2.06
567779C	706	914	3.0	106	1.5	3.0*	1.5	1.0	16.6	2.79
572265A	709	918	4.5	100	2.0	3.5	2.8	3.0	14.1	2.32
572265B	706	917	1.5	51	1.5	2.0*	2.2*	3.0*	18.1*	2.56
572265C	707	919	1.5	57	1.0	1.5	2.8	2.5	19.2	2.93
574476C	703	920	3.0	134*	1.0	1.5	2.2	1.0	10.1	2.27*
578305A	813	1104	4.5	96	1.0	2.0	2.5	--	7.0	0.29
578305B	729	1011	5.0	143	2.0	3.0	2.2	--	4.7	0.17
578306A	729	1013	5.0	126*	3.0	3.5	2.5	--	5.1	0.16
578306B	813	1018*	5.0	198*	2.0	3.0	2.5	--	5.8	1.09^
578307A	726	1013	5.0	98*	3.0	4.0	2.5	--	7.6*	0.28
578307B	806	1024*	5.0	191*	3.0	3.0^	2.0^	--	4.9	0.13^
578307C	812	1021^	5.0	140	1.0	1.5	2.5	--	7.7	1.06^
578308A	804	1003	5.0	105*	2.5	3.0	2.2	5.0	5.5	0.45
578308B	727	1013	5.0	118*	2.5	3.0	2.5	--	5.3	0.35
578309	726	1014	5.0	119*	1.5	1.5	2.5	--	5.2	0.29
578311A	730	1014	5.0	116*	2.5	2.5	2.5	--	6.5	0.25
578311B	808	1021^	3.0	119	2.0	2.0*	2.8*	--	7.1	0.45^
578311C	811	1010	5.0	118*	2.5	3.0	2.5	5.0	6.7	0.66*
578312	804	1020	5.0	171*	1.0	2.0	2.0^	--	4.7^	0.35^
578313A	808	1102*	5.0	151*	2.0	3.0	2.2	--	5.1	0.17
578313B	730	1014	5.0	152*	1.5	1.5	2.5	--	6.5*	0.52
578314	812	1020	4.0	107	1.0	1.5	2.0	--	14.7	1.87*
578315A	808	1021	3.0	129	1.0	2.0	2.2	--	15.9	1.81
578315B	815	1020	3.0	132*	1.0	2.0	2.5	--	12.8	1.02*
578316A	804	1020	4.0	102*	2.0	3.0	2.8	--	6.6	0.69^
578316B	816	1021	4.0	143	1.5	1.5	3.0^	--	11.8	0.57
578316C	816	1025*	3.5	119*	1.5	1.5	2.8	--	11.8	0.88
578317	805	1014	3.0	88*	1.0	1.5	2.2	2.0	14.2	2.79
578318A	726	1013	5.0	166*	2.5	2.5	2.5	--	6.0	0.41
578318B	808	1031	5.0	106	1.5	1.5	2.8	--	7.0	0.65^
578318D	804	1024	5.0	149*	1.5	2.0	2.8	--	7.5	0.38
578318E	805	1019	5.0	106*	1.5	2.0	2.8	--	7.8	0.43
578319A	806	1010	5.0	121*	1.5	2.0	2.8	4.5	5.9	0.66
578319B	815^	1104^	4.0^	140^	2.0^	3.0^	2.0^	--	6.4^	0.59^
578319C	816	1031	3.5	140	1.5	2.0*	2.5	--	10.3	0.81
578319D	811^	1105^	5.0^	92^	1.0^	1.0^	-	--	7.4^	0.02^
578319E	812	1020	3.0	124*	2.0	3.0^	2.0	--	14.1	0.90*
578319F	812	1019	3.0	134*	2.0	3.0	2.5	--	14.5	1.07*
578320	812	1020	2.5	103	1.0	1.5	2.0	--	16.1	1.46
578321	814	1031	3.0	132	1.5	2.0	2.2*	--	16.1	1.15
578323A	726	1015	5.0	138*	2.5	3.0	2.8	--	5.7	0.73



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
567755C	V	44.1	18.1	12.4	3.0	24.6	53.5	6.5
567759	V	43.9	15.8	13.7	3.5	21.7	52.7	8.4
567763	V	44.5	16.3	12.8	3.1	24.0	51.8	8.3
567764	V	44.4 <sup>w</sup>	18.9 <sup>w</sup>	11.0	2.9	27.2	52.5	6.3
567766	V	43.4 <sup>w</sup>	19.2 <sup>w</sup>	11.2	3.1	26.9	52.7	6.1
567779C	V	45.8	16.3	12.7	3.0	22.4	54.5	7.4
572265A	V	48.6	16.8	12.4	3.1	26.4	51.3	6.9
572265B	V	45.1 <sup>w</sup>	18.2 <sup>w</sup>	12.4	3.2	21.5	56.1	6.9
572265C	V	44.9	17.5	12.2	2.8	19.5	57.5	7.9
574476C	V	44.5	14.7	13.1	3.5	17.9	58.0	7.5
578305A	VIII	45.7 <sup>w^</sup>	14.9 <sup>w^</sup>	10.6	2.7	21.6	54.6	10.4
578305B	VI	46.7 <sup>w^</sup>	16.4 <sup>w^</sup>	10.3	4.0	24.7	53.3	7.7
578306A	VI	42.9 <sup>w^</sup>	15.0 <sup>w^</sup>	10.5	3.3	21.2	56.4	8.6
578306B	VII	47.4 <sup>w^</sup>	15.5 <sup>w^</sup>	11.0	3.2	16.7	58.5	10.6
578307A	VI	45.5 <sup>w^</sup>	15.5 <sup>w^</sup>	10.7	3.3	22.5	54.8	8.7
578307B	VIII	-	-	10.1 <sup>^</sup>	3.7 <sup>^</sup>	21.0 <sup>^</sup>	56.1 <sup>^</sup>	9.1 <sup>^</sup>
578307C	VII	54.3 <sup>w^</sup>	11.6 <sup>w^</sup>	11.0	3.6	17.5	57.1	10.7
578308A	VI	47.4 <sup>w</sup>	14.6 <sup>w</sup>	12.1	3.8	24.5	50.6	9.1
578308B	VI	42.1 <sup>w^</sup>	17.9 <sup>w^</sup>	10.7	3.6	22.4	54.5	8.8
578309	VI	42.8 <sup>w^</sup>	18.1 <sup>w^</sup>	10.5	3.6	23.2	54.3	8.4
578311A	VI	46.1 <sup>w^</sup>	16.0 <sup>w^</sup>	11.0	3.8	23.5	53.2	8.4
578311B	VII	-	-	11.1 <sup>^</sup>	3.5 <sup>^</sup>	18.9 <sup>^</sup>	56.5 <sup>^</sup>	10.0 <sup>^</sup>
578311C	VI	46.1 <sup>w</sup>	15.5 <sup>w</sup>	11.0	4.0	23.5	53.5	8.0
578312	VII	-	-	9.8 <sup>^</sup>	3.8 <sup>^</sup>	24.6 <sup>^</sup>	53.6 <sup>^</sup>	8.2 <sup>^</sup>
578313A	VIII	-	-	10.5 <sup>^</sup>	3.7 <sup>^</sup>	20.4 <sup>^</sup>	56.3 <sup>^</sup>	9.0 <sup>^</sup>
578313B	VI	45.1 <sup>w^</sup>	10.4 <sup>w^</sup>	11.4	4.3	21.6	54.5	8.1
578314	VII	46.2 <sup>w</sup>	14.7 <sup>w</sup>	11.9	2.8	20.1	57.8	7.3
578315A	VIII	44.8 <sup>w</sup>	17.8 <sup>w</sup>	11.9	3.1	20.2	57.7	7.1
578315B	VIII	43.7 <sup>w^</sup>	17.3 <sup>w^</sup>	11.2	3.2	19.7	58.1	7.8
578316A	VIII	-	-	11.1 <sup>^</sup>	3.3 <sup>^</sup>	16.4 <sup>^</sup>	60.7 <sup>^</sup>	8.5 <sup>^</sup>
578316B	VIII	-	-	10.8 <sup>^</sup>	3.2 <sup>^</sup>	21.4 <sup>^</sup>	56.2 <sup>^</sup>	8.4 <sup>^</sup>
578316C	VIII	48.5 <sup>w^</sup>	15.1 <sup>w^</sup>	10.4	3.2	21.3	56.2	8.9
578317	VII	47.3	16.1	12.1	3.8	24.6	53.6	5.9
578318A	VI	44.5 <sup>w^</sup>	13.9 <sup>w^</sup>	10.3	3.7	23.1	54.2	8.7
578318B	VIII	-	-	10.5 <sup>^</sup>	3.1 <sup>^</sup>	18.2 <sup>^</sup>	58.3 <sup>^</sup>	9.9 <sup>^</sup>
578318D	VIII	47.2 <sup>w^</sup>	15.1 <sup>w^</sup>	12.0	3.5	17.1	59.3	8.0
578318E	VII	50.1 <sup>w^</sup>	15.0 <sup>w^</sup>	11.7	3.2	16.9	60.1	8.0
578319A	VI	44.8 <sup>w</sup>	16.3 <sup>w</sup>	10.4	4.0	25.3	52.3	8.0
578319B	VIII	-	-	10.6 <sup>^</sup>	3.4 <sup>^</sup>	19.8 <sup>^</sup>	55.9 <sup>^</sup>	10.3 <sup>^</sup>
578319C	VIII	48.8 <sup>w</sup>	15.5 <sup>w</sup>	9.7	3.3	20.9	57.3	8.8
578319D	VIII	-	-	11.2 <sup>^</sup>	3.5 <sup>^</sup>	17.5 <sup>^</sup>	59.2 <sup>^</sup>	8.6 <sup>^</sup>
578319E	VII	46.6 <sup>w</sup>	15.6 <sup>w</sup>	11.0	3.3	21.4	57.5	6.7
578319F	VII	44.5 <sup>w^</sup>	15.8 <sup>w^</sup>	11.0	3.0	19.0	58.9	8.2
578320	VIII	47.4 <sup>w</sup>	16.2 <sup>w</sup>	11.9	3.2	21.2	56.5	7.3
578321	VIII	47.4 <sup>w</sup>	16.3 <sup>w</sup>	12.4	3.1	19.0	57.0	8.6
578323A	VII	43.1 <sup>w^</sup>	14.4 <sup>w^</sup>	10.5	3.7	19.9	56.5	9.5

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
578323B	(8055a)	unknown	Nepal	Nepal	1990	VI
578324A		unknown	Nepal	Nepal	1990	VIII
578324B		unknown	Nepal	Nepal	1990	VIII
578324C		unknown	Nepal	Nepal	1990	VII
578324D		unknown	Nepal	Nepal	1990	VIII
578324E		unknown	Nepal	Nepal	1990	VIII
578324F		unknown	Nepal	Nepal	1990	VII
578324G		unknown	Nepal	Nepal	1990	VIII
578324H		unknown	Nepal	Nepal	1990	VII
578325	8006a	unknown	Nepal	Italy	1990	VIII
578326	8006b	unknown	Nepal	Italy	1990	VI
578328A	Dona Flor 58	unknown	Argentina	Argentina	1993	VI
578328B	(Dona Flor 58)	unknown	Argentina	Argentina	1993	VI
578328C	(Dona Flor 58)	unknown	Argentina	Argentina	1993	VI
578329A	OFPEC Cordobesa	unknown	Argentina	Argentina	1993	V
578329B	(OFPEC Cordobesa)	unknown	Argentina	Argentina	1993	V
578329C	(OFPEC Cordobesa)	unknown	Argentina	Argentina	1993	VI
578330	OFPEC Nortena	unknown	Argentina	Argentina	1993	VIII
578331	OFPEC Rendidora 627	unknown	Argentina	Argentina	1993	VII
578332A	OFPEC Rendidora 801	unknown	Argentina	Argentina	1993	VII
578332B	(OFPEC Rendidora 801)	unknown	Argentina	Argentina	1993	VII
578332C	(OFPEC Rendidora 801)	unknown	Argentina	Argentina	1993	VII
578333	OFPEC Rendidora Juan Fe	unknown	Argentina	Argentina	1993	VII
578334	OFPEC Vencedora	unknown	Argentina	Argentina	1993	VI
578335A	Perla 25	unknown	Argentina	Argentina	1993	V
578335B	(Perla 25)	unknown	Argentina	Argentina	1993	V
578358	Guan yun da hei dou	unknown	China	China	1992	V
578359	Guan yun da hong dou	unknown	China	China	1992	V
578437A	Cao qua dia hoa tim	(north)	Vietnam	Vietnam	1993	V
578437B	(Cao qua dia hoa tim)	(north)	Vietnam	Vietnam	1993	VIII
578438	Chi thao te den	(north)	Vietnam	Vietnam	1993	V
578441	DH 4 nau	Can Tho	Vietnam	Vietnam	1993	V
578442	DH 4 xanh	Can Tho	Vietnam	Vietnam	1993	VII
578443	Da bo bong tim	Dong Thap	Vietnam	Vietnam	1993	VIII
578444A	Da trau bong tim	Dong Thap	Vietnam	Vietnam	1993	VIII
578444B	(Da trau bong tim)	Dong Thap	Vietnam	Vietnam	1993	VIII
578446A	Da trang bo vang	Dong Thap	Vietnam	Vietnam	1993	VIII
578446B	(Da trang bo vang)	Dong Thap	Vietnam	Vietnam	1993	V
578448	Dau ghep	Cuu Long	Vietnam	Vietnam	1993	VII
578450	Den dong xuan	(north)	Vietnam	Vietnam	1993	VIII
578451	Den trung quoc	(north)	Vietnam	Vietnam	1993	IV
578452	Hau giang 1	Can Tho	Vietnam	Vietnam	1993	VIII
578453	Hau giang 2	Can Tho	Vietnam	Vietnam	1993	VIII
578454	Hong ngu	Dong Thap	Vietnam	Vietnam	1993	VIII
578455A	Mat hong long khanh	Dong Nai	Vietnam	Vietnam	1993	VIII
578455B	(Mat hong long khanh)	Dong Nai	Vietnam	Vietnam	1993	VIII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
578323B	VI	N	P	T	E	N	Br	I	Bl	Bl	Flk	4F
578324A	VIII	N	W	T	E	N	Br	I	Br	Br	Snet, Lft5	3N
578324B	VIII	N	W	T	E	N	Br	I	Bl	Bl	Lft5	4N
578324C	VII	N	P	T	A	N	Lbr	I	Br	Br	Lft5	4N
578324D	VIII	N	W	T	A	N	Br	I	Br	Br	Lft5	3N
578324E	VIII	N	W	T	E	N	Br	I	Br	Br	Lft5	3N
578324F	VII	N	W	T	A	N	Br	I	Br	Br	Lft5	3N
578324G	VIII	N	W	T	A	N	Br	I	Br	Br	Lft5	3N
578324H	VII	N	W	T	A	N	Br	I	Br	Br	Snet, Lft5	3N
578325	VIII	N	P	T	Sa	N	Lbr	I	Bl	Bl	Lft5	3F
578326	VI	N	P	T	Sa	N	Tn	I	Y	Br		4N
578328A	VI	N	P	G	Sa	N	Tn	I	Y	Bf		3N
578328B	VI	D	P	G	A	N	Tn	I	Y	Bf	Vhil	2N
578328C	VI	D	P	G	E	N	Tn	I	Y	Bf	Vhil	2N
578329A	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	1N
578329B	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
578329C	VI	D	W	G	Sa	N	Tn	I	Y	Bf	Vhil	2N
578330	VIII	N	P	G	E	Sdn	Tn	I	Y	Bf		2N
578331	VII	D	W	T	Sa	N	Tn	I	Y	Bl		2N
578332A	VII	D	P	T	E	N	Tn	I	Y	Bl		2N
578332B	VII	D	W	T	Sa	N	Tn	I	Y	Brbl		2N
578332C	VII	D	W	G	E	N	Tn	I	Y	Bf	Vhil	2N
578333	VII	D	W	T	E	N	Tn	I	Y	Br		2N
578334	VI	D	P	G	E	N	Tn	I	Y	Ib		2N
578335A	V	N	P	G	E	N	Lbr	D	Y	Ib	Vhil	2N
578335B	V	N	P	G	E	N	Lbr	D	Y	Ib	Vhil	2N
578358	V	D	P	T	A	N	Br	I	Bl	Bl	Def	3N
578359	V	D	P	T	A	N	Br	I	Rbr	Rbr		3N
578437A	V	D	P	T	A	N	Br	I	Y	Bl		3N
578437B	VIII	D	P	T	Sa	N	Br	I	Y	Brbl		3N
578438	V	D	P	Lt	A	N	Br	I	Y	Brbl	Vhil	3N
578441	V	N	P	T	A	N	Lbr	I	Br	Br	Def	2N
578442	VII	N	P	T	A	N	Tn	I	Lgn	Brbl	Vhil	3N
578443	VIII	N	P	G	A	N	Tn	I	Y	Dbf		3N
578444A	VIII	N	P	G	Sa	N	Lbr	I	Y	Bf	Vhil	3N
578444B	VIII	N	P	G	A	N	Lbr	I	Y	Dbf		3N
578446A	VIII	N	P	G	A	N	Tn	I	Y	Bf		4N
578446B	V	N	P	T	Sa	N	Br	I	Y	Bl		3N
578448	VII	N	P	T	A	N	Tn	I	Y	Brbl		3N
578450	VIII	N	P	T	A	N	Br	I	Bl	Bl		4N
578451	IV	D	P	T	A	Ssp	Tn	I	Bl	Bl	Sdef	3N
578452	VIII	N	P	Lt	E	N	Br	I	G	Bl		3N
578453	VIII	N	W	T	E	N	Tn	I	Y	Brbl	Vhil	3N
578454	VIII	N	W	G	Sa	N	Br	I	Y	Bf		3N
578455A	VIII	N	P	G	A	N	Br	I	Y	Bf		3N
578455B	VIII	N	W	G	A	N	Br	I	Y	Bf		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
578323B	727	1011	5.0	102*	2.5	3.0	2.5	--	4.7	0.41
578324A	816	1031	3.0	148*	1.5	1.5	2.5	--	15.2	1.06*
578324B	824	1109*	4.0	133*	1.0	1.0	2.8	--	11.0	0.30
578324C	731	1019	4.0	131	1.5	2.0^	2.2	--	11.3	1.02
578324D	816	1031	3.0	133	1.5	1.5	2.5	--	13.9	0.66
578324E	816	1031	3.5	147	1.5	1.5	2.8	--	16.7	0.95*
578324F	810	1019	3.0	120	1.0	1.0	2.8	--	16.9	1.42
578324G	816	1102	3.5	125	1.5	1.5	2.8	--	17.0	0.90*
578324H	812	1019	2.5	98	1.5	2.0*	2.8	--	15.7	0.98
578325	815	1029	4.0	106	2.0	3.0^	2.8	--	7.2	0.34
578326	802	1005	5.0	126*	2.5	3.0	2.5	4.5	7.0	0.72
578328A	718	1009	4.0	110	2.0	2.5	2.5	2.0	13.3	2.54
578328B	715	1005	3.0	87	2.0	2.5	1.8	1.0	14.6	3.92
578328C	715	1005	3.0	129*	2.0	2.5	1.5	1.0	14.9	3.45
578329A	713	929	1.0	84	1.0	1.5	2.0	1.0	11.3	3.09
578329B	715	928	1.0	78*	1.0	1.5	1.8	1.0	12.5	3.07
578329C	717	1002	1.0	100	1.0	2.5	1.8	1.0	12.2	2.63
578330	810	1021	3.0	136	1.0	1.5	2.2*	2.0	14.6	2.28*
578331	713	1020	3.0	115*	1.0	1.5	2.2	2.0	14.8	3.05
578332A	801	1020	3.0	116	1.0	1.5	2.5	2.5	14.9	2.31
578332B	731	1021	4.0	116	1.0	1.5	2.2	1.5	14.6	2.65*
578332C	804	1020	3.0	147*	1.0	1.5	1.8	1.0	10.3	2.95*
578333	723	1015	3.0	117*	1.0	1.5	2.5	3.0	12.7	2.63*
578334	714	1010	2.0	83	1.0	2.0	2.5	1.0	14.9	2.58
578335A	706	929	4.0	126	1.0	1.0	2.8	1.5	15.9	3.00*
578335B	705	925	3.5	120*	1.0	1.0	2.8	2.0*	15.3	3.23
578358	709	925	3.5	97	1.5	2.5	3.0	--	23.5	2.78
578359	709	915	4.5	90	3.5	4.5	2.5	--	22.3	2.92
578437A	711	920	3.0	94	3.0	4.5	2.5	2.5	22.0*	2.31
578437B	805	1021	4.0	97*	1.0	2.0	3.2	4.0	17.9	1.21*
578438	713	921	3.5	84	3.0*	4.0*	2.2	2.5	10.8	1.40
578441	714	920	3.0	110	2.5	3.5	2.8	--	17.8	2.57*
578442	731	1018	3.0	136*	1.0	2.0	2.8	4.5	17.1	2.05*
578443	820	1104*	4.0	154*	1.5	2.5	2.5	3.0*	13.9	0.74*
578444A	828	1104*	4.0	153*	1.0	1.0	2.8	3.5	12.7	0.66*
578444B	824	1105*	4.0	143*	1.0	1.5	2.8	4.0	11.1	0.72*
578446A	813	1104*	4.0	157	1.0	1.5	2.8	3.5	13.2	0.65
578446B	724	929	4.0	145*	1.5	2.0	3.0	4.5	11.3	1.15*
578448	812	1017	4.0	118	3.0	4.0	2.8	3.5	15.5	1.56*
578450	822	1029	4.0	137	1.0	2.0	2.8	--	7.3	0.33
578451	709	909	4.0*	78	4.0	5.0	2.5	--	9.8*	1.75*
578452	816	1108*	4.0	119*	2.0	3.0^	3.0	4.0*	8.3	0.58
578453	818	1106*	4.0	152*	1.0	2.0	2.5	3.0	10.8	0.56
578454	802	1020	4.0	109*	1.5	1.5	2.2	2.5	12.9	1.40*
578455A	820	1110	4.0	160	1.5	1.5	2.5	3.0	13.0	0.66
578455B	826	1110	4.0	144	1.5	2.0	2.8	3.5	12.1	0.73*

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
578323B	VI	46.4 <sup>w^</sup>	16.4 <sup>w^</sup>	10.6	3.9	20.1	56.3	9.2
578324A	VIII	47.8 <sup>w</sup>	15.3 <sup>w</sup>	12.1	3.0	18.4	58.1	8.4
578324B	VIII	46.5 <sup>w^</sup>	16.3 <sup>w^</sup>	10.6	3.4	21.5	55.7	8.8
578324C	VII	44.6 <sup>w^</sup>	16.7 <sup>w^</sup>	10.2	3.2	25.2	57.3	4.1
578324D	VIII	47.3 <sup>w^</sup>	15.9 <sup>w^</sup>	10.7	2.6	21.5	56.8	8.4
578324E	VIII	48.3 <sup>w</sup>	16.3 <sup>w</sup>	12.0	2.7	17.9	58.4	8.9
578324F	VII	47.1 <sup>w</sup>	16.1 <sup>w</sup>	11.8	3.1	21.0	56.9	7.3
578324G	VIII	47.2 <sup>w</sup>	16.5 <sup>w</sup>	11.7	2.9	19.2	57.8	8.4
578324H	VII	45.0 <sup>w^</sup>	15.6 <sup>w^</sup>	11.2	3.1	24.9	53.3	7.5
578325	VIII	47.0 <sup>w^</sup>	17.6 <sup>w^</sup>	10.5	2.8	17.8	58.6	10.3
578326	VI	46.5 <sup>w</sup>	14.5 <sup>w</sup>	10.4	3.9	22.3	54.6	8.7
578328A	VI	43.3	18.5	12.9	3.3	20.4	56.3	7.1
578328B	VI	40.9	19.7	12.7	3.5	18.1	58.0	7.6
578328C	VI	41.1	19.4	12.4	3.7	20.0	56.1	7.9
578329A	V	41.6	19.7	13.1	3.7	17.7	57.9	7.5
578329B	V	41.3	19.6	12.9	3.5	17.5	57.9	8.3
578329C	VI	43.0	20.3	12.0	4.5	20.4	56.0	7.1
578330	VIII	42.8	17.7	11.6	3.6	20.9	57.1	6.8
578331	VII	43.6	19.0	12.3	3.8	20.3	56.5	7.1
578332A	VII	45.6	17.9	12.8	4.2	20.5	56.0	6.5
578332B	VII	43.9	18.2	12.3	3.9	18.5	58.2	7.1
578332C	VII	39.7	19.4	13.2	3.5	17.8	58.6	6.9
578333	VII	41.3	19.1	11.6	3.9	17.8	59.1	7.6
578334	VI	40.5	19.6	11.2	3.9	19.8	57.5	7.6
578335A	V	42.2	19.4	12.1	3.9	22.5	55.4	6.2
578335B	V	44.3	20.2	12.0	3.5	21.8	56.5	6.3
578358	V	50.4 <sup>w^</sup>	14.7 <sup>w^</sup>	11.0	3.0	23.2	56.2	6.6
578359	V	48.7 <sup>w^</sup>	14.3 <sup>w^</sup>	10.4	2.5	28.1	53.0	6.0
578437A	V	45.7	17.2	13.0	3.1	24.2	52.9	6.9
578437B	VIII	46.4 <sup>w</sup>	17.7 <sup>w</sup>	12.7	3.2	22.3	54.8	7.1
578438	V	45.8	15.9	12.2	3.4	26.8	50.8	6.9
578441	V	44.1 <sup>w</sup>	16.8 <sup>w</sup>	12.8	3.1	25.9	50.4	7.8
578442	VII	46.2 <sup>w</sup>	17.0 <sup>w</sup>	12.1	3.3	22.0	54.8	7.7
578443	VIII	45.9	14.8	11.5	4.1	23.8	53.5	7.1
578444A	VIII	49.7	14.3	11.7	4.3	23.0	53.8	7.2
578444B	VIII	49.0 <sup>w</sup>	14.9 <sup>w</sup>	11.0	3.3	21.5	54.1	10.1
578446A	VIII	48.1	14.3	11.4	3.4	24.1	53.5	7.6
578446B	V	45.6 <sup>w</sup>	16.2 <sup>w</sup>	12.7	4.3	33.5	42.2	7.3
578448	VII	43.8	16.5	12.3	4.2	28.6	48.4	6.4
578450	VIII	-	-	10.4 <sup>^</sup>	5.3 <sup>^</sup>	26.7 <sup>^</sup>	50.3 <sup>^</sup>	7.3 <sup>^</sup>
578451	IV	47.1 <sup>w^</sup>	15.6 <sup>w^</sup>	10.5	4.1	40.6	37.8	7.0
578452	VIII	-	-	11.0 <sup>^</sup>	3.6 <sup>^</sup>	23.4 <sup>^</sup>	53.8 <sup>^</sup>	8.2 <sup>^</sup>
578453	VIII	49.4	12.3	12.1	3.6	19.2	56.2	8.9
578454	VIII	45.1	16.9	12.6	3.8	22.4	54.6	6.6
578455A	VIII	46.4	14.6	11.8	4.1	24.5	52.6	7.0
578455B	VIII	47.8 <sup>w</sup>	14.8 <sup>w</sup>	11.7	2.9	22.5	53.7	9.1

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
578457A	May den	An Giang	Vietnam	Vietnam	1993	VIII
578457B	(May den)	An Giang	Vietnam	Vietnam	1993	VIII
578459	Nau tua chua	(north)	Vietnam	Vietnam	1993	VII
578460	Ngoc dong	(north)	Vietnam	Vietnam	1993	VIII
578461	Phi hai	(north)	Vietnam	Vietnam	1993	V
578463	Phuc hoa	(north)	Vietnam	Vietnam	1993	VIII
578467	Baimongjie 2(I)	unknown	China	China	1993	VI
578470	Dabingchin	unknown	China	China	1993	VII
578471A	XU89-2	unknown	China	China	1993	VI
578471B	(XU89-2)	unknown	China	China	1993	VI
578471C	(XU89-2)	unknown	China	China	1993	VI
578472	Tai Lake Black	unknown	China	China	1993	VI
578473C	(Tai Lake Yellow)	unknown	China	China	1993	V
578473D	(Tai Lake Yellow)	unknown	China	China	1993	VIII
578475	Mao bon qing	unknown	China	China	1993	VII
578476	Huai 80-h33	unknown	China	China	1993	IV
578478B	(Huai 823)	unknown	China	China	1993	V
578480	Huai 849	unknown	China	China	1993	V
578484	Hou zi mao	unknown	China	China	1993	V
578485B	(Sui dao huang)	unknown	China	China	1993	VI
578488A	Feng xian sui dao huang	Jiangsu	China	China	1994	V
578488B	(Feng xian sui dao huang)	Jiangsu	China	China	1994	V
578491A	Hua xian da lu dou	Henan	China	China	1994	V
578491B	(Hua xian da lu dou)	Henan	China	China	1994	V
578498B	(Ju xuan 23)	Shandong	China	China	1994	V
587550A	Nan jing da dai dou yi	Jiangsu	China	China	1994	VII
587550B	(Nan jing da dai dou yi)	Jiangsu	China	China	1994	VI
587550C	(Nan jing da dai dou yi)	Jiangsu	China	China	1994	VI
587552	Nan jing da ping ding huang yi No. 1	Jiangsu	China	China	1994	VII
587553A	Nan jing da ping ding huang yi No. 2	Jiangsu	China	China	1994	VII
587553B	(Nan jing da ping ding huang yi No. 2)	Jiangsu	China	China	1994	VII
587554	Chun hua No. 5	Jiangsu	China	China	1994	VI
587555A	Jiang ning lao shu pi yi	Jiangsu	China	China	1994	VI
587555B	(Jiang ning lao shu pi yi)	Jiangsu	China	China	1994	VII
587556A	Jiang ning ai jiao huang	Jiangsu	China	China	1994	VII
587556B	(Jiang ning ai jiao huang)	Jiangsu	China	China	1994	VII
587557A	Li shui zhong zi huang do yi	Jiangsu	China	China	1994	VII
587557B	(Li shui zhong zi huang do yi)	Jiangsu	China	China	1994	VI
587557C	(Li shui zhong zi huang do yi)	Jiangsu	China	China	1994	VII
587558A	Ju rong ziao zi huang	Jiangsu	China	China	1994	VI
587558B	(Ju rong ziao zi huang)	Jiangsu	China	China	1994	VI
587558C	(Ju rong ziao zi huang)	Jiangsu	China	China	1994	VI
587559A	Dan tu he shang tou jia	Jiangsu	China	China	1994	VII
587559B	(Dan tu he shang tou jia)	Jiangsu	China	China	1994	VI
587560A	Dan tu ba yue bai jia	Jiangsu	China	China	1994	VII
587560B	(Dan tu ba yue bai jia)	Jiangsu	China	China	1994	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
578457A	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
578457B	VIII	N	P	T	A	N	Br	I	Y	Brbl		3N
578459	VII	D	W	T	A	N	Br	I	Br	Br		4N
578460	VIII	D	P	T	A	N	Tn	I	Y	Brbl		3N
578461	V	D	P	T	A	N	Br	I	Y	Br		2N
578463	VIII	N	P	T	A	N	Tn	I	Y	Brbl		3N
578467	VI	D	W	G	A	N	Tn	I	Y	Bf		3N
578470	VII	N	P	T	A	N	Br	I	Lgn	Brbl		5F
578471A	VI	D	W	T	A	N	Br	D	Y	Br		3N
578471B	VI	D	P	G	A	N	Br	I	Y	Ib	Vhil	3N
578471C	VI	D	W	G	A	N	Br	I	Y	Bf	Vhil	3N
578472	VI	N	P	T	A	N	Br	I	Bl	Bl		4N
578473C	V	D	P	Lt	A	Ssp	Tn	I	Y	Y	Vhil	3N
578473D	VIII	N	W	T	A	N	Br	I	Y	Brbl		3N
578475	VII	N	W	T	A	N	Tn	I	Lgn	Brbl		3N
578476	IV	D	P	G	A	Ssp	Tn	I	Y	Y	Sdef, Vhil	2N
578478B	V	S	W	G	Sa	Ssp	Br	I	Y	Y		2N
578480	V	D	P	G	A	Ssp	Tn	I	Y	Bf	Vhil	2N
578484	V	D	W	T	A	N	Br	I	Gn	Br		3N
578485B	VI	D	P	T	A	N	Tn	I	Y	Bl		3N
578488A	V	D	W	G	A	Ssp	Tn	I	Y	Bf		3N
578488B	V	D	P	T	A	N	Tn	I	Y	Bl		3N
578491A	V	D	P	Lt	A	Ssp	Br	D	Y	Br	Def	3N
578491B	V	D	P	Lt	A	Ssp	Br	I	Y	Br	Def	3N
578498B	V	D	W	G	E	Ssp	Br	I	Y	Bf		3N
587550A	VII	D	W	G	Sa	Ssp	Tn	I	Y	Bf		2N
587550B	VI	D	P	G	A	Ssp	Tn	I	Y	Bf	Vhil	2N
587550C	VI	D	P	G	A	N	Tn	I	Y	Bf		3N
587552	VII	D	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587553A	VII	D	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587553B	VII	D	P	T	A	N	Tn	I	Y	Brbl		2N
587554	VI	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	3N
587555A	VI	D	W	T	A	N	Tn	I	Y	Brbl		3N
587555B	VII	N	W	G	A	N	Br	I	Y	Bf		3N
587556A	VII	N	W	G	A	N	Tn	I	Y	Bf		2N
587556B	VII	N	P	T	A	Ssp	Tn	I	Y	Br		3N
587557A	VII	N	P	G	A	Ssp	Br	I	Y	Bf		3N
587557B	VI	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587557C	VII	S	P	T	A	N	Tn	I	Y	Br		3N
587558A	VI	D	P	T	Va	N	Tn	I	Y	Brbl		2N
587558B	VI	D	P	T	Va	N	Tn	I	Y	Brbl		3N
587558C	VI	N	P	T	Va	N	Tn	I	Y	Brbl	Vhil	3N
587559A	VII	N	P	T	A	N	Tn	I	Y	Bl		2N
587559B	VI	N	P	T	A	Ssp	Tn	I	Y	Brbl		2N
587560A	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		2N
587560B	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
578457A	813	1104*	4.0	155	1.5	2.5	2.5	3.5	11.9	1.11*
578457B	810	1031*	4.0	137	1.5	2.5	3.0	3.0	12.9*	0.81
578459	723	1015	3.0	79	2.0	3.0	2.2	--	13.9	1.69*
578460	814	1104*	5.0	182*	1.5	2.5	3.0	3.0	12.9	0.34
578461	713	920	3.0	84	2.0*	3.0*	2.2	3.0	9.4	1.45
578463	816	1024	5.0	146	1.0	1.5	2.8	4.0	10.4	0.61
578467	717	1003	3.0	100*	2.5	3.5	3.0	2.0	30.6	1.41
578470	730	1019	4.0	136	1.0	1.5	3.0	1.5	28.1	1.79
578471A	717	1007	4.0	121	1.5	2.0	2.0	1.5	14.8*	2.90
578471B	727	1009	3.0	94*	3.0	4.0	2.0	1.0	17.1	2.88
578471C	725	1009	3.0	93*	3.0	4.5	1.5	1.0	15.3	2.86
578472	721	1005	3.0	100	2.0	2.5	2.8	--	25.5	2.28
578473C	629	915	1.5	58	3.0*	4.5	2.2	1.5	22.4	1.69
578473D	723	1020	3.0	144	2.0	3.0	2.5	2.0	22.8	1.90
578475	725	1019	3.0	139	1.0	2.0	2.5	3.0	26.0	2.20
578476	629	913	1.5	54	3.0*	4.5	2.0	1.5	18.9*	1.88
578478B	627	920	3.0	123*	1.5	2.5	2.2	3.5	17.3*	2.52
578480	703	919	1.5	58	2.5	4.0	1.8*	1.0	21.1	2.31
578484	717	927	3.5	90*	2.0	3.0	2.8	1.5	14.9	2.56
578485B	715	1001	3.0	86*	2.5	3.0	2.8*	3.0	19.0	1.98
578488A	719	1001	2.0	86	1.0	2.0	2.2	1.5	16.4*	2.29
578488B	719	929	3.0	99*	2.5	4.5	3.0	3.0	18.6*	2.33
578491A	709	919	3.0	95*	1.5	2.5	3.0	2.0	27.7*	2.07
578491B	713	1004	2.5	82	1.0	1.5	3.0	2.5	26.8*	0.96^
578498B	703	920	3.0	88	2.5*	3.0^	2.0	1.5	13.2*	1.96
587550A	803	1021	3.0	104	2.0	3.5	2.2*	1.5	18.6	1.87*
587550B	802	1012	3.5	108	2.0	3.0	2.0	1.0	15.0	2.59*
587550C	729	1009	3.0	89	3.0	4.0	2.2	1.5	15.5	2.73
587552	804	1015	3.0	122	3.0	4.0	2.8	3.0	18.1*	1.83*
587553A	804	1017	3.0	145*	1.5	2.0^	2.2	3.0	17.8	1.41*
587553B	804	1018	3.0	123	2.0	2.5	2.2	3.0	17.8	1.41*
587554	804	1012	3.0	108	2.0	3.5	3.0	3.0	16.5	1.91*
587555A	804	1014	4.0	136*	2.5	3.0	3.0	2.5	16.0	1.61
587555B	807^	1020^	1.0^	118^	1.0^	2.0^	2.5^	3.0^	17.2^	1.93^
587556A	802	1016	4.0	132	2.5	3.5	2.2	2.0	16.0	2.05
587556B	810	1017	3.5	96	2.5	3.5	2.2	3.0	18.7	1.62*
587557A	810	1017	3.0	143	1.0	2.0	2.0	1.5	14.0	2.16*
587557B	721	1009	3.0	85	2.0	3.0	2.5	2.5	17.5	2.59*
587557C	801	1015	2.0	142*	2.0	3.0	2.8	3.5	21.0	1.25
587558A	801	1006	3.0	86	2.0	3.0	2.2*	2.5	12.8	2.01
587558B	727	1008	3.0	77	3.0	4.0	2.2	3.0	15.2	2.09
587558C	804	1013	3.0	110	3.0	4.0	2.5*	3.0	13.3	1.65
587559A	804	1015	4.0	102	3.5	4.0	2.5	2.0	14.8	2.04*
587559B	803	1012	5.0	130*	2.0	3.0	2.5	1.5	18.4	2.25*
587560A	802	1014	5.0	118*	3.0	4.0	2.8	1.5	18.9	1.85*
587560B	802	1015	5.0	124*	3.0	4.0	2.8	2.0*	19.8	2.13*



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
578457A	VIII	48.2	15.0	11.7	4.6	25.5	51.9	6.4
578457B	VIII	45.8	15.5	11.8	4.6	27.0	49.8	6.7
578459	VII	49.3 <sup>w</sup>	14.7 <sup>w</sup>	11.2	2.9	22.2	56.8	6.9
578460	VIII	48.8	14.4	11.9	3.9	23.6	53.2	7.4
578461	V	47.3	15.2	12.6	3.5	22.1	54.5	7.3
578463	VIII	49.5 <sup>w</sup>	15.2 <sup>w</sup>	12.4	4.1	18.4	56.3	8.9
578467	VI	46.7	17.2	12.1	3.3	22.8	54.4	7.3
578470	VII	46.5 <sup>w^</sup>	16.6 <sup>w^</sup>	10.7 <sup>^</sup>	3.9 <sup>^</sup>	23.9 <sup>^</sup>	54.6 <sup>^</sup>	6.9 <sup>^</sup>
578471A	VI	44.1	16.4	13.1	3.1	20.1	56.2	7.6
578471B	VI	42.8	17.8	13.3	3.6	18.6	57.2	7.2
578471C	VI	44.1	17.2	13.6	3.1	20.7	55.5	7.2
578472	VI	45.4 <sup>w^</sup>	14.2 <sup>w^</sup>	11.8	3.3	25.9	52.9	6.1
578473C	V	43.9	17.8	12.6	2.5	26.4	52.0	6.5
578473D	VIII	46.0	16.7	11.9	3.3	22.2	55.8	6.8
578475	VII	45.9 <sup>w</sup>	17.3 <sup>w</sup>	10.5	3.5	25.5	53.3	7.1
578476	IV	44.2	16.7	12.8	2.4	27.7	51.6	5.6
578478B	V	45.4 <sup>w</sup>	16.9 <sup>w</sup>	13.1	3.7	19.8	55.9	7.5
578480	V	43.2	18.1	12.0	2.6	27.9	51.2	6.2
578484	V	43.7 <sup>w</sup>	15.2 <sup>w</sup>	12.1	3.1	26.0	51.7	7.2
578485B	VI	46.0	16.8	13.1	3.0	24.5	52.4	7.1
578488A	V	45.3	17.7	12.5	3.0	29.7	49.1	5.6
578488B	V	45.9	17.3	13.1	3.2	24.6	52.2	6.9
578491A	V	45.8 <sup>w</sup>	17.3 <sup>w</sup>	12.6	3.1	27.7	50.6	6.0
578491B	V	45.0	17.6	12.4	2.7	24.4	53.6	6.9
578498B	V	46.7	16.1	13.4	3.4	20.5	55.7	7.0
587550A	VII	44.6	17.1	13.0	4.1	23.2	53.6	6.1
587550B	VI	47.5	16.2	13.5	3.6	22.1	53.8	7.0
587550C	VI	45.6	17.0	14.4	4.4	21.0	53.5	6.7
587552	VII	45.3	16.5	13.1	3.7	20.1	55.1	7.9
587553A	VII	45.6	15.7	13.2	2.7	20.4	55.5	8.2
587553B	VII	46.0	17.7	12.5	2.8	21.8	55.8	7.2
587554	VI	44.9	17.0	13.3	3.6	21.6	54.2	7.3
587555A	VI	44.8	17.5	12.1	3.5	24.8	53.4	6.2
587555B	VII	43.6 <sup>^</sup>	18.7 <sup>^</sup>	11.8 <sup>^</sup>	3.9 <sup>^</sup>	22.4 <sup>^</sup>	55.0 <sup>^</sup>	7.0 <sup>^</sup>
587556A	VII	43.6	18.9	11.7	3.2	24.0	54.2	6.9
587556B	VII	45.3	16.7	12.7	3.1	21.9	54.9	7.5
587557A	VII	45.2	17.0	12.1	4.0	22.4	54.0	7.4
587557B	VI	43.1	17.6	12.9	3.2	22.0	55.4	6.5
587557C	VII	44.8 <sup>w</sup>	17.0 <sup>w</sup>	11.4	3.1	21.7	56.2	7.7
587558A	VI	43.7	17.8	11.5	3.2	24.4	52.5	8.4
587558B	VI	44.9	16.9	11.8	3.2	22.0	55.8	7.3
587558C	VI	46.3	17.5	11.1	3.4	23.2	54.9	7.4
587559A	VII	47.2	16.6	10.9	3.3	20.7	56.9	8.2
587559B	VI	42.4	18.3	12.3	3.6	22.9	54.2	7.1
587560A	VII	42.2	17.7	11.3	3.4	26.7	52.3	6.3
587560B	VII	42.9	17.1	11.7	3.5	25.4	53.0	6.4

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587560C	(Dan tu ba yue bai jia)	Jiangsu	China	China	1994	VII
587561	Dan tu ba yue bai yi	Jiangsu	China	China	1994	V
587562	Dan tu er huang pao	Jiangsu	China	China	1994	VII
587563A	Dan yang huang xiang dou yi	Jiangsu	China	China	1994	VII
587563B	(Dan yang huang xiang dou yi)	Jiangsu	China	China	1994	VI
587563C	(Dan yang huang xiang dou yi)	Jiangsu	China	China	1994	VII
587564A	Dan yang san san er	Jiangsu	China	China	1994	VI
587564B	(Dan yang san san er)	Jiangsu	China	China	1994	VI
587564C	(Dan yang san san er)	Jiangsu	China	China	1994	VII
587565A	Dan yang da zi xi dou jia	Jiangsu	China	China	1994	VII
587565B	(Dan yang da zi xi dou jia)	Jiangsu	China	China	1994	VII
587565C	(Dan yang da zi xi dou jia)	Jiangsu	China	China	1994	VII
587566A	Jin tan bai guo dou yi	Jiangsu	China	China	1994	VI
587566B	(Jin tan bai guo dou yi)	Jiangsu	China	China	1994	VII
587567A	Li yang su huang dou yi	Jiangsu	China	China	1994	VII
587567B	(Li yang su huang dou yi)	Jiangsu	China	China	1994	VII
587567C	(Li yang su huang dou yi)	Jiangsu	China	China	1994	VIII
587568A	Li yang xiao zi da dou	Jiangsu	China	China	1994	VII
587568B	(Li yang xiao zi da dou)	Jiangsu	China	China	1994	VII
587569	Li yang xiao zi huang	Jiangsu	China	China	1994	VI
587570A	Li yang dan yang zao No. 1	Jiangsu	China	China	1994	VI
587570B	(Li yang dan yang zao No. 1)	Jiangsu	China	China	1994	VI
587571	Li yang zao shi ri	Jiangsu	China	China	1994	VI
587572A	Yi xing zhong ji huang dou yi	Jiangsu	China	China	1994	VI
587572B	(Yi xing zhong ji huang dou yi)	Jiangsu	China	China	1994	VI
587573A	Yi xing zhong zi dou yi	Jiangsu	China	China	1994	VII
587573B	(Yi xing zhong zi dou yi)	Jiangsu	China	China	1994	VII
587574A	Wu jin bai hua dou	Jiangsu	China	China	1994	VII
587574B	(Wu jin bai hua dou)	Jiangsu	China	China	1994	VI
587575A	Sha zhou jie jie si	Jiangsu	China	China	1994	IV
587575B	(Sha zhou jie jie si)	Jiangsu	China	China	1994	V
587575C	(Sha zhou jie jie si)	Jiangsu	China	China	1994	VII
587577A	Wu jiang wu yue niu mao huang	Jiangsu	China	China	1994	V
587577B	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577C	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577D	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577E	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577F	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577G	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	V
587577H	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	VI
587577I	(Wu jiang wu yue niu mao huang)	Jiangsu	China	China	1994	VI
587578	Wu jiang ji tou zi	Jiangsu	China	China	1994	VII
587579A	Wu jiang wan shu dou	Jiangsu	China	China	1994	VI
587579B	(Wu jiang wan shu dou)	Jiangsu	China	China	1994	VII
587579C	(Wu jiang wan shu dou)	Jiangsu	China	China	1994	VI
587580A	Wu jiang dou fu dou No. 2	Jiangsu	China	China	1994	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587560C	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587561	V	D	W	G	Va	Ssp	Br	I	Y	Bf	Vhil	3N
587562	VII	D	P	G	A	N	Tn	I	Y	Bf	Lft5	3N
587563A	VII	D	W	Lt	Sa	N	Tn	I	Y	Bl		2N
587563B	VI	D	W	T	Sa	Ssp	Tn	I	Y	Bl		3N
587563C	VII	D	W	G	Sa	N	Tn	I	Y	Bf		3N
587564A	VI	D	P	Lt	A	Ssp	Br	I	Y	Brbl		3N
587564B	VI	D	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587564C	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587565A	VII	D	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587565B	VII	N	P	T	A	N	Tn	I	Y	Bl	Sdef	2N
587565C	VII	N	W	T	A	Ssp	Tn	I	Y	Br		2N
587566A	VI	N	P	G	A	N	Br	I	Y	Bf		2N
587566B	VII	D	P	T	A	N	Br	I	Y	Br		3N
587567A	VII	N	P	T	A	Ssp	Tn	I	Y	Br		3N
587567B	VII	N	W	T	A	N	Tn	I	Y	Blbr	Vhil	2N
587567C	VIII	N	W	T	A	N	Tn	I	Y	Brbl		2N
587568A	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587568B	VII	N	W	T	A	N	Br	I	Y	Br		3N
587569	VI	D	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587570A	VI	N	W	T	A	Ssp	Tn	I	Y	Brbl		2N
587570B	VI	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587571	VI	D	W	T	A	N	Tn	I	Y	Brbl		2N
587572A	VI	D	P	T	A	Ssp	Tn	I	Y	Br		2N
587572B	VI	D	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
587573A	VII	D	P	T	A	Ssp	Br	I	Y	Br		3N
587573B	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587574A	VII	D	W	T	A	N	Tn	I	Y	Brbl		2N
587574B	VI	D	P	T	A	N	Tn	I	Y	Brbl		2N
587575A	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
587575B	V	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587575C	VII	D	P	G	Sa	Ssp	Tn	I	Y	Ib		3R
587577A	V	S	W	G	A	N	Tn	I	Y	Bf	Def	3N
587577B	V	D	W	G	A	N	Tn	I	Y	Bf	Def, Vhil	3N
587577C	V	D	W	G	A	N	Tn	I	Y	Bf	Def, Vhil	2N
587577D	V	D	W	T	A	N	Br	I	Y	Brbl		3N
587577E	V	D	W	T	A	N	Br	I	Y	Brbl	Lft4	3N
587577F	V	D	W	G	A	N	Br	S	Y	Bf	Def, Vhil	3N
587577G	V	D	W	T	A	N	Br	I	Y	Brbl		3N
587577H	VI	D	W	G	A	N	Tn	I	Y	Bf	Def	3N
587577I	VI	D	W	G	Sa	N	Tn	I	Y	Bf		3N
587578	VII	N	P	G	A	N	Br	I	Y	Bf		3N
587579A	VI	N	P	T	A	Ssp	Tn	I	Y	Br		3N
587579B	VII	N	W	T	A	Ssp	Br	I	Y	Br		3N
587579C	VI	D	W	G	A	Ssp	Tn	I	Y	Bf		2R
587580A	VII	D	P	T	A	N	Tn	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587560C	803	1015	4.0	128*	3.0	4.0	2.8	1.5	19.1	2.11
587561	706	927*	2.5	61	3.5	5.0	2.5*	1.5	17.0	1.39*
587562	806	1015	4.0	112	2.5	3.0	2.5	3.0	14.8	1.85
587563A	722	1014	3.0	100	1.0	2.0	2.2	2.0	15.2	3.07*
587563B	723	1011	3.0	99	1.5	2.5	2.8	3.0	19.1	2.84*
587563C	725	1023	1.0	111	1.0	1.5	2.2	2.0	17.3	2.60*
587564A	730	1009	4.0	117	2.5	3.0	2.5	3.5	16.8	2.22
587564B	729	1009	4.0	93	2.5	3.0	2.2	4.0	14.8	2.24
587564C	812	1017	4.0	117	3.0	4.0	2.5	3.0	15.4	1.52*
587565A	727	1016	2.0	87	2.0	3.0	2.0	1.5	17.2	2.55
587565B	802	1017	4.0	127	3.0	4.5	3.2	2.0	22.0	1.75*
587565C	727	1017	4.0	134*	3.0	4.0	2.8	3.0	19.3	2.23*
587566A	727	1007	3.5	111*	3.0	4.0	2.0	1.0	18.1	1.97
587566B	730	1017	4.0	85	2.0	2.5	1.8	2.5	14.2	2.43*
587567A	818	1013	4.0	126*	3.5	4.5	2.8*	3.0	18.4*	2.04*
587567B	725	1023	3.0	85	2.5	3.5	2.8	2.0	27.5	2.04*
587567C	723	1023	3.0	86	2.5	3.5	2.5	2.0	27.2	2.12
587568A	812	1016	4.5	155*	3.5	4.5	2.5	4.0*	13.8	1.55*
587568B	816	1018	4.5	172*	3.0	4.0 <sup>^</sup>	2.8*	2.5	15.1	0.93*
587569	802	1011	3.0	91*	3.0	4.5	2.2	3.0*	14.8	2.18
587570A	721	1009	4.0	128*	2.5	3.0	1.8	1.0	19.1*	2.54
587570B	726	1013	4.0	102	3.5	3.5	2.0	2.0	16.4	2.61
587571	725	1007	3.0	96	2.0	3.0	2.8	2.0	20.7	2.48
587572A	804	1011	3.0	114	2.5	3.0	2.2	3.5	14.1	2.24*
587572B	725	1010	3.0	84	2.5	3.0	1.8*	2.0*	15.4*	2.47*
587573A	806	1015	4.0	130*	2.0*	2.0	1.8	2.0	12.2	2.63*
587573B	812	1017	3.0	128*	2.0	3.0	2.0	2.0	13.4	2.21
587574A	802	1015	3.0	105	2.0	3.0	2.5	3.0*	16.4	2.56
587574B	731	1010	3.0	80*	2.0	3.0	2.5	3.0	16.4	1.85
587575A	708	913	2.0	81	3.0	5.0	2.8	1.5	21.9*	1.83
587575B	709	915	2.5	84	3.0	5.0	2.2*	1.5	22.3*	1.90*
587575C	725	1013	2.0	84	3.0	4.0	2.2*	2.0*	20.6	2.09*
587577A	708	919	1.5	87*	2.5	4.0*	2.5	1.5	14.2	2.37
587577B	710	927	2.5	88	1.0	1.0	2.0	1.0	15.4	3.52
587577C	714	929	2.5	102	1.0	1.5	2.5	1.0	13.1	2.67
587577D	708	922	2.5	92	1.0	2.5	1.8	1.5	14.8	2.90
587577E	711	928	3.0	99	1.0	2.5	2.5	1.5	16.4	2.63
587577F	717	930	3.0	105	2.0*	3.0*	2.2*	1.5	13.9	2.82
587577G	719	923	2.5	98	1.0	2.0	2.2	2.0	18.3*	2.46
587577H	721	1007*	2.0	86	1.5	2.0	2.5*	2.5	14.4	1.67*
587577I	726	1013	3.0	130*	1.0	1.5	1.8	1.0	12.8	2.19
587578	727	1014	3.0	124	3.0	4.0	2.2	1.0	26.0	2.62
587579A	802	1011	4.0	99*	1.0	2.5	2.2	2.5	16.7*	1.86*
587579B	803	1017	4.0	133*	3.0	4.0	2.5	3.5	18.4	1.20
587579C	731	1011	3.5	88*	2.5	4.0	2.2	1.5	24.7	2.17
587580A	725	1013	3.0	126*	3.0	4.0	2.5	1.0	18.6	2.11

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587560C	VII	42.9	17.6	11.2	3.5	25.8	53.0	6.6
587561	V	44.9	16.2	13.3	2.7	21.3	55.3	7.4
587562	VII	45.8	16.4	11.9	3.5	22.5	55.1	6.9
587563A	VII	42.0	19.7	12.8	3.8	22.4	54.6	6.4
587563B	VI	44.0	18.6	12.3	3.9	22.5	55.6	5.7
587563C	VII	43.2	18.9	12.9	3.7	20.9	56.8	5.8
587564A	VI	45.5	17.1	11.6	3.7	21.9	55.2	7.6
587564B	VI	44.6 <sup>w</sup>	17.9 <sup>w</sup>	11.4	3.9	21.5	55.5	7.6
587564C	VII	47.1	15.2	12.5	3.7	22.4	54.7	6.7
587565A	VII	44.4	18.5	12.6	3.6	24.6	53.5	5.6
587565B	VII	46.4	16.7	12.3	3.7	24.3	54.3	5.4
587565C	VII	45.6	17.1	12.9	4.0	26.2	51.8	5.0
587566A	VI	45.5	17.2	11.5	3.9	27.2	51.1	6.1
587566B	VII	43.6	17.8	12.3	3.6	20.8	56.2	7.1
587567A	VII	47.6	16.7	12.6	3.5	27.2	51.5	5.2
587567B	VII	44.8	18.6	12.9	3.2	21.2	56.1	6.6
587567C	VIII	44.8	18.6	12.1 <sup>^</sup>	3.7 <sup>^</sup>	20.5 <sup>^</sup>	56.1 <sup>^</sup>	7.6 <sup>^</sup>
587568A	VII	47.0 <sup>w</sup>	14.6 <sup>w</sup>	10.5	3.1	19.2	58.2	9.1
587568B	VII	48.4 <sup>^</sup>	14.0 <sup>^</sup>	14.0 <sup>^</sup>	4.7 <sup>^</sup>	25.0 <sup>^</sup>	50.2 <sup>^</sup>	6.0 <sup>^</sup>
587569	VI	46.6 <sup>w</sup>	15.1 <sup>w</sup>	11.4	3.6	21.7	55.7	7.7
587570A	VI	43.6	17.9	13.1	3.4	24.0	51.6	7.9
587570B	VI	44.0	18.9	12.1	3.4	21.1	55.2	8.2
587571	VI	44.4	18.4	13.1	3.3	24.7	51.0	7.9
587572A	VI	45.8	17.3	11.4	3.5	23.0	54.4	7.7
587572B	VI	43.0	17.7	12.4	3.2	19.1	57.9	7.5
587573A	VII	46.7	16.4	11.8	3.5	23.4	53.6	7.7
587573B	VII	47.7	15.1	12.8	3.5	23.0	54.0	6.8
587574A	VII	45.8 <sup>w</sup>	15.7 <sup>w</sup>	10.3	3.7	25.7	53.8	6.6
587574B	VI	47.5	16.8	11.1	4.4	27.5	52.1	4.9
587575A	IV	46.7	18.4	11.6	3.4	23.5	55.6	5.9
587575B	V	46.9	17.2	12.2	3.4	28.0	51.1	5.3
587575C	VII	43.9	17.1	12.7	3.2	26.3	52.3	5.5
587577A	V	45.7	16.6	12.0	3.4	24.3	52.8	7.5
587577B	V	45.1	17.0	12.6	3.7	26.7	50.2	6.9
587577C	V	48.6	14.7	13.5	3.7	22.5	52.3	8.0
587577D	V	44.9	18.2	12.8	3.5	24.8	52.9	5.9
587577E	V	45.3	18.2	12.9	3.8	25.4	52.0	5.9
587577F	V	44.8	16.9	12.9	4.0	26.0	50.6	6.6
587577G	V	43.2	18.2	12.9	3.6	29.2	48.4	5.9
587577H	VI	44.0	17.6	12.0	3.9	25.2	52.1	6.7
587577I	VI	45.7	16.5	13.6	4.1	26.5	48.6	7.1
587578	VII	46.8	17.5	12.4	3.6	25.6	52.5	5.9
587579A	VI	44.3	17.1	11.1	3.2	20.3	57.2	8.2
587579B	VII	45.9 <sup>w</sup>	16.1 <sup>w</sup>	11.6	3.4	22.4	55.6	7.0
587579C	VI	44.8	17.7	12.6	3.5	20.8	56.0	7.1
587580A	VII	46.8	16.4	13.9	3.5	21.2	54.1	7.2

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587581	Tai cang huang mao dou jia	Jiangsu	China	China	1994	VI
587582	Jiang pu huang da dou jia	Jiangsu	China	China	1994	VI
587583A	Jiang pu huang da dou yi	Jiangsu	China	China	1994	VII
587583B	(Jiang pu huang da dou yi)	Jiangsu	China	China	1994	VI
587583D	(Jiang pu huang da dou yi)	Jiangsu	China	China	1994	VII
587584	Yi zheng da li huang dou	Jiangsu	China	China	1994	VI
587585A	Kan jiang qiu dao huang jia	Jiangsu	China	China	1994	V
587585B	(Kan jiang qiu dao huang jia)	Jiangsu	China	China	1994	V
587585C	(Kan jiang qiu dao huang jia)	Jiangsu	China	China	1994	V
587585D	(Kan jiang qiu dao huang jia)	Jiangsu	China	China	1994	V
587586	Yang zhou huang ke	Jiangsu	China	China	1994	VI
587587A	Tai xian you dou	Jiangsu	China	China	1994	VIII
587587B	(Tai xian you dou)	Jiangsu	China	China	1994	VIII
587588A	Tai xing niu mao huang yi	Jiangsu	China	China	1994	IV
587588B	(Tai xing niu mao huang yi)	Jiangsu	China	China	1994	V
587589	Tai xing guo yi No. 1	Jiangsu	China	China	1994	V
587590	Tai xing da li wan	Jiangsu	China	China	1994	VII
587591	Tai xing han lu huang dou No. 1	Jiangsu	China	China	1994	VI
587592A	Tai xing ba yue huang No. 2	Jiangsu	China	China	1994	VII
587592B	(Tai xing ba yue huang No. 2)	Jiangsu	China	China	1994	VII
587593	Xing hua mao jia dou yi	Jiangsu	China	China	1994	VI
587594	Bao ying deng xi feng bing	Jiangsu	China	China	1994	VII
587595A	Bao ying deng xi feng ding	Jiangsu	China	China	1994	VI
587595B	(Bao ying deng xi feng ding)	Jiangsu	China	China	1994	VI
587595C	(Bao ying deng xi feng ding)	Jiangsu	China	China	1994	VI
587596A	Hai an wu zui dou jia No. 2	Jiangsu	China	China	1994	VI
587596B	(Hai an wu zui dou jia No. 2)	Jiangsu	China	China	1994	VII
587596C	(Hai an wu zui dou jia No. 2)	Jiangsu	China	China	1994	VIII
587597A	Hai an ci yu dou No. 1	Jiangsu	China	China	1994	VI
587597B	(Hai an ci yu dou No. 1)	Jiangsu	China	China	1994	VI
587597C	(Hai an ci yu dou No. 1)	Jiangsu	China	China	1994	VIII
587598A	Ru gao xiao mang dou er	Jiangsu	China	China	1994	V
587598B	(Ru gao xiao mang dou er)	Jiangsu	China	China	1994	VI
587599	Ru gao ci yu tou er bing	Jiangsu	China	China	1994	VIII
587600A	Ru gao xiao huang dou	Jiangsu	China	China	1994	IV
587600B	(Ru gao xiao huang dou)	Jiangsu	China	China	1994	V
587600C	(Ru gao xiao huang dou)	Jiangsu	China	China	1994	V
587601A	Ru gao ba yue bai jia	Jiangsu	China	China	1994	VI
587601B	(Ru gao ba yue bai jia)	Jiangsu	China	China	1994	VI
587601C	(Ru gao ba yue bai jia)	Jiangsu	China	China	1994	VI
587601D	(Ru gao ba yue bai jia)	Jiangsu	China	China	1994	VI
587601E	(Ru gao ba yue bai jia)	Jiangsu	China	China	1994	VII
587602	Ru gao dai xi feng yi	Jiangsu	China	China	1994	VII
587603A	Nan tong ai jiao huang	Jiangsu	China	China	1994	VI
587603B	(Nan tong ai jiao huang)	Jiangsu	China	China	1994	VII
587603C	(Nan tong ai jiao huang)	Jiangsu	China	China	1994	VI

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587581	VI	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587582	VI	D	P	G	A	N	Tn	I	Y	Bf		2N
587583A	VII	D	P	G	A	Ssp	Br	I	Y	Ib	Vhil	3N
587583B	VI	D	W	G	A	N	Tn	I	Y	Bf		3N
587583D	VII	D	P	G	A	N	Tn	I	Y	Bf		2N
587584	VI	D	P	G	A	N	Lbr	I	Y	Ib	Vhil	2N
587585A	V	D	P	T	A	N	Tn	I	Y	Bl		2N
587585B	V	S	P	G	A	N	Tn	I	Y	Ib	Vhil	2N
587585C	V	D	P	T	A	N	Tn	I	Y	Bl		2N
587585D	V	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	2N
587586	VI	N	P	T	A	N	Br	I	Y	Br		2N
587587A	VIII	N	P	G	A	N	Br	I	Gn	Bf	Sdef	4N
587587B	VIII	D	P	G	A	N	Br	I	Gn	Ib	Vhil	3N
587588A	IV	N	P	Lt	E	Ssp	Br	I	Y	Br		3N
587588B	V	D	W	G	A	N	Br	I	Y	Bf		2N
587589	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
587590	VII	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
587591	VI	N	W	T	A	N	Tn	I	Y	Brbl		3N
587592A	VII	N	P	T	A	N	Tn	I	Y	Brbl		3N
587592B	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587593	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587594	VII	N	P	T	A	N	Br	I	Y	Br		2N
587595A	VI	N	P	T	A	N	Br	I	Y	Brbl		3N
587595B	VI	D	P	G	A	Ssp	Tn	D	Y	Y		2N
587595C	VI	D	P	T	Sa	N	Br	I	Y	Brbl		3N
587596A	VI	D	W	G	A	N	Tn	I	Y	Ib	Vhil	3N
587596B	VII	D	W	T	A	N	Tn	I	Y	Brbl		3N
587596C	VIII	N	P	T	A	N	Tn	I	Y	Brbl		3N
587597A	VI	D	P	T	A	N	Tn	I	Y	Brbl		2N
587597B	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
587597C	VIII	D	W	G	Sa	N	Tn	I	Y	Bf	Vhil	3N
587598A	V	D	W	T	A	N	Tn	I	Y	Brbl		3N
587598B	VI	D	P	T	Va	N	Tn	I	Y	Brbl		2N
587599	VIII	N	W	T	A	N	Tn	I	Y	Br		3N
587600A	IV	D	P	T	A	N	Tn	I	Y	Brbl		3N
587600B	V	D	W	T	A	Ssp	Tn	I	Y	Br	Vhil	2N
587600C	V	D	W	G	A	N	Tn	I	Y	Bf		2N
587601A	VI	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
587601B	VI	D	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
587601C	VI	D	W	G	A	Ssp	Tn	I	Y	Bf		3N
587601D	VI	D	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
587601E	VII	N	P	Lt	A	N	Tn	D	Y	Br		2N
587602	VII	N	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
587603A	VI	D	P	T	A	N	Tn	I	Y	Br		3N
587603B	VII	N	P	T	A	N	Br	I	Y	Br		2N
587603C	VI	D	W	T	A	N	Tn	I	Y	Br		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587581	715	1003	2.0	86	2.0	3.0	2.2*	1.5	20.8	2.40*
587582	725	1012	3.0	80	3.0	4.0^	2.2	2.5	16.1	1.92
587583A	812	1015	4.0	114*	2.5	4.5	2.0	1.5	17.9	1.92*
587583B	727	1010	3.0	102	1.0	2.0	2.2	2.5	17.3	2.08
587583D	723	1016	4.0	96*	1.5	2.0*	1.5	1.0	21.7*	3.06
587584	804	1010	4.0	118	2.0	3.0	2.2	2.5	16.4	2.25
587585A	725	921	3.0	88	1.0	2.5	2.5	3.0	14.3	2.40
587585B	714	921	2.5	78	1.0	2.0	2.5	2.5	14.9*	1.78
587585C	714	925	2.0	75	1.0	1.5	2.8	3.0	14.7	2.01
587585D	720	927	3.0	92	1.5	2.5	2.5	2.5	14.2	2.04
587586	726	1007	4.0	173*	2.0	3.0	2.0	2.5	14.8	1.44*
587587A	813	1023	3.0	116*	1.5	2.0	2.8*	1.0	22.0	1.18*
587587B	725	1025	3.5	102	1.5	3.0^	2.8	2.0	28.9	1.02*
587588A	711	911	4.5	143	2.5	3.0	2.8*	3.5*	10.3	1.54
587588B	703	924	2.0	78	1.0	2.0	2.0	1.0	16.2	2.67
587589	705	925	3.5	61*	1.5	2.0*	1.5	1.5	12.4	2.51
587590	802	1017	3.0	97	2.0	3.0	2.2	3.0	17.4	1.93*
587591	715	1005	4.0	156*	2.0	4.0*	2.2	2.0	15.5	1.19
587592A	804	1016	4.0	173	3.0	4.5	2.2	2.0	12.6	1.04
587592B	808	1017	5.0	201*	3.0	4.5	2.5	2.0	15.2	1.57*
587593	802	1009	3.0	94*	3.0	4.0	2.2	3.0	16.6	2.08
587594	804	1013	5.0	121*	3.0	4.0	2.2	3.0	12.9	2.48
587595A	729	1003	4.0	143*	3.0	4.0	2.5	3.0	15.4	1.77
587595B	721	1009	3.0	96	1.0	2.0	2.8*	3.0	19.7	3.02*
587595C	804	1010	4.0	131*	1.5	2.0	2.8*	3.0	15.0	2.47
587596A	721	1014	2.0	90	1.0	2.0	1.8	2.5	16.4	2.57
587596B	725	1016	2.0	91	3.0	4.5	2.8	2.0	22.8	2.06*
587596C	812	1025	3.5	110*	2.0	3.0^	3.2	3.0	16.3	0.85*
587597A	727	1009	3.0	74	2.5	3.0	2.8*	2.5	12.9	1.39
587597B	812	1014	4.0	134	2.0	2.5	1.8	2.0	11.6	2.48*
587597C	724^	1104^	1.0^	95^	1.0^	2.0^	2.0^	2.0^	17.9^	2.47^
587598A	629	922	3.0	84	1.5	2.0^	2.0	2.0	17.2*	2.47
587598B	803	1009	3.0	111*	2.0	3.5	2.8	2.0	17.6	1.43
587599	816	1031	3.0	145	1.5	1.5	2.8	3.0	16.9	0.47
587600A	708	911	2.5	80	3.5	5.0	2.2	1.5	18.2	2.50
587600B	715	923	2.5	60	3.0	5.0	2.0	2.0	13.6	2.14*
587600C	713	929	3.0	106	1.0	2.5	2.0	2.0	17.2	2.22*
587601A	723	1009	3.0	88	2.0	3.0	2.2*	2.0*	16.4	2.66
587601B	721	1006	2.0	89	2.0	3.0	2.5*	1.5	18.3	2.56*
587601C	725	1006	2.0	87	1.0	1.5	2.5	2.5	15.1	2.60
587601D	726	1011	3.0	134*	2.0	3.0	2.2	1.5	16.3	1.91
587601E	804	1015	3.5	226*	2.0	4.0*	2.2	3.5	13.6	1.72*
587602	729	1014	4.0	123	3.0	4.0	2.2	2.0	15.8	1.64*
587603A	721	1003	4.0	122*	2.5	3.0	2.2	2.0	17.4	2.76
587603B	804	1013	3.0	185	2.0	2.5	1.8	1.5	13.8	2.96
587603C	724	1005	4.0	100*	1.5	2.5	2.5	2.0	16.5	2.35



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587581	VI	45.0	18.1	11.8	3.3	25.6	51.8	7.5
587582	VI	45.1	17.2	11.9	3.8	22.5	55.5	6.3
587583A	VII	47.1	16.8	11.6	3.3	22.2	55.5	7.5
587583B	VI	45.6	16.8	13.4	3.7	25.9	50.8	6.2
587583D	VII	42.0	19.3	12.1	3.9	22.8	55.8	5.3
587584	VI	44.0	17.0	11.8	3.5	24.9	52.1	7.7
587585A	V	43.6	17.1	12.9	2.9	24.4	52.0	7.8
587585B	V	44.8	16.5	13.0	2.7	25.8	51.0	7.5
587585C	V	45.0	17.0	13.2	3.2	21.5	53.7	8.5
587585D	V	45.1	16.5	13.0	2.9	25.1	51.7	7.5
587586	VI	46.1	16.5	11.9	3.2	22.0	54.5	8.4
587587A	VIII	49.1 <sup>w</sup>	14.6 <sup>w</sup>	11.7	4.0	21.4	54.5	8.4
587587B	VIII	45.0 <sup>w</sup>	15.1 <sup>w</sup>	11.2	3.2	25.0	52.9	7.8
587588A	IV	47.3 <sup>w</sup>	16.4 <sup>w</sup>	11.3	3.4	27.7	50.7	6.9
587588B	V	45.8	17.8	12.6	3.5	26.6	50.9	6.3
587589	V	42.3	18.6	11.3	3.4	25.2	53.9	6.2
587590	VII	46.6	17.5	11.8	3.7	23.5	55.1	5.7
587591	VI	45.8	18.1	11.7	2.9	22.5	56.3	6.6
587592A	VII	45.7	16.3	13.3	3.3	19.8	57.0	6.6
587592B	VII	47.8	15.2	12.7	3.4	21.4	55.5	7.0
587593	VI	44.6	16.5	12.2	3.6	23.3	53.9	6.9
587594	VII	45.5	17.3	12.7	3.9	23.8	53.5	6.1
587595A	VI	44.2	16.9	12.9	3.6	21.5	55.3	6.8
587595B	VI	45.8	18.2	12.6	3.0	22.3	56.1	6.0
587595C	VI	45.4	16.7	13.5	3.0	21.2	55.3	7.0
587596A	VI	42.7	16.6	12.2	3.5	21.4	55.1	7.8
587596B	VII	45.7	17.5	12.1	3.9	23.7	54.7	5.7
587596C	VIII	47.8	15.2	12.6	3.0	21.4	54.9	8.2
587597A	VI	43.0	18.4	11.0	3.6	23.4	53.7	8.3
587597B	VI	46.6	16.5	11.4	3.6	24.3	53.2	7.4
587597C	VIII	45.3 <sup>^</sup>	17.6 <sup>^</sup>	11.8 <sup>^</sup>	3.9 <sup>^</sup>	21.3 <sup>^</sup>	56.3 <sup>^</sup>	6.8 <sup>^</sup>
587598A	V	43.8	16.8	11.8	3.2	22.2	56.2	6.6
587598B	VI	44.8	17.9	11.8	4.3	25.2	52.5	6.3
587599	VIII	47.8	15.8	11.5	3.4	22.6	54.6	7.9
587600A	IV	43.3	19.9	12.7	2.9	27.0	51.8	5.5
587600B	V	45.6	17.9	11.5	2.9	27.1	52.4	6.0
587600C	V	46.9	16.7	12.2	3.6	30.5	47.8	5.9
587601A	VI	43.5	18.0	12.2	3.2	20.5	57.1	6.9
587601B	VI	45.4	16.8	12.5	2.7	18.6	58.6	7.7
587601C	VI	42.7	18.0	12.1	2.9	24.5	54.6	5.9
587601D	VI	44.3	17.8	12.3	3.7	24.5	53.8	5.6
587601E	VII	48.2 <sup>w</sup>	14.2 <sup>w</sup>	13.0	3.1	23.0	54.1	6.8
587602	VII	46.8	16.2	11.2	3.2	24.1	55.6	5.9
587603A	VI	46.2	16.8	12.5	2.6	21.7	55.6	7.6
587603B	VII	42.9	18.1	12.5	3.8	22.7	54.4	6.6
587603C	VI	45.8	17.6	12.4	3.3	23.2	55.1	6.1

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587603D	(Nan tong ai jiao huang)	Jiangsu	China	China	1994	VI
587604A	Nan tong zhi ma hua yi	Jiangsu	China	China	1994	V
587604B	(Nan tong zhi ma hua yi)	Jiangsu	China	China	1994	V
587604C	(Nan tong zhi ma hua yi)	Jiangsu	China	China	1994	V
587604D	(Nan tong zhi ma hua yi)	Jiangsu	China	China	1994	VII
587605	Nan tong yi peng song	Jiangsu	China	China	1994	VII
587606A	Nan tong huang you guo zi	Jiangsu	China	China	1994	IV
587606B	(Nan tong huang you guo zi)	Jiangsu	China	China	1994	V
587606C	(Nan tong huang you guo zi)	Jiangsu	China	China	1994	VI
587606D	(Nan tong huang you guo zi)	Jiangsu	China	China	1994	VI
587606E	(Nan tong huang you guo zi)	Jiangsu	China	China	1994	V
587607B	(Hai men bai mao jia)	Jiangsu	China	China	1994	IV
587608A	Hai men jie jie si	Jiangsu	China	China	1994	IV
587608B	(Hai men jie jie si)	Jiangsu	China	China	1994	V
587608C	(Hai men jie jie si)	Jiangsu	China	China	1994	VI
587610	Qi dong xiao an huang jia No. 1	Jiangsu	China	China	1994	IX
587612A	Ru dong ba yue bai jia	Jiangsu	China	China	1994	V
587612B	(Ru dong ba yue bai jia)	Jiangsu	China	China	1994	VI
587612C	(Ru dong ba yue bai jia)	Jiangsu	China	China	1994	VI
587612D	(Ru dong ba yue bai jia)	Jiangsu	China	China	1994	VI
587612F	(Ru dong ba yue bai jia)	Jiangsu	China	China	1994	VI
587613	Ru dong ba yue bai yi No. 1	Jiangsu	China	China	1994	VII
587614	Ru dong xiao huang ke	Jiangsu	China	China	1994	VI
587615	Dan yang wan huang dou yi No. 2	Jiangsu	China	China	1994	VII
587616	Jin tan qing zhong	Jiangsu	China	China	1994	VIII
587617	Jin tan qing zi	Jiangsu	China	China	1994	VI
587618A	Li yang ba yue huang yi	Jiangsu	China	China	1994	VI
587618B	(Li yang ba yue huang yi)	Jiangsu	China	China	1994	VII
587619	Yi xing zao huang dou	Jiangsu	China	China	1994	V
587620A	Wu jiang ba yue niu mao huang	Jiangsu	China	China	1994	IV
587620B	(Wu jiang ba yue niu mao huang)	Jiangsu	China	China	1994	IV
587620C	(Wu jiang ba yue niu mao huang)	Jiangsu	China	China	1994	IV
587620D	(Wu jiang ba yue niu mao huang)	Jiangsu	China	China	1994	V
587621	Wu jiang zao wan dou	Jiangsu	China	China	1994	VI
587622A	Liu he lu dou No. 2	Jiangsu	China	China	1994	VII
587622B	(Liu he lu dou No. 2)	Jiangsu	China	China	1994	VII
587623	Tai xing wan da qing dou No. 3	Jiangsu	China	China	1994	VI
587624	Nan tong gao jiao lu yi	Jiangsu	China	China	1994	VI
587625A	Nan tong da yang qing	Jiangsu	China	China	1994	V
587625B	(Nan tong da yang qing)	Jiangsu	China	China	1994	VI
587626	Hai men yang yan dou yi No. 1	Jiangsu	China	China	1994	VI
587627A	Hai men guan qing dou	Jiangsu	China	China	1994	VI
587627B	(Hai men guan qing dou)	Jiangsu	China	China	1994	VII
587627C	(Hai men guan qing dou)	Jiangsu	China	China	1994	VIII
587629	Hai men xian hao lu	Jiangsu	China	China	1994	V
587630A	Qi dong sha lu dou yi	Jiangsu	China	China	1994	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587603D	VI	D	P	T	A	N	Br	I	Y	Br		3N
587604A	V	D	P	G	Va	N	Tn	I	Y	Bf	Vhil	2N
587604B	V	D	P	G	Va	N	Tn	I	Y	Bf	Vhil	2N
587604C	V	D	P	G	A	N	Tn	I	Y	Bf	Vhil	2N
587604D	VII	D	P	T	A	N	Br	I	Y	Br		3N
587605	VII	D	P	G	Va	N	Tn	I	Y	Ib	Vhil	2N
587606A	IV	D	W	T	Va	Ssp	Tn	I	Y	Br		2N
587606B	V	D	W	T	E	N	Tn	I	Y	Br		2N
587606C	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587606D	VI	N	W	G	Sa	N	Tn	I	Y	Bf		2N
587606E	V	D	W	T	E	Ssp	Tn	I	Y	Br		2N
587607B	IV	D	W	T	Va	N	Tn	I	Y	Br		2N
587608A	IV	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587608B	V	D	W	T	Va	N	Tn	I	Y	Br		3N
587608C	VI	S	P	G	A	N	Tn	I	Y	Ib		3N
587610	IX	N	W	G	A	N	Tn	I	Y	Bf		3N
587612A	V	D	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
587612B	VI	N	P	G	Sa	N	Tn	I	Y	Bf		3N
587612C	VI	N	P	G	Sa	Ssp	Tn	I	Y	Bf	Vhil	3N
587612D	VI	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
587612F	VI	D	P	G	Sa	Ssp	Tn	I	Y	Bf	Vhil	3N
587613	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	3N
587614	VI	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	2N
587615	VII	N	W	T	A	N	Br	I	Y	Bl		4N
587616	VIII	D	P	T	A	N	Br	I	Gn	Brbl		4N
587617	VI	D	P	T	A	N	Br	I	Gn	Bl	Sdef	3N
587618A	VI	D	P	T	A	Ssp	Br	I	Gn	Br		2N
587618B	VII	N	P	T	A	N	Br	I	Gn	Br		4N
587619	V	D	P	T	A	Ssp	Br	I	Gn	Brbl	Vhil	3N
587620A	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
587620B	IV	D	W	G	Sa	N	Br	I	Y	Lbf		3N
587620C	IV	D	W	T	A	N	Br	I	Y	Brbl	Def	4N
587620D	V	D	W	T	A	N	Br	I	Y	Br		4N
587621	VI	N	P	T	A	Ssp	Br	I	Y	Brbl		3N
587622A	VII	N	P	G	A	N	Br	I	Gn	Bf		3N
587622B	VII	N	P	T	A	N	Br	D	Gn	Br		3N
587623	VI	N	P	Lt	A	Ssp	Br	I	Gn	Brbl		3N
587624	VI	D	P	T	A	N	Lbr	I	Gn	Bl	Gnc	3N
587625A	V	N	P	T	A	N	Br	I	Gn	Br		3N
587625B	VI	D	P	T	A	N	Br	I	Gn	Br		3N
587626	VI	D	P	T	Va	N	Br	I	Gn	Brbl	Vhil	3N
587627A	VI	N	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587627B	VII	N	P	T	Va	N	Br	I	Gn	Brbl		3N
587627C	VIII	N	P	T	A	N	Tn	I	Gn	Brbl		3N
587629	V	D	P	T	Va	N	Br	I	Gn	Brbl	Vhil	3N
587630A	VII	D	P	T	A	N	Br	I	Gn	Brbl	Lft5	3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587603D	802	1011	3.0	136*	1.0	2.0	1.8	2.0	12.8	2.33
587604A	710	923	3.0	75	2.5	4.5	2.2*	2.0	15.9*	1.83*
587604B	713	921	3.0	84*	3.0	5.0	2.5	2.0	14.7	1.63
587604C	711	929*	3.0	74	1.5	3.0	2.2*	1.5	15.8	1.52
587604D	802	1015	4.0	114	2.0	3.0	2.5	3.5	23.2	1.65*
587605	725	1019	2.5	56	2.5	2.5	3.2	2.0	23.2	0.97*
587606A	711	913	3.0	75*	3.0*	3.5	2.0	2.5	12.6*	1.69
587606B	711	921	3.5	71	1.0	2.0	2.5	2.0	12.4	2.77
587606C	720	1009	4.0	117*	2.0	2.5	2.0	3.0	11.9	2.86*
587606D	723	1005	4.0	100*	1.5	2.0	2.2*	1.5	12.0	1.69
587606E	713	929	4.0	100	1.0	2.0	2.5	3.0	12.1	1.63
587607B	708	911	3.0	76*	3.5	4.0	2.0	2.5	12.2*	1.59
587608A	709	911	1.5	59*	3.5*	4.0*	2.5*	1.5	25.5*	1.41
587608B	721	929	3.0	98	2.5	3.0	2.8	3.0	18.2	2.06
587608C	723	1004	4.0	115	2.0	3.0	1.5	1.5	18.2	2.65
587610	822	1110	3.5	108*	1.5	2.0 <sup>^</sup>	3.0	3.0	15.3	0.36
587612A	715	929	3.0	100*	1.0	2.0	2.2	1.5	13.8	2.31*
587612B	721	1008	4.0	149	2.0	3.0	2.0*	1.0	15.8	1.30
587612C	713	1008	5.0	141*	2.0	3.5	1.5	1.0	12.3	1.69
587612D	801	1009	4.0	106*	2.5	3.5	1.5	1.0	14.4	2.22
587612F	718 <sup>^</sup>	1010 <sup>^</sup>	2.0 <sup>^</sup>	140 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	1.0 <sup>^</sup>	1.0 <sup>^</sup>	12.6 <sup>^</sup>	1.73 <sup>^</sup>
587613	807	1015	3.5	166	2.5	3.0	2.0	2.5	14.2*	1.41
587614	803	1008	3.0	87	1.0	2.5	2.0	2.0	12.4	2.06
587615	820	1022*	4.0	159*	3.0	4.0	3.2	4.5	14.7	0.90
587616	729	1023	3.5	104	1.0	2.0	3.2	3.0	24.6	0.99
587617	804	1011	4.0	120*	3.5	4.5	3.2	4.5	23.1	2.14
587618A	729	1005	4.0	94*	2.5	3.5	2.2	3.0	15.8	2.09
587618B	731	1018	3.0	134	1.5	2.0	3.2	2.5	20.5	1.30
587619	717	929	2.0	64	2.0	4.0	2.2	2.0	15.1	2.46
587620A	709	904	2.0*	75*	3.5	4.0	2.0	3.0*	14.0*	1.83
587620B	709	912	1.0	63*	1.5	2.5	2.0*	1.5	13.8	2.24*
587620C	703	903	1.0	51*	2.0*	3.0*	3.0	1.5	15.1	1.64*
587620D	709	915*	2.0	87*	1.0	2.0	2.2*	2.0*	16.5	1.41*
587621	721	1010	4.0	222*	1.0	1.5	2.8	3.0	15.7	1.74
587622A	729	1015	4.0	135	2.0	3.0	2.2	2.0	20.7	1.69
587622B	812	1017	3.0	120*	2.0	2.5	2.5	2.0	15.4	2.12
587623	804	1009	4.0	155*	3.0	4.0 <sup>^</sup>	2.8*	2.5	16.6	1.80*
587624	725	1006	4.0	113	2.5	3.5	2.8	3.5	24.2	1.45
587625A	711	924	3.5	112	3.5	5.0	2.2	2.5	20.8	2.01
587625B	729	1009	5.0	136*	3.0	4.0	2.0	2.0	16.6	3.16
587626	725	1010	4.0	118*	3.0	4.0	2.8	3.0	22.2*	2.14
587627A	723	1006	3.0	120	2.0	3.0 <sup>^</sup>	1.8	1.5	18.1	2.81
587627B	811	1017	4.0	151	2.0	3.0	2.8	2.0	22.9*	2.01
587627C	814	1023	3.0	110	1.5	1.5	2.8	4.0	17.8	0.92*
587629	708	923*	4.0	92	2.5	4.5	2.8	2.5	17.4	1.66
587630A	812	1017	4.0	118	3.0	4.0	2.8	2.0	24.7	1.84

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587603D	VI	43.5	17.6	12.3	3.8	21.7	55.3	6.8
587604A	V	43.8	17.6	12.5	3.3	25.0	52.7	6.5
587604B	V	44.5	17.5	12.8	3.3	26.7	50.9	6.2
587604C	V	42.8	17.8	12.4	3.2	25.1	52.8	6.5
587604D	VII	45.3 <sup>w</sup>	16.6 <sup>w</sup>	11.7	3.0	19.8	58.1	7.3
587605	VII	45.1	17.8	13.0	2.7	22.4	55.0	6.7
587606A	IV	43.7	18.6	11.5	3.3	28.5	50.8	6.0
587606B	V	47.4	17.9	12.6	3.8	21.0	56.7	5.9
587606C	VI	44.5	17.8	11.7	3.9	21.3	55.4	7.7
587606D	VI	48.2	17.1	11.4	4.3	22.3	55.6	6.4
587606E	V	47.6	17.9	11.8	4.0	20.5	57.7	6.1
587607B	IV	43.4	18.2	11.4	3.4	29.2	50.2	5.8
587608A	IV	47.2	17.7	12.3	3.2	29.9	49.3	5.2
587608B	V	46.3	16.6	12.8	3.3	25.2	52.1	6.6
587608C	VI	44.6	17.7	12.6	3.5	22.3	55.4	6.2
587610	IX	-	-	-	-	-	-	-
587612A	V	45.1	16.6	12.8	3.3	23.8	52.8	7.2
587612B	VI	46.2	16.2	12.7	3.7	27.5	50.0	6.1
587612C	VI	46.4	17.1	12.2	4.6	23.2	53.2	6.8
587612D	VI	45.8	16.2	12.4	3.5	25.1	51.8	7.1
587612F	VI	47.0 <sup>^</sup>	16.7 <sup>^</sup>	12.1 <sup>^</sup>	4.8 <sup>^</sup>	23.4 <sup>^</sup>	52.2 <sup>^</sup>	7.6 <sup>^</sup>
587613	VII	43.8	17.2	13.1	3.0	21.6	54.7	7.7
587614	VI	44.9	17.7	11.4	3.3	23.5	53.6	8.1
587615	VII	50.1 <sup>w</sup>	13.7 <sup>w</sup>	12.4	3.5	24.9	52.2	7.0
587616	VIII	48.2 <sup>w</sup>	16.8 <sup>w</sup>	11.3	3.7	22.5	56.6	5.9
587617	VI	46.7 <sup>w</sup>	15.2 <sup>w</sup>	11.9	3.1	19.8	57.1	8.0
587618A	VI	46.9 <sup>w</sup>	16.8 <sup>w</sup>	11.3	3.2	21.7	55.5	8.2
587618B	VII	48.0 <sup>w</sup>	15.4 <sup>w</sup>	11.5	2.8	23.0	54.2	8.5
587619	V	47.2 <sup>w</sup>	16.2 <sup>w</sup>	12.2	3.8	25.6	51.7	6.6
587620A	IV	43.7 <sup>w</sup>	18.3 <sup>w</sup>	11.5	3.0	27.8	50.8	6.9
587620B	IV	47.3	16.8	13.8	3.6	30.3	45.9	6.4
587620C	IV	47.5	16.2	13.2	3.2	22.8	53.1	7.8
587620D	V	47.1	16.7	13.6	3.8	32.8	44.3	5.6
587621	VI	45.2	16.8	11.9	4.0	24.2	53.9	6.0
587622A	VII	50.2 <sup>w</sup>	14.7 <sup>w</sup>	11.0	3.1	22.5	55.7	7.7
587622B	VII	53.1 <sup>w</sup>	13.1 <sup>w</sup>	11.0	3.0	19.0	58.6	8.4
587623	VI	49.6 <sup>w</sup>	15.7 <sup>w</sup>	11.3	2.9	25.6	53.3	7.0
587624	VI	46.2 <sup>w</sup>	16.4 <sup>w</sup>	11.9	3.6	20.3	56.8	7.4
587625A	V	47.1 <sup>w</sup>	15.9 <sup>w</sup>	12.2	3.3	24.0	55.0	5.4
587625B	VI	43.8 <sup>w</sup>	15.8 <sup>w</sup>	11.2	3.4	23.3	55.0	7.0
587626	VI	44.9 <sup>w</sup>	17.1 <sup>w</sup>	11.7	3.5	21.9	55.5	7.4
587627A	VI	45.7	17.3	12.7	3.4	22.1	55.3	6.5
587627B	VII	46.1 <sup>w</sup>	15.9 <sup>w</sup>	11.4	3.3	21.2	56.7	7.5
587627C	VIII	46.4 <sup>w</sup>	15.5 <sup>w</sup>	11.2	2.4	18.3	58.6	9.3
587629	V	46.0 <sup>w</sup>	15.9 <sup>w</sup>	11.9	3.2	23.1	55.0	6.8
587630A	VII	47.3 <sup>w</sup>	15.3 <sup>w</sup>	11.5	3.4	22.0	55.5	7.6

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587630B	(Qi dong sha lu dou yi)	Jiangsu	China	China	1994	VII
587631A	Qi dong deng long dou jia	Jiangsu	China	China	1994	V
587631B	(Qi dong deng long dou jia)	Jiangsu	China	China	1994	VIII
587632B	(Qi dong guan qing dou jia)	Jiangsu	China	China	1994	VII
587633A	Ru dong wan lu huang dou yi	Jiangsu	China	China	1994	VII
587633B	(Ru dong wan lu huang dou yi)	Jiangsu	China	China	1994	VII
587633C	(Ru dong wan lu huang dou yi)	Jiangsu	China	China	1994	VIII
587633D	(Ru dong wan lu huang dou yi)	Jiangsu	China	China	1994	VII
587634A	Dan yang hei xiang dou	Jiangsu	China	China	1994	VII
587634B	(Dan yang hei xiang dou)	Jiangsu	China	China	1994	VII
587634C	(Dan yang hei xiang dou)	Jiangsu	China	China	1994	VII
587635	Dan yang da zi hei dou	Jiangsu	China	China	1994	VII
587638	Ru dong hei wan huang dou	Jiangsu	China	China	1994	VI
587639	Dan tu he dou	Jiangsu	China	China	1994	V
587640	Tai cang zi you dou	Jiangsu	China	China	1994	V
587641A	Ru gao tie ke ling	Jiangsu	China	China	1994	VI
587641B	(Ru gao tie ke ling)	Jiangsu	China	China	1994	VII
587641C	(Ru gao tie ke ling)	Jiangsu	China	China	1994	VIII
587642A	Ru dong zao jia hong	Jiangsu	China	China	1994	V
587642B	(Ru dong zao jia hong)	Jiangsu	China	China	1994	V
587643A	Nan tong hong pi xiang zi dou	Jiangsu	China	China	1994	V
587643B	(Nan tong hong pi xiang zi dou)	Jiangsu	China	China	1994	V
587644	Nan tong dan huang dou yi	Jiangsu	China	China	1994	VI
587645	Nan tong jiang you dou	Jiangsu	China	China	1994	V
587646	Nan tong zong se dou	Jiangsu	China	China	1994	V
587647A	Nan tong zhuang yang dou	Jiangsu	China	China	1994	V
587647B	(Nan tong zhuang yang dou)	Jiangsu	China	China	1994	V
587648	Nan tong niu kou hong	Jiangsu	China	China	1994	V
587649	Hai men po pi feng jia	Jiangsu	China	China	1994	V
587650	Hai men hong huang dou jia	Jiangsu	China	China	1994	V
587651	Hai men hong huang dou yi	Jiangsu	China	China	1994	V
587652	Hai men bao pi dou	Jiangsu	China	China	1994	V
587653	Kan jiang da hua lian	Jiangsu	China	China	1994	VI
587654	Tai xing ma que dou	Jiangsu	China	China	1994	VII
587655	Hei dou	Anhui	China	China	1994	VII
587656	Huang dou	Anhui	China	China	1994	VI
587657	Liu yue bao	Anhui	China	China	1994	VI
587658B	(Liu yue bao)	Anhui	China	China	1994	VI
587659A	Qing dou zi	Anhui	China	China	1994	VI
587659B	(Qing dou zi)	Anhui	China	China	1994	VI
587660A	Xiao li huang	Anhui	China	China	1994	VII
587660B	(Xiao li huang)	Anhui	China	China	1994	VII
587661A	She dou	Anhui	China	China	1994	VI
587662B	(Mi feng qiu)	Anhui	China	China	1994	VII
587663	Zhong chun huang dou	Anhui	China	China	1994	VII
587664A	Shan zi bai	Anhui	China	China	1994	VI

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587630B	VII	D	W	T	A	N	Br	I	Gn	Brbl	Lft5	3N
587631A	V	D	P	G	A	N	Br	I	Gn	Ib	Gnc, Vhil	3N
587631B	VIII	D	P	G	A	N	Br	I	Gn	Ib	Gnc, Vhil	2N
587632B	VII	N	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
587633A	VII	D	P	T	Va	N	Bl	I	Gn	Brbl		3N
587633B	VII	D	W	T	A	N	Br	I	Gn	Brbl		3N
587633C	VIII	N	W	T	A	N	Br	I	Gn	Brbl		3N
587633D	VII	N	P	T	A	N	Bl	I	Gn	Brbl		3N
587634A	VII	N	P	T	A	N	Br	I	Bl	Bl		3N
587634B	VII	N	W	T	A	N	Br	I	Bl	Bl	Lft4	3N
587634C	VII	N	P	T	A	N	Br	I	Bl	Bl	Lft5	3N
587635	VII	N	P	Lt	A	N	Lbr	I	Bl	Bl	Sdef	4N
587638	VI	D	P	T	Va	N	Tn	I	Bl	Bl		3N
587639	V	D	P	T	Va	N	Tn	I	Br	Br	Snet	3N
587640	V	D	W	T	A	N	Tn	I	Br	Br	Sdef	3N
587641A	VI	D	P	T	A	N	Tn	I	Rbr	Rbr	Sdef, Vsc	3N
587641B	VII	N	P	T	A	N	Tn	I	Br	Br	Lft5	3N
587641C	VIII	D	W	T	A	N	Tn	I	Rbr	Rbr	Sdef	3N
587642A	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Sdef	3N
587642B	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587643A	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587643B	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587644	VI	D	W	G	Va	N	Tn	D	Bf	Bf	Def	3N
587645	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587646	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Sdef	4N
587647A	V	D	P	T	A	N	Br	I	Bl	Bl	Flk, Sdef	3N
587647B	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587648	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Def	3N
587649	V	D	P	T	A	N	Tn	I	Br	Br	Def	3N
587650	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Sdef	3N
587651	V	D	P	T	Va	N	Br	I	Rbr	Rbr	Sdef	3N
587652	V	D	P	T	Va	N	Tn	I	Br	Br	Sdef	3N
587653	VI	D	W	T	A	Ssp	Tn	I	Br	Br	St	3N
587654	VII	N	W	T	A	N	Tn	I	Br	Br	St	2N
587655	VII	N	P	T	A	Ssp	Br	I	Bl	Bl		3N
587656	VI	D	P	T	A	N	Br	D	Y	Br		3N
587657	VI	D	P	T	A	N	Br	D	Y	Br		3N
587658B	VI	D	P	T	A	N	Br	I	Y	Br		3N
587659A	VI	N	P	T	A	N	Br	I	Gn	Br	Vsc	3N
587659B	VI	D	W	G	Va	N	Br	I	Gn	Bf	Vsc	3N
587660A	VII	N	P	Lt	A	N	Br	I	Y	Br		2N
587660B	VII	N	P	Lt	A	N	Br	I	Y	Br		2N
587661A	VI	N	P	T	A	Ssp	Br	I	Y	Br		3N
587662B	VII	N	P	G	A	N	Tn	I	Y	Bf		2N
587663	VII	N	P	T	A	Ssp	Tn	I	Y	Br		2N
587664A	VI	S	P	T	A	N	Br	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587630B	814	1021	4.0	136	2.0	3.0	2.5	2.0	18.7	1.63
587631A	720	929	4.0	108*	2.0	3.0	2.8	1.5	20.5	1.88*
587631B	802	1021	3.0	78	2.5	3.0	3.0	3.0	26.1	1.28*
587632B	802	1017	4.0	126	3.5	4.5	3.0	3.5	21.2	1.20
587633A	810	1018	4.0	98	1.0	1.5	2.5	2.0	10.1	2.29
587633B	805	1023	4.0	129*	1.5	2.5	2.8	3.0	19.1	2.09
587633C	802	1024	4.0	125	1.5	2.5	2.5	2.0	19.8	2.03*
587633D	808	1021	4.0	160*	2.5	3.5	3.0	3.0	17.4	0.84
587634A	727	1015	4.0	108	2.0	3.0	2.5	--	20.2	1.87*
587634B	725	1015	4.0	130	3.0	4.0	2.8	--	22.8	1.10
587634C	725	1017	4.0	112*	1.5	2.5	2.8	--	22.5	1.72
587635	731	1015	4.0	124*	3.0	4.0	2.5	--	17.8*	1.28
587638	725	1011	3.0	70	2.0	3.0	2.8	--	25.2	2.13*
587639	710	927*	3.0	81*	2.0	3.0	3.2	--	24.5	2.01*
587640	711	925	3.0	88*	3.0	4.0	2.2	--	22.2	2.14
587641A	804	1011	3.0	110	3.0	4.0	2.8*	--	20.6	1.96
587641B	730	1023	3.5	141*	2.0	2.5	2.5	--	19.2*	1.89*
587641C	730	1020	3.0	94	2.0	3.0	3.0	--	26.4*	1.82*
587642A	710	925	2.5	76	1.0	2.0	3.0	--	20.8	2.30
587642B	711	925	3.0	99*	1.0	2.0	3.0	--	24.3*	1.66
587643A	709	925	3.0	89*	1.0	2.0	3.0	--	22.7*	2.67
587643B	710	925	2.5	82*	1.0	1.5	3.0	--	24.0*	2.53
587644	723	1009	3.0	74	2.0	3.0	2.8	--	23.9	1.30*
587645	710	922	4.0	81	1.5	3.5	2.8	--	23.1*	2.61
587646	714	923	3.5	88	2.0	3.5	3.0	--	20.5	2.27
587647A	707	924	3.0	102	2.0*	3.5	2.8	--	21.3	1.77
587647B	711	927	3.0	80	2.0*	3.0*	3.0	--	21.2*	2.16
587648	710	925	3.5	76	1.5	2.5	3.0	--	20.5*	1.97
587649	710	927	3.0	88	2.0	3.0	2.8*	--	22.7	2.26*
587650	710	919	3.0	78	2.0	3.0 <sup>^</sup>	2.5	--	19.5	2.45
587651	711	925	3.5	82*	1.0	2.0	3.0	--	19.6	2.06
587652	710	1001	3.0	84*	2.0	3.5	3.0	--	22.8	1.36
587653	730	1005	4.0	124*	2.0	3.5	2.5	--	19.3	1.47
587654	808	1019	3.0*	121*	2.0	2.5	2.0	--	15.8	2.16*
587655	820	1019	3.0	138	2.5	3.5	2.5	--	15.3	1.45
587656	730	1008	2.5	115	3.0	3.5	2.2	3.0	17.8	1.79*
587657	731	1008	3.0	124*	2.0	3.0	2.2	3.0	16.6	1.76*
587658B	729	1007	2.5	117*	2.5	3.5	2.2	3.0	17.9	1.78
587659A	804	1009	4.0	128*	2.0	2.5	2.0	2.0	20.6	2.16
587659B	724	1013	4.0	102	2.0	2.5	2.5	2.5	21.6	1.97
587660A	806	1014	3.5	139*	1.5	2.5	1.8	2.0	14.2	1.85
587660B	818	1021	3.5	151*	1.5	2.5	2.2	2.5	13.7	1.27
587661A	727	1008	4.0	126	2.0	3.0	2.2	2.0	18.5	1.93*
587662B	814	1023	3.5	157	1.0	2.0	2.2	2.0	12.8	1.98*
587663	806	1020	3.0*	120	1.5	2.5	2.0	2.5	16.8	1.77
587664A	729	1009	4.0	116*	2.0	2.5	2.2	3.0	16.3	2.11



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587630B	VII	50.3 <sup>w</sup>	13.0 <sup>w</sup>	12.2	3.2	18.8	56.9	8.8
587631A	V	43.8 <sup>w</sup>	15.9 <sup>w</sup>	11.5	3.1	27.4	51.4	6.5
587631B	VIII	48.7 <sup>w</sup>	17.1 <sup>w</sup>	11.3	2.5	21.8	57.1	7.3
587632B	VII	45.4	17.0	12.1	10.6	36.5	30.3	10.5
587633A	VII	48.9 <sup>w</sup>	14.0 <sup>w</sup>	12.0	3.0	16.8	59.4	8.8
587633B	VII	47.7 <sup>w</sup>	15.5 <sup>w</sup>	11.9	3.2	18.1	58.8	8.0
587633C	VIII	45.8 <sup>w</sup>	16.5 <sup>w</sup>	12.1	3.4	17.9	58.7	7.8
587633D	VII	46.8 <sup>w</sup>	15.8 <sup>w</sup>	11.6	3.2	19.3	58.2	7.7
587634A	VII	48.8 <sup>w^</sup>	14.9 <sup>w^</sup>	11.4	3.0	19.9	58.8	6.9
587634B	VII	49.5 <sup>w^</sup>	12.0 <sup>w^</sup>	11.6	3.2	21.1	57.0	7.0
587634C	VII	44.8 <sup>w^</sup>	15.6 <sup>w^</sup>	10.7	2.9	20.7	58.9	6.8
587635	VII	43.9 <sup>w^</sup>	18.1 <sup>w^</sup>	11.1	3.4	23.5	54.0	8.1
587638	VI	41.8 <sup>w^</sup>	16.9 <sup>w^</sup>	11.6	2.7	19.8	58.0	7.9
587639	V	44.7 <sup>w</sup>	18.1 <sup>w</sup>	12.4	3.1	25.9	52.0	6.7
587640	V	43.7 <sup>w</sup>	17.9 <sup>w</sup>	11.2	3.2	31.7	48.5	5.5
587641A	VI	42.5 <sup>w</sup>	16.1 <sup>w</sup>	11.1	3.6	26.3	52.8	6.2
587641B	VII	43.8 <sup>w</sup>	15.6 <sup>w</sup>	12.2	3.0	20.3	57.7	6.9
587641C	VIII	42.8 <sup>w</sup>	18.3 <sup>w</sup>	10.9	2.7	21.4	57.0	8.0
587642A	V	45.4 <sup>w</sup>	17.0 <sup>w</sup>	12.5	3.3	24.9	53.3	6.0
587642B	V	46.5 <sup>w</sup>	17.4 <sup>w</sup>	11.6	3.6	25.0	53.5	6.2
587643A	V	47.6 <sup>w</sup>	16.6 <sup>w</sup>	12.0	3.1	22.7	54.4	7.8
587643B	V	46.6 <sup>w</sup>	16.3 <sup>w</sup>	12.4	3.6	26.1	52.2	5.6
587644	VI	46.5 <sup>w</sup>	16.8 <sup>w</sup>	12.2	3.2	23.1	54.5	7.0
587645	V	45.3 <sup>w</sup>	17.7 <sup>w</sup>	12.6	3.1	23.0	54.9	6.3
587646	V	46.7 <sup>w</sup>	17.2 <sup>w</sup>	12.2	3.3	24.5	53.5	6.4
587647A	V	47.1 <sup>w^</sup>	16.4 <sup>w^</sup>	12.0	3.2	23.8	54.3	6.6
587647B	V	47.5 <sup>w^</sup>	15.5 <sup>w^</sup>	12.3	3.3	25.5	52.6	6.4
587648	V	50.9 <sup>w^</sup>	15.1 <sup>w^</sup>	12.3	3.4	25.1	53.2	6.0
587649	V	44.9 <sup>w</sup>	17.0 <sup>w</sup>	12.1	3.1	26.5	51.8	6.5
587650	V	45.1 <sup>w^</sup>	17.5 <sup>w^</sup>	12.2	3.3	23.7	54.8	6.1
587651	V	46.8 <sup>w^</sup>	17.1 <sup>w^</sup>	12.4	3.2	24.7	53.1	6.5
587652	V	45.0 <sup>w</sup>	17.6 <sup>w</sup>	11.8	3.0	26.7	51.9	6.6
587653	VI	45.7 <sup>w</sup>	16.9 <sup>w</sup>	11.7	3.0	22.9	54.6	7.8
587654	VII	45.6 <sup>w</sup>	16.0 <sup>w</sup>	10.8	3.0	22.3	56.8	7.1
587655	VII	46.1 <sup>w^</sup>	14.1 <sup>w^</sup>	10.7	3.3	22.5	56.6	6.9
587656	VI	46.5	16.6	11.2	3.3	24.8	53.9	6.8
587657	VI	47.1	16.0	11.3	3.4	25.8	53.0	6.5
587658B	VI	46.5	16.0	11.4	3.2	22.6	55.5	7.3
587659A	VI	46.2 <sup>w</sup>	16.5 <sup>w</sup>	11.2	3.9	27.3	50.8	6.7
587659B	VI	45.8 <sup>w</sup>	16.2 <sup>w</sup>	10.9	3.9	26.5	51.7	7.0
587660A	VII	46.3	16.8	11.9	3.0	22.1	56.3	6.8
587660B	VII	46.5	16.0	12.3	3.0	20.0	57.6	7.1
587661A	VI	44.9	16.3	11.9	3.4	25.0	52.8	6.9
587662B	VII	46.0	15.9	12.1	3.1	19.3	58.9	6.6
587663	VII	45.6	18.0	10.8	3.3	21.3	58.3	6.3
587664A	VI	46.6	16.1	11.2	3.1	22.0	55.3	8.4

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587664B	(Shan zi bai)	Anhui	China	China	1994	VI
587665	Huang xiao dou	Anhui	China	China	1994	VII
587666	Er dao zao	Anhui	China	China	1994	VI
587667	Dau huang dou	Anhui	China	China	1994	V
587668A	Hui mei dou	Anhui	China	China	1994	VI
587668B	(Hui mei dou)	Anhui	China	China	1994	VI
587668C	(Hui mei dou)	Anhui	China	China	1994	VI
587669	Zan zi bai	Anhui	China	China	1994	VI
587670A	Liu yue bao	Anhui	China	China	1994	VI
587670B	(Liu yue bao)	Anhui	China	China	1994	VII
587671	Qing xiang dou	Anhui	China	China	1994	VII
587672	Ping tou huang	Anhui	China	China	1994	VII
587673	Ke ban jin	Anhui	China	China	1994	VI
587674A	Ba yue bai	Anhui	China	China	1994	IV
587674B	(Ba yue bai)	Anhui	China	China	1994	V
587675	Mi feng qiu	Anhui	China	China	1994	VII
587676	Qing ke dou	Anhui	China	China	1994	VI
587677	Xiao li huang	Anhui	China	China	1994	VII
587679	Da li dou	Anhui	China	China	1994	VI
587680	Gao jiao huang	Anhui	China	China	1994	VII
587681	Jiu yue huang	Anhui	China	China	1994	VII
587682B	(Da li huang No. 1)	Anhui	China	China	1994	VII
587683	Hua mi yan	Anhui	China	China	1994	VI
587684A	Ai jiao huang	Anhui	China	China	1994	VI
587684B	(Ai jiao huang)	Anhui	China	China	1994	VI
587685	Da li huang No. 2	Anhui	China	China	1994	VII
587686A	Xi li huang No. 1	Anhui	China	China	1994	VI
587686B	(Xi li huang No. 1)	Anhui	China	China	1994	VI
587687A	Xiao li dou No. 1	Anhui	China	China	1994	VI
587687B	(Xiao li dou No. 1)	Anhui	China	China	1994	VI
587687D	(Xiao li dou No. 1)	Anhui	China	China	1994	VII
587687E	(Xiao li dou No. 1)	Anhui	China	China	1994	VII
587688	Xi li huang No. 2	Anhui	China	China	1994	VII
587689	Xiao li huang	Anhui	China	China	1994	VI
587690	Huang da dou	Anhui	China	China	1994	V
587691	Hou zi mao	Anhui	China	China	1994	VII
587692A	Pi wai qing	Anhui	China	China	1994	VI
587692B	(Pi wai qing)	Anhui	China	China	1994	VII
587693	Yu shan dou	Anhui	China	China	1994	VI
587694	Mao dou	Anhui	China	China	1994	VII
587695	Dong huang dou	Anhui	China	China	1994	VII
587696	Mi feng qiu	Anhui	China	China	1994	V
587697	Da qing dou	Anhui	China	China	1994	VI
587698A	Qing pi	Anhui	China	China	1994	VI
587698B	(Qing pi)	Anhui	China	China	1994	VI
587698C	(Qing pi)	Anhui	China	China	1994	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587664B	VI	N	P	G	A	N	Br	I	Y	Bf		3N
587665	VII	N	P	G	A	N	Br	I	Y	Bf		2N
587666	VI	N	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
587667	V	S	W	T	A	Ssp	Br	I	Y	Br	Lft5, Vhil	2N
587668A	VI	N	P	T	A	Ssp	Br	I	Y	Br	Sdef	3N
587668B	VI	S	P	T	Va	Ssp	Br	I	Y	Br		2N
587668C	VI	N	P	T	Va	Ssp	Br	I	Y	Br	Vsc	3N
587669	VI	D	P	T	A	Ssp	Tn	I	Y	Br		2N
587670A	VI	N	P	Lt	A	N	Tn	I	Y	Brbl	Lft5	2N
587670B	VII	N	P	Lt	A	Ssp	Br	I	Y	Br		2N
587671	VII	N	P	G	A	N	Tn	I	Y	Bf		2N
587672	VII	N	P	T	A	Ssp	Br	I	Y	Br		2N
587673	VI	N	P	G	A	Ssp	Br	I	Y	Bf		2N
587674A	IV	D	P	T	A	Ssp	Br	I	Gn	Br	Sdef	2N
587674B	V	D	P	T	A	Ssp	Br	I	Gn	Br	Sdef	2N
587675	VII	N	P	T	A	Ssp	Br	I	Lgn	Brbl	Vsc	2N
587676	VI	N	P	G	A	N	Lbr	I	Gn	Bf	Vsc	3N
587677	VII	D	P	T	A	N	Br	I	Y	Br		3N
587679	VI	N	P	T	A	Ssp	Br	I	Y	Br		2N
587680	VII	N	P	T	A	Ssp	Br	I	Y	Br		2N
587681	VII	N	P	G	A	Ssp	Tn	I	Y	Bf		3N
587682B	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587683	VI	N	P	G	A	Ssp	Br	I	Y	Bf		2N
587684A	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
587684B	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
587685	VII	D	P	T	A	Ssp	Br	I	Y	Br		2N
587686A	VI	D	P	T	A	Ssp	Br	I	Y	Tn	Vhil	3N
587686B	VI	D	P	T	Va	Ssp	Br	I	Y	Tn	Vhil	2N
587687A	VI	N	P	G	A	Ssp	Br	I	Y	Bf		3N
587687B	VI	N	P	G	A	Ssp	Br	I	Y	Bf		3N
587687D	VII	D	P	T	A	Ssp	Br	I	Y	Brbl		3N
587687E	VII	N	P	T	A	Ssp	Br	I	Y	Br		2N
587688	VII	N	P	T	Va	Sp	Br	I	Y	Br		2N
587689	VI	N	P	T	Va	Ssp	Br	I	Y	Brbl		2N
587690	V	N	P	T	Va	N	Br	I	Y	Br		2N
587691	VII	N	P	Lt	A	Ssp	Br	I	Y	Br		2N
587692A	VI	D	W	G	A	N	Br	I	Gn	Bf	Vhil	2N
587692B	VII	D	P	T	A	N	Br	I	Gn	Br		3N
587693	VI	S	P	G	A	N	Br	I	Gn	Ib	Vhil	3N
587694	VII	N	P	G	A	N	Bl	I	Gn	Bf		3N
587695	VII	N	P	T	A	N	Br	I	Gn	Brbl	Vhil	3N
587696	V	D	P	T	A	Ssp	Tn	I	Gn	Bl		2N
587697	VI	N	P	T	A	N	Br	I	Lgn	Brbl	Vsc	3N
587698A	VI	N	P	G	A	Ssp	Br	I	Gn	Bf	Lft4,5,Vhil,Vsc	2N
587698B	VI	N	P	G	A	Ssp	Br	I	Gn	Bf	Lft4,5,Vhil,Vsc	2N
587698C	VII	N	W	G	A	N	Br	I	Lgn	Bf	Lft5, Vsc	2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587664B	730	1009	4.0	120*	2.0	3.0	2.0	2.0	15.0	1.95
587665	817	1023	3.5	146	1.5	1.5	2.5	2.0	13.9	1.58
587666	721	1001	4.0	128*	2.5	2.5	2.2	2.0	14.8	2.01
587667	721	1001	3.5	124*	1.5	2.0*	2.5	2.0	15.9	2.00
587668A	806	1006	4.0	121	2.5	3.0	2.5	5.0	11.3	1.49*
587668B	727	1006	4.0	94*	2.5	3.0	2.8*	3.5	14.1	2.20
587668C	804	1003	4.0	120	2.0	3.0	2.8	5.0	10.6	1.74*
587669	729	1005	4.0	84*	2.0	3.0	2.0	3.0	15.5	2.37
587670A	804	1010	3.5	122*	1.5	2.0*	2.8*	3.0	11.8	2.56
587670B	822	1023	2.5	142	1.0	1.5	2.0	2.0	13.9	1.78
587671	802	1023	3.5	171*	1.5	2.0	2.5	3.0*	15.3 <sup>^</sup>	0.74
587672	820	1023	3.0	127*	1.5	2.0	2.2	2.5	14.2	1.79
587673	802	1008	4.0	157	2.5	3.0	1.5	1.0	13.8	2.16
587674A	711	917	2.0*	62*	3.0*	3.5	2.5	2.5	14.1*	1.49
587674B	711	917	2.5	68	2.5	4.5	2.8	2.0	14.4	2.31
587675	804	1021*	4.0	123	2.0*	3.0*	2.8	3.5	15.9	1.89*
587676	802	1009	4.0	158*	2.5	3.0	2.2	2.5	16.8	2.54
587677	806	1020	3.0*	93	1.0	1.5	2.8	4.0	19.2	1.43
587679	804	1012	4.0	135	2.0	3.0	2.0	2.5	14.0	2.41
587680	808	1016	3.5	141*	1.5	2.0	2.2	2.5	14.1	2.11*
587681	814	1019	3.5	164*	3.0	4.0	2.0	1.5	13.8	1.60*
587682B	807 <sup>^</sup>	1018 <sup>^</sup>	3.0 <sup>^</sup>	152 <sup>^</sup>	1.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	2.0 <sup>^</sup>	17.3 <sup>^</sup>	2.44 <sup>^</sup>
587683	731	1008	4.0	108*	2.5	3.5	2.0	1.0	16.7	1.96
587684A	802	1006	3.0	100*	2.0	3.0	2.5	3.0	16.1	2.30
587684B	803	1005	3.5	97	1.5	2.5	2.2	2.5	15.8	2.37
587685	804	1019	3.0	111	2.0	3.0	2.5	3.5	19.8	1.42*
587686A	723	1003	3.0	87	2.0	3.5	2.2	2.5	17.6	2.65
587686B	723	1005	4.0	79	2.5	3.0	2.2	2.5	16.5	2.42
587687A	802	1008	4.0	118*	3.0	4.0	2.0	1.5	17.3	1.82
587687B	730	1011	4.0	128*	2.0*	3.0*	1.8	1.5	17.9	1.60
587687D	804	1017	2.5	97	1.5	2.0	2.8	3.5	19.5	1.42*
587687E	819	1023	3.0*	137*	1.5	2.0 <sup>^</sup>	1.8	2.0	15.2	2.47
587688	803	1015	3.5	116*	2.5	3.5	2.5	2.0	18.4	1.83*
587689	730	1009	4.0	128*	2.0	3.0	2.0	3.0	16.5	2.42
587690	717	1001	4.0	96	2.5	4.0	2.5	2.5	16.3	1.90
587691	819	1022	3.0*	155*	1.0	1.5	1.8	1.5	14.7	2.05
587692A	731	1006	3.0	95	2.0	3.0	2.5	2.5	20.4	1.91
587692B	725	1013	3.0*	97	1.0	2.0	2.5	2.0	21.9	2.06
587693	730	1013	4.0	120	2.5	3.5	3.0	1.5	21.7	2.62
587694	810	1022	3.5	129*	2.0	3.0	2.5	3.5	16.4	1.21
587695	804	1020	3.5	148*	1.0	2.0	2.5	2.0	25.5	2.27*
587696	719	923	3.0	81	1.5	3.0*	2.2	2.5	15.1	2.83
587697	804	1011	3.0	167	1.0	2.0	2.8	3.0	19.9	2.17*
587698A	804	1007	5.0	180*	1.0	2.0	1.5	1.0	13.3	2.68
587698B	803	1008	5.0	144	1.0	2.0	1.5	1.0	13.9	2.72
587698C	806	1019	3.5	143	2.0	2.5	2.8	3.5	12.5	1.23*

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587664B	VI	46.7	15.8	11.7	3.0	19.5	57.2	8.6
587665	VII	47.5	15.4	11.7	3.0	18.3	59.9	7.2
587666	VI	45.7	16.5	10.3	3.7	24.9	53.6	7.4
587667	V	45.3	16.7	10.6	4.0	22.3	55.8	7.4
587668A	VI	45.6 <sup>w</sup>	15.0 <sup>w</sup>	11.3	3.4	25.4	51.6	8.4
587668B	VI	46.5 <sup>w</sup>	16.2 <sup>w</sup>	11.6	3.3	22.6	53.9	8.7
587668C	VI	47.2 <sup>w</sup>	15.2 <sup>w</sup>	11.1	3.9	22.9	53.2	9.0
587669	VI	43.9	17.0	12.3	3.3	18.7	57.6	8.2
587670A	VI	43.7	17.2	12.7	2.9	20.8	56.4	7.2
587670B	VII	48.7	14.3	12.1	2.9	20.1	57.4	7.5
587671	VII	46.4 <sup>w</sup>	16.0 <sup>w</sup>	12.3	3.2	19.9	56.2	8.3
587672	VII	48.6	15.2	12.3	3.0	20.1	57.3	7.3
587673	VI	47.3	15.8	12.3	3.2	22.5	54.8	7.3
587674A	IV	46.8 <sup>w</sup>	15.6 <sup>w</sup>	12.4	3.1	26.0	50.5	7.9
587674B	V	46.3 <sup>w</sup>	14.7 <sup>w</sup>	12.2	3.4	21.9	53.2	9.3
587675	VII	43.4 <sup>w</sup>	18.2 <sup>w</sup>	12.1	3.4	21.6	55.1	7.8
587676	VI	44.6 <sup>w</sup>	16.6 <sup>w</sup>	11.1	3.9	27.1	51.1	6.8
587677	VII	44.9 <sup>w</sup>	17.1 <sup>w</sup>	10.6	3.1	21.1	57.6	7.5
587679	VI	44.8	17.4	11.7	3.5	22.4	55.1	7.2
587680	VII	45.7	16.9	12.5	3.8	23.6	53.9	6.3
587681	VII	49.8	14.6	13.4	3.2	21.1	54.2	8.2
587682B	VII	47.3 <sup>^</sup>	16.8 <sup>^</sup>	11.0 <sup>^</sup>	3.6 <sup>^</sup>	20.5 <sup>^</sup>	57.8 <sup>^</sup>	7.2 <sup>^</sup>
587683	VI	45.2	15.4	12.0	3.6	23.1	54.2	7.1
587684A	VI	45.5	16.5	11.5	3.4	28.9	48.9	7.3
587684B	VI	45.8	16.8	9.9	3.4	31.2	48.4	7.0
587685	VII	46.1 <sup>w</sup>	17.4 <sup>w</sup>	10.4	2.9	21.7	57.1	7.8
587686A	VI	46.2	17.5	12.0	3.0	20.6	57.8	6.6
587686B	VI	46.5	17.5	11.9	3.0	21.4	57.2	6.5
587687A	VI	45.4	16.3	12.1	3.7	25.7	52.2	6.3
587687B	VI	45.5	16.9	11.6	3.3	27.1	52.1	6.0
587687D	VII	45.9 <sup>w</sup>	17.5 <sup>w</sup>	10.6	2.8	20.3	58.2	8.1
587687E	VII	46.8	15.8	12.3	3.0	20.9	56.6	7.1
587688	VII	44.7	17.2	11.9	3.7	24.5	53.7	6.2
587689	VI	46.5	16.7	11.7	3.3	28.2	50.2	6.6
587690	V	45.5	17.2	11.8	3.2	24.5	54.4	6.2
587691	VII	45.8	16.2	12.3	3.0	21.8	55.7	7.2
587692A	VI	46.7 <sup>w</sup>	15.7 <sup>w</sup>	11.3	3.5	23.2	53.6	8.5
587692B	VII	45.4 <sup>w</sup>	14.7 <sup>w</sup>	11.7	3.3	25.2	53.9	5.9
587693	VI	45.8 <sup>w</sup>	16.7 <sup>w</sup>	11.2	3.6	23.0	55.3	6.9
587694	VII	45.7 <sup>w</sup>	16.9 <sup>w</sup>	11.1	3.5	24.1	54.4	7.0
587695	VII	47.1 <sup>w</sup>	18.2 <sup>w</sup>	10.8	4.3	25.9	52.6	6.5
587696	V	45.6 <sup>w</sup>	16.3 <sup>w</sup>	11.8	3.9	25.8	51.9	6.5
587697	VI	44.9 <sup>w</sup>	17.0 <sup>w</sup>	11.2	3.7	26.6	51.6	6.8
587698A	VI	45.5 <sup>w</sup>	16.3 <sup>w</sup>	11.2	3.3	22.9	54.3	8.3
587698B	VI	44.5 <sup>w</sup>	17.0 <sup>w</sup>	11.2	3.1	22.2	54.8	8.7
587698C	VII	48.7 <sup>w</sup>	15.3 <sup>w</sup>	12.0	3.8	21.9	54.0	8.3

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587699	Qing dou	Anhui	China	China	1994	VII
587700A	Da qing dou	Anhui	China	China	1994	VI
587700B	(Da qing dou)	Anhui	China	China	1994	VI
587700C	(Da qing dou)	Anhui	China	China	1994	VIII
587701	Qing dou	Anhui	China	China	1994	VII
587702	Qing pi dou	Anhui	China	China	1994	VI
587703B	(Qing dou)	Anhui	China	China	1994	VIII
587704	Qing pi dou	Anhui	China	China	1994	VI
587705A	Qing pi dou	Anhui	China	China	1994	VI
587705B	(Qing pi dou)	Anhui	China	China	1994	VI
587706	Chong ming shi shi xiang	Shanghai	China	China	1994	VI
587707	Chong ming bai mao ba yue bai jia	Shanghai	China	China	1994	VII
587708	Chong ming bai mao ba yue bai yi	Shanghai	China	China	1994	VII
587709A	Chong ming shi yue huang	Shanghai	China	China	1994	VII
587709B	(Chong ming shi yue huang)	Shanghai	China	China	1994	VII
587710	Shang hai hong mao huang dou	Shanghai	China	China	1994	VII
587711	Chong ming bao shi san	Shanghai	China	China	1994	VI
587712A	E dou No. 1	Hubei	China	China	1994	V
587712B	(E dou No. 1)	Hubei	China	China	1994	V
587713	You 70-23	Hubei	China	China	1994	V
587714A	Jing 802	Hubei	China	China	1994	V
587714B	(Jing 802)	Hubei	China	China	1994	V
587715	Mian yang sai zhong qiu	Hubei	China	China	1994	V
587716A	Tain men da zi huang	Hubei	China	China	1994	IV
587716B	(Tain men da zi huang)	Hubei	China	China	1994	IV
587716C	(Tain men da zi huang)	Hubei	China	China	1994	V
587717	Xiang yang ba yue zha	Hubei	China	China	1994	V
587718	Huang pi feng zi wo	Hubei	China	China	1994	V
587719A	Xi shui xiao dou	Hubei	China	China	1994	V
587719B	(Xi shui xiao dou)	Hubei	China	China	1994	V
587719C	(Xi shui xiao dou)	Hubei	China	China	1994	VI
587720	Song zi niu mao qing	Hubei	China	China	1994	VI
587721A	Gu cheng huang dou	Hubei	China	China	1994	VI
587721B	(Gu cheng huang dou)	Hubei	China	China	1994	VI
587721C	(Gu cheng huang dou)	Hubei	China	China	1994	VI
587722	Gu cheng yi shu hou	Hubei	China	China	1994	V
587723A	Gu cheng mian yang wei	Hubei	China	China	1994	VI
587723B	(Gu cheng mian yang wei)	Hubei	China	China	1994	VI
587724	Da wu huang dou No. 1	Hubei	China	China	1994	V
587725A	Zhong ke huang dou	Hubei	China	China	1994	VI
587725B	(Zhong ke huang dou)	Hubei	China	China	1994	VI
587725C	(Zhong ke huang dou)	Hubei	China	China	1994	VI
587726A	Wu chang huang dou	Hubei	China	China	1994	VII
587726B	(Wu chang huang dou)	Hubei	China	China	1994	VII
587727	Song zi ci yi zi	Hubei	China	China	1994	VI
587728	Ji mu dou dan zhu	Hubei	China	China	1994	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587699	VII	N	P	T	A	N	Br	I	Gn	Brbl	Vhil	2N
587700A	VI	D	P	G	A	N	Br	I	Gn	Ib	Vhil	3N
587700B	VI	D	P	G	A	N	Br	I	Gn	Ib	Vhil	3N
587700C	VIII	N	P	G	A	N	Br	I	Gn	Ib	Vhil, Vsc	3N
587701	VII	N	P	T	A	N	Br	I	Gn	Brbl	Vhil	2N
587702	VI	D	P	T	A	Ssp	Br	I	Lgn	Br		2N
587703B	VIII	N	P	G	A	N	Br	I	Gn	Bf	Gnc	3N
587704	VI	N	P	T	A	N	Br	I	Lgn	Br		3N
587705A	VI	N	P	G	A	Ssp	Br	I	Lgn	Bf	Vsc	3N
587705B	VI	N	P	G	A	Ssp	Br	I	Gn	Bf		2N
587706	VI	D	P	T	A	Ssp	Tn	D	Y	Brbl		3N
587707	VII	D	P	G	Va	Ssp	Tn	I	Y	Ib	Vhil	3N
587708	VII	D	W	T	Va	Ssp	Br	I	Y	Bl		3N
587709A	VII	D	W	T	Va	N	Tn	I	Y	Brbl		3N
587709B	VII	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
587710	VII	D	P	T	A	Ssp	Br	I	Y	Br		3N
587711	VI	D	W	T	A	N	Br	I	Y	Br		3N
587712A	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	3N
587712B	V	D	W	G	A	N	Tn	D	Y	Bf	Vhil	2N
587713	V	D	W	T	A	N	Br	I	Y	Br		3N
587714A	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
587714B	V	D	W	G	A	N	Tn	I	Y	Bf		2N
587715	V	N	W	T	A	N	Tn	I	Y	Brbl	Lft5	2N
587716A	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
587716B	IV	D	W	G	E	N	Br	I	Y	Bf		3N
587716C	V	D	W	G	A	N	Tn	I	Y	Bf		2N
587717	V	S	W	G	A	N	Br	I	Y	Bf	Vhil	1N
587718	V	D	W	T	A	N	Tn	I	Y	Brbl		2N
587719A	V	D	W	T	A	N	Br	D	Y	Brbl		3N
587719B	V	D	W	T	A	Sdn	Br	D	Y	Brbl		3N
587719C	VI	D	W	T	A	N	Br	I	Y	Brbl		3N
587720	VI	N	W	T	A	N	Tn	I	Y	Bl		2N
587721A	VI	N	W	T	A	N	Br	I	Y	Brbl		2N
587721B	VI	D	P	T	A	N	Tn	I	Y	Brbl		2N
587721C	VI	N	W	T	A	N	Br	I	Y	Brbl		2N
587722	V	S	W	T	A	N	Br	I	Y	Br		3N
587723A	VI	S	P	T	A	N	Tn	I	Y	Brbl	Vsc	2N
587723B	VI	D	P	T	A	N	Tn	I	Y	Brbl		2N
587724	V	N	W	G	A	N	Br	I	Y	Bf		2N
587725A	VI	N	P	T	A	N	Tn	I	Y	Br		3N
587725B	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587725C	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587726A	VII	N	W	T	A	N	Br	I	Y	Br		3N
587726B	VII	N	P	T	A	N	Br	I	Y	Br		3N
587727	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587728	V	S	W	T	A	N	Tn	I	Y	Brbl		2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587699	806	1017	3.5	127*	2.0	3.0	2.8*	3.0*	18.2	2.04*
587700A	723	1011	4.5	114*	3.0	4.0	3.0	2.5	19.4	1.81
587700B	723	1006	4.0	101*	3.0	4.0	3.0	2.0	18.3	2.03
587700C	814	1025	3.5	140	2.0	3.0	2.5	2.5	15.5	0.69
587701	804	1017	3.0	132*	1.0	2.0	2.5	2.0	20.2	2.58*
587702	801	1006	4.0	102	2.5	3.5	2.2	3.0	16.6	1.99
587703B	811	1025	4.0	184*	2.0	3.0	3.0	3.0*	19.9	0.90*
587704	806	1011	3.5	151*	1.5	2.5	2.5	2.5	22.5	2.35*
587705A	802	1009	4.5	164*	2.0	3.0	2.0	2.5	16.0	2.11
587705B	804	1005	4.5	138*	1.5	2.5	1.8	1.0	13.1	2.41
587706	709	1003	3.0*	69*	1.0	2.0	2.8*	2.0	27.1*	1.84
587707	729	1020	2.0	85	1.0	2.0	2.5	2.0	17.8	1.87*
587708	805	1014	2.5	110	1.5	2.5	2.8	2.5	22.6	1.99*
587709A	727	1015	2.5	105	2.5	3.5	2.5	2.5	24.6	2.01*
587709B	727	1021	3.0*	112*	1.0	2.0	2.2	1.0	25.4	3.11
587710	809	1016	3.5	143	2.0	2.0 <sup>^</sup>	2.2	3.0	19.8	2.12
587711	721	1008	3.0*	101	1.0	2.0	3.0	3.5	19.7	1.75
587712A	719	930	3.5	73	1.5	2.5	2.2	1.0	12.8	2.13
587712B	711	928	3.5	97	1.0	2.0	2.2*	1.5	12.9	1.42
587713	706	924	3.0	77	1.0	1.0	2.0	1.5	13.4	2.69
587714A	714	923	3.0	88*	1.0	1.5	2.2	1.5	10.2	1.99*
587714B	730	929	3.5	96*	2.0	3.0	2.2	3.0	7.5	2.18*
587715	723	923	3.5	131*	1.5	2.5	2.2	2.5	9.2	1.72
587716A	709	915	3.0	67*	2.5*	2.5	2.2*	3.5	13.6	1.31
587716B	708	912	3.0	72*	2.0*	2.5	2.5	4.5	9.8	1.30
587716C	710	917	3.5	72	1.0	2.0	2.0	3.0*	13.8	2.18*
587717	711	923	3.0	85	1.5	2.5	2.0	2.0	13.0	1.61*
587718	724	927	4.0	81	2.5	3.0	2.2	4.0	9.5	1.55
587719A	720	1001	4.0	84	1.5	3.0	3.0	4.5	13.2	1.45
587719B	723	929	3.0	92	3.5	4.5	3.0	5.0	12.5	1.87
587719C	719	1003	3.0	107*	2.0	3.0	2.2	3.5	12.3	2.29
587720	804	1014	4.0	116	3.0	4.0	2.8	4.0	15.1	2.55
587721A	726	1001	3.5	97	1.0	2.0	2.2	2.5	10.0	2.12
587721B	730	1007	4.0	99	1.0	2.0	2.2	3.5	11.0	2.79
587721C	730	1005	3.5	101	1.0	2.0	2.2	3.0	10.1	1.99
587722	725	1001	3.5	108	1.5	2.5	2.2	3.5	11.1	2.51
587723A	803	1009	4.0	123	1.0	2.0	1.8	2.5	11.1	2.43
587723B	803	1012	3.0*	142	3.5	4.5	2.2	2.5	12.2*	1.55*
587724	725	922	3.0*	107*	2.0*	3.0 <sup>^</sup>	2.0	3.0	7.5	1.82*
587725A	730	1006	4.0	154*	3.5	4.5	2.2	3.0	10.4	1.65
587725B	725	1006	4.0	108	3.5	4.5	2.5	2.0	10.5	1.71
587725C	731	1012	3.5	128	1.5	2.5	2.2	4.0*	10.5	1.71*
587726A	812	1019	3.5	164*	1.0	2.0	2.2	2.0	10.7	1.61*
587726B	818	1022	3.5	144*	1.5	2.5	2.2	2.5	7.9	1.74*
587727	727	1006	3.5	89*	2.0	3.0	2.0	2.5	11.1	2.37
587728	722	921	4.0*	147	2.0	3.0	2.2	2.5	8.8	2.24*



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587699	VII	48.9 <sup>w</sup>	17.0 <sup>w</sup>	11.3	3.0	22.4	56.3	7.0
587700A	VI	46.2 <sup>w</sup>	16.7 <sup>w</sup>	10.7	3.2	23.4	52.2	10.4
587700B	VI	45.2 <sup>w</sup>	17.3 <sup>w</sup>	11.2	3.1	23.6	54.5	7.5
587700C	VIII	48.2 <sup>w</sup>	16.0 <sup>w</sup>	12.0	3.0	19.9	57.4	7.7
587701	VII	46.2 <sup>w</sup>	17.5 <sup>w</sup>	11.6	3.6	23.7	54.4	6.7
587702	VI	44.0 <sup>w</sup>	17.5 <sup>w</sup>	11.6	3.3	22.3	54.7	8.1
587703B	VIII	46.7 <sup>w</sup>	16.6 <sup>w</sup>	10.2	3.1	18.9	60.0	7.9
587704	VI	46.5 <sup>w</sup>	16.4 <sup>w</sup>	11.5	4.0	28.2	50.1	6.2
587705A	VI	42.8 <sup>w</sup>	17.7 <sup>w</sup>	11.0	3.6	26.5	52.1	6.9
587705B	VI	43.8 <sup>w</sup>	17.4 <sup>w</sup>	11.5	3.5	22.9	54.0	8.1
587706	VI	44.4	19.0	11.8	3.1	21.9	56.6	6.6
587707	VII	45.5	16.3	12.7	3.2	25.2	52.9	6.0
587708	VII	44.2	17.8	12.7	3.9	24.7	52.7	6.0
587709A	VII	44.2	18.1	12.1	3.8	24.5	53.2	6.3
587709B	VII	44.8	18.9	12.7	3.1	22.6	55.8	5.8
587710	VII	45.2	17.1	11.7	3.5	21.5	56.3	7.0
587711	VI	45.4	16.3	13.1	3.3	25.5	51.0	7.1
587712A	V	45.5	16.8	12.2	3.6	25.8	51.9	6.6
587712B	V	45.6	16.9	12.1	3.3	20.7	55.7	8.2
587713	V	44.5	17.4	12.2	3.2	21.2	55.7	7.7
587714A	V	45.5	16.8	12.2	3.1	28.5	49.9	6.3
587714B	V	45.8	15.0	14.0	3.6	22.1	52.3	8.0
587715	V	47.0	16.0	12.5	3.5	26.3	51.7	6.0
587716A	IV	44.6 <sup>w</sup>	18.9 <sup>w</sup>	10.9	3.0	28.6	52.5	5.0
587716B	IV	50.2 <sup>w</sup>	16.0 <sup>w</sup>	11.7	3.8	34.7	44.2	5.6
587716C	V	44.1 <sup>w</sup>	17.9 <sup>w</sup>	11.5	3.1	25.7	54.5	5.2
587717	V	45.5	19.1	12.0	3.7	28.5	50.3	5.6
587718	V	44.5 <sup>w</sup>	16.6 <sup>w</sup>	12.6	4.1	28.8	48.4	6.1
587719A	V	46.8 <sup>w</sup>	16.4 <sup>w</sup>	12.0	4.2	25.8	51.5	6.5
587719B	V	44.6 <sup>w</sup>	16.6 <sup>w</sup>	12.2	3.8	25.8	52.0	6.2
587719C	VI	45.6	16.2	13.2	3.4	23.5	52.4	7.5
587720	VI	43.7 <sup>w</sup>	17.0 <sup>w</sup>	12.3	3.9	25.7	50.7	7.4
587721A	VI	45.4	15.8	11.9	3.6	21.2	54.9	8.4
587721B	VI	45.2 <sup>w</sup>	16.3 <sup>w</sup>	11.8	3.3	19.9	57.5	7.6
587721C	VI	45.4	16.0	11.3	3.6	22.2	54.6	8.3
587722	V	42.6	17.5	11.5	3.9	21.3	55.6	7.7
587723A	VI	46.3	16.5	12.2	3.3	21.2	55.0	8.3
587723B	VI	48.4	15.1	11.9	3.6	26.0	51.8	6.6
587724	V	46.2	14.6	13.9	3.6	20.9	53.2	8.5
587725A	VI	50.3	14.5	11.4	4.1	18.3	58.2	8.0
587725B	VI	46.8	17.1	13.2	3.6	21.1	54.3	7.8
587725C	VI	46.3 <sup>w</sup>	16.6 <sup>w</sup>	12.3	3.6	20.8	54.5	8.9
587726A	VII	46.4	14.7	11.7	3.4	19.6	58.4	6.9
587726B	VII	48.3	13.1	11.7	3.5	18.6	59.3	6.9
587727	VI	46.2	17.1	12.1	3.5	22.8	53.4	8.2
587728	V	46.4	16.3	13.3	3.5	24.3	52.7	6.2

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587729	Jun xian huang dou	Hubei	China	China	1994	V
587730B	(Ying shan mu zhu wo)	Hubei	China	China	1994	VIII
587730C	(Ying shan mu zhu wo)	Hubei	China	China	1994	VI
587731	Yun meng hua ye dou	Hubei	China	China	1994	VII
587732	Ying shan ji mu wo	Hubei	China	China	1994	VI
587733	Da wu ai jiao huang	Hubei	China	China	1994	VI
587734	Song zi yang huang dou	Hubei	China	China	1994	V
587735	Xiao gan huang dou	Hubei	China	China	1994	VI
587736A	Jing zhou dong huang dou	Hubei	China	China	1994	VI
587736B	(Jing zhou dong huang dou)	Hubei	China	China	1994	VI
587737	Da wu huang se dou	Hubei	China	China	1994	VI
587738	Jing huang 22	Hubei	China	China	1994	VI
587739A	Xing shan do dou	Hubei	China	China	1994	VII
587739B	(Xing shan do dou)	Hubei	China	China	1994	VII
587740	Jing huang No. 7	Hubei	China	China	1994	VI
587741	An lu niu mao huang	Hubei	China	China	1994	VII
587742A	An lu hong huang dou	Hubei	China	China	1994	VI
587742B	(An lu hong huang dou)	Hubei	China	China	1994	VI
587742C	(An lu hong huang dou)	Hubei	China	China	1994	VI
587743	An lu niu pi huang dou	Hubei	China	China	1994	VI
587744	xiang yang huang dou	Hubei	China	China	1994	V
587745	Tian men huang dong dou	Hubei	China	China	1994	VIII
587747	Ying shan tian e dan	Hubei	China	China	1994	VII
587748	Da wu liu yue bao	Hubei	China	China	1994	VIII
587749	Jing shan niu mao huang	Hubei	China	China	1994	VI
587750	Jing 1026	Hubei	China	China	1994	VII
587751	Nan zhang shan zi bai	Hubei	China	China	1994	VI
587752	Xian ning dong huang dou jia	Hubei	China	China	1994	V
587753A	Xian ning dong huang dou yi	Hubei	China	China	1994	V
587753B	(Xian ning dong huang dou yi)	Hubei	China	China	1994	V
587754	Wu chang dong huang dou	Hubei	China	China	1994	VII
587755	Yi chang ba yue huang	Hubei	China	China	1994	VI
587756	Huang pi hou zi mao	Hubei	China	China	1994	VII
587757A	Han chuan wu lu bai	Hubei	China	China	1994	VI
587757B	(Han chuan wu lu bai)	Hubei	China	China	1994	VI
587758	Wu chang huang dou	Hubei	China	China	1994	V
587759	Song zi ba yue cha	Hubei	China	China	1994	VII
587760	Dang yang xiao li dou	Hubei	China	China	1994	VII
587761	Ying shan tian e dan	Hubei	China	China	1994	VI
587762	Wu ming 22	Hubei	China	China	1994	VII
587763	Jing huang 36	Hubei	China	China	1994	VII
587764	Han chuan wu lu bai	Hubei	China	China	1994	VI
587765	Xiao gan hong mao huang dou	Hubei	China	China	1994	VII
587766	Jing 398	Hubei	China	China	1994	VI
587767A	Yun meng bai mao huang dou	Hubei	China	China	1994	VII
587767B	(Yun meng bai mao huang dou)	Hubei	China	China	1994	VII

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587729	V	D	W	T	A	N	Br	D	Y	Brbl		3N
587730B	VIII	N	P	T	A	N	Tn	I	Y	Br		3N
587730C	VI	N	W	T	A	N	Tn	I	Y	Br		3N
587731	VII	N	W	T	A	N	Br	I	Y	Br		3N
587732	VI	D	W	T	A	N	Tn	I	Y	Bl		2N
587733	VI	D	W	T	A	N	Tn	I	Y	Brbl		2N
587734	V	S	W	G	A	N	Tn	I	Y	Bf	Vhil	3N
587735	VI	D	W	G	A	N	Tn	I	Y	Bf		3N
587736A	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
587736B	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
587737	VI	D	P	T	A	N	Tn	I	Y	Brbl		2N
587738	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587739A	VII	N	W	G	A	N	Tn	D	Y	Bf		2N
587739B	VII	N	P	G	A	N	Tn	I	Y	Bf		3N
587740	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587741	VII	N	W	T	A	N	Tn	I	Y	Bl		2N
587742A	VI	N	P	T	A	N	Tn	I	Y	Br		2N
587742B	VI	N	W	G	A	N	Tn	I	Y	Bf		2N
587742C	VI	N	W	T	A	N	Tn	I	Y	Bl		2N
587743	VI	N	W	T	A	N	Tn	I	Y	Bl		2N
587744	V	N	W	T	A	N	Tn	I	Y	Brbl		2N
587745	VIII	N	P	G	A	N	Tn	I	Y	Bf		4N
587747	VII	N	W	T	A	N	Tn	I	Y	Brbl		2N
587748	VIII	N	W	G	A	N	Tn	I	Y	Bf		2N
587749	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587750	VII	N	P	T	A	N	Br	I	Y	Br		2N
587751	VI	N	P	T	A	N	Br	I	Y	Br		3N
587752	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
587753A	V	D	W	G	A	N	Lbr	I	Y	Bf		2N
587753B	V	D	W	G	A	N	Lbr	I	Y	Bf	Vhil	2N
587754	VII	N	P	T	A	N	Br	I	Y	Bl		3N
587755	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587756	VII	N	P	T	A	N	Br	I	Y	Br		4N
587757A	VI	D	W	G	A	N	Tn	I	Y	Bf		3N
587757B	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
587758	V	N	W	G	A	N	Br	I	Y	Bf	Lft5	2N
587759	VII	D	W	T	A	N	Tn	I	Y	Bl		2N
587760	VII	N	W	G	A	N	Tn	I	Y	Bf		2N
587761	VI	D	W	G	A	N	Tn	I	Y	Bf		3N
587762	VII	D	W	T	A	N	Tn	I	Y	Bl		2N
587763	VII	D	W	T	A	N	Tn	I	Y	Brbl		2N
587764	VI	D	W	T	A	N	Tn	I	Y	Bl		2N
587765	VII	N	W	T	A	N	Br	I	Y	Bl		3N
587766	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587767A	VII	N	W	T	A	N	Br	I	Y	Br		3N
587767B	VII	N	W	T	A	N	Br	I	Y	Br		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Shattering		Seed		Weight (cg sd <sup>-1</sup> )	Yield (Mg ha <sup>-1</sup> )
	date (mmdd)	date (mmdd)			early (score)	late (score)	Quality (score)	Mottling (score)		
587729	723	921	2.5	79	3.5	5.0	2.2	3.0	9.8	2.01
587730B	816	1028*	3.5	148	1.0	2.0	2.5	4.0	14.5	1.26*
587730C	731	1005	5.0	158	2.5	3.5	2.5	4.0	12.4	1.68
587731	814	1016	2.5	148*	1.5	2.5	2.5	3.0	13.1	2.15*
587732	731	1007	4.0	124*	1.0	2.0	2.2	4.5	14.6	3.06
587733	730	1003	3.5	110*	1.0	2.0	2.5	3.0	11.8	2.60
587734	719	923	4.0	146*	2.0	3.0	2.5	2.5	10.5	2.04*
587735	804	1010	2.5	99*	2.0	3.0*	2.5	3.5	14.0	1.87*
587736A	726	1006	3.5	93*	1.0	1.5	1.8*	1.0	11.0	2.41
587736B	726	1009	3.5	87	1.0	2.0^	1.8*	1.0	11.3	2.33
587737	726	1009	4.0	104*	2.0	3.0	2.2	3.0	10.8	2.79
587738	727	1006	3.0	133*	1.0	2.0	2.2	2.5	11.4	2.32
587739A	810	1019	4.0	174*	1.0	2.0	2.2	3.0*	11.9	1.15
587739B	810	1018	4.0	161	3.0	4.0	2.2*	2.0	12.5	0.57
587740	726	1006	3.5	88*	1.0	2.0	2.0	2.0	12.4	2.58
587741	808	1016	3.0*	138*	2.0*	3.0*	2.8	3.0	15.9	1.81*
587742A	726	1001	4.0	137	2.0	3.0	2.2	3.5	10.7	2.00
587742B	731	1008	4.0	131*	1.5	2.5	2.0	1.5	9.0	2.48
587742C	804	1009	4.0	110*	2.0	3.0	2.5	3.0	13.7	2.02
587743	804	1013	4.0	113	1.0	2.0	2.8	4.0	16.2	2.82
587744	720	1001	4.0	105	2.0	3.0	2.2	5.0	7.2	1.93
587745	824	1110*	4.0	152*	3.0	4.0^	2.8	2.5	12.0	0.86*
587747	806	1017	3.5	139*	1.5	2.5	2.5	2.5	15.0	1.90*
587748	812	1025	3.0	169*	1.0	2.0	2.2	2.5	11.8	1.78
587749	727	1009	3.0	87*	1.0	2.0	2.2	2.5	12.6	2.60
587750	818	1023	3.0	113	1.0	1.5	2.2	2.5	9.9	1.55
587751	802	1001	4.0	108*	3.0	4.0	2.2	4.0	7.7	1.72
587752	715	929	3.5	111	1.5	2.0*	2.5	1.5	12.4	2.41*
587753A	706	924	3.5	76	1.0	1.5	1.8	2.0*	11.6	1.86*
587753B	709	925	3.0*	78*	1.0	1.5	2.0	2.0*	11.6	2.08
587754	809	1017	3.0	96	3.0*	4.0*	2.5	3.5	14.3	1.94
587755	804	1011	2.5	90	2.0	3.5	2.2	3.0	19.2	2.09*
587756	816	1021	3.5	152	1.5	2.5	2.2	2.5	14.3	1.66
587757A	731	1012	3.5	111*	2.0	3.0	2.8*	2.5	15.8	1.84*
587757B	803	1009	3.5	116*	2.0	3.0	2.2	3.0	13.7	2.34*
587758	715	919	4.0	106	1.5	2.0	2.5	2.5	14.6	1.72
587759	803	1013	3.5	116	1.5	3.0	2.2	2.5	16.0	2.19*
587760	806	1014	3.5	120*	1.0	1.0	2.0	1.5	17.4	2.09*
587761	802	1010	4.5	122*	2.0	3.0	2.5	3.5	13.0	2.20
587762	805	1014	3.5	120*	1.5	3.0^	2.8	3.0	15.4	2.06
587763	805	1014	3.5	122	1.0	2.0	2.5	3.0	13.2	1.97
587764	804	1009	4.0	96	1.0	2.0	2.2	3.0	11.4	2.70
587765	814	1022*	3.5	117	2.0	3.0	2.5	3.0	12.8	1.45
587766	727	1007	3.0	80	1.0	2.0	2.2	2.5	13.2	2.46
587767A	806	1015	3.5	130*	1.0	2.0	2.2	3.5	15.9	2.11
587767B	814	1016	3.5	128	1.0	2.0	2.5	3.5	11.7	1.56*

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587729	V	44.6	16.0	12.6	3.1	26.1	51.2	7.1
587730B	VIII	47.0 <sup>w</sup>	16.4 <sup>w</sup>	11.5	3.9	19.6	57.4	7.6
587730C	VI	44.5 <sup>w</sup>	17.4 <sup>w</sup>	11.4	3.8	21.0	56.2	7.6
587731	VII	45.3	14.5	11.6	3.8	22.8	54.3	7.4
587732	VI	43.6 <sup>w</sup>	17.5 <sup>w</sup>	12.2	3.6	21.0	55.2	8.0
587733	VI	46.3	15.9	12.7	3.4	20.6	54.7	8.6
587734	V	44.1	17.7	12.7	3.6	29.2	48.1	6.4
587735	VI	46.1 <sup>w</sup>	16.2 <sup>w</sup>	12.3	3.2	19.8	55.1	9.5
587736A	VI	44.9	17.4	12.0	3.9	23.6	53.5	7.1
587736B	VI	44.3	17.8	12.0	3.7	23.0	54.1	7.1
587737	VI	44.7	16.2	12.0	3.4	19.5	57.9	7.3
587738	VI	47.6	16.3	12.4	3.6	24.5	52.2	7.3
587739A	VII	48.6 <sup>w</sup>	14.9 <sup>w</sup>	12.2	3.0	19.0	56.3	9.6
587739B	VII	48.7	14.2	13.2	3.7	22.8	53.3	7.1
587740	VI	43.4	18.6	12.3	3.5	23.5	53.8	7.0
587741	VII	44.4	17.4	12.0	3.5	22.3	55.4	6.8
587742A	VI	43.3	17.0	11.0	4.2	18.7	58.5	7.6
587742B	VI	43.3	17.5	11.7	3.5	19.8	56.2	8.8
587742C	VI	43.0	18.3	11.3	3.4	20.9	57.0	7.4
587743	VI	45.2 <sup>w</sup>	17.5 <sup>w</sup>	11.8	3.4	22.5	54.7	7.6
587744	V	37.3 <sup>w^</sup>	15.4 <sup>w^</sup>	12.0	4.2	22.4	53.1	8.4
587745	VIII	46.2	15.7	12.0	3.4	20.8	56.5	7.3
587747	VII	45.1	15.8	12.4	3.4	23.4	53.1	7.7
587748	VIII	46.2	16.8	11.1	3.6	20.3	57.9	7.2
587749	VI	45.9	17.8	12.7	3.7	25.2	51.6	6.7
587750	VII	47.8	14.0	12.1	3.5	17.2	59.0	8.3
587751	VI	42.8 <sup>w</sup>	16.5 <sup>w</sup>	12.6	3.3	19.6	54.7	9.8
587752	V	44.6	17.5	11.7	3.4	22.7	54.8	7.4
587753A	V	42.4	19.2	11.6	3.3	25.0	53.6	6.5
587753B	V	40.4 <sup>w</sup>	16.9 <sup>w</sup>	11.1	3.1	24.3	54.4	7.1
587754	VII	47.4 <sup>w</sup>	16.5 <sup>w</sup>	12.4	4.1	25.2	51.1	7.2
587755	VI	43.3	17.2	12.0	3.8	24.5	53.1	6.7
587756	VII	44.5	17.1	11.9	4.5	28.7	49.7	5.1
587757A	VI	46.9	16.3	12.8	3.7	23.0	53.4	7.1
587757B	VI	43.3	17.8	12.5	3.5	23.4	53.3	7.2
587758	V	44.9	18.7	12.3	3.3	27.5	49.9	7.0
587759	VII	43.6	17.8	11.6	3.6	24.9	53.8	6.1
587760	VII	46.1	16.8	12.8	4.0	22.3	53.8	7.0
587761	VI	45.0	16.3	11.4	3.2	23.0	54.2	8.2
587762	VII	41.8	18.2	11.8	3.6	24.4	53.9	6.4
587763	VII	41.7	18.2	11.8	3.6	23.5	54.6	6.6
587764	VI	46.3	16.3	11.0	3.2	21.2	56.4	8.2
587765	VII	48.3	16.2	12.1	4.0	25.2	52.2	6.5
587766	VI	45.7	17.6	12.0	3.4	25.4	52.1	7.1
587767A	VII	46.9 <sup>w</sup>	16.2 <sup>w</sup>	11.5	3.5	24.7	54.2	6.1
587767B	VII	46.4 <sup>w</sup>	15.8 <sup>w</sup>	11.7	3.4	20.2	56.4	8.3

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587768	Tong shan da huang dou	Hubei	China	China	1994	VI
587769	Wu chang zhu po dou	Hubei	China	China	1994	VI
587770	Jing men da mi dou zi	Hubei	China	China	1994	VII
587771	Jian li ai jiao huang	Hubei	China	China	1994	VIII
587772	Jing zhou gao jiao hou er bei	Hubei	China	China	1994	V
587773	Tian men xiao gan dou	Hubei	China	China	1994	V
587774	Xiao gan dou	Hubei	China	China	1994	VI
587775	Tong shan si ji dou	Hubei	China	China	1994	VII
587776	Han chuan wu lu bai	Hubei	China	China	1994	VII
587777	Wu ming 28	Hubei	China	China	1994	VIII
587778	Jing huang 18	Hubei	China	China	1994	VIII
587779	Jing huang 15	Hubei	China	China	1994	VIII
587780	Jing huang No. 5	Hubei	China	China	1994	VIII
587781	Jing huang 23	Hubei	China	China	1994	VIII
587782	Jing huang 32	Hubei	China	China	1994	VIII
587783	Ji mu wo	Hubei	China	China	1994	VIII
587784		Hubei	China	China	1994	VII
587785	Wu chang ba yue pao	Hubei	China	China	1994	VIII
587786	Xiang yang tian e dan	Hubei	China	China	1994	VIII
587787	Yi chang bai mao dou	Hubei	China	China	1994	VIII
587788A	Nan zhang hei huang dou	Hubei	China	China	1994	V
587788B	(Nan zhang hei huang dou)	Hubei	China	China	1994	VI
587788C	(Nan zhang hei huang dou)	Hubei	China	China	1994	VI
587789	Jing huang 494	Hubei	China	China	1994	VIII
587790A	Mian yang huang feng wo	Hubei	China	China	1994	VI
587790B	(Mian yang huang feng wo)	Hubei	China	China	1994	VII
587791	Mian yang ya dong bai	Hubei	China	China	1994	VII
587792	Gong an xin lin da dou	Hubei	China	China	1994	VIII
587793	Jing 654	Hubei	China	China	1994	VII
587794	Wu ming 18 jia	Hubei	China	China	1994	VI
587795	Xiao gan dou	Hubei	China	China	1994	VII
587796	Mian yang sai zhong qiu	Hubei	China	China	1994	V
587797	Yang xin hei da dou	Hubei	China	China	1994	VI
587798	Jing huang	Hubei	China	China	1994	VIII
587799	Wu chang zao huang dou	Hubei	China	China	1994	VIII
587800	Ying shan da li huang	Hubei	China	China	1994	VI
587801	Wu chang wu huang dou	Hubei	China	China	1994	VII
587802	Da li huang	Hubei	China	China	1994	VII
587803	Jing 748	Hubei	China	China	1994	V
587805	Tong shan san ji huang pi dou	Hubei	China	China	1994	V
587806A	Wu ming 24 yi	Hubei	China	China	1994	VI
587806B	(Wu ming 24 yi)	Hubei	China	China	1994	VI
587807	Wu chang bai hua dou	Hubei	China	China	1994	VI
587808A	Wu chang jiu yue huang	Hubei	China	China	1994	VII
587808B	(Wu chang jiu yue huang)	Hubei	China	China	1994	VII
587809A	Yuan yang dou	Hubei	China	China	1994	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587768	VI	N	W	G	A	N	Lbr	I	Y	Bf		2N
587769	VI	D	W	G	A	N	Br	I	Y	Bf		2N
587770	VII	N	P	T	A	N	Tn	I	Y	Br		3N
587771	VIII	N	P	T	A	N	Tn	I	Y	Br		4N
587772	V	S	W	G	E	N	Br	I	Y	Bf		3N
587773	V	S	W	G	A	N	Tn	I	Y	Bf		2N
587774	VI	N	W	T	A	Ssp	Tn	I	Y	Br		2N
587775	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587776	VII	N	W	T	A	N	Tn	I	Y	Br		3N
587777	VIII	N	P	G	A	N	Bl	I	Y	Bf		3N
587778	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587779	VIII	N	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587780	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587781	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587782	VIII	N	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587783	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587784	VII	N	P	G	A	N	Tn	I	Y	Bf		4N
587785	VIII	N	P	T	A	N	Tn	I	Y	Br		3N
587786	VIII	N	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587787	VIII	N	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587788A	V	D	P	T	A	N	Tn	I	Y	Bl		3N
587788B	VI	N	W	T	A	N	Tn	I	Y	Brbl		3N
587788C	VI	N	W	T	A	N	Tn	I	Y	Bl		2N
587789	VIII	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587790A	VI	N	P	T	A	N	Tn	I	Y	Brbl		3N
587790B	VII	D	W	T	A	N	Tn	I	Y	Bl		3N
587791	VII	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587792	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587793	VII	N	W	G	A	N	Lbr	I	Y	Bf		2N
587794	VI	N	P	G	A	N	Tn	I	Y	Bf		3N
587795	VII	N	P	G	A	N	Br	I	Y	Bf	Vhil	3N
587796	V	N	W	T	A	N	Tn	I	Y	Brbl		2N
587797	VI	D	W	T	A	N	Tn	I	Y	Br		2N
587798	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587799	VIII	N	P	G	A	N	Br	I	Y	Bf	Lft4	3N
587800	VI	N	W	T	A	Ssp	Br	I	Y	Br	Lft5, Vhil	2N
587801	VII	N	P	T	A	N	Br	I	Y	Br		4N
587802	VII	N	P	Lt	A	N	Tn	I	Y	Brbl	Lft4	3N
587803	V	N	W	G	A	N	Tn	I	Y	Bf		2N
587805	V	D	W	T	A	N	Tn	I	Y	Br		2N
587806A	VI	N	W	Lt	A	Ssp	Tn	I	Y	Brbl		3N
587806B	VI	N	P	Lt	Sa	Ssp	Tn	I	Y	Brbl		3N
587807	VI	D	P	T	A	N	Tn	I	Y	Br		3N
587808A	VII	N	W	T	A	N	Tn	I	Y	Brbl		3N
587808B	VII	N	P	Lt	A	N	Tn	I	Y	Brbl		3N
587809A	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587768	804	1012	4.0	149*	2.0	3.5	2.2	1.5	13.3	2.43
587769	730	1011	4.0	86*	1.0	2.0	2.5	2.0*	12.7	2.09
587770	814	1019	3.5	149	2.0	3.0	2.5	3.0	11.3	1.52
587771	814	1025	3.0	170	2.0	2.5	2.2	3.0	11.1	0.94
587772	724	1001	4.0	106	1.5	2.5	2.2	3.0*	9.4	1.86
587773	726	921	4.0	120*	2.5	3.0*	2.0	3.0	7.8	1.97
587774	805	1011	3.0	118	1.5	3.0	2.2	3.5	14.8	1.97*
587775	805	1017	3.5	123	1.0	2.0	2.2	3.5	17.4	1.76*
587776	813	1017	3.5	112	1.0	1.0	2.5	3.5	12.4	1.81*
587777	824	1028	3.0*	136	2.0	2.5	2.8	4.0	11.3	0.95*
587778	820	1107*	3.0*	143*	1.0	2.0	2.2	3.0	9.0	0.73
587779	807	1110	3.5	104	1.0	1.5	3.0	3.0	20.9	1.14
587780	813	1023	4.0	165*	1.0	2.0	2.0	1.5	13.5	1.39
587781	814	1028	3.5	146	1.0	1.0	2.0	2.0	12.0	1.12*
587782	811	1110	4.0	119	1.5	2.5	3.2	3.0	20.8	1.05
587783	825	1102	4.0	135*	1.0	1.0	2.5	3.5	11.4	0.79
587784	820	1023	3.5	120	1.0	1.5	2.2	2.5	10.3	0.80
587785	816	1025	3.5	170*	1.0	2.0	2.2	3.5	11.2	0.98
587786	810	1104*	3.5	121*	2.0*	2.5	2.8	2.5	19.3*	1.42*
587787	810	1111	3.5	104	1.0	2.5	2.8	2.5	18.5	1.05*
587788A	719	926	3.0	92	1.0	2.0	2.5	3.0	14.5	2.42
587788B	808	1006	4.0	126	1.0	2.0	2.2	2.5	10.8	2.17
587788C	803	1009	4.0	104	3.0	4.0	2.8	4.0	11.6	2.41*
587789	813	1110*	3.0	120	1.0	2.0	3.2	2.0	21.6	0.67
587790A	806	1011	3.5	168*	1.0	1.5	2.2	3.5	14.9	1.71*
587790B	804	1015	3.5	162*	1.0	1.5	2.0	2.0	13.1	2.35
587791	804	1017	3.0	108*	1.0	1.5	2.2	2.0	17.2	2.24
587792	811	1110*	3.0	108	1.5	2.0^	3.5	3.0	21.7	0.85*
587793	803	1017	3.0	134	1.5	1.5	1.8	2.0	11.8	1.72
587794	802	1011	3.0	124	1.0	1.5	2.0	2.0	12.9	1.86
587795	802	1017	5.0	162*	1.0	2.0	2.2*	2.5	11.5	1.95*
587796	725	924	4.0	152	2.0	3.0	2.8	3.5	9.4	1.80
587797	724	1010	4.0	107	2.0	3.0^	2.0	2.5	10.5	2.62
587798	819	1104*	3.0	134	1.0	2.0	2.2	3.0	10.9	1.20*
587799	820	1104*	3.0	139	1.0	2.0	2.2	3.0	11.6	1.85
587800	726	1001	3.5	119*	1.0	2.5	2.2*	2.0	14.7	2.28
587801	818	1021*	3.5	174*	2.0	3.0	2.8	3.0	13.3	1.32
587802	816	1023	3.5	194*	2.0	3.0	2.5	3.0	11.7	1.46
587803	725	921	3.0	136*	2.5	3.0	2.0	3.0	8.1	1.70*
587805	717	929	3.5	86	1.0	2.0	2.2	3.5	9.0	2.11
587806A	806	1011	4.0	146	3.0	4.0	2.8*	3.5	16.7	1.23*
587806B	804	1012	4.0	146	2.5	3.5	3.0	3.5	14.5	1.98
587807	802	1011	4.0	82	3.5	4.5	2.2	5.0	14.1	1.91
587808A	810	1018	4.0	128*	1.5	2.0*	2.5	2.5	16.0	2.37*
587808B	806	1017	4.0	150	2.0	3.0	3.0	3.0	19.2	1.80*
587809A	711	924	3.5	90	1.5	2.5	2.0	1.5	13.9	1.50*



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587768	VI	44.8	17.3	11.9	3.2	21.2	55.5	8.3
587769	VI	45.8	16.9	13.7	3.7	24.0	50.4	8.2
587770	VII	47.2	15.3	12.9	4.0	23.2	53.8	6.1
587771	VIII	47.5	15.4	11.6	4.0	20.4	56.3	7.8
587772	V	43.2	16.4	12.7	3.9	21.4	52.5	9.5
587773	V	44.9	15.5	13.6	3.7	19.7	54.1	8.9
587774	VI	46.2 <sup>w</sup>	16.2 <sup>w</sup>	12.5	3.3	22.7	54.0	7.6
587775	VII	46.4 <sup>w</sup>	17.6 <sup>w</sup>	11.4	3.4	21.4	56.5	7.2
587776	VII	45.6 <sup>w</sup>	15.7 <sup>w</sup>	11.1	3.5	20.1	56.6	8.6
587777	VIII	48.6 <sup>w</sup>	14.6 <sup>w</sup>	10.9	3.0	16.7	60.4	9.1
587778	VIII	57.4	9.0	14.3	3.2	17.0	57.0	8.8
587779	VIII	47.2	15.6	14.5	2.7	17.3	57.1	8.6
587780	VIII	50.5	15.4	11.7	3.2	23.3	53.7	8.1
587781	VIII	47.7	15.3	13.1	3.6	19.6	56.4	7.4
587782	VIII	45.8	16.0	13.3	4.2	16.8	57.1	8.6
587783	VIII	48.1 <sup>w</sup>	15.1 <sup>w</sup>	10.3	3.8	19.5	59.4	7.0
587784	VII	47.9	14.2	13.0	3.8	19.8	56.3	7.1
587785	VIII	47.0 <sup>w</sup>	15.6 <sup>w</sup>	10.4	3.5	18.9	59.5	7.6
587786	VIII	46.3	16.8	13.5	3.0	18.3	56.4	8.9
587787	VIII	47.6 <sup>^</sup>	15.7 <sup>^</sup>	12.1 <sup>^</sup>	3.2 <sup>^</sup>	17.8 <sup>^</sup>	57.4 <sup>^</sup>	9.5 <sup>^</sup>
587788A	V	45.0	16.9	13.0	3.1	23.2	53.1	7.6
587788B	VI	46.2	14.6	12.5	3.5	17.7	56.9	9.5
587788C	VI	46.4 <sup>w</sup>	16.1 <sup>w</sup>	12.5	3.3	19.1	57.3	7.8
587789	VIII	46.8	15.7	14.0	2.9	18.8	56.2	8.1
587790A	VI	46.5 <sup>w</sup>	17.0 <sup>w</sup>	12.4	3.4	22.5	53.7	8.0
587790B	VII	44.9	16.9	12.7	3.8	22.1	53.8	7.6
587791	VII	46.3	18.4	11.7	3.3	20.2	58.4	6.5
587792	VIII	46.2	16.5	13.6	2.9	18.5	56.9	8.2
587793	VII	46.9	16.9	11.5	3.9	21.7	56.1	6.8
587794	VI	45.7	17.0	11.3	2.9	22.1	57.2	6.5
587795	VII	49.4	14.9	11.3	3.6	20.7	58.2	6.3
587796	V	43.8 <sup>w</sup>	14.4 <sup>w</sup>	13.5	3.4	25.0	51.6	6.5
587797	VI	47.6	16.3	11.9	3.3	22.0	54.3	8.5
587798	VIII	49.6	13.5	11.7	3.0	18.8	58.6	8.1
587799	VIII	48.8	15.2	12.2	2.9	18.9	57.9	8.3
587800	VI	44.6	16.2	10.2	3.5	22.3	56.4	7.5
587801	VII	46.1	15.8	11.8	4.3	23.2	54.6	6.1
587802	VII	45.2	16.3	11.6	4.1	22.8	55.0	6.5
587803	V	45.1	15.2	14.0	3.9	21.0	52.9	8.1
587805	V	40.1 <sup>w</sup>	14.3 <sup>w</sup>	11.7	3.4	27.7	49.9	7.2
587806A	VI	45.2 <sup>w</sup>	16.4 <sup>w</sup>	11.5	2.7	23.9	54.7	7.2
587806B	VI	45.4 <sup>w</sup>	16.7 <sup>w</sup>	11.6	2.9	21.4	56.2	7.9
587807	VI	43.5 <sup>w</sup>	15.9 <sup>w</sup>	11.5	3.1	19.8	57.0	8.6
587808A	VII	45.4	17.4	12.4	3.3	23.3	54.3	6.7
587808B	VII	44.8	17.9	12.7	3.5	23.0	53.6	7.1
587809A	V	44.7	18.9	11.5	3.9	28.3	50.7	5.6

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587809B	(Yuan yang dou)	Hubei	China	China	1994	V
587810	Ya lao ke	Hubei	China	China	1994	VIII
587811A	Tie jiao zi	Hubei	China	China	1994	VIII
587812A	Huang da dou	Hubei	China	China	1994	VII
587812B	(Huang da dou)	Hubei	China	China	1994	VII
587813	Yi duo yun	Hubei	China	China	1994	VI
587814A	Ba yue dou	Hubei	China	China	1994	V
587814B	(Ba yue dou)	Hubei	China	China	1994	V
587814C	(Ba yue dou)	Hubei	China	China	1994	VI
587814D	(Ba yue dou)	Hubei	China	China	1994	VII
587814E	(Ba yue dou)	Hubei	China	China	1994	VII
587814F	(Ba yue dou)	Hubei	China	China	1994	VI
587814G	(Ba yue dou)	Hubei	China	China	1994	VI
587815A	Hong mao za dou	Hubei	China	China	1994	VII
587815B	(Hong mao za dou)	Hubei	China	China	1994	VI
587816	Bai mao dou	Hubei	China	China	1994	VI
587817	Wu lu bai	Hubei	China	China	1994	VI
587818	Jiu yue han	Hubei	China	China	1994	VII
587819	En shi niu mao dou	Hubei	China	China	1994	V
587820A	En shi ji dan huang	Hubei	China	China	1994	V
587820B	(En shi ji dan huang)	Hubei	China	China	1994	V
587821A	Ben di zao huang dou	Hubei	China	China	1994	V
587821B	(Ben di zao huang dou)	Hubei	China	China	1994	V
587823	Jing shan qing da dou	Hubei	China	China	1994	VI
587824	Ying shan qing pi cao	Hubei	China	China	1994	VI
587825A	E huang 13	Hubei	China	China	1994	VI
587825B	(E huang 13)	Hubei	China	China	1994	VI
587826	Da wu qing pi dou No. 2	Hubei	China	China	1994	VI
587827	Nan zhang qing huang dou	Hubei	China	China	1994	VII
587828	Xiang yang qing dou	Hubei	China	China	1994	VII
587829	E huang No. 9	Hubei	China	China	1994	VII
587830A	An lu dong hua huang dou	Hubei	China	China	1994	VII
587830B	(An lu dong hua huang dou)	Hubei	China	China	1994	VIII
587831	Yun an qing huang dou	Hubei	China	China	1994	VII
587833	Jing men shu hou zi	Hubei	China	China	1994	VII
587834	Yun an qing pi dou	Hubei	China	China	1994	VII
587835	Huang dou	Hubei	China	China	1994	VI
587836	Tong shan qi yue huang	Hubei	China	China	1994	V
587837	Wu chang qing da dou	Hubei	China	China	1994	VII
587838	Mian yang ji mu dun	Hubei	China	China	1994	VII
587839A	Han chuan fen qing huang dou	Hubei	China	China	1994	VI
587839B	(Han chuan fen qing huang dou)	Hubei	China	China	1994	VI
587839C	(Han chuan fen qing huang dou)	Hubei	China	China	1994	VI
587840	Du wo dou	Hubei	China	China	1994	VII
587841A	Shan zi bai	Hubei	China	China	1994	VI
587841B	(Shan zi bai)	Hubei	China	China	1994	VI

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587809B	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
587810	VIII	D	P	G	A	N	Br	I	Y	Ib	Vhil	3N
587811A	VIII	N	P	G	A	N	Dbr	I	Y	Bf	Lft5	3N
587812A	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587812B	VII	N	P	T	A	N	Br	I	Y	Br		4N
587813	VI	N	W	T	A	N	Tn	I	Y	Br		2N
587814A	V	D	W	T	E	N	Br	I	Y	Bl		2N
587814B	V	D	W	T	Sa	N	Br	I	Y	Bl		2N
587814C	VI	D	W	T	A	Ssp	Tn	I	Y	Bl		2N
587814D	VII	D	W	T	Sa	N	Tn	I	Y	Bl		3N
587814E	VII	N	W	G	A	N	Tn	I	Y	Bf		3N
587814F	VI	D	W	G	Sa	N	Tn	I	Y	Bf		2N
587814G	VI	D	W	T	Sa	N	Tn	I	Y	Bl		2N
587815A	VII	N	W	Lt	A	N	Tn	I	Y	Brbl	Lft5	2N
587815B	VI	N	W	T	A	N	Tn	I	Y	Brbl	Lft4,5	2N
587816	VI	D	W	T	A	N	Tn	I	Y	Brbl		2N
587817	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
587818	VII	N	W	G	A	N	Tn	I	Y	Bf		3N
587819	V	S	W	T	A	N	Tn	I	Y	Brbl	Vhil	2N
587820A	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
587820B	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
587821A	V	D	W	G	A	N	Br	I	Y	Bf		2N
587821B	V	D	W	G	A	N	Br	I	Y	Bf		2N
587823	VI	D	W	T	A	N	Br	D	Gn	Brbl	Vhil	3N
587824	VI	N	W	G	A	N	Br	I	Gn	Bf		3N
587825A	VI	D	W	T	A	Ssp	Br	I	Gn	Brbl		3N
587825B	VI	D	W	T	A	Ssp	Br	I	Gn	Brbl		2N
587826	VI	D	W	T	A	N	Br	I	Gn	Br		3N
587827	VII	N	W	T	A	N	Tn	I	Gn	Br		4N
587828	VII	N	W	T	E	N	Br	I	Lgn	Bl		4N
587829	VII	N	P	T	A	Ssp	Br	I	Gn	Br		2N
587830A	VII	N	W	G	A	N	Tn	I	Y	Bf		3N
587830B	VIII	N	W	G	A	N	Tn	I	Lgn	Bf	Vsc	3N
587831	VII	N	P	T	A	Ssp	Br	I	Gn	Br		2N
587833	VII	N	P	T	A	Ssp	Br	I	Gn	Br		2N
587834	VII	D	P	T	A	Ssp	Br	I	Gn	Br		2N
587835	VI	D	W	T	A	N	Br	I	Gn	Brbl		3N
587836	V	D	P	T	A	Ssp	Br	I	Gn	Bl		2N
587837	VII	N	W	G	A	N	Br	I	Gn	Bf		3N
587838	VII	D	W	T	A	N	Br	I	Gn	Br		2N
587839A	VI	D	W	T	A	N	Br	I	Gn	Br		3N
587839B	VI	D	W	T	A	N	Br	I	Gn	Br		3N
587839C	VI	D	W	T	A	N	Br	I	Gn	Br		3N
587840	VII	N	W	T	A	N	Br	I	Gn	Br	Lft5	3N
587841A	VI	D	W	T	Sa	N	Dbr	I	Gn	Brbl	Vhil	3N
587841B	VI	D	W	T	A	N	Dbr	I	Gn	Brbl	Vhil	3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587809B	711	925	3.0	84	2.0	3.0	2.0	1.5	13.7	1.58*
587810	812	1108*	3.0	111	1.0	1.5	3.0	3.0	21.1	1.21*
587811A	824	1108*	3.0	134	1.0	2.0	3.0	4.0*	12.1	0.90*
587812A	811	1023	3.5	182*	1.0	2.5	2.2	3.5	11.3	1.29*
587812B	818	1023	3.5	170	1.5	3.0^	2.2	3.5	11.4	1.19*
587813	804	1013	4.0	141*	2.0	3.0	2.5	3.0	15.2	2.44*
587814A	713	925	2.5	80	1.0	2.0	2.5	2.5	14.9*	2.42*
587814B	715	925	2.5	73	1.0	1.5	2.5	1.5	15.0	2.09
587814C	726	1006	3.0	100	2.0	3.0	2.2*	2.5	14.6	2.82
587814D	802	1017	4.0	122	1.0	2.0	3.0	3.5	15.1	1.91*
587814E	804	1017	4.0	111	1.0	2.0	2.8*	3.0	14.1	2.23*
587814F	802	1012	4.0	114*	2.0	3.0	2.8*	3.0	13.5	2.44*
587814G	804	1014	4.0	132	1.0	2.0	2.2	3.0	13.9	2.59*
587815A	730	1017	4.0	124*	1.0	1.5	1.5^	2.0^	14.6	2.86
587815B	801	1013	4.0	146*	1.5	2.5	2.2*	2.5	16.4	2.52*
587816	806	1013	5.0	112*	2.0	3.0	2.5	3.5	14.1	2.25
587817	802	1009	4.0	127	2.0	3.0	2.5	4.0	14.0	2.38
587818	816	1023	3.5	131*	1.5	2.0*	2.5	2.5	12.9	1.19*
587819	726	928	3.5	88	1.5	2.5	2.0	3.5	9.3	1.78
587820A	711	926	2.5	74	1.0	1.5	2.8	2.0	17.3	2.16
587820B	725	927	3.0	92	1.5	2.5	2.5	3.0	11.3	2.35
587821A	720	921	3.0	80	1.0	2.0	2.2	1.5	9.9	1.81
587821B	725	927	3.5	74*	1.5	2.0^	2.2	2.0*	10.1	1.91
587823	731	1006	4.0	90	2.0	3.5	2.0	2.5	15.2	2.22
587824	802	1013	4.0	115*	2.0	3.5	3.0	3.0	20.6	1.69
587825A	729	1002	3.0	82*	2.0	3.0	2.0	2.5	11.2	1.80
587825B	729	1003	3.5	78	2.0	3.0	1.8	2.5	10.8	2.09
587826	731	1011	4.0	107*	1.0	2.0	2.2	2.0	16.6	2.46
587827	812	1021	2.5	147	1.5	2.0	2.5	2.5	12.3	0.80
587828	820	1023	4.0	121*	1.5	2.5	2.8	5.0	7.0	0.48
587829	814	1017	3.5	104	1.0	3.0	2.0	2.5	11.0	2.22*
587830A	812	1013	3.5	138*	1.5	1.5	2.8	3.0	13.8*	1.76
587830B	811	1104*	4.0	139*	1.0	1.5	2.5	4.0	15.1	1.19
587831	814	1017	3.5	168*	1.0	2.0	1.8	2.0	11.3	2.24*
587833	810	1019	3.5	140	1.0	2.0	2.0	2.5	11.1	2.42*
587834	813	1016	4.0^	125*	2.0	3.0^	2.0	2.0	10.3	2.81*
587835	731	1002	4.0	116*	1.0	2.0	2.0	2.0	11.5	2.01
587836	719	925	3.0	65	2.0	3.0	2.5	2.5	16.5	2.12
587837	812	1019	3.5	124*	2.0	3.0	2.8	3.0	12.6	1.84
587838	808	1015	3.0	110	1.0	2.0	2.0	3.0	16.4	2.25
587839A	730	1009	4.0	106*	1.0	1.5	2.2	2.0	16.2	2.12
587839B	730	1011	4.0	104*	1.0	1.5	2.2	2.5	16.4	1.97
587839C	729	1011	4.0	114*	1.0	1.5	2.5	2.0	16.0	2.01
587840	808	1017	3.5	140	1.0	2.0	2.8	3.0	19.0	1.87
587841A	730	1007	3.0	98*	1.5	2.5	2.0	2.5	10.2	2.17
587841B	801	1009	4.0	105	1.0	2.0	2.0	3.0	10.4	2.31

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587809B	V	43.3	19.0	11.6	3.7	24.5	53.8	6.3
587810	VIII	46.4	16.4	13.1	2.7	18.7	56.7	8.8
587811A	VIII	48.6 <sup>w</sup>	15.0 <sup>w</sup>	10.4	2.8	16.3	61.8	8.7
587812A	VII	44.9 <sup>w</sup>	17.6 <sup>w</sup>	11.3	3.6	17.8	59.8	7.5
587812B	VII	46.1 <sup>w</sup>	16.8 <sup>w</sup>	10.7	3.4	17.6	60.3	8.0
587813	VI	45.2	17.9	11.6	3.4	24.0	54.5	6.5
587814A	V	45.1	16.7	12.0	3.4	22.6	55.3	6.6
587814B	V	45.4	16.9	12.3	3.6	23.1	55.1	5.9
587814C	VI	43.1	16.8	11.3	3.0	23.3	55.4	6.9
587814D	VII	45.0 <sup>w</sup>	17.2 <sup>w</sup>	11.3	3.1	21.7	56.1	7.8
587814E	VII	45.3	16.8	11.7	3.3	22.0	55.8	7.3
587814F	VI	45.1	15.3	12.7	3.6	19.2	56.7	7.8
587814G	VI	43.4	16.0	11.9	3.6	22.6	54.3	7.6
587815A	VII	43.5 <sup>^</sup>	18.1 <sup>^</sup>	11.3 <sup>^</sup>	3.1 <sup>^</sup>	20.2 <sup>^</sup>	57.5 <sup>^</sup>	7.9 <sup>^</sup>
587815B	VI	44.3	18.3	10.5	3.4	24.6	55.0	6.5
587816	VI	45.5 <sup>w</sup>	16.2 <sup>w</sup>	12.8	3.6	19.3	55.0	9.3
587817	VI	45.0 <sup>w</sup>	16.2 <sup>w</sup>	11.9	3.4	22.7	53.3	8.7
587818	VII	44.6	15.1	13.6	4.0	22.7	52.4	7.3
587819	V	38.1 <sup>w</sup>	18.0 <sup>w</sup>	12.3	3.9	27.2	50.4	6.3
587820A	V	46.4	18.0	12.2	3.5	24.3	54.0	6.0
587820B	V	47.8	17.0	11.5	3.6	30.1	49.4	5.4
587821A	V	49.2	15.6	11.4	3.3	20.9	57.6	6.8
587821B	V	49.1	15.9	11.5	3.3	19.7	58.6	6.9
587823	VI	46.0 <sup>w</sup>	15.7 <sup>w</sup>	10.8	3.2	24.1	53.6	8.4
587824	VI	43.7 <sup>w</sup>	18.2 <sup>w</sup>	10.9	3.5	24.8	52.9	7.8
587825A	VI	45.3 <sup>w</sup>	16.7 <sup>w</sup>	11.6	3.4	23.0	54.0	7.9
587825B	VI	44.4 <sup>w</sup>	17.6 <sup>w</sup>	11.8	3.8	25.1	51.8	7.5
587826	VI	44.4 <sup>w</sup>	15.9 <sup>w</sup>	11.6	3.4	23.0	52.9	9.1
587827	VII	48.8 <sup>w</sup>	15.2 <sup>w</sup>	10.9	3.4	18.9	58.5	8.3
587828	VII	46.2 <sup>w^</sup>	15.1 <sup>w^</sup>	12.3	3.4	17.1	58.3	9.0
587829	VII	44.7 <sup>w</sup>	17.4 <sup>w</sup>	11.2	3.8	22.6	55.5	6.8
587830A	VII	47.2	16.6	12.4	3.9	24.2	53.1	6.4
587830B	VIII	47.6 <sup>w</sup>	14.9 <sup>w</sup>	10.1	3.2	25.8	54.7	6.2
587831	VII	45.1 <sup>w</sup>	18.6 <sup>w</sup>	11.5	3.8	23.4	55.1	6.2
587833	VII	43.0 <sup>w</sup>	18.1 <sup>w</sup>	10.8	3.4	24.3	55.0	6.4
587834	VII	42.8 <sup>w</sup>	18.0 <sup>w</sup>	10.6	3.5	21.7	57.3	7.0
587835	VI	43.8 <sup>w</sup>	17.2 <sup>w</sup>	11.6	3.4	26.4	51.3	7.3
587836	V	39.2 <sup>w</sup>	17.8 <sup>w</sup>	11.1	3.1	25.0	53.8	7.0
587837	VII	43.6 <sup>w</sup>	17.3 <sup>w</sup>	11.0	3.4	19.9	57.4	8.2
587838	VII	45.0 <sup>w</sup>	18.6 <sup>w</sup>	11.2	3.3	18.9	57.6	8.9
587839A	VI	43.8 <sup>w</sup>	16.9 <sup>w</sup>	11.3	3.1	23.1	53.3	9.1
587839B	VI	43.8 <sup>w</sup>	16.3 <sup>w</sup>	11.4	3.2	22.9	54.7	7.8
587839C	VI	45.3 <sup>w</sup>	15.7 <sup>w</sup>	9.9	3.6	24.7	53.0	8.8
587840	VII	41.5 <sup>w</sup>	16.6 <sup>w</sup>	11.9	3.6	22.2	54.7	7.6
587841A	VI	43.6 <sup>w</sup>	16.6 <sup>w</sup>	11.0	3.2	21.3	56.9	7.7
587841B	VI	44.3 <sup>w</sup>	17.0 <sup>w</sup>	11.6	3.5	22.6	54.3	8.1

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587842	Hei zui	Hubei	China	China	1994	VI
587843		Hubei	China	China	1994	VII
587844A	Tong cheng hei se dou	Hubei	China	China	1994	VI
587844B	(Tong cheng hei se dou)	Hubei	China	China	1994	VI
587844C	(Tong cheng hei se dou)	Hubei	China	China	1994	VII
587846A	An lu hong huang dou No. 2	Hubei	China	China	1994	V
587846B	(An lu hong huang dou No. 2)	Hubei	China	China	1994	VI
587847	Tong shan niu gan dou	Hubei	China	China	1994	VI
587848	Wu chang hei dong dou	Hubei	China	China	1994	V
587849	Zei mo xiao	Zhejiang	China	China	1994	VIII
587850	Wan huang dou	Zhejiang	China	China	1994	VIII
587851A	Hong mao jia	Zhejiang	China	China	1994	VIII
587852	Bai mao shu shu dou	Zhejiang	China	China	1994	VII
587853	Duan jia ai jiao huang	Zhejiang	China	China	1994	VII
587854A	Duan jia ai jiao huang	Zhejiang	China	China	1994	VII
587854B	(Duan jia ai jiao huang)	Zhejiang	China	China	1994	VIII
587855	Jia bai jia	Zhejiang	China	China	1994	VIII
587857	Ai zi huang	Zhejiang	China	China	1994	VI
587858	Dao tian huang	Zhejiang	China	China	1994	VIII
587859	Xiang zi huang dou	Zhejiang	China	China	1994	VIII
587860	Qi yue bai	Zhejiang	China	China	1994	V
587862A	Zei wu yao	Zhejiang	China	China	1994	VIII
587862B	(Zei wu yao)	Zhejiang	China	China	1994	VIII
587862C	(Zei wu yao)	Zhejiang	China	China	1994	VII
587862D	(Zei wu yao)	Zhejiang	China	China	1994	VIII
587863A	Liu yue bai	Zhejiang	China	China	1994	VII
587863B	(Liu yue bai)	Zhejiang	China	China	1994	VII
587864A	Qing pi ai jiao	Zhejiang	China	China	1994	VI
587864B	(Qing pi ai jiao)	Zhejiang	China	China	1994	VI
587865	Ba yue bai	Zhejiang	China	China	1994	VII
587866	Ba yue bai	Zhejiang	China	China	1994	VI
587867	Jiu yue huang	Zhejiang	China	China	1994	VII
587868	Jiu yue huang	Zhejiang	China	China	1994	VI
587869	Ba yue huang	Zhejiang	China	China	1994	VII
587870	Huang pi dou	Zhejiang	China	China	1994	VII
587871	Bao mao dou	Zhejiang	China	China	1994	VII
587872	Ba yue bai	Zhejiang	China	China	1994	VII
587873	Feng wo dou	Zhejiang	China	China	1994	VIII
587874	Ba yue dou	Zhejiang	China	China	1994	VIII
587875	Huang pi dou	Zhejiang	China	China	1994	VIII
587876	Xi mao dou	Zhejiang	China	China	1994	VII
587877A	Jiu yue zao	Zhejiang	China	China	1994	VI
587878	Shang tian huang	Zhejiang	China	China	1994	VII
587879	Shang tian huang	Zhejiang	China	China	1994	VII
587880A	Huang dou	Zhejiang	China	China	1994	VI
587880B	(Huang dou)	Zhejiang	China	China	1994	VI

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587842	VI	N	W	G	A	N	Br	I	Gn	Bf	Lft5	3N
587843	VII	N	W	T	A	N	Br	I	Gn	Br		2N
587844A	VI	D	P	T	A	Ssp	Br	I	Bl	Bl	Sdef	3N
587844B	VI	D	W	T	A	N	Tn	I	Bl	Bl		3N
587844C	VII	D	W	T	A	N	Br	I	Bl	Bl		3N
587846A	V	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
587846B	VI	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	3N
587847	VI	D	W	T	A	Ssp	Tn	I	Br	Rbr	Sdef	3N
587848	V	S	P	T	A	N	Br	I	Rbr	Rbr	Sdef	3N
587849	VIII	N	P	T	A	N	Br	I	Y	Br		3N
587850	VIII	N	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	3N
587851A	VIII	N	W	T	A	Ssp	Br	I	Y	Brbl		2N
587852	VII	D	P	G	A	N	Tn	I	Y	Bf		2N
587853	VII	D	P	T	A	Ssp	Tn	I	Y	Br	Lft5	3N
587854A	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl	Lft4,5	3N
587854B	VIII	N	W	T	A	N	Br	I	Y	Br	Lft5	3N
587855	VIII	S	P	G	A	N	Tn	I	Y	Bf		3N
587857	VI	D	P	T	A	Ssp	Lbr	I	Y	Br		2N
587858	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587859	VIII	N	P	G	A	N	Br	I	Y	Bf		3N
587860	V	D	P	G	A	N	Tn	D	Y	Bf		2N
587862A	VIII	D	P	G	A	N	Br	I	Y	Bf		3N
587862B	VIII	D	P	G	A	N	Br	I	Y	Bf		3N
587862C	VII	D	P	T	A	N	Br	I	Y	Brbl		3N
587862D	VIII	N	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
587863A	VII	D	P	T	A	N	Tn	I	Y	Brbl		3N
587863B	VII	D	P	T	A	N	Tn	I	Y	Brbl		2N
587864A	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587864B	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587865	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587866	VI	N	P	G	A	Ssp	Br	I	Y	Bf		3N
587867	VII	N	P	T	A	Ssp	Br	I	Y	Bl		2N
587868	VI	N	P	T	A	Ssp	Tn	I	Y	Br		3N
587869	VII	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587870	VII	D	P	T	A	Ssp	Br	I	Y	Brbl	Lft5, Vhil	2N
587871	VII	D	P	T	A	N	Tn	I	Y	Brbl	Lft4,5, Vhil	3N
587872	VII	N	P	T	A	Ssp	Br	I	Y	Br		4N
587873	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
587874	VIII	N	P	G	A	N	Tn	D	Y	Bf		3N
587875	VIII	N	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
587876	VII	N	P	T	A	Ssp	Tn	I	Y	Brbl		3N
587877A	VI	D	P	T	A	N	Tn	I	Y	Br		3N
587878	VII	D	P	T	A	Ssp	Br	I	Y	Brbl		2N
587879	VII	N	P	T	A	Ssp	Tn	I	Y	Br		3N
587880A	VI	N	P	T	A	Ssp	Br	I	Y	Br	Lft5	3N
587880B	VI	N	P	T	A	Ssp	Br	I	Y	Br	Lft5	3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587842	808	1012	4.0*	125	2.0	3.0	2.5	2.5	20.3	1.70
587843	806	1017	3.5	115	2.5	3.5	2.2	3.0	19.9	2.09
587844A	727	1007	3.0	68	1.0	2.5	2.5	--	19.4	2.13
587844B	802	1013	4.0	110*	1.0	2.0	2.2*	--	15.1	2.97
587844C	803	1014	3.5	126*	1.0	2.5	2.8	--	15.6	2.26
587846A	726	1003	3.0	72	1.0	1.5	2.8	--	15.4	2.52
587846B	725	1003	2.5	78	1.0	1.5	2.8*	--	16.1	2.51
587847	801	1009	4.0	127	2.5	3.5	2.5	--	14.3	2.15
587848	707	923	3.5	109*	1.5	2.5	2.8	--	21.8	1.95
587849	812	1104*	3.0	146*	1.5	2.5	2.2	2.5	19.7	1.72*
587850	818	1110	3.0	133	1.0	1.5	2.2*	2.0	20.1	1.58*
587851A	818	1106*	4.0	126	1.0	1.0	2.5	2.5	19.4	1.10*
587852	804	1014	3.0	109	1.0	2.0	2.5	2.5	15.3	2.19*
587853	811	1017	2.5	110	1.5	2.5	2.5	3.0	19.7	1.88
587854A	808	1017	2.5	109	2.0	2.5	2.8	2.5	16.8	1.62
587854B	812	1106*	4.0	153	1.0	1.5	2.5	3.5	17.8	1.25*
587855	820	1110	4.0	142	1.0	1.5	2.2*	1.5	19.6	0.94*
587857	804	1011	2.5	102	1.0	2.0	1.8	3.5	15.0	2.14
587858	820	1110	3.5	138	1.0	1.0	2.2*	1.0	19.8	1.28*
587859	820	1110	3.0	118	1.0	2.0 <sup>^</sup>	2.8	2.5	19.7	1.15*
587860	715	929	3.0	110*	3.5	4.5	2.5	2.0	19.1	2.04*
587862A	806	1107*	3.0	109*	1.0	1.5	2.5	2.0	18.2	1.60*
587862B	806	1031	3.0	116	1.0	1.5	2.8*	1.5	16.2	1.44*
587862C	803	1019	3.0	96	1.5	3.0	2.2	2.5	16.2	1.94*
587862D	810	1110	4.0	122	1.5	3.0	2.8	3.0	18.7	1.19
587863A	813	1023	3.5	122*	1.5	3.0*	2.5	2.0	14.4	1.08
587863B	804	1017	2.5	104	1.5	3.0*	2.5	2.0	16.0	2.00
587864A	806	1009	3.0	93*	2.5	3.5	2.5	3.0	19.1*	1.94
587864B	804	1011	3.0	94*	2.5	3.0	2.5	3.0	19.8	1.62
587865	806	1017	3.0*	119	1.5	2.0 <sup>^</sup>	2.8*	3.0	21.1*	1.96
587866	806	1011	2.5	107	1.5	2.0	2.5	2.0	18.6*	1.50
587867	810	1020	3.5	129	1.5	2.0	2.5	2.0	18.2	1.89*
587868	804	1012	2.0	151*	2.0*	2.5*	2.2	3.0	20.3*	1.30
587869	810	1015	3.0*	125	2.0	3.0	2.2	2.5	19.7*	1.97*
587870	810	1014	4.0*	132*	1.5	2.5	1.5	1.5	13.4*	2.06
587871	802	1013	2.5	86*	1.5	2.0	2.0	2.5	19.0*	2.43
587872	809	1015	3.5	117	2.0*	3.0*	1.8	1.5	16.9*	1.87
587873	820	1023	3.0	112	1.5	3.0	2.5	2.0	21.1	1.47*
587874	820	1028	3.0	122*	2.0	3.0	2.5	1.5	14.8*	0.99*
587875	816	1028	3.0	114*	2.0	3.0	2.2*	1.5	17.2	1.08*
587876	806	1014	3.5	99*	2.0*	3.0*	1.8	3.0*	16.3	2.08*
587877A	809	1011	2.0	76	2.0*	3.0*	2.2	3.0	21.5	1.99*
587878	802	1016	2.0	130*	2.0	3.0	2.0	1.0	15.7	1.71
587879	806	1016	3.0	128*	2.0*	3.0*	2.2	2.5	18.3*	1.71*
587880A	802	1009	2.5	138	2.5	3.5	2.2	4.0	17.5*	1.45
587880B	801	1009	2.5	138	2.5	3.5	2.5	3.5	16.7*	1.65



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587842	VI	45.2 <sup>w</sup>	17.4 <sup>w</sup>	11.7	3.4	23.2	53.8	7.8
587843	VII	45.8 <sup>w</sup>	18.2 <sup>w</sup>	10.1	3.2	19.8	59.3	7.6
587844A	VI	46.1 <sup>w^</sup>	16.7 <sup>w^</sup>	10.8	3.0	19.3	58.9	8.0
587844B	VI	46.4 <sup>w^</sup>	17.3 <sup>w^</sup>	10.6	3.1	24.8	54.2	7.3
587844C	VII	44.4 <sup>w^</sup>	19.0 <sup>w^</sup>	11.9	3.3	21.5	55.7	7.6
587846A	V	35.1 <sup>w^</sup>	18.8 <sup>w^</sup>	11.8	3.6	20.5	56.3	7.8
587846B	VI	45.3 <sup>w</sup>	17.7 <sup>w</sup>	11.4	3.5	19.9	56.7	8.6
587847	VI	44.3 <sup>w</sup>	17.4 <sup>w</sup>	11.7	3.4	24.0	52.8	8.1
587848	V	31.7 <sup>w^</sup>	17.4 <sup>w^</sup>	11.7	3.1	29.7	50.1	5.5
587849	VIII	47.1	16.2	12.4	3.2	21.4	55.1	7.9
587850	VIII	46.3	15.9	12.7	3.4	20.0	55.0	9.0
587851A	VIII	45.3	17.0	11.4	3.5	22.1	56.5	6.6
587852	VII	45.0	17.6	12.1	3.7	22.3	55.0	6.9
587853	VII	47.5	16.6	11.9	3.9	22.1	55.8	6.3
587854A	VII	46.2	17.5	12.1	3.9	21.3	56.3	6.4
587854B	VIII	46.8 <sup>w</sup>	16.0 <sup>w</sup>	11.5	3.1	19.5	58.1	7.8
587855	VIII	46.6	16.3	12.9	3.3	19.6	56.1	8.3
587857	VI	45.7 <sup>w</sup>	18.2 <sup>w</sup>	11.5	3.5	20.8	57.1	7.2
587858	VIII	46.7	15.0	12.1	3.1	19.9	56.3	8.6
587859	VIII	47.7	15.1	13.4	3.0	19.3	56.4	7.9
587860	V	45.9	16.6	12.2	2.9	27.4	51.0	6.4
587862A	VIII	45.5	15.9	13.2	3.0	20.3	55.4	8.1
587862B	VIII	46.5	15.9	12.9	3.2	18.7	57.4	7.9
587862C	VII	45.9	17.7	12.9	3.8	25.6	51.6	6.1
587862D	VIII	47.4	15.0	12.6	3.6	20.8	55.5	7.4
587863A	VII	46.4	17.3	12.0	3.6	21.1	56.7	6.6
587863B	VII	43.9	18.1	11.5	3.8	24.2	54.5	6.0
587864A	VI	45.1	17.0	12.3	3.7	22.5	54.7	6.8
587864B	VI	44.8	17.0	12.1	3.6	22.6	54.7	7.0
587865	VII	46.1	17.0	12.2	3.6	21.9	55.6	6.7
587866	VI	45.9	17.0	13.0	3.7	22.9	53.8	6.7
587867	VII	45.5	17.6	12.1	4.1	23.0	54.4	6.4
587868	VI	45.6	16.8	12.5	3.9	26.8	50.9	5.9
587869	VII	45.0	17.4	11.9	2.9	20.9	56.6	7.7
587870	VII	46.9	17.6	12.5	3.4	24.5	52.4	7.3
587871	VII	45.9	17.2	12.4	2.7	19.7	57.1	8.1
587872	VII	45.9	17.1	13.0	3.1	24.2	52.9	6.8
587873	VIII	49.1	15.0	12.5	3.6	23.1	53.6	7.3
587874	VIII	45.5 <sup>^</sup>	16.5 <sup>^</sup>	11.4 <sup>^</sup>	4.4 <sup>^</sup>	19.6 <sup>^</sup>	56.4 <sup>^</sup>	8.2 <sup>^</sup>
587875	VIII	45.6	16.0	13.1	3.6	22.3	53.8	7.4
587876	VII	47.1 <sup>w</sup>	18.6 <sup>w</sup>	11.6	3.8	25.3	52.9	6.5
587877A	VI	43.6	17.7	12.7	2.7	21.1	56.0	7.6
587878	VII	44.1	17.7	12.2	3.5	22.4	54.8	7.0
587879	VII	46.0	17.8	13.1	3.4	23.8	53.4	6.3
587880A	VI	46.3 <sup>w</sup>	17.1 <sup>w</sup>	10.5	3.1	21.5	56.9	8.0
587880B	VI	46.4	17.1	11.9	3.0	22.6	55.0	7.5

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587881	Da dou	Zhejiang	China	China	1994	VI
587882	Ba yue ba	Zhejiang	China	China	1994	VII
587883A	Jiu yue lao shu dou	Zhejiang	China	China	1994	VII
587883B	(Jiu yue lao shu dou)	Zhejiang	China	China	1994	VII
587884	Ba yue huang	Zhejiang	China	China	1994	VII
587885	Bai dou	Zhejiang	China	China	1994	VIII
587886	Bai dou	Zhejiang	China	China	1994	VI
587887A	Feng wo dou	Zhejiang	China	China	1994	VIII
587887B	(Feng wo dou)	Zhejiang	China	China	1994	VIII
587887C	(Feng wo dou)	Zhejiang	China	China	1994	VIII
587888	Bao luo huang	Zhejiang	China	China	1994	VII
587889	Qing pi dou	Zhejiang	China	China	1994	VIII
587890A	Qi yue qing	Zhejiang	China	China	1994	VIII
587891A	Qi yue ba	Zhejiang	China	China	1994	VII
587891B	(Qi yue ba)	Zhejiang	China	China	1994	VIII
587892A	Dou qing	Zhejiang	China	China	1994	V
587892B	(Dou qing)	Zhejiang	China	China	1994	VI
587892C	(Dou qing)	Zhejiang	China	China	1994	VII
587894	Ba yue bai	Zhejiang	China	China	1994	VII
587895	Qing pi dou	Zhejiang	China	China	1994	VI
587897	Qing pi dou	Zhejiang	China	China	1994	VII
587898	Jiang xi dou	Zhejiang	China	China	1994	VII
587899	Ba yue bai	Zhejiang	China	China	1994	VII
587900A	Xiao huang dou	Zhejiang	China	China	1994	VIII
587900B	(Xiao huang dou)	Zhejiang	China	China	1994	VIII
587900C	(Xiao huang dou)	Zhejiang	China	China	1994	VIII
587900D	(Xiao huang dou)	Zhejiang	China	China	1994	VIII
587901	Qing pi dou	Zhejiang	China	China	1994	VII
587903A	Hei da dou	Zhejiang	China	China	1994	VIII
587903B	(Hei da dou)	Zhejiang	China	China	1994	VIII
587904	Shan bai dou	Zhejiang	China	China	1994	VI
587905	Xiao huang dou	Zhejiang	China	China	1994	VII
587913A	You dou	Zhejiang	China	China	1994	VII
587913B	(You dou)	Zhejiang	China	China	1994	VIII
587915A	Bai mao jian	Zhejiang	China	China	1994	VI
587915B	(Bai mao jian)	Zhejiang	China	China	1994	VII
587915C	(Bai mao jian)	Zhejiang	China	China	1994	VIII
587915D	(Bai mao jian)	Zhejiang	China	China	1994	VIII
587925	Tian dou	Zhejiang	China	China	1994	VII
587926	Da li qing dou	Zhejiang	China	China	1994	VIII
587930	Qiu dou	Zhejiang	China	China	1994	VIII
587966A	Gan gu huang No. 2	Sichuan	China	China	1994	VIII
587966B	(Gan gu huang No. 2)	Sichuan	China	China	1994	VIII
587966D	(Gan gu huang No. 2)	Sichuan	China	China	1994	VIII
587968A	Bai jiao dou	Sichuan	China	China	1994	V
587968B	(Bai jiao dou)	Sichuan	China	China	1994	IV

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587881	VI	N	P	T	A	Ssp	Br	I	Y	Br		3N
587882	VII	N	P	T	A	Ssp	Br	I	Y	Br		3N
587883A	VII	N	P	T	A	Ssp	Br	I	Y	Br	Lft5	3N
587883B	VII	N	P	T	A	Ssp	Br	I	Y	Br	Lft4,5	3N
587884	VII	N	P	T	A	Ssp	Br	I	Y	Br	Lft5	3N
587885	VIII	D	W	G	A	N	Br	I	Y	Bf	Lft5	3N
587886	VI	N	P	Lt	A	Ssp	Br	I	Y	Br		2N
587887A	VIII	N	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
587887B	VIII	N	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
587887C	VIII	N	P	T	A	N	Tn	I	Y	Brbl		3N
587888	VII	D	P	T	A	Ssp	Tn	I	Y	Br		2N
587889	VIII	N	W	T	Va	Ssp	Tn	I	Lgn	Br	Sdef	3N
587890A	VIII	N	P	T	A	N	Tn	I	Gn	Brbl		3N
587891A	VII	N	P	T	A	Ssp	Br	I	Gn	Br		4N
587891B	VIII	N	P	T	A	Ssp	Br	I	Gn	Brbl		3N
587892A	V	D	W	T	A	N	Br	I	Gn	Br		2N
587892B	VI	D	W	T	A	Ssp	Br	I	Y	Br		3N
587892C	VII	D	P	T	A	N	Br	I	Gn	Brbl		3N
587894	VII	D	P	T	A	N	Tn	I	Lgn	Br	Lft4,5	3N
587895	VI	D	P	G	A	N	Br	I	Gn	Bf		3N
587897	VII	N	P	T	A	Ssp	Br	I	Gn	Br		2N
587898	VII	N	P	T	A	N	Br	I	Gn	Brbl		3N
587899	VII	D	P	T	A	Ssp	Br	I	Gn	Brbl	Lft5	2N
587900A	VIII	N	P	G	A	N	Br	I	Gn	Bf	Sdef	3N
587900B	VIII	N	P	T	A	N	Br	I	Gn	Brbl		3N
587900C	VIII	N	P	T	A	Ssp	Br	I	Gn	Brbl		3N
587900D	VIII	N	P	T	A	N	Br	D	Gn	Brbl	Sdef	3N
587901	VII	N	P	T	A	N	Br	I	Gn	Brbl		3N
587903A	VIII	N	P	T	A	Ssp	Bl	I	Bl	Bl	Snet	3N
587903B	VIII	N	P	T	A	Ssp	Bl	I	Bl	Bl	Snet	3N
587904	VI	N	P	T	A	Sp	Bl	I	Br	Br	Def, Lft4,5	3N
587905	VII	D	P	T	A	Ssp	Br	I	Y	Br		2N
587913A	VII	N	P	T	A	N	Tn	I	Gn	Br	Lft5	3N
587913B	VIII	N	P	T	A	N	Tn	I	Gn	Br	Sdef	2N
587915A	VI	D	P	G	A	Ssp	Tn	S	Gn	Bf		3N
587915B	VII	N	P	T	A	N	Tn	I	Gn	Brbl	Vhil	3N
587915C	VIII	N	W	T	A	N	Tn	I	Gn	Brbl	Vhil	3N
587915D	VIII	N	P	T	A	N	Tn	I	Lgn	Br	Vsc	3N
587925	VII	N	W	T	A	N	Tn	D	Gn	Brbl	Vhil	3N
587926	VIII	N	P	T	A	Ssp	Br	I	Gn	Brbl		3N
587930	VIII	D	P	T	A	N	Br	I	Gn	Brbl		3N
587966A	VIII	D	P	G	Sa	N	Br	I	Y	Bf		3N
587966B	VIII	D	W	Lt	E	Ssp	Br	I	Y	Br		3N
587966D	VIII	D	P	Lt	Sa	Ssp	Br	I	Y	Br		3N
587968A	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
587968B	IV	D	P	T	A	N	Br	I	Y	Brbl		2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587881	808	1011	3.5	133	3.0*	4.0*	1.8*	1.5	15.9*	1.88
587882	810	1013	3.5	133	3.5	4.5	2.0	1.0	15.8*	1.89
587883A	810	1019	3.5	140	1.5	3.0*	2.0	2.5	15.2*	1.95*
587883B	810	1020	3.0*	149	1.5	2.5	2.2	2.0	16.9	2.09*
587884	810	1020	3.5	138	2.0*	2.5	2.2	2.5	16.1*	1.85*
587885	822	1104*	2.5	96*	2.0	3.0	3.0	3.5	12.8	0.64*
587886	728	1011	3.5	145	2.0	3.0^	2.5	3.5	17.4*	1.90
587887A	820	1107*	4.0	132	2.5	3.5	2.5	3.0	19.1*	1.17
587887B	814	1104*	4.0	141*	3.0	4.0	2.5	3.0	16.2	1.46*
587887C	820	1028	4.0	198*	3.0	4.0	3.2	4.0	13.8	1.28*
587888	802	1017	2.5	94*	1.0	2.0	2.2	3.0	17.6	2.13
587889	814	1029	3.5	144	1.0	1.0	2.8	2.0	22.6	0.93
587890A	819	1106*	4.0	156	1.0	2.0	3.0	3.0	15.5	1.38*
587891A	808	1013	3.5	149*	2.0*	3.0	2.5	2.0	15.8*	1.53
587891B	820	1110	4.0	148	2.0	3.0	3.2	4.0	15.3	0.86*
587892A	717	923	3.5	73	1.0	2.0	2.0	1.5	15.4	2.26
587892B	802	1011	2.5	113	1.5	2.0	2.2	2.5	16.0	2.35*
587892C	730	1017	3.0	138*	2.0	3.0	2.0	3.0	20.2*	1.77*
587894	814	1018	3.0	120	1.5	2.0	2.5	3.0	17.0*	1.64*
587895	730	1001	3.0	111*	3.5	4.5	2.0	1.5	16.3	1.95
587897	808	1018	4.0	136	1.0	2.0	2.8	2.0	19.4	2.29*
587898	819	1023	3.5	157	1.5	2.0	2.8	2.0	26.0*	1.29
587899	729	1013	3.5	90	2.5	3.5	2.2	2.5	21.0*	1.91*
587900A	818	1108*	3.5	150	1.0	1.5	3.0	2.0	16.2	1.36*
587900B	820	1108*	4.0	152	1.0	2.0	3.0	3.5	14.2	0.74
587900C	819	1104*	4.0	160*	1.5	2.5	4.0^	4.0^	21.1*	1.27^
587900D	804	1104*	4.0	162	1.0	1.5	3.2	3.5	17.9*	1.00
587901	811	1022	3.5	144	1.5	2.0	2.5	1.0	24.5*	2.19*
587903A	824	1108*	3.5	135*	1.5	2.5	2.5	--	18.9*	0.92*
587903B	820	1110	4.5	161*	1.5	2.5	2.5	--	20.4*	1.21*
587904	730	1003	3.5	120	1.5	2.0	3.0	--	13.8	1.68
587905	814	1019	3.0	107*	2.5	3.5	2.0	2.5	11.1	1.71*
587913A	805	1021	3.5	126*	2.0	2.5	2.8	3.5	18.6	0.91
587913B	809	1022	4.0	119*	2.0	3.0	2.8*	2.5	23.9	0.91
587915A	729	1008	3.0	93	2.0	3.0	2.5	1.5	22.9	2.47
587915B	814	1019	4.0	147*	2.0	3.0	2.5	3.5	15.9	1.55*
587915C	814	1105*	4.0	143	2.0	3.0^	3.5	4.5	22.8	0.69
587915D	814	1025	4.0	158*	2.0	3.0	3.0	3.0	19.6	0.86*
587925	731	1019	4.0	130	1.0	2.0	2.8	3.5	20.8	1.59*
587926	810	1102	4.5	150	1.5	-	2.5^	3.0^	15.7^	0.59^
587930	810	1020	4.0	103*	1.5	2.5	2.5	2.5	15.8	1.85^
587966A	802	1021*	2.5	105	2.0	3.0	2.0	3.5	13.0	1.90^
587966B	810	1029	4.0	127	2.0	3.0	2.0	4.5	13.3	2.11^
587966D	810	1110	3.0	114*	2.0	3.0^	2.8	4.0*	12.7	1.51^
587968A	717	915	2.5	74	2.5	3.0	2.0	2.0	10.8	1.18
587968B	711	917	1.5	77	1.5	2.5	2.0	2.5	10.9	1.16

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587881	VI	44.5	17.4	13.2	3.0	25.1	52.3	6.5
587882	VII	43.8	17.3	12.8	3.0	24.7	52.9	6.8
587883A	VII	45.3	17.6	11.8	3.2	25.3	53.2	6.5
587883B	VII	46.1	16.8	11.5	3.6	27.1	52.1	5.7
587884	VII	46.2	16.6	11.9	3.1	25.9	52.7	6.4
587885	VIII	47.0 <sup>w</sup>	14.5 <sup>w</sup>	11.2	3.4	21.5	55.9	8.0
587886	VI	44.6 <sup>w</sup>	16.5 <sup>w</sup>	10.8	3.0	21.1	57.1	8.1
587887A	VIII	46.4	16.2	13.0	3.6	23.7	52.7	7.1
587887B	VIII	44.7	15.8	12.5	3.5	22.5	53.7	7.8
587887C	VIII	43.4 <sup>w</sup>	14.9 <sup>w</sup>	11.3	3.5	22.7	54.2	8.2
587888	VII	45.1	17.3	13.3	3.1	22.8	53.7	7.3
587889	VIII	45.1 <sup>w</sup>	15.5 <sup>w</sup>	12.9	3.2	20.1	54.5	9.4
587890A	VIII	44.7 <sup>w</sup>	16.1 <sup>w</sup>	11.0	2.7	16.1	59.2	11.0
587891A	VII	45.4 <sup>w</sup>	15.9 <sup>w</sup>	10.9	3.8	25.4	53.0	6.9
587891B	VIII	44.5 <sup>w</sup>	15.7 <sup>w</sup>	11.1	3.1	16.7	58.1	11.0
587892A	V	42.5 <sup>w</sup>	16.3 <sup>w</sup>	12.1	3.3	25.0	52.6	7.0
587892B	VI	48.0	15.6	12.1	3.2	20.7	55.6	8.4
587892C	VII	45.6 <sup>w</sup>	15.7 <sup>w</sup>	11.6	3.7	20.9	55.3	8.6
587894	VII	46.6 <sup>w</sup>	16.8 <sup>w</sup>	11.4	3.6	22.9	53.9	8.1
587895	VI	46.7 <sup>w</sup>	16.2 <sup>w</sup>	11.8	3.6	24.8	52.0	7.8
587897	VII	46.2 <sup>w</sup>	17.0 <sup>w</sup>	13.1	2.8	17.2	58.9	8.0
587898	VII	46.2 <sup>w</sup>	17.1 <sup>w</sup>	12.1	3.7	22.5	54.1	7.6
587899	VII	49.7 <sup>w</sup>	15.8 <sup>w</sup>	11.2	3.3	19.8	57.5	8.2
587900A	VIII	49.2 <sup>w</sup>	15.2 <sup>w</sup>	10.9	3.1	15.9	59.5	10.5
587900B	VIII	46.3 <sup>w</sup>	16.2 <sup>w</sup>	11.1	2.9	15.7	58.6	11.7
587900C	VIII	46.7 <sup>w^</sup>	16.8 <sup>w^</sup>	10.9 <sup>^</sup>	3.3 <sup>^</sup>	20.1 <sup>^</sup>	56.2 <sup>^</sup>	9.5 <sup>^</sup>
587900D	VIII	47.0 <sup>w</sup>	16.2 <sup>w</sup>	10.9	2.8	16.5	58.9	10.9
587901	VII	44.9 <sup>w</sup>	18.1 <sup>w</sup>	11.6	3.1	19.9	57.8	7.6
587903A	VIII	46.3 <sup>w^</sup>	16.4 <sup>w^</sup>	10.8	3.7	18.0	58.9	8.7
587903B	VIII	47.8 <sup>w^</sup>	15.9 <sup>w^</sup>	11.1	3.7	17.0	59.1	9.1
587904	VI	47.3 <sup>w</sup>	15.9 <sup>w</sup>	11.3	3.1	24.7	52.2	8.6
587905	VII	46.8	14.8	13.1	3.6	21.5	54.5	7.3
587913A	VII	49.2 <sup>w</sup>	15.7 <sup>w</sup>	11.1	3.4	22.0	56.2	7.3
587913B	VIII	47.1 <sup>w</sup>	16.9 <sup>w</sup>	10.8	3.2	20.9	57.1	7.9
587915A	VI	46.1 <sup>w</sup>	15.3 <sup>w</sup>	12.2	2.6	22.0	54.9	8.4
587915B	VII	43.5 <sup>w</sup>	18.6 <sup>w</sup>	10.7	3.8	22.6	54.8	8.1
587915C	VIII	46.3 <sup>w</sup>	16.4 <sup>w</sup>	10.1	3.5	20.3	57.2	8.9
587915D	VIII	47.2 <sup>w</sup>	16.5 <sup>w</sup>	11.2	3.2	22.3	55.2	8.1
587925	VII	46.0 <sup>w</sup>	17.0 <sup>w</sup>	10.7	3.3	21.5	56.3	8.3
587926	VIII	49.2 <sup>w^</sup>	15.9 <sup>w^</sup>	11.2 <sup>^</sup>	3.6 <sup>^</sup>	20.0 <sup>^</sup>	57.5 <sup>^</sup>	7.6 <sup>^</sup>
587930	VIII	48.1 <sup>w</sup>	14.6 <sup>w</sup>	11.6	3.3	19.8	56.7	8.6
587966A	VIII	46.8 <sup>w</sup>	15.9 <sup>w</sup>	11.0	3.1	16.6	60.6	8.7
587966B	VIII	46.6 <sup>w</sup>	16.3 <sup>w</sup>	11.0	2.9	17.5	59.7	8.9
587966D	VIII	50.0 <sup>^</sup>	15.2 <sup>^</sup>	11.8 <sup>^</sup>	3.5 <sup>^</sup>	17.8 <sup>^</sup>	59.0 <sup>^</sup>	7.9 <sup>^</sup>
587968A	V	46.0	16.6	11.9	3.3	26.4	51.3	7.1
587968B	IV	49.1	16.4	12.4	3.8	24.1	53.3	6.4

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587968C	(Bai jiao dou)	Sichuan	China	China	1994	V
587969	Pu le lu lan zi No. 3	Sichuan	China	China	1994	V
587970A	Da huang dou	Sichuan	China	China	1994	V
587970B	(Da huang dou)	Sichuan	China	China	1994	V
587971	Da zao huang	Sichuan	China	China	1994	V
587972	Chang zi dou	Sichuan	China	China	1994	VI
587973A	Ji mu dou	Sichuan	China	China	1994	V
587973B	(Ji mu dou)	Sichuan	China	China	1994	V
587974	Gan gu huang	Sichuan	China	China	1994	VI
587975	Jie huang dou No. 1	Sichuan	China	China	1994	V
587976B	(Huang dou)	Sichuan	China	China	1994	IV
587976C	(Huang dou)	Sichuan	China	China	1994	V
587976D	(Huang dou)	Sichuan	China	China	1994	IV
587978A	Dong dou	Sichuan	China	China	1994	IX
587978B	(Dong dou)	Sichuan	China	China	1994	IX
587979A	Wu zhua dou	Sichuan	China	China	1994	IV
587979B	(Wu zhua dou)	Sichuan	China	China	1994	IV
587984A	Bai shui dou	Sichuan	China	China	1994	V
587984B	(Bai shui dou)	Sichuan	China	China	1994	IV
587985A	Bao mao dou No. 2	Sichuan	China	China	1994	IV
587985B	(Bao mao dou No. 2)	Sichuan	China	China	1994	V
587986A	Da bai dou	Sichuan	China	China	1994	V
587986B	(Da bai dou)	Sichuan	China	China	1994	V
587987B	(Da li dong dou)	Sichuan	China	China	1994	V
587987C	(Da li dong dou)	Sichuan	China	China	1994	IV
587988A	Bai mao dou	Sichuan	China	China	1994	VII
587988B	(Bai mao dou)	Sichuan	China	China	1994	VII
587990	Shui bai dou	Sichuan	China	China	1994	V
587992A	Jiu yue huang	Sichuan	China	China	1994	VII
587992B	(Jiu yue huang)	Sichuan	China	China	1994	VII
587992C	(Jiu yue huang)	Sichuan	China	China	1994	VII
587992D	(Jiu yue huang)	Sichuan	China	China	1994	VII
587992E	(Jiu yue huang)	Sichuan	China	China	1994	VII
587992F	(Jiu yue huang)	Sichuan	China	China	1994	VII
587992G	(Jiu yue huang)	Sichuan	China	China	1994	VIII
587993	Bai huang dou	Sichuan	China	China	1994	VII
587994A	Huang dou	Sichuan	China	China	1994	V
587994B	(Huang dou)	Sichuan	China	China	1994	V
587995	Tian kan dou No. 1	Sichuan	China	China	1994	V
587996A	Ji wo dou	Sichuan	China	China	1994	V
587996B	(Ji wo dou)	Sichuan	China	China	1994	VII
587996D	(Ji wo dou)	Sichuan	China	China	1994	VI
587997A	Ba yue huang	Sichuan	China	China	1994	VI
587997B	(Ba yue huang)	Sichuan	China	China	1994	VI
587998A	Cheng guan ba yue huang	Sichuan	China	China	1994	IV
587998B	(Cheng guan ba yue huang)	Sichuan	China	China	1994	IV

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587968C	V	D	W	G	A	N	Br	I	Y	Bf		2N
587969	V	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
587970A	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
587970B	V	D	W	G	A	N	Br	I	Y	Lbf		2N
587971	V	D	W	T	A	N	Br	I	Y	Brbl		2N
587972	VI	D	P	T	A	N	Tn	D	Y	Br		2N
587973A	V	D	W	T	A	Ssp	Br	I	Y	Tn		2N
587973B	V	D	P	T	A	N	Tn	I	Y	Br		2N
587974	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
587975	V	D	W	G	A	Ssp	Tn	I	Y	Bf	Vhil	2N
587976B	IV	D	P	G	Sa	N	Tn	I	Y	Bf		2N
587976C	V	D	W	Lt	E	N	Br	I	Y	Brbl		2N
587976D	IV	N	P	T	E	Ssp	Tn	I	Y	Br		2N
587978A	IX	N	W	G	A	N	Br	I	Y	Bf		3N
587978B	IX	N	W	G	Sa	N	Br	I	Y	Bf		3N
587979A	IV	D	W	T	A	N	Dbr	I	Y	Brbl		2N
587979B	IV	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
587984A	V	S	W	T	Sa	N	Br	I	Y	Brbl		3N
587984B	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
587985A	IV	D	W	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
587985B	V	S	W	T	A	N	Br	I	Y	Brbl		3N
587986A	V	S	W	T	A	N	Br	I	Y	Br		2N
587986B	V	S	W	Lt	Sa	N	Br	I	Y	Br		2N
587987B	V	D	W	T	Sa	Ssp	Br	I	Y	Br		2N
587987C	IV	S	W	G	E	Ssp	Br	I	Y	Lbf		2N
587988A	VII	N	P	T	E	N	Br	I	Y	Br		3N
587988B	VII	D	P	G	E	N	Br	I	Y	Bf		3N
587990	V	D	W	G	Va	Ssp	Tn	I	Y	Bf		2N
587992A	VII	D	W	Lt	Sa	N	Br	I	Y	Brbl		2N
587992B	VII	D	W	G	E	N	Br	I	Y	Bf		2N
587992C	VII	D	W	G	E	N	Br	I	Bf	Bf	Abh	3N
587992D	VII	D	W	T	E	N	Br	I	Y	Blbr	Vhil	2N
587992E	VII	N	W	T	Sa	N	Br	I	Y	Blbr	Vhil	2N
587992F	VII	D	W	T	Sa	N	Br	I	Y	Bl		2N
587992G	VIII	D	W	Lt	E	N	Br	I	Y	Brbl	Vhil	2N
587993	VII	N	P	G	E	N	Br	I	Y	Bf		3N
587994A	V	D	W	T	E	N	Br	I	Y	Br		3N
587994B	V	D	W	T	E	N	Br	I	Y	Br		3N
587995	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
587996A	V	D	W	G	E	N	Tn	S	Y	Bf		3N
587996B	VII	D	W	Lt	E	N	Br	I	Y	Br		3N
587996D	VI	D	W	G	Sa	Ssp	Tn	I	Y	Bf		3N
587997A	VI	N	P	T	A	N	Br	I	Y	Brbl		3N
587997B	VI	N	W	T	A	N	Br	I	Y	Br		2N
587998A	IV	D	P	G	A	N	Br	I	Y	Bf		2N
587998B	IV	D	W	G	Sa	N	Br	I	Y	Bf	Vhil	2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587968C	709	918	1.5	60	2.5	3.5	2.2*	1.5	13.6*	1.82
587969	711	919	3.0	95*	1.5	2.5	2.2*	2.5	12.5*	1.40
587970A	711	923	3.0	76	1.0	1.5	2.2	1.5	15.0	1.98*
587970B	711	923	3.5	76	1.0	1.5	2.2*	1.5	15.3	1.81
587971	711	922	4.0	80	1.0	2.0	2.2	2.0	13.2	1.79
587972	725	1001	3.5	80	2.0	3.5	2.0	5.0	8.3	1.89
587973A	720	1001	3.5	48	1.0	1.0	2.2	3.0*	8.8	1.54
587973B	724	1001	2.5*	70	1.0	1.5	2.5	5.0	8.2	1.63
587974	727	1010	3.0	79*	2.0	3.5	2.2*	3.0	10.3	1.74
587975	723	929	2.0	50	1.0	2.0	1.8*	1.5	10.3	1.92
587976B	718^	915^	3.0^	56^	2.0^	3.0^	1.5^	2.0^	9.6^	0.74^
587976C	711	915	2.0*	70*	2.5	3.0	2.8*	3.0*	12.8*	1.53
587976D	711	909	3.0	77*	3.0	3.5	2.0	4.0*	9.8	0.99
587978A	821	1118	4.0	122*	2.0	3.0	2.2	2.0	14.7	1.02*
587978B	904	1118	4.0	144	2.0	3.0	1.5^	3.0^	12.4	0.61^
587979A	711	917	3.5	69*	2.0	2.5	2.2	2.5	8.6	1.63
587979B	707	829	1.5	55	3.0	4.0	2.2*	2.5	11.1	1.22
587984A	711^	917^	3.0^	66^	2.0^	3.0^	2.0^	2.0^	9.9^	1.39^
587984B	712	917	1.5	80	2.0	3.0	2.2*	2.5	11.8*	1.58
587985A	713	917	2.0*	76	2.0	2.5	2.2*	2.0	12.1*	1.33
587985B	708	915	2.0*	89	2.0	3.0	2.0	2.0	12.5*	1.86
587986A	711	917	2.0*	78*	1.5	3.0	2.0	2.5	12.9*	1.63
587986B	709	915	1.5	84	2.0	3.0	2.0	2.0	13.4*	1.90
587987B	714^	915^	2.0^	60^	1.0^	2.0^	1.5^	2.0^	11.4^	1.41^
587987C	708^	911^	2.0^	62^	1.0^	2.0^	2.0^	1.0^	14.8^	1.71^
587988A	804	1019	2.5	114	1.5	2.0	2.5	3.0	11.9	1.40
587988B	731	1021	3.0	106	1.5	3.0	2.2	3.0	12.2	1.33
587990	711	930	3.0	64	1.5	4.0^	2.5	1.5	21.1*	1.72
587992A	727	1016	3.0	102*	2.0	3.0	2.0	3.0	10.2	1.43
587992B	727	1015	2.0	100*	2.0	3.0	2.0	1.5	10.8	1.61*
587992C	727	1017	2.5	95	2.0*	3.0*	2.0	--	11.0	1.62
587992D	722	1023	3.0	116	2.5	3.5	2.2	2.5	11.6	1.41
587992E	730	1015	3.0	104	2.0	3.0	2.2	3.0	10.8	1.23
587992F	727	1017	3.5	101	1.5	2.5	2.5	5.0	10.2	1.05
587992G	801	1025	3.0	100*	1.5	2.5	2.8	5.0	13.0	1.75^
587993	810	1021	4.0	122*	2.0	2.5	2.5	3.0*	12.8	0.76*
587994A	701	925	2.0	64	2.0	3.5	2.8	2.0	18.9*	0.80
587994B	705	929	2.0	58	2.0	3.0	2.5	2.0	19.4*	0.98
587995	711	921	2.5	78	1.0	1.5	2.0	1.5	14.6	1.96
587996A	709	921	1.5	60	2.5	3.5	3.0	3.0	10.6	1.19
587996B	806	1015	3.0	100*	2.5	3.5	2.2	4.5	9.5	1.06
587996D	723	1006	2.0	92	2.5	3.5	2.2	3.0	12.2	1.64
587997A	705	1007	3.0	120*	3.0	4.5	2.2	3.0	12.2	1.85*
587997B	730	1014	3.0	100	2.5	3.5	2.5	3.5	14.0	1.68
587998A	710	911	1.5	49	2.5	3.5	2.2*	2.0	10.2	1.57
587998B	711	915	3.0	66	3.0*	3.5	2.5*	1.5	8.8*	1.38



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587968C	V	46.4	15.7	12.0	3.4	26.0	52.3	6.3
587969	V	44.8	17.8	12.0	3.3	25.2	53.3	6.2
587970A	V	46.4	16.1	12.2	3.1	29.1	49.6	6.0
587970B	V	46.7	16.0	12.1	3.0	29.4	49.5	6.0
587971	V	46.3	15.5	12.3	3.6	24.7	52.4	6.9
587972	VI	45.1 <sup>w</sup>	14.0 <sup>w</sup>	12.2	3.6	23.8	52.4	8.0
587973A	V	46.8 <sup>w</sup>	16.5 <sup>w</sup>	12.3	3.6	21.2	55.5	7.4
587973B	V	46.3 <sup>w</sup>	15.5 <sup>w</sup>	12.6	4.3	23.8	52.1	7.3
587974	VI	48.4	15.6	11.0	3.2	27.5	51.9	6.5
587975	V	47.2	16.7	12.4	2.8	23.3	54.4	7.1
587976B	IV	42.7 <sup>^</sup>	16.9 <sup>^</sup>	12.2 <sup>^</sup>	3.4 <sup>^</sup>	24.0 <sup>^</sup>	52.7 <sup>^</sup>	7.6 <sup>^</sup>
587976C	V	48.6 <sup>w</sup>	16.5 <sup>w</sup>	12.2	3.7	30.5	47.9	5.7
587976D	IV	44.4 <sup>w</sup>	16.0 <sup>w</sup>	12.7	3.4	24.4	51.2	8.3
587978A	IX	50.6	14.4	13.0	3.2	23.1	53.2	7.6
587978B	IX	52.9 <sup>^</sup>	12.7 <sup>^</sup>	11.2 <sup>^</sup>	3.7 <sup>^</sup>	20.1 <sup>^</sup>	56.6 <sup>^</sup>	8.4 <sup>^</sup>
587979A	IV	45.7	17.0	13.1	4.3	20.9	54.7	7.0
587979B	IV	46.6	16.2	12.8	3.0	31.9	45.6	6.6
587984A	V	45.9 <sup>^</sup>	16.4 <sup>^</sup>	11.7 <sup>^</sup>	3.8 <sup>^</sup>	25.1 <sup>^</sup>	52.6 <sup>^</sup>	6.9 <sup>^</sup>
587984B	IV	46.8	17.6	12.2	3.6	27.7	50.4	6.0
587985A	IV	47.0	18.0	12.0	3.7	28.2	49.9	6.1
587985B	V	46.6	17.8	11.9	3.6	25.0	53.3	6.3
587986A	V	45.4	17.5	12.0	3.5	28.7	49.6	6.2
587986B	V	44.4	18.5	11.8	3.5	29.8	49.0	5.9
587987B	V	46.8 <sup>^</sup>	15.1 <sup>^</sup>	13.1 <sup>^</sup>	3.4 <sup>^</sup>	21.1 <sup>^</sup>	55.4 <sup>^</sup>	7.0 <sup>^</sup>
587987C	IV	42.8 <sup>^</sup>	19.4 <sup>^</sup>	10.7 <sup>^</sup>	3.0 <sup>^</sup>	27.3 <sup>^</sup>	53.1 <sup>^</sup>	5.9 <sup>^</sup>
587988A	VII	48.8	16.1	12.5	3.5	21.1	55.5	7.5
587988B	VII	48.0	15.7	12.4	2.8	19.1	58.3	7.6
587990	V	44.6	16.8	12.6	2.9	25.4	52.5	6.7
587992A	VII	47.9	16.1	12.4	3.0	20.4	57.2	7.0
587992B	VII	47.4	16.3	12.8	2.8	19.4	57.7	7.3
587992C	VII	50.0 <sup>w</sup>	14.0 <sup>w</sup>	11.9	2.5	17.3	59.8	8.5
587992D	VII	45.3	17.5	12.6	2.9	21.0	56.6	7.0
587992E	VII	48.7	15.8	12.4	3.1	21.1	56.4	7.0
587992F	VII	49.2 <sup>w</sup>	15.9 <sup>w</sup>	11.4	3.8	22.5	55.7	6.6
587992G	VIII	48.2 <sup>w</sup>	15.7 <sup>w</sup>	10.9	3.2	21.0	58.0	6.8
587993	VII	49.7	16.0	11.9	3.5	22.4	55.0	7.2
587994A	V	49.2	18.6	11.3	3.0	23.4	56.5	5.7
587994B	V	48.3	18.7	11.5	3.1	22.3	57.2	5.9
587995	V	45.4	16.3	12.3	2.9	25.4	52.8	6.5
587996A	V	47.7	15.0	12.6	3.8	19.5	57.2	7.0
587996B	VII	47.2 <sup>w</sup>	13.7 <sup>w</sup>	12.3	2.9	20.6	57.7	6.5
587996D	VI	47.7	16.2	11.9	3.1	24.7	53.2	7.1
587997A	VI	47.3	17.0	13.4	4.0	22.6	56.1	4.0
587997B	VI	45.9 <sup>w</sup>	15.1 <sup>w</sup>	11.3	3.0	19.6	57.8	8.4
587998A	IV	46.1	17.2	12.0	3.7	32.2	46.2	5.9
587998B	IV	45.7	17.0	12.4	4.0	26.7	50.2	6.7

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
587998C	(Cheng guan ba yue huang)	Sichuan	China	China	1994	IV
587998D	(Cheng guan ba yue huang)	Sichuan	China	China	1994	IV
587998E	(Cheng guan ba yue huang)	Sichuan	China	China	1994	IV
587998F	(Cheng guan ba yue huang)	Sichuan	China	China	1994	V
587998G	(Cheng guan ba yue huang)	Sichuan	China	China	1994	V
588001	Xiao yang wei ba	Sichuan	China	China	1994	VII
588002	Yin hua dou	Sichuan	China	China	1994	V
588003	Zao huang dou	Sichuan	China	China	1994	VI
588004	Zao dou zi	Sichuan	China	China	1994	VI
588005A	Da bai mao	Sichuan	China	China	1994	V
588005B	(Da bai mao)	Sichuan	China	China	1994	V
588005C	(Da bai mao)	Sichuan	China	China	1994	V
588006A	Xi bai mao dou No. 1	Sichuan	China	China	1994	VI
588006B	(Xi bai mao dou No. 1)	Sichuan	China	China	1994	VI
588007A	Chi bai mao	Sichuan	China	China	1994	V
588007B	(Chi bai mao)	Sichuan	China	China	1994	VI
588008D	(Bai mao zi)	Sichuan	China	China	1994	V
588009	Yong xing huang dou	Sichuan	China	China	1994	V
588010A	Xi mao zi	Sichuan	China	China	1994	IV
588010B	(Xi mao zi)	Sichuan	China	China	1994	IV
588011A	Xi bai mao dou	Sichuan	China	China	1994	V
588011B	(Xi bai mao dou)	Sichuan	China	China	1994	VIII
588011C	(Xi bai mao dou)	Sichuan	China	China	1994	VIII
588011D	(Xi bai mao dou)	Sichuan	China	China	1994	VIII
588011E	(Xi bai mao dou)	Sichuan	China	China	1994	VIII
588013	Qi shi zao	Sichuan	China	China	1994	IV
588014A	Da bai mao	Sichuan	China	China	1994	V
588014B	(Da bai mao)	Sichuan	China	China	1994	VI
588014C	(Da bai mao)	Sichuan	China	China	1994	VII
588014D	(Da bai mao)	Sichuan	China	China	1994	VI
588015A	Bai mao dou	Sichuan	China	China	1994	IV
588015B	(Bai mao dou)	Sichuan	China	China	1994	IV
588015D	(Bai mao dou)	Sichuan	China	China	1994	V
588017A	Xiao ru bai se	Sichuan	China	China	1994	VI
588017B	(Xiao ru bai se)	Sichuan	China	China	1994	VII
588017C	(Xiao ru bai se)	Sichuan	China	China	1994	VII
588018	Da nai bai se	Sichuan	China	China	1994	VI
588019A	Xiao luo wu	Sichuan	China	China	1994	VIII
588019B	(Xiao luo wu)	Sichuan	China	China	1994	VIII
588020	Ma zhua dou No. 2	Sichuan	China	China	1994	VII
588021A	Bai jie luo	Sichuan	China	China	1994	V
588021B	(Bai jie luo)	Sichuan	China	China	1994	VI
588023A	Gao shan huang dou	Sichuan	China	China	1994	VII
588023B	(Gao shan huang dou)	Sichuan	China	China	1994	VI
588024A	Da bai dou	Sichuan	China	China	1994	V
588024B	(Da bai dou)	Sichuan	China	China	1994	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
587998C	IV	D	W	T	Sa	N	Br	I	Y	Brbl		2N
587998D	IV	S	W	G	Sa	Ssp	Br	I	Y	Bf	Vhil	2N
587998E	IV	D	P	G	E	N	Br	I	Y	Bf	Vhil	4N
587998F	V	D	P	T	A	N	Br	I	Y	Br		3N
587998G	V	N	W	G	E	N	Br	D	Y	Bf	Vhil	3N
588001	VII	N	W	G	E	N	Br	I	Y	Bf		2N
588002	V	D	W	T	E	N	Br	I	Y	Br		3N
588003	VI	D	P	T	A	N	Br	S	Y	Brbl		3N
588004	VI	D	P	T	A	N	Br	S	Y	Brbl		3N
588005A	V	D	P	G	A	N	Br	I	Y	Bf		2N
588005B	V	D	P	G	E	Ssp	Br	I	Y	Ib	Vhil	2N
588005C	V	D	W	G	E	Ssp	Br	I	Y	Lbf		2N
588006A	VI	D	W	G	E	N	Bl	I	Y	Bf		3N
588006B	VI	D	W	G	E	N	Bl	I	Y	Bf		3N
588007A	V	D	W	G	E	Ssp	Br	I	Y	Bf	Vhil	2N
588007B	VI	D	P	G	Sa	N	Br	D	Y	Bf	Vhil	3N
588008D	V	D	P	G	A	N	Tn	I	Y	Bf		3N
588009	V	D	W	T	E	N	Br	I	Y	Br	Vhil	3N
588010A	IV	D	W	Lt	E	N	Br	I	Y	Br	Vhil	3N
588010B	IV	D	W	T	Sa	N	Br	I	Y	Bl		3N
588011A	V	D	W	Lt	E	Ssp	Bl	D	Y	Br	Vhil	3N
588011B	VIII	N	W	Lt	E	N	Br	I	Y	Br		4N
588011C	VIII	N	P	Lt	E	N	Br	I	Y	Br		4N
588011D	VIII	N	W	Lt	E	N	Br	I	Y	Br		3N
588011E	VIII	D	P	G	E	Ssp	Br	D	Y	Lbf		3N
588013	IV	D	W	T	E	N	Br	I	Y	Bl		3N
588014A	V	D	W	G	E	N	Tn	I	Y	Bf		3N
588014B	VI	D	W	G	Sa	Ssp	Tn	I	Y	Bf		3N
588014C	VII	D	W	Lt	E	N	Tn	S	Y	Br		3N
588014D	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
588015A	IV	D	W	T	E	N	Tn	I	Y	Brbl	Vhil	2N
588015B	IV	D	W	G	Sa	N	Br	I	Y	Bf		3N
588015D	V	D	W	G	Sa	N	Br	I	Y	Bf		2N
588017A	VI	D	P	T	E	Ssp	Bl	I	Y	Br		3N
588017B	VII	N	W	G	Sa	N	Bl	I	Y	Bf		3N
588017C	VII	N	W	G	Sa	N	Bl	I	Y	Bf		3N
588018	VI	D	P	T	E	Ssp	Bl	I	Y	Br		3N
588019A	VIII	N	P	G	Sa	N	Br	D	Y	Ib		3N
588019B	VIII	N	P	G	Sa	N	Br	D	Y	Bf		3N
588020	VII	N	W	T	E	N	Bl	I	Y	Br		3N
588021A	V	S	W	G	A	N	Br	I	Y	Bf		2N
588021B	VI	N	W	G	A	Ssp	Br	I	Y	Bf		2N
588023A	VII	D	W	G	A	N	Dbr	I	Y	Bf		3N
588023B	VI	N	P	T	Sa	N	Br	I	Y	Br		3N
588024A	V	D	W	G	A	N	Br	I	Y	Bf		2N
588024B	V	D	P	Lt	A	N	Br	I	Y	Tn	Vhil	2N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
587998C	708	917	2.0*	84	3.5	4.0	2.5	4.5	9.7*	1.11
587998D	708	913	3.0	66*	3.0	3.5	2.2*	1.5	8.7	1.57
587998E	707	909	2.5*	108*	2.5	4.0	2.5*	2.0*	11.2	2.22
587998F	711	916	2.0*	68*	3.0*	3.0	2.5	2.5	8.6*	1.29
587998G	706	922	4.0	114	1.0	2.0	2.2	1.5	12.2	1.78
588001	731	1017	2.5	100	1.0	2.0	2.2	3.0	11.2	1.43
588002	701	926	2.5	61*	2.5	3.5	2.8	1.5	20.1*	1.47*
588003	717	1008	3.0	91*	3.5	4.5	1.8	2.5	14.9	2.62
588004	719	1008	2.5	93	3.5	4.5	2.0	2.5	15.3	2.16
588005A	709	913	2.0*	72*	3.5	4.0	3.0	2.0	11.6*	1.39
588005B	717	929	2.5	98	2.0*	2.5	2.8	2.5	10.9	1.50
588005C	715	927	2.0	78	2.5	4.0	2.2	1.5	12.4	1.80
588006A	719	1008	3.0	106*	2.0	3.0	2.2*	3.0*	13.5	2.14
588006B	717	1006	2.0	80	2.0	3.0	2.0	3.0*	12.9	2.05
588007A	713	928	3.0	88	1.5	3.0*	2.0	2.0	9.1	2.21
588007B	731	1008	3.0	98	2.0	3.0	2.2	4.5	13.4	1.81*
588008D	708	914	3.0	80	3.0*	4.5	2.5	1.5	13.4*	1.56*
588009	701	921	2.5	66	3.0*	4.5	2.8	1.5	19.8*	0.54
588010A	709	913	1.5	76	3.0	3.5	2.5	3.0*	11.2	1.35
588010B	709	913	2.0*	70	3.0	4.0	2.8*	3.5	9.9*	0.95
588011A	707	915	1.5	96*	2.5	3.5	3.8	2.5	11.9*	1.07
588011B	810	1025	3.5	118	1.5	2.0	2.2	4.0	12.3	1.01*
588011C	810	1106	3.5	135	1.0	2.0	2.5	4.0 <sup>^</sup>	14.3	0.64*
588011D	806	1025	3.5	136*	1.5	3.5	2.2	3.5	14.4	1.50
588011E	727	1025	3.5	101	1.5	3.5	2.5	4.0	17.4	1.49*
588013	701 <sup>^</sup>	913	1.5	47	2.5	3.5	2.2	2.5	11.2	1.15
588014A	711	921	1.5	57	2.0	3.5	2.8	2.5	9.5	0.93
588014B	723	1006	3.0	100	2.5	3.5	2.2	4.0	10.0	1.56
588014C	806	1017	3.5	107	2.0	3.0	2.5	5.0	10.0	1.24*
588014D	729	1009	3.0	96	2.0	2.0	2.2	4.0	9.3	1.46
588015A	714 <sup>^</sup>	910 <sup>^</sup>	2.0 <sup>^</sup>	62 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	6.6 <sup>^</sup>	0.95 <sup>^</sup>
588015B	714 <sup>^</sup>	911 <sup>^</sup>	3.0 <sup>^</sup>	78 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	1.5 <sup>^</sup>	3.0 <sup>^</sup>	9.3 <sup>^</sup>	1.29 <sup>^</sup>
588015D	713	913	2.5	76	2.5	3.5	2.0	3.5	10.4	1.20
588017A	721	1012	4.0	87	2.0	3.0	2.5	3.0	18.6	2.07
588017B	804	1017	4.0	118*	2.5	4.0*	2.5	3.5	11.8	1.65
588017C	806	1017	3.0	103*	2.5	4.0*	2.2	3.5	15.1*	1.61
588018	725	1013	4.0	90	3.0	4.0	2.2	2.5	19.1	2.14
588019A	802	1104*	4.0	154*	1.0	1.0	3.2	3.0	13.5	0.87
588019B	808	1107*	4.0	121*	1.0	2.0	3.0	3.5	12.9	0.90*
588020	808	1021	3.5	127	1.0	2.0	2.5	5.0	11.2	1.46*
588021A	726	925	3.0*	108*	3.0	4.5	2.2	3.0	8.3	1.64
588021B	717	1006	3.5	117*	3.0	4.0	1.8	2.0	10.6	2.05
588023A	804	1017	4.0	89	3.0	4.5	2.5	4.0	12.6	1.29
588023B	707	1013	4.5	139*	2.5	4.0 <sup>^</sup>	2.5	3.5	10.6	1.49
588024A	709	918	2.0	58*	1.5	2.5	2.2*	2.0	12.6*	1.32
588024B	711	913	3.5	74*	1.5	2.0	1.8	1.0	11.1	1.54

Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
587998C	IV	46.7 <sup>w</sup>	16.6 <sup>w</sup>	12.5	4.2	26.8	49.8	6.6
587998D	IV	44.2	17.4	12.5	4.1	26.0	50.7	6.7
587998E	IV	45.5	18.3	13.6	3.2	26.3	51.4	5.5
587998F	V	50.0	15.5	12.3	3.7	27.4	49.7	6.8
587998G	V	46.1	17.8	12.5	3.4	21.6	55.4	7.0
588001	VIII	49.1	16.1	11.9	2.8	21.0	57.6	6.8
588002	V	47.9	19.2	10.9	3.0	26.7	53.9	5.4
588003	VI	45.4	18.0	11.6	3.3	29.1	50.3	5.6
588004	VI	46.5	18.3	11.6	3.3	26.6	52.9	5.6
588005A	V	50.3	14.1	13.3	3.8	25.2	51.0	6.7
588005B	V	46.3	16.5	13.7	4.2	20.7	54.0	7.4
588005C	V	50.8	14.7	12.9	3.8	20.6	55.8	7.1
588006A	VI	43.9	18.3	12.6	4.0	20.7	55.3	7.3
588006B	VI	45.8 <sup>w</sup>	16.2 <sup>w</sup>	11.8	3.3	18.4	58.4	8.1
588007A	V	49.7	12.4	14.2	3.0	16.5	55.6	10.7
588007B	VI	47.1 <sup>w</sup>	16.5 <sup>w</sup>	11.3	3.6	19.7	57.7	7.7
588008D	V	44.9	17.4	12.3	3.1	31.0	47.7	5.9
588009	V	48.1	19.1	11.2	3.0	24.8	55.4	5.6
588010A	IV	48.6 <sup>w</sup>	15.3 <sup>w</sup>	11.8	3.6	21.0	56.8	6.7
588010B	IV	47.9 <sup>w</sup>	14.7 <sup>w</sup>	12.2	4.4	25.2	51.6	6.6
588011A	V	49.5	15.5	12.8	3.4	22.9	54.8	6.1
588011B	VIII	46.3 <sup>w</sup>	15.2 <sup>w</sup>	11.9	3.3	17.9	59.2	7.7
588011C	VIII	49.1 <sup>^</sup>	15.0 <sup>^</sup>	12.4 <sup>^</sup>	3.6 <sup>^</sup>	17.2 <sup>^</sup>	59.5 <sup>^</sup>	7.2 <sup>^</sup>
588011D	VIII	45.2 <sup>w</sup>	15.6 <sup>w</sup>	11.5	2.7	17.4	60.1	8.3
588011E	VIII	49.7 <sup>w</sup>	13.5 <sup>w</sup>	10.9	3.3	21.5	57.1	7.3
588013	IV	45.4	16.3	12.9	3.1	21.7	56.1	6.2
588014A	V	48.8	14.5	12.4	3.7	20.4	56.7	6.8
588014B	VI	47.4 <sup>w</sup>	14.7 <sup>w</sup>	11.2	2.6	21.1	57.0	8.1
588014C	VII	52.6 <sup>w</sup>	11.5 <sup>w</sup>	12.7	3.2	19.8	58.3	6.1
588014D	VI	47.0 <sup>w</sup>	15.1 <sup>w</sup>	11.3	2.7	23.8	54.8	7.5
588015A	IV	44.3 <sup>^</sup>	15.2 <sup>^</sup>	11.0 <sup>^</sup>	3.8 <sup>^</sup>	18.3 <sup>^</sup>	58.6 <sup>^</sup>	8.2 <sup>^</sup>
588015B	IV	49.5 <sup>^</sup>	15.1 <sup>^</sup>	12.0 <sup>^</sup>	4.6 <sup>^</sup>	23.6 <sup>^</sup>	53.1 <sup>^</sup>	6.8 <sup>^</sup>
588015D	V	49.9 <sup>w</sup>	15.1 <sup>w</sup>	11.7	3.9	28.3	50.0	6.0
588017A	VI	49.2	17.1	12.5	3.4	22.4	55.8	5.9
588017B	VII	49.0	15.6	11.5	3.7	23.5	54.8	6.5
588017C	VII	48.4 <sup>w</sup>	14.9 <sup>w</sup>	11.0	3.1	18.1	59.6	8.2
588018	VI	49.4	17.9	12.4	3.4	22.2	55.4	6.6
588019A	VIII	49.0	15.7	13.7	3.5	18.6	56.2	8.1
588019B	VIII	49.2 <sup>w</sup>	14.2 <sup>w</sup>	11.4	3.6	16.7	59.3	9.0
588020	VII	50.1 <sup>w</sup>	13.4 <sup>w</sup>	11.4	2.6	14.3	61.8	9.8
588021A	V	46.1	14.4	12.1	3.4	25.6	50.8	8.1
588021B	VI	48.0	17.7	10.9	3.1	25.4	55.7	4.9
588023A	VII	49.4 <sup>^</sup>	15.0 <sup>^</sup>	10.7 <sup>^</sup>	3.6 <sup>^</sup>	21.9 <sup>^</sup>	56.6 <sup>^</sup>	7.2 <sup>^</sup>
588023B	VI	45.0	17.3	12.1	3.6	20.6	57.0	6.8
588024A	V	47.0	16.6	12.4	3.6	26.9	50.6	6.4
588024B	V	47.4	15.8	12.6	4.0	23.0	53.3	7.2

Table 1.3 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
588025	Pu le lu lan zi No. 2	Sichuan	China	China	1994	IV
588027A	Da huang ke	Sichuan	China	China	1994	IV
588027B	(Da huang ke)	Sichuan	China	China	1994	IV
588027C	(Da huang ke)	Sichuan	China	China	1994	V
588027D	(Da huang ke)	Sichuan	China	China	1994	V
588029	Er hang mao	Sichuan	China	China	1994	IV
588030	He ba dou No. 2	Sichuan	China	China	1994	IV
588031	Da bai huang mao	Sichuan	China	China	1994	VIII
588032A	Da bai shui dou No. 1	Sichuan	China	China	1994	VII
588032B	(Da bai shui dou No. 1)	Sichuan	China	China	1994	VII
588032C	(Da bai shui dou No. 1)	Sichuan	China	China	1994	VIII
588032D	(Da bai shui dou No. 1)	Sichuan	China	China	1994	VIII
588039	Ying de nian dou	Guangdong	China	China	1994	VII
588040	Shan xing dou	Guangdong	China	China	1994	VII
588050B	(Da li huang)	Guangdong	China	China	1994	V
588051	Sui dao huang	Guangdong	China	China	1994	V
588052B	(Yue dou No. 1)	Guangdong	China	China	1994	IV
588052C	(Yue dou No. 1)	Guangdong	China	China	1994	V
588053A	Xiao li huang	Guangdong	China	China	1994	V
588053B	(Xiao li huang)	Guangdong	China	China	1994	V
592903	Geden shirazu 1	unknown	Japan	Japan	1994	V
592904	Hougyoku	unknown	Japan	Japan	1994	VIII
592906	Shirotae	unknown	Japan	Japan	1994	V
592914	1138-2	Jiangsu	China	China	1994	V

Table 2.3. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
588025	IV	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
588027A	IV	D	P	T	E	N	Br	I	Y	Br		3N
588027B	IV	S	P	T	Sa	N	Br	I	Y	Bl		3N
588027C	V	D	W	Lt	Sa	N	Br	I	Y	Bl		3N
588027D	V	D	W	Lt	Sa	N	Br	I	Y	Bl		3N
588029	IV	S	P	Lt	Sa	N	Tn	D	Y	Br		2N
588030	IV	S	P	Lt	E	N	Tn	D	Y	Br		2N
588031	VIII	D	P	T	Sa	Ssp	Bl	I	Y	Br		3N
588032A	VII	D	P	G	A	N	Br	I	Y	Bf		3N
588032B	VII	N	W	T	Sa	N	Dbr	I	Y	Br		3N
588032C	VIII	N	P	T	Sa	N	Br	D	Y	Br		3N
588032D	VIII	N	P	T	Sa	N	Br	D	Y	Br		3N
588039	VII	N	P	T	A	N	Tn	D	Y	Brbl	Sdef	2N
588040	VII	N	P	T	A	Ssp	Br	I	Y	Brbl	Sdef	2N
588050B	V	D	P	T	Va	N	Tn	I	Y	Bl	Sdef	2N
588051	V	D	P	T	Va	N	Tn	I	Y	Brbl		2N
588052B	IV	D	P	T	Va	N	Tn	I	Y	Bl		2N
588052C	V	D	P	T	Va	N	Tn	I	Y	Bl		3N
588053A	V	D	P	T	Va	N	Tn	I	Y	Brbl		2N
588053B	V	D	P	T	Va	N	Tn	I	Y	Brbl		2N
592903	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
592904	VIII	D	W	G	A	N	Br	D	Y	Bf		3N
592906	V	D	W	Lt	A	N	Tn	D	Y	Y	Def	2N
592914	V	D	W	T	A	Ssp	Br	I	Y	Brbl		3N

Table 3.3 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
588025	709	917	4.0	100	2.0	2.5	2.2*	1.5	12.7*	1.73
588027A	711^	912^	3.0^	74^	2.0^	3.0^	2.0^	2.0^	16.2^	2.04^
588027B	708^	912^	3.0^	80^	3.0^	4.0^	2.5^	2.0^	15.7^	1.77^
588027C	708	915	4.0	83	3.0*	3.0	2.5	2.0	17.7	1.73
588027D	708	913	4.5	79	2.5	3.0	3.0	2.5	17.1*	1.49
588029	717	913	3.5	80	2.5	4.0	2.5	2.0	13.0*	1.90
588030	717	914	4.0	97	2.5	3.0	2.5	2.0	13.8*	1.96
588031	803	1028	3.0	98	1.0	2.0	2.2	3.5	14.4	2.06
588032A	816	1021	3.5	101*	1.0	2.0	2.0	1.0	12.3	1.37*
588032B	810	1022*	3.5	115*	1.5	2.0	2.5	5.0	11.5	1.10*
588032C	808	1028	4.0	116	1.5	2.5	2.5	3.0	14.2*	1.51*
588032D	810	1104*	4.0	119	1.0	2.0	2.2	4.0	10.7	1.53*
588039	812	1019	4.0	147*	2.0	3.0	2.5	3.5	11.9	0.90*
588040	813	1018	4.0	102	1.0	1.5	2.2	2.5	12.0	1.75*
588050B	722	927	3.0	102	3.0	4.0	2.8	2.5	18.9	2.12
588051	723	927	3.0	108	3.5	4.5	2.5	3.0	16.3	2.38
588052B	707	907	2.0*	69*	3.5	4.0	2.8*	2.5	18.9*	1.63
588052C	722	927	3.0	98	3.5	4.0^	2.8	2.5	17.8	2.13
588053A	723	926	3.0	108	3.0	4.5	2.2	2.5	12.2	2.16
588053B	723	926	3.0	108*	3.5	4.5	2.2	2.0	12.1	2.25
592903	703	928	2.0	61	1.5	2.5	2.2	1.0	17.8	2.05
592904	807	1104*	3.5	102*	1.5	2.0*	2.2	3.0	18.7*	1.51
592906	705	930	2.0	72	2.5	3.5	2.2*	1.0	27.2	2.38
592914	713	929	3.0	111	2.0	3.0	2.2	1.5	17.1	2.90



Table 4.3. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 566960 to PI 592914 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1996 and 1997.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
588025	IV	45.0	17.6	11.9	3.5	25.8	52.6	6.2
588027A	IV	45.3 <sup>^</sup>	16.3 <sup>^</sup>	12.9 <sup>^</sup>	2.9 <sup>^</sup>	20.4 <sup>^</sup>	56.3 <sup>^</sup>	7.5 <sup>^</sup>
588027B	IV	45.3 <sup>^</sup>	17.9 <sup>^</sup>	12.1 <sup>^</sup>	3.7 <sup>^</sup>	21.0 <sup>^</sup>	56.6 <sup>^</sup>	6.6 <sup>^</sup>
588027C	V	45.8	16.6	13.3	2.9	28.3	49.6	5.8
588027D	V	47.8	15.8	14.1	2.9	26.6	50.6	5.8
588029	IV	47.8	16.5	13.3	3.9	24.4	51.6	6.7
588030	IV	44.9	17.5	13.8	3.6	24.9	50.3	7.3
588031	VIII	49.4 <sup>w</sup>	16.2 <sup>w</sup>	11.1	3.2	19.5	59.5	6.6
588032A	VII	53.0	13.6	12.4	2.9	20.8	55.5	8.5
588032B	VII	50.2 <sup>w</sup>	13.2 <sup>w</sup>	11.7	2.7	15.5	60.3	9.8
588032C	VIII	46.4	15.7	14.2	3.7	18.7	54.9	8.5
588032D	VIII	46.2 <sup>w</sup>	15.6 <sup>w</sup>	12.2	3.6	16.8	58.3	9.2
588039	VII	47.6 <sup>w</sup>	15.0 <sup>w</sup>	11.2	3.7	23.7	53.4	8.0
588040	VII	46.1	16.5	13.6	3.8	22.4	52.8	7.5
588050B	V	45.8	17.0	13.2	3.3	27.6	49.5	6.3
588051	V	46.8	16.8	12.5	3.4	28.7	49.6	5.7
588052B	IV	45.8	17.4	9.9	4.3	26.4	53.5	5.9
588052C	V	45.9	17.4	13.7	3.3	27.4	49.8	5.8
588053A	V	45.7	17.2	12.7	3.6	28.7	49.2	5.8
588053B	V	44.8	18.2	12.6	3.6	29.9	48.3	5.5
592903	V	43.2	19.3	11.5	3.7	24.5	54.9	5.5
592904	VIII	44.9	17.2	14.1	3.4	18.8	56.6	7.3
592906	V	45.0	18.4	13.4	3.6	22.1	54.2	6.7
592914	V	46.7	16.8	12.1	3.6	28.9	49.5	6.0

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
	Accomac	Virginia	United States	United States	1997	V
	Bedford	Tennessee	United States	United States	1977	V
	Benning	Georgia	United States	United States	1996	VII
	Brim	North Carolina	United States	United States	1990	VI
	Camp-lx2	Kentucky	United States	United States	1996	V
	Carver	Alabama	United States	United States	1994	VII
	Ciaric	Sonora	Mexico	Mexico	1992	VI
	Clifford	North Carolina	United States	United States	1997	V
	Cook	Georgia	United States	United States	1991	VIII
	Crowley	Arkansas	United States	United States	1991	V
	Delsoy 5500	Missouri	United States	United States	1996	V
	Dillon	South Carolina	United States	United States	1994	VI
	Dowling	Texas	United States	United States	1978	VIII
	Graham	North Carolina	United States	United States	1996	V
	Harbar	Sonora	Mexico	Mexico	1993	VI
	Haskell	Georgia	United States	United States	1993	VII
	Jupiter-R	Florida	United States	United States	1982	IX
	KS4694	Kansas	United States	United States	1993	IV
	Manokin	Maryland	United States	United States	1991	IV
	Maxcy	South Carolina	United States	United States	1992	VIII
	Pace	Mississippi	United States	United States	1996	V
	Perrin	South Carolina	United States	United States	1988	VIII
	Prolina	North Carolina	United States	United States	1997	VI
	Stonewall	Alabama	United States	United States	1988	VII
	TN 4-94	Tennessee	United States	United States	1997	IV
	Young	North Carolina	United States	United States	1984	VI
416877	Geden shirazu 1	Tohoku	Japan	Japan	1977	VI
416900	Hai mame	Kanto	Japan	Japan	1977	IX
423743B		Kyonggi	South Korea	South Korea	1978	V
423915	Ogura daizu	Nagano	Japan	Japan	1978	VI
561383	Akiyoshi	Unknown	Japan	Japan	1991	VII
578310	I-65	Jumla	Nepal	Nepal	1990	VIII
587618C	(Li yang ba yue huang yi)	Jiangsu	China	China	1994	VI
587618D	(Li yang ba yue huang yi)	Jiangsu	China	China	1994	VII
587630C	(Qi dong sha lu dou yi)	Jiangsu	China	China	1994	VIII
587658C	(Liu yue bao)	Anhui	China	China	1994	VI
587682A	Da li huang No. 1	Anhui	China	China	1994	VI
587682C	(Da li huang No. 1)	Anhui	China	China	1994	VII
587877B	(Jiu yue zao)	Zhejiang	China	China	1994	VII
587916D	(Da qing dou)	Zhejiang	China	China	1994	VII
593948	Ken 83-2921	Heilongjiang	China	China	1995	VI
593984		Kyongsang Puk	South Korea	South Korea	1996	VI
593985		Kyongsang Puk	South Korea	South Korea	1996	VI
593986		Kyongsang Puk	South Korea	South Korea	1996	VI
593987		Kyongsang Puk	South Korea	South Korea	1996	VII
593988		Kyongsang Puk	South Korea	South Korea	1996	V

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
Accomac	V	D	P	T	Sa	N	Tn	I	Y	Bl		2N
Bedford	V	D	W	T	Sa	N	Tn	I	Y	Bl		2N
Benning	VII	D	P	T	A	N	Tn	I	Y	Br		2N
Brim	VI	D	W	G	E	N	Br	S	Y	Bf		2N
Camp-1x2	V	D	P	G	Sa	N	Tn	I	Y	Y	Na	2N
Carver	VII	D	W	Lt	E	N	Tn	I	Y	Bl		3N
Ciaric	VI	D	P	T	Sa	N	Tn	I	Y	Bl		3N
Clifford	V	D	P	T	E	N	Tn	I	Y	Br		2N
Cook	VIII	D	P	T	A	N	Tn	I	Y	Bl		2N
Crowley	V	N	W	G	Sa	N	Tn	D	Y	Bf		2N
Delsoy 5500	V	D	W	T	E	N	Tn	D	Y	Br		2N
Dillon	VI	D	P	G	A	N	Tn	I	Y	Bf		2N
Dowling	VIII	D	W	G	E	N	Tn	I	Y	Bf		2N
Graham	V	D	P	G	E	N	Br	D	Y	Lbf		2N
Harbar	VI	D	P	T	A	N	Br	I	Y	Bl		3N
Haskell	VII	D	P	T	E	N	Tn	I	Y	Bl		3N
Jupiter-R	IX	D	P	T	A	N	Tn	I	Y	Br	Vhil	3N
KS4694	IV	N	W	G	E	Sdn	Br	I	Y	Bf		2N
Manokin	IV	D	W	T	E	N	Tn	I	Y	Bl		2N
Maxcy	VIII	D	P	T	E	N	Tn	I	Y	Bl		3N
Pace	V	D	W	G	Sa	N	Tn	I	Y	Bf		2N
Perrin	VIII	N	P	T	A	N	Tn	I	Y	Bl		3N
Prolina	VI	D	P	G	E	N	Tn	I	Y	Ib	Vhil	3N
Stonewall	VII	D	W	T	E	N	Tn	D	Y	Bl		2N
TN 4-94	IV	N	P	G	E	N	Br	I	Y	Bf		3N
Young	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
416877	VI	D	P	G	A	Ssp	Br	D	Y	Y	Sdef	3N
416900	IX	N	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
423743B	V	D	P	T	Sa	Ssp	Br	I	Gn	Bl	Sdef	2N
423915	VI	D	P	G	Sa	Ssp	Br	D	Y	Y	Def	2N
561383	VII	D	P	G	A	N	Tn	I	Y	Bf	Sdef, Vhil	2N
578310	VIII	N	P	T	E	N	Br	I	Bl	Bl		5F
587618C	VI	D	P	T	A	Ssp	Br	I	Gn	Br		3N
587618D	VII	N	P	T	A	N	Br	I	Gn	Br		5F
587630C	VIII	D	W	G	A	N	Br	I	Gn	Bf	Vhil	2N
587658C	VI	N	P	T	A	N	Br	I	Y	Br		3N
587682A	VI	D	P	T	A	Ssp	Br	I	Y	Br	Lft5	3N
587682C	VII	S	P	T	A	N	Br	I	Y	Brbl	Lft5, Vhil	3N
587877B	VII	D	P	T	A	Ssp	Tn	I	Y	Br		3N
587916D	VII	N	P	T	A	Ssp	Br	I	Lgn	Brbl	Vhil	4N
593948	VI	D	P	G	Sa	N	Br	I	Y	Y		2N
593984	VI	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3N
593985	VI	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3F
593986	VI	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3F
593987	VII	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3F
593988	V	D	P	T	E	Ssp	Br	Lb	Gnbl	Bl	Gnc, Net	2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
Accomac	629	923	2.0	70	1.0	1.0	1.8	2.0	11.9	3.53
Bedford	706	925	2.5	86*	1.0	1.5	1.8	3.0	11.0	3.28
Benning	714	1017	2.5	97*	1.5	2.5	2.8	1.5	11.5	2.28
Brim	714	1008	2.5	106	1.0	1.5	2.0	1.0	11.0	2.94
Camp-1x2	629	921	1.5	30	2.0	3.0	2.0	2.0*	8.2	1.06
Carver	718	1010	2.0	84	1.0	1.5	3.0*	1.0	11.0	1.67
Ciaric	715	1006	2.5	93	1.0	1.5	2.8	2.5	11.2	1.47*
Clifford	629	924	1.0	60*	1.5	2.5	2.5	1.5	14.5	3.47*
Cook	725	1022*	3.0	114*	1.0	2.0	3.0^	1.0^	11.1	1.42
Crowley	706	928	2.0*	82*	1.0	1.0	2.0	1.0	12.8	3.61
Delsoy 5500	703	923	1.0	72	1.0	1.5	2.5	1.0	14.6	3.86*
Dillon	711	1001	1.5	84	1.0	1.5	2.0	1.0	12.0	3.47
Dowling	730	1024*	3.0	114	1.0	1.5	2.5^	2.0^	10.7	0.81
Graham	702	928	1.5	72*	1.0	1.5	2.5	1.0	12.6	2.88*
Harbar	707	927	1.5	106	1.0	2.0	2.0	1.5	13.6	3.05
Haskell	718	1017	3.0	105	1.0	1.5	3.0	1.5	11.7	2.19
Jupiter-R	901	1103^	4.5	168*	-	-	-	-	-	-
KS4694	621	915	1.0	78	1.0	1.5	2.0	1.0	15.8	4.08*
Manokin	629	918	1.0	62	1.0	1.5	1.8	1.5	12.0	3.54
Maxcy	720	1023	2.5	112*	1.0	1.5	2.5^	1.0^	11.8	2.28
Pace	702	926	3.0*	94*	1.0	1.5	1.8	1.0	13.6	3.46
Perrin	723	1025	2.0	115	1.5	2.0*	3.5^	2.0^	12.1	1.75*
Prolina	714	1001	2.5	106*	1.5	2.5	2.2	1.0	12.4	2.02
Stonewall	713	1013	2.0	88	1.0	1.5	2.5	2.0	13.0	1.94*
TN 4-94	621	919	1.5	125*	1.5	2.5	2.5	1.5	13.9	3.81
Young	714	1005	2.5	100*	1.0	1.5	2.5	1.0	12.0	2.49
416877	703	929	1.0	63	2.0*	3.0*	3.0	1.0	14.4	1.61
416900	820	1105	5.0	132*	1.0^	2.0^	-	-	8.0^	0.17^
423743B	703	927	1.0	52	2.5	3.5	2.8	1.0	29.0	2.17
423915	703	929	1.5	55	2.5	4.0	3.2	1.0	19.8	1.78
561383	806	1017	2.0	70	1.0	2.0	3.5	1.5	16.0	1.20
578310	726^	1026^	3.5*	170^	2.0^	3.0^	3.5^	--	6.0^	0.11^
587618C	730	1007	4.0	106	2.5	3.5	3.0	2.5	13.7	1.02
587618D	727	1019*	3.5	162	2.5	3.5	3.8	2.5	17.1	0.74
587630C	814	1028*	3.5	162*	1.5	2.5	3.0^	2.0^	14.0^	0.40
587658C	729	1006	3.5	118*	2.0*	3.0*	2.8	2.5	12.0	1.03
587682A	731	1007	4.0	128	2.0*	3.0*	3.2	2.0	11.4	0.60
587682C	729	1017	3.5	131*	3.0	4.0	3.0	2.0	12.3	1.28
587877B	806	1016	2.0	81*	2.0	3.0	3.2	3.0	13.6	0.87
587916D	806	1015	3.5	144*	2.5	4.0	3.5	3.0	10.3*	0.73
593948	702	1009	1.0	61	2.0	3.0	3.2	1.0	25.0	1.28
593984	715	1003	2.5	61	2.5	3.5	2.2	--	22.5*	0.91
593985	715	1009	2.5	74	2.5	3.5	2.2	--	21.5	0.73
593986	715	1009	2.5	66	2.5	3.5	2.2	--	22.2	0.99
593987	715	1011	2.0	74	2.5	3.5	2.5	--	21.2	0.80
593988	630	924	1.0	52*	2.5	3.5	2.5	--	20.8*	0.74

Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Accomac	V	41.6	21.6	12.1	3.7	22.0	55.9	6.3
Bedford	V	43.4	19.0	11.6	3.5	21.3	56.5	7.0
Benning	VII	44.5	18.2	12.4	3.6	15.8	59.9	8.2
Brim	VI	45.4	18.6	12.2	3.5	18.8	57.9	7.7
Camp-lx2	V	45.3	17.3	12.0	3.6	14.3	61.2	8.9
Carver	VII	47.0	18.1	12.0	3.6	18.1	58.0	8.2
Ciaric	VI	45.6	17.8	12.2	3.4	18.1	59.3	7.1
Clifford	V	42.5	20.1	12.5	3.6	17.4	58.3	8.1
Cook	VIII	43.7 <sup>^</sup>	19.4 <sup>^</sup>	12.7 <sup>^</sup>	3.1 <sup>^</sup>	18.1 <sup>^</sup>	57.5 <sup>^</sup>	8.5 <sup>^</sup>
Crowley	V	43.2	18.4	12.4	3.2	20.2	56.1	8.0
Delsoy 5500	V	42.1	21.2	12.7	3.5	18.7	57.8	7.4
Dillon	VI	43.3	20.0	12.6	3.2	18.2	58.5	7.5
Dowling	VIII	43.2 <sup>^</sup>	19.2 <sup>^</sup>	12.1 <sup>^</sup>	3.6 <sup>^</sup>	18.4 <sup>^</sup>	56.5 <sup>^</sup>	9.3 <sup>^</sup>
Graham	V	41.7	21.3	12.3	3.6	18.7	58.0	7.3
Harbar	VI	44.3	20.0	11.9	3.6	18.5	58.1	7.8
Haskell	VII	45.2	17.9	12.5	4.3	18.4	57.8	7.1
Jupiter-R	IX	-	-	-	-	-	-	-
KS4694	IV	42.0	21.0	11.9	3.5	20.6	57.0	7.1
Manokin	IV	42.1	21.0	12.3	4.2	22.1	55.2	6.1
Maxcy	VIII	42.3 <sup>^</sup>	20.6 <sup>^</sup>	12.0 <sup>^</sup>	3.6 <sup>^</sup>	18.6 <sup>^</sup>	58.0 <sup>^</sup>	7.8 <sup>^</sup>
Pace	V	46.5	18.4	13.5	3.0	19.3	56.4	7.9
Perrin	VIII	43.5 <sup>^</sup>	19.3 <sup>^</sup>	12.1 <sup>^</sup>	4.4 <sup>^</sup>	20.7 <sup>^</sup>	55.2 <sup>^</sup>	7.7 <sup>^</sup>
Prolina	VI	48.7	17.7	12.4	3.6	18.3	58.5	7.2
Stonewall	VII	45.2	18.8	11.7	3.5	19.0	58.6	7.1
TN 4-94	IV	43.3	20.7	11.7	4.0	27.2	51.6	5.5
Young	VI	44.3	19.2	12.5	3.4	18.7	57.7	7.7
416877	VI	43.3	19.6	11.0	3.5	22.8	56.6	6.1
416900	IX	-	-	-	-	-	-	-
423743B	V	45.6 <sup>^</sup>	19.3 <sup>^</sup>	13.0	2.8	25.7	50.9	7.7
423915	VI	43.0	20.2	13.0	3.1	19.1	57.6	7.2
561383	VII	48.8	16.8	13.1	3.8	20.9	54.7	7.5
578310	VIII	50.0 <sup>w^</sup>	11.6 <sup>w^</sup>	11.4 <sup>^</sup>	3.5 <sup>^</sup>	23.5 <sup>^</sup>	51.6 <sup>^</sup>	9.9 <sup>^</sup>
587618C	VI	50.3 <sup>w</sup>	16.0 <sup>w</sup>	12.1	3.4	21.2	54.9	8.4
587618D	VII	48.7 <sup>w</sup>	15.3 <sup>w</sup>	12.1	3.8	26.0	51.1	7.0
587630C	VIII	46.5 <sup>^</sup>	17.2 <sup>^</sup>	11.5 <sup>^</sup>	3.9 <sup>^</sup>	21.5 <sup>^</sup>	54.9 <sup>^</sup>	8.3 <sup>^</sup>
587658C	VI	50.6	14.7	12.3	3.6	18.7	57.6	7.9
587682A	VI	48.3	16.3	11.2	3.6	21.4	56.1	7.7
587682C	VII	49.0	15.9	12.7	3.9	22.5	53.4	7.5
587877B	VII	47.5	15.9	11.7	3.0	20.5	56.0	8.7
587916D	VII	45.9 <sup>w</sup>	16.5 <sup>w</sup>	11.9	4.0	25.6	51.3	7.2
593948	VI	43.7	19.7	12.2	3.2	20.5	57.6	6.5
593984	VI	44.0 <sup>w^</sup>	20.7 <sup>w^</sup>	11.8	2.9	20.0	57.4	8.0
593985	VI	42.3 <sup>w^</sup>	21.0 <sup>w^</sup>	12.2	2.9	20.2	56.7	8.0
593986	VI	42.9 <sup>w^</sup>	20.7 <sup>w^</sup>	11.8	2.9	20.5	57.2	7.6
593987	VII	44.6 <sup>w^</sup>	20.3 <sup>w^</sup>	11.6	2.9	21.6	56.1	7.8
593988	V	47.1 <sup>w</sup>	17.8 <sup>w</sup>	12.8	3.3	21.0	55.8	7.1

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
593989	Baemkong	Kyongsang Puk	South Korea	South Korea	1996	VI
593990		Kyongsang Nam	South Korea	South Korea	1996	VI
593992		Kyongsang Puk	South Korea	South Korea	1996	V
593993A		Kyongsang Puk	South Korea	South Korea	1996	V
593993B		Kyongsang Puk	South Korea	South Korea	1996	V
593994		Kyongsang	South Korea	South Korea	1996	V
593995A		Kyongsang Puk	South Korea	South Korea	1996	V
593995B		Kyongsang Puk	South Korea	South Korea	1996	VI
593996		Unknown	South Korea	South Korea	1996	V
593998		Kyongsang Puk	South Korea	South Korea	1996	VI
593999A		Kyongsang Puk	South Korea	South Korea	1996	V
593999B		Kyongsang Puk	South Korea	South Korea	1996	VI
594000		Kyongsang Puk	South Korea	South Korea	1996	VI
594002		Kyongsang Puk	South Korea	South Korea	1996	V
594003		Kyongsang Puk	South Korea	South Korea	1996	V
594004A		Kyongsang Puk	South Korea	South Korea	1996	VI
594004B		Kyongsang Puk	South Korea	South Korea	1996	VII
594004C		Kyongsang Puk	South Korea	South Korea	1996	VI
594005A		Kyongsang Puk	South Korea	South Korea	1996	V
594005B		Kyongsang Puk	South Korea	South Korea	1996	V
594005C		Kyongsang Puk	South Korea	South Korea	1996	V
594005D		Kyongsang Puk	South Korea	South Korea	1996	VI
594005E		Kyongsang Puk	South Korea	South Korea	1996	V
594006	Heuksatangdu	Unknown	South Korea	South Korea	1996	V
594007		Unknown	South Korea	South Korea	1996	V
594008		Unknown	South Korea	South Korea	1996	V
594012		Unknown	South Korea	South Korea	1996	V
594013		Unknown	South Korea	South Korea	1996	V
594014A		Unknown	South Korea	South Korea	1996	V
594014B		Unknown	South Korea	South Korea	1996	V
594017		Unknown	South Korea	South Korea	1996	VI
594023A		Kyongsang Nam	South Korea	South Korea	1996	V
594023B		Kyongsang Nam	South Korea	South Korea	1996	VII
594149	Aso musume	Kumamoto	Japan	Japan	1996	VIII
594172A	Gogaku	Kumamoto	Japan	Japan	1996	VII
594172B	(Gogaku)	Kumamoto	Japan	Japan	1996	VIII
594172C	(Gogaku)	Kumamoto	Japan	Japan	1996	VIII
594177	Himeshirazu	Chiba	Japan	Japan	1996	VIII
594191	Kariha takiya	Niigata	Japan	Japan	1996	V
594212	Kuro daizu	unknown	Japan	Japan	1996	V
594217A	Misao	Kumamoto	Japan	Japan	1996	VII
594217B	(Misao)	Kumamoto	Japan	Japan	1996	VI
594217C	(Misao)	Kumamoto	Japan	Japan	1996	VII
594219	Miyagi oojiro	Nagano	Japan	Japan	1996	VI
594225A	Nagano 1	Unknown	Japan	Japan	1996	V
594225B	(Nagano 1)	Unknown	Japan	Japan	1996	V

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
593989	VI	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3F
593990	VI	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	3F
593992	V	D	P	T	E	Ssp	Br	I	Gn	Br	Gnc, Vhil	2N
593993A	V	D	W	G	E	Ssp	Br	I	Gn	Lbf	Gnc, Sdef	2N
593993B	V	D	P	G	E	N	Bl	I	Gn	Bf	Gnc	2N
593994	V	D	P	T	Sa	Ssp	Br	D	Gn	Br	Gnc, Vhil	2N
593995A	V	D	P	G	A	N	Br	I	Gn	Lbf	Gnc	2N
593995B	VI	D	P	G	Sa	Ssp	Br	I	Gn	Ib	Gnc, Sdef	2N
593996	V	D	P	T	A	N	Tn	I	Bl	Bl	Sdef	2N
593998	VI	D	P	T	A	Ssp	Tn	I	Bl	Bl		2N
593999A	V	D	W	T	A	N	Tn	I	Bl	Bl		1N
593999B	VI	D	P	T	E	N	Tn	I	Bl	Bl		3N
594000	VI	N	P	T	E	N	Dbr	I	Br	Rbr		4F
594002	V	D	P	T	Sa	N	Br	I	Gn	Gn	Gnc, Vhil	2N
594003	V	D	P	T	Sa	N	Br	I	Gn	Gn	Gnc, Vhil	2N
594004A	VI	D	P	G	Sa	N	Tn	I	Y	Y		3N
594004B	VII	N	P	G	A	N	Br	I	Y	Lbf	Vhil	3N
594004C	VI	N	P	G	Sa	N	Br	I	Y	Lbf	Vhil	3N
594005A	V	D	P	G	A	Ssp	Tn	I	Y	Y	Vhil	2N
594005B	V	D	P	G	Sa	Ssp	Tn	I	Y	Y		2N
594005C	V	D	P	T	A	Ssp	Tn	I	Lg	Bl		2N
594005D	VI	D	W	T	A	N	Tn	I	Y	Bl		2N
594005E	V	D	P	T	A	N	Tn	I	Y	Bl		2N
594006	V	D	W	T	Sa	N	Dbr	I	Gn	Bl		1N
594007	V	D	P	G	Sa	N	Tn	I	Y	Y		2N
594008	V	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		2N
594012	V	D	W	T	Sa	N	Bl	I	Bl	Bl	Gnc	2N
594013	V	S	P	T	E	N	Tn	I	Bl	Bl		2N
594014A	V	D	P	T	Sa	N	Tn	I	Bl	Bl		2N
594014B	V	D	P	T	E	N	Tn	I	Bl	Bl		2N
594017	VI	D	P	T	Sa	N	Dbr	S	Br	Rbr		2N
594023A	V	N	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	2F
594023B	VII	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Gnc	4F
594149	VIII	D	P	G	A	N	Tn	I	Y	Bf		3N
594172A	VII	D	P	G	A	Ssp	Br	D	Y	Ib	Vhil	3N
594172B	VIII	D	P	G	Sa	N	Br	S	Y	Ib	Vhil	3N
594172C	VIII	D	P	G	A	Ssp	Br	D	Y	Ib	Vhil	3N
594177	VIII	D	P	T	E	Ssp	Br	I	Y	Br		2F
594191	V	D	P	G	A	Ssp	Br	D	Y	Y	Sdef	2N
594212	V	D	P	T	E	Ssp	Br	B	Bl	Bl	Sdef	2N
594217A	VII	D	P	T	A	N	Br	I	Y	Lbr	Vhil	2N
594217B	VI	D	P	G	Sa	Ssp	Tn	S	Y	Y		3N
594217C	VII	D	P	G	A	N	Tn	I	Y	Lbf	Sdef, Vhil	2N
594219	VI	D	P	G	A	N	Br	D	Y	Y	Def	3N
594225A	V	D	W	G	A	Ssp	Br	D	Y	Y	Sdef	2N
594225B	V	D	W	G	Sa	Ssp	Br	D	Y	Y	Sdef	2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
593989	709	1006	3.0	67	2.0	3.0	2.8	--	23.2	0.81
593990	709	1005	3.0	74	2.0	3.0	2.2	--	20.2	0.87
593992	707	921	1.0	52	2.5	3.5	2.2	2.0	13.4	1.54
593993A	702	921	1.0	48	2.5	3.5	3.0	1.0	14.8	1.16
593993B	703	925	2.0	60	2.0*	3.5	2.0	2.5	13.5	1.39
593994	707	921	2.0	55	2.5	3.5	2.8*	1.5	19.4	1.63
593995A	703	926	2.0	53	1.0	1.5	2.8	1.5	15.1	1.35
593995B	703	928	1.5	46*	1.5	2.0*	3.0	2.0	22.6	1.60
593996	707	925	2.5	58	2.5	3.5	3.0	--	17.7	1.12*
593998	714	929	2.0	54*	1.0	2.0	2.5	--	6.4	0.65
593999A	703	921	2.0*	46	1.5	2.5	2.0	--	7.2	0.76
593999B	715	929	3.0	68	1.0	2.0	2.2	--	8.1	0.87
594000	709	929	4.0	220	1.5	2.5	3.0	--	7.6	1.43
594002	715	927	2.5	69*	1.5	2.5	2.0	2.5	6.0	1.08
594003	715	927	3.0	68*	1.5	3.0	2.0	2.5	6.9	1.04
594004A	715	1003	2.5	84	1.0	2.0	2.0	1.5	7.5	1.82
594004B	718	1011	3.5	151*	1.5	3.0	2.8	2.5	8.4	1.17
594004C	725	1007	3.0	82	1.0	2.0	2.8	2.0	7.1	1.11
594005A	708	921	2.0	49	2.5	3.0*	1.5	1.0	7.8	1.72
594005B	703	919	1.5	46	2.0*	3.0*	1.8	2.0	7.1	1.80
594005C	711	927	2.5	57	1.0	1.5	2.2	2.0	8.1	1.56
594005D	713	930	2.5	56	1.0	1.5	2.8*	2.0	7.8	0.81
594005E	713	927	3.0*	62	1.0	2.0*	2.5	1.5	7.9	1.11
594006	711	922	2.0	50	2.0*	3.0*	1.8	3.5*	6.8	0.68
594007	701	921	2.0	52	1.5	2.0*	1.8	2.0	7.7	2.09
594008	627	925	1.5	48	2.0*	3.0*	1.8	--	7.7	0.64
594012	707	917	1.5	40	2.0*	3.0*	2.8	--	7.8	0.58
594013	711	921	4.5	102	3.0	4.0	2.2	--	7.3	0.79
594014A	711	919	2.5	47	2.0	3.5	2.2	--	6.1	0.46
594014B	711	923	4.0	104*	2.0	2.5	2.2	--	7.6	1.01
594017	711	1001	2.0*	71*	3.0	4.0	2.2	--	7.4	0.96
594023A	703	922	2.5	52	2.5	3.5	2.5	--	15.6*	0.80*
594023B	715	1013	2.0	60	1.5	3.5	2.8	--	23.5	0.97
594149	729	1027	3.0	89*	2.0	3.0^	3.0^	1.0^	12.8	0.43
594172A	725	1017	2.0	80	1.0	1.5	3.5*	1.5	16.6	1.37
594172B	723	1023*	2.5	76	1.0	1.5	3.5^	2.0^	15.6	1.21
594172C	730	1021*	2.0	78	2.5	3.5	3.0^	1.0^	13.2	0.78*
594177	814	1028	4.5	84	2.0	3.0	4.0^	2.0^	7.0	0.21
594191	702	926	2.0	62	3.0	4.0	2.5	1.0	16.6	2.13
594212	616	919	1.0	56	3.0	4.0	2.5	--	24.2	1.85
594217A	709	1013	2.5	68	1.5	2.5	2.2*	1.5	16.6	1.52
594217B	707	1008	2.5	70	2.0*	3.0*	3.0	1.5	14.4	1.59
594217C	707	1013	3.0	79	2.5	3.5	2.8	2.0	13.8	0.87
594219	703	1003	1.0	51	2.0*	3.0*	3.0	1.0	23.8	1.62
594225A	627	921	1.5	52	3.0	4.0	3.0	1.0	20.9	1.28
594225B	630	921	1.5	46	3.0	4.0	2.8*	1.0	18.7	1.22*



Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
593989	VI	43.5 <sup>w^</sup>	20.1 <sup>w^</sup>	11.9	3.0	21.2	56.1	7.8
593990	VI	43.6 <sup>w^</sup>	21.1 <sup>w^</sup>	12.0	3.0	21.5	55.6	8.0
593992	V	44.7 <sup>w</sup>	18.6 <sup>w</sup>	11.9	3.1	18.2	59.2	7.6
593993A	V	47.2 <sup>w</sup>	17.4 <sup>w</sup>	12.7	3.2	20.6	56.0	7.5
593993B	V	47.7 <sup>w</sup>	17.4 <sup>w</sup>	11.9	3.2	23.1	55.8	6.0
593994	V	46.6 <sup>w</sup>	18.9 <sup>w</sup>	11.7	3.1	21.3	57.1	6.9
593995A	V	43.5 <sup>w</sup>	19.1 <sup>w</sup>	11.1	3.4	18.0	59.8	7.7
593995B	VI	45.2 <sup>w</sup>	19.0 <sup>w</sup>	12.1	3.7	19.7	57.0	7.5
593996	V	44.0 <sup>w^</sup>	20.9 <sup>w^</sup>	11.2	3.2	23.8	55.4	6.3
593998	VI	47.7 <sup>w^</sup>	14.3 <sup>w^</sup>	13.2	3.1	15.7	58.4	9.5
593999A	V	46.4 <sup>w^</sup>	17.4 <sup>w^</sup>	14.0	2.9	14.7	60.2	8.2
593999B	VI	42.3 <sup>w^</sup>	15.4 <sup>w^</sup>	12.9	3.0	12.7	60.8	10.5
594000	VI	43.9 <sup>w^</sup>	14.7 <sup>w^</sup>	12.4	3.4	15.3	58.2	10.7
594002	V	47.1 <sup>w</sup>	16.3 <sup>w</sup>	11.2	3.2	21.1	57.2	7.4
594003	V	47.3 <sup>w</sup>	16.5 <sup>w</sup>	11.4	3.1	20.0	58.3	7.3
594004A	VI	48.0	15.2	12.8	2.9	16.0	59.8	8.5
594004B	VII	49.4	15.4	12.5	3.6	19.9	56.6	7.3
594004C	VI	50.8	13.6	12.8	3.2	15.3	59.5	9.2
594005A	V	47.0	17.6	13.0	3.3	21.1	56.2	6.4
594005B	V	48.5	16.3	13.4	3.3	20.2	56.0	7.1
594005C	V	47.3	16.6	12.7	3.9	22.6	53.6	7.3
594005D	VI	47.7	14.4	11.0	3.8	19.3	58.6	7.4
594005E	V	51.3	12.9	11.8	3.2	19.1	58.2	7.7
594006	V	48.5 <sup>w^</sup>	15.7 <sup>w^</sup>	12.3	3.2	18.7	58.0	7.9
594007	V	47.2	17.1	12.7	3.3	19.1	57.6	7.4
594008	V	44.3 <sup>w^</sup>	15.4 <sup>w^</sup>	13.8	3.7	22.9	53.0	6.7
594012	V	44.9 <sup>w^</sup>	18.4 <sup>w^</sup>	12.4	3.1	16.6	60.1	7.8
594013	V	46.4 <sup>w^</sup>	18.1 <sup>w^</sup>	13.4	4.3	18.5	55.4	8.4
594014A	V	46.3 <sup>w^</sup>	17.7 <sup>w^</sup>	12.7	4.6	15.5	58.4	8.9
594014B	V	47.2 <sup>w^</sup>	18.1 <sup>w^</sup>	13.0	4.2	18.1	56.1	8.6
594017	VI	48.0 <sup>w^</sup>	13.9 <sup>w^</sup>	13.4	3.3	16.3	57.7	9.4
594023A	V	39.6 <sup>w^</sup>	21.1 <sup>w^</sup>	11.3 <sup>^</sup>	3.0 <sup>^</sup>	21.1 <sup>^</sup>	57.9 <sup>^</sup>	6.8 <sup>^</sup>
594023B	VII	42.5 <sup>w^</sup>	20.6 <sup>w^</sup>	12.0	2.9	19.1	57.3	8.8
594149	VIII	47.8 <sup>^</sup>	17.6 <sup>^</sup>	12.3 <sup>^</sup>	3.2 <sup>^</sup>	18.5 <sup>^</sup>	58.2 <sup>^</sup>	7.7 <sup>^</sup>
594172A	VII	47.1	17.0	12.9	3.2	19.8	56.9	7.2
594172B	VIII	44.9 <sup>^</sup>	19.0 <sup>^</sup>	12.3 <sup>^</sup>	3.3 <sup>^</sup>	19.6 <sup>^</sup>	56.7 <sup>^</sup>	8.1 <sup>^</sup>
594172C	VIII	45.9 <sup>^</sup>	18.6 <sup>^</sup>	12.2 <sup>^</sup>	2.7 <sup>^</sup>	18.1 <sup>^</sup>	58.8 <sup>^</sup>	8.3 <sup>^</sup>
594177	VIII	48.5 <sup>^</sup>	15.9 <sup>^</sup>	12.0 <sup>^</sup>	3.3 <sup>^</sup>	18.8 <sup>^</sup>	57.5 <sup>^</sup>	8.4 <sup>^</sup>
594191	V	44.8	19.6	12.3	3.1	22.9	55.7	6.0
594212	V	43.5 <sup>w^</sup>	20.7 <sup>w^</sup>	11.5	2.7	24.1	54.9	6.8
594217A	VII	44.8	18.9	11.5	3.1	23.4	54.8	7.2
594217B	VI	43.3	19.7	11.6	3.4	21.9	56.0	7.0
594217C	VII	50.5	15.8	12.8	3.3	17.5	58.7	7.6
594219	VI	44.5	19.0	12.1	3.0	23.2	54.0	7.7
594225A	V	43.8	20.2	12.8	2.6	20.6	56.0	8.0
594225B	V	43.7	20.0	12.7	2.5	20.6	56.6	7.5

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594240	Ogura daizu	Nagano	Japan	Japan	1996	VI
594249	Oojiro 1	Miyagi	Japan	Japan	1996	VI
594267	Shiro hachikoku 2	Fukushima	Japan	Japan	1996	V
594302	Toyoshirome	Fukuoka	Japan	Japan	1996	VII
594305	Tsurumame	Chiba	Japan	Japan	1996	VI
594307	Tsurusengoku	Chiba	Japan	Japan	1996	VIII
594392	Wu he qi tou huang	Anhui	China	China	1996	V
594397A	87-74	Anhui	China	China	1996	V
594397B	(87-74)	Anhui	China	China	1996	V
594400	87-10	Anhui	China	China	1996	V
594414A	Xiao li dou	Anhui	China	China	1996	VI
594414B	(Xiao li dou)	Anhui	China	China	1996	VI
594415B	(Jiu yue xiao dou)	Anhui	China	China	1996	V
594416	Tang chi xiao huang dou	Anhui	China	China	1996	V
594417	Tou tuo da dou	Anhui	China	China	1996	VI
594418A	Ye xi xiao li huang	Anhui	China	China	1996	V
594418B	(Ye xi xiao li huang)	Anhui	China	China	1996	V
594418C	(Ye xi xiao li huang)	Anhui	China	China	1996	V
594418D	(Ye xi xiao li huang)	Anhui	China	China	1996	V
594418E	(Ye xi xiao li huang)	Anhui	China	China	1996	VI
594421	Da du huang dou	Anhui	China	China	1996	V
594422	Yang guang huang dou	Anhui	China	China	1996	VI
594423	Dong yuan dou	Anhui	China	China	1996	VI
594424	Ai jiao huang	Anhui	China	China	1996	VI
594425	Xiao cao huang dou	Anhui	China	China	1996	VI
594426A	Tie jiao huang	Anhui	China	China	1996	VII
594426B	(Tie jiao huang)	Anhui	China	China	1996	VII
594427A	Ba yue mang	Anhui	China	China	1996	VI
594427B	(Ba yue mang)	Anhui	China	China	1996	VI
594427C	(Ba yue mang)	Anhui	China	China	1996	VI
594428	Bai hua qing	Anhui	China	China	1996	V
594429	Feng wo qing	Anhui	China	China	1996	V
594430C	(Guang qian qing dou)	Anhui	China	China	1996	V
594430D	(Guang qian qing dou)	Anhui	China	China	1996	V
594430E	(Guang qian qing dou)	Anhui	China	China	1996	V
594431	Chang pu qing dou	Anhui	China	China	1996	V
594432	Zheng nong wan qing dou	Anhui	China	China	1996	V
594433A	Hua yan quan dou	Anhui	China	China	1996	VIII
594433B	(Hua yan quan dou)	Anhui	China	China	1996	VIII
594433C	(Hua yan quan dou)	Anhui	China	China	1996	VIII
594434	Xiao bai mao zao	Sichuan	China	China	1996	VI
594436	Jiang se dou	Sichuan	China	China	1996	VI
594437	Wan yuan ba yue dou	Sichuan	China	China	1996	V
594447	Shi fang ba jiao cha dou	Sichuan	China	China	1996	VII
594449	Han yuan shuang xi you dou zi	Sichuan	China	China	1996	VII
594450	Wen chuan qing pi dou	Sichuan	China	China	1996	VI

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594240	VI	D	P	G	A	N	Br	I	Y	Y	Sdef	3N
594249	VI	D	P	T	A	N	Br	I	Y	Br	Vhil	3N
594267	V	D	W	G	Sa	Ssp	Br	D	Y	Y	Def	2N
594302	VII	D	P	G	Sa	N	Tn	I	Y	Y		2N
594305	VI	N	P	T	A	N	Br	B	Bl	Bl	Sw	4N
594307	VIII	N	P	T	A	N	Bl	Lb	Bl	Bl	Flk, Sw	5N
594392	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
594397A	V	D	W	G	A	Ssp	Tn	I	Y	Lbf	Vhil	3N
594397B	V	D	W	G	A	Ssp	Br	I	Y	Lbf	Vhil	3N
594400	V	D	W	G	A	Ssp	Tn	I	Y	Y	Vhil	3N
594414A	VI	D	P	T	A	N	Br	I	Y	Br	Vhil	3N
594414B	VI	N	W	T	A	Sp	Br	D	Y	Br	Vhil	3N
594415B	V	D	P	G	A	Ssp	Br	I	Y	Bf	Vhil	2N
594416	V	D	P	T	A	N	Tn	I	Y	Br		3N
594417	VI	D	P	G	A	Ssp	Tn	I	Y	Bf	Sdef	3N
594418A	V	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
594418B	V	D	W	T	A	N	Br	I	Y	Brbl	Vhil	2N
594418C	V	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
594418D	V	D	P	T	A	Ssp	Br	I	Y	Br		2N
594418E	VI	D	W	T	A	N	Br	I	Y	Brbl	Vhil	2N
594421	V	D	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
594422	VI	D	P	G	A	Ssp	Tn	I	Y	Bf	Sdef	2N
594423	VI	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
594424	VI	N	P	G	A	Ssp	Br	I	Y	Bf	Sdef	3N
594425	VI	N	W	T	A	Ssp	Br	I	Y	Br	Lft5, Vhil	2N
594426A	VII	N	P	T	A	Ssp	Tn	I	Y	Br	Lft5	3N
594426B	VII	N	P	G	A	Ssp	Tn	I	Y	Bf	Lft5	2N
594427A	VI	N	P	T	A	N	Br	I	Y	Brbl	Vhil	2N
594427B	VI	N	P	G	Va	Ssp	Br	I	Y	Bf		3N
594427C	VI	N	P	G	Va	Ssp	Br	I	Y	Bf		2N
594428	V	D	W	G	A	Ssp	Tn	I	Gn	Bf	Sdef, Vsc	2N
594429	V	D	P	G	A	Ssp	Tn	I	Gn	Bf	Def, Vsc	2N
594430C	V	D	P	T	A	Ssp	Br	I	Gn	Brbl	Sdef, Vhil	2N
594430D	V	D	P	T	A	Ssp	Br	I	Gn	Br	Def, Vsc	2N
594430E	V	D	P	T	A	Ssp	Br	I	Y	Br	Sdef	3N
594431	V	D	P	G	A	Ssp	Br	I	Gn	Ib	Vhil, Vsc	2N
594432	V	D	P	T	A	Ssp	Tn	I	Gn	Bl	Vhil	2N
594433A	VIII	D	P	T	A	Ssp	Br	I	Bl	Bl	Sdef	2N
594433B	VIII	D	P	T	A	N	Br	I	Bl	Bl	Sdef	3N
594433C	VIII	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
594434	VI	D	W	G	A	N	Br	I	Y	Bf	Sdef, Vhil	2N
594436	VI	N	W	T	A	N	Br	I	Rbr	Rbr		2N
594437	V	D	P	T	A	N	Br	I	Y	Brbl	Vhil	2N
594447	VII	D	P	T	A	Ssp	Br	I	Bl	Bl		3N
594449	VII	D	P	T	Sa	N	Br	Lb	Rbr	Rbr		3N
594450	VI	D	P	Lt	Sa	N	Bl	I	Gn	Br		2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594240	703	1001	2.0	72	2.5	4.0	3.2	1.0	24.1	1.78
594249	703	1001	2.0	64	2.5	3.5	3.0	1.0	15.5	1.63
594267	623	922	1.0	51	3.0	4.0	3.2	2.0	26.8	2.23
594302	714	1017	1.0	64*	1.5	2.5	3.5	1.5	22.5*	1.53
594305	816	1005	5.0	123*	2.5	3.5	2.0	--	4.6	0.14
594307	825	1027	5.0	168	2.0	3.5	3.5^	--	6.6	0.17
594392	703	920	3.5	81	2.0*	3.0*	2.0	2.0	12.0	2.12
594397A	702	921	3.0	97	1.5	3.0*	2.2	1.5	15.2	1.93
594397B	707	927	2.0	74	1.5	3.0	2.2	1.5	17.5	2.35
594400	702	920	2.0*	64	1.5	2.5	2.2	1.5	14.5	2.24
594414A	723	929	3.0	96*	2.5	3.5	2.2	2.0	9.8	1.71*
594414B	718	929	3.5	124*	2.5	3.5	2.2	2.0	12.2	1.88
594415B	717	925	3.0	117*	2.5	3.5	2.8	2.0	14.0	1.66
594416	702	929	3.5	110*	1.0	2.0*	2.2	1.0	10.7	1.63
594417	730	1005	2.5	79	1.5	3.0	2.5	2.0	13.8	1.73
594418A	707	924	3.0	91*	2.0	3.0	2.2	2.0	13.8	2.43*
594418B	708	923	3.5	104*	2.5	3.5	2.2	2.0	12.0	1.72
594418C	703	921	3.0	98*	2.0*	2.5*	2.5	2.0	12.9	2.15
594418D	713	926	3.0	108*	1.5	2.5	2.5	2.0	13.8	1.88
594418E	703	1003	3.0	117*	1.5	2.5	2.2	2.0	10.4*	2.07
594421	713	921	3.0*	88	2.5	4.0*	2.2	1.5	20.0	2.68
594422	730	1002	2.5	88*	1.5	2.5	2.5	1.5	16.6	1.92
594423	727	1003	3.0	84*	2.0	3.0	2.5	1.5	15.2	1.62
594424	719	1007	2.5	169*	2.0*	3.0*	2.8	1.0	14.8	1.28
594425	723	1001	3.5	122*	1.5	3.0	2.5	2.0	14.1	1.54*
594426A	810	1011	3.0	120	2.0	3.0	3.5	3.0	12.4	1.21
594426B	810	1015*	3.0	120	2.0*	3.0*	3.2	2.5	12.5	0.88
594427A	721	1002	4.0	118*	2.5	3.5	2.5	2.0	14.3*	0.89
594427B	723	1002	3.0	115*	2.5	4.0*	2.5	2.0	13.2	1.42
594427C	726	1005	3.5	128	2.5	4.0*	2.8	1.5	16.0	0.75
594428	703	921	2.5*	70	2.5	4.0*	2.8	1.0	19.5	2.26
594429	707	921	2.0*	70	2.5	4.0*	2.8	1.0	20.8	1.49
594430C	708	922	3.5	155*	2.5	4.0*	2.8	2.0	12.6	1.69
594430D	721	921	3.0	79*	2.0*	3.5*	2.5	2.0	12.6	2.16
594430E	714	921	3.0	79	2.5	4.0*	2.5	2.5	15.0	1.96
594431	707	921	2.5	74	1.5	2.5	2.0	2.0	12.2	2.27
594432	713	920	2.5	71	2.5	4.0	2.2	2.0	12.6	2.82*
594433A	821	1029	4.0	134*	1.5	3.0	3.5^	--	9.7	0.22
594433B	821	1029	4.0	122	2.0	3.0	3.5^	--	9.6	0.28
594433C	818	1027	4.0	147	2.0	3.0	3.0^	--	9.9	0.36
594434	718	1007	4.0	122	2.0	3.0	2.8	2.0	10.6	0.87
594436	707	930	3.5	100*	1.0	2.0	2.2	--	10.0	1.20
594437	725	927	1.5	38	1.5	2.5	2.0	2.0	8.4	0.69
594447	730	1015	3.0	142	2.0	3.0	3.2*	--	10.1	0.74
594449	715	1011	3.0	172*	2.0	3.0	2.5	--	11.4	0.86
594450	707	1009	2.0	68	1.0	2.5	2.5	3.0*	8.0	0.55

Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594240	VI	45.5	19.1	11.1	3.1	21.5	57.6	6.8
594249	VI	48.2	16.7	12.1	3.1	16.9	59.9	8.0
594267	V	44.2	19.7	12.1	2.6	20.4	57.0	7.9
594302	VII	46.4	17.4	13.5	3.7	25.3	50.7	6.8
594305	VI	51.9 <sup>w^</sup>	12.1 <sup>w^</sup>	12.7 <sup>^</sup>	5.1 <sup>^</sup>	22.2 <sup>^</sup>	51.5 <sup>^</sup>	8.4 <sup>^</sup>
594307	VIII	49.8 <sup>w^</sup>	13.8 <sup>w^</sup>	11.8 <sup>^</sup>	4.2 <sup>^</sup>	17.0 <sup>^</sup>	57.0 <sup>^</sup>	10.0 <sup>^</sup>
594392	V	43.5	19.2	11.0	3.1	23.3	55.0	7.6
594397A	V	45.5	18.1	12.8	2.8	24.0	53.8	6.7
594397B	V	45.0	18.0	14.1	2.8	22.4	54.2	6.6
594400	V	46.1	18.2	12.5	2.8	26.8	50.1	7.7
594414A	VI	48.0	14.9	11.9	3.1	20.0	56.2	8.8
594414B	VI	46.1	18.3	12.1	3.4	22.8	54.6	7.1
594415B	V	49.5	16.4	11.3	2.9	22.7	55.4	7.8
594416	V	44.7	19.1	10.8	3.0	18.7	59.3	8.2
594417	VI	48.1	16.2	12.4	3.1	19.8	56.2	8.6
594418A	V	44.2	18.3	11.3	2.9	16.5	59.5	9.8
594418B	V	45.2	16.6	11.6	3.0	19.0	57.5	8.9
594418C	V	46.6	17.0	11.9	2.8	16.3	59.1	10.0
594418D	V	50.0	15.7	12.6	2.9	22.1	53.9	8.5
594418E	VI	45.2	18.5	12.3	3.6	18.6	56.8	8.7
594421	V	46.4	16.2	12.6	2.2	24.1	52.9	8.2
594422	VI	46.2	17.4	11.9	3.0	19.4	57.3	8.4
594423	VI	45.9	17.7	12.4	3.1	19.4	57.1	8.0
594424	VI	48.4	16.4	11.5	3.6	21.1	55.8	8.0
594425	VI	46.2	17.0	10.6	3.3	21.0	56.0	9.2
594426A	VII	45.4	16.2	11.6	3.3	23.6	53.8	7.7
594426B	VII	45.3	16.4	12.2	3.3	22.2	54.5	7.9
594427A	VI	47.7	16.4	11.9	3.0	24.1	53.1	7.8
594427B	VI	48.1	16.4	12.4	3.4	24.5	52.1	7.7
594427C	VI	50.5	15.5	11.8	3.5	26.5	50.2	8.0
594428	V	43.8 <sup>w</sup>	18.2 <sup>w</sup>	13.1	3.3	24.9	51.6	7.1
594429	V	45.0 <sup>w</sup>	20.0 <sup>w</sup>	12.2	2.8	21.2	56.8	7.0
594430C	V	44.6 <sup>w</sup>	16.5 <sup>w</sup>	12.3	2.5	20.7	56.0	8.5
594430D	V	45.1 <sup>w</sup>	17.0 <sup>w</sup>	12.4	3.2	20.6	55.2	8.5
594430E	V	47.2	17.2	11.5	2.6	20.7	56.5	8.8
594431	V	46.5 <sup>w</sup>	16.4 <sup>w</sup>	12.1	3.4	21.2	55.1	8.2
594432	V	45.1 <sup>w</sup>	16.5 <sup>w</sup>	12.6	3.8	20.5	55.4	7.7
594433A	VIII	47.4 <sup>w^</sup>	15.8 <sup>w^</sup>	10.9 <sup>^</sup>	3.5 <sup>^</sup>	21.3 <sup>^</sup>	55.2 <sup>^</sup>	9.2 <sup>^</sup>
594433B	VIII	46.5 <sup>w^</sup>	16.4 <sup>w^</sup>	10.4 <sup>^</sup>	4.0 <sup>^</sup>	22.5 <sup>^</sup>	54.4 <sup>^</sup>	8.6 <sup>^</sup>
594433C	VIII	43.2 <sup>w^</sup>	18.7 <sup>w^</sup>	11.0 <sup>^</sup>	3.9 <sup>^</sup>	23.5 <sup>^</sup>	53.0 <sup>^</sup>	8.6 <sup>^</sup>
594434	VI	47.4	15.9	11.8	3.7	26.9	51.0	6.7
594436	VI	44.1 <sup>w^</sup>	16.5 <sup>w^</sup>	11.7	3.5	15.5	60.7	8.7
594437	V	48.9	14.9	12.3	2.9	21.4	55.2	8.2
594447	VII	46.2 <sup>w^</sup>	16.0 <sup>w^</sup>	12.8	4.2	24.1	51.2	7.8
594449	VII	42.6 <sup>w^</sup>	17.8 <sup>w^</sup>	12.7	3.7	19.3	56.9	7.4
594450	VI	50.8 <sup>w</sup>	12.7 <sup>w</sup>	12.0	3.3	16.9	58.2	9.6

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594458A	Huang ke zi	Sichuan	China	China	1996	VII
594458B	(Huang ke zi)	Sichuan	China	China	1996	VII
594468	Chi dou zi	Sichuan	China	China	1996	V
594470A	Zao dou zi	Sichuan	China	China	1996	VII
594470B	(Zao dou zi)	Sichuan	China	China	1996	VIII
594470C	(Zao dou zi)	Sichuan	China	China	1996	VIII
594471C	(Da bai dou)	Sichuan	China	China	1996	IV
594471D	(Da bai dou)	Sichuan	China	China	1996	VI
594471E	(Da bai dou)	Sichuan	China	China	1996	VII
594473	Da huang ke	Sichuan	China	China	1996	VI
594474	Huang ke dou	Sichuan	China	China	1996	VI
594475A	Ping chuan huang dou No. 3	Sichuan	China	China	1996	VII
594475B	(Ping chuan huang dou No. 3)	Sichuan	China	China	1996	VII
594477	Qing pi dou	Sichuan	China	China	1996	V
594480B	(Lu dou)	Sichuan	China	China	1996	V
594480C	(Lu dou)	Sichuan	China	China	1996	VII
594481	Zao huang dou No. 2	Sichuan	China	China	1996	IV
594485	Lu dou	Sichuan	China	China	1996	VIII
594486C	(Lu lan zi No. 2)	Sichuan	China	China	1996	V
594487	Lu huang dou	Sichuan	China	China	1996	VIII
594490	Chuan xin lu	Sichuan	China	China	1996	VII
594491	Qing pi dou	Sichuan	China	China	1996	VI
594492A	Qing pi dou	Sichuan	China	China	1996	V
594492B	(Qing pi dou)	Sichuan	China	China	1996	V
594493	Wa wu luowu	Sichuan	China	China	1996	VII
594494A	Ping chuan lu dou	Sichuan	China	China	1996	VIII
594494B	(Ping chuan lu dou)	Sichuan	China	China	1996	VIII
594495	He shao huang dou No. 2	Sichuan	China	China	1996	VII
594498A	Hei se zao dou zi	Sichuan	China	China	1996	VII
594498B	(Hei se zao dou zi)	Sichuan	China	China	1996	VII
594499	Luo ma aluo	Sichuan	China	China	1996	VIII
594500A	Hei dou	Sichuan	China	China	1996	VII
594500B	(Hei dou)	Sichuan	China	China	1996	VII
594500C	(Hei dou)	Sichuan	China	China	1996	VII
594500D	(Hei dou)	Sichuan	China	China	1996	VII
594501B	(Hei dou zi)	Sichuan	China	China	1996	IV
594502	Gao shan hei dou	Sichuan	China	China	1996	VII
594503	Mu gu hei chi huang dou	Sichuan	China	China	1996	VIII
594505A	Niu mao huang dou No. 1	Sichuan	China	China	1996	VIII
594505B	(Niu mao huang dou No. 1)	Sichuan	China	China	1996	VIII
594509A	Zong se zao dou zi	Sichuan	China	China	1996	VII
594510A	Huang dou No. 2	Sichuan	China	China	1996	VII
594510B	(Huang dou No. 2)	Sichuan	China	China	1996	VIII
594511A	Wei cheng he dou	Sichuan	China	China	1996	VII
594511B	(Wei cheng he dou)	Sichuan	China	China	1996	VII
594511C	(Wei cheng he dou)	Sichuan	China	China	1996	VIII

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594458A	VII	D	P	T	Sa	N	Br	I	Y	Br		2N
594458B	VII	D	W	T	Sa	N	Br	I	Y	Br		2N
594468	V	D	W	T	A	N	Br	I	Lgn	Br	Vhil	3N
594470A	VII	D	W	G	A	N	Br	I	Y	Bf		3N
594470B	VIII	D	P	G	Sa	N	Br	I	Y	Bf		3N
594470C	VIII	D	W	G	E	N	Br	I	Y	Bf		2N
594471C	IV	S	W	T	A	N	Tn	I	Y	Brbl	Vhil	2N
594471D	VI	N	W	T	Sa	N	Br	I	Y	Brbl	Vhil	2N
594471E	VII	D	P	T	Sa	N	Br	I	Y	Br		3N
594473	VI	D	W	G	Sa	N	Br	I	Y	Lbf	Sdef, Vhil	3N
594474	VI	D	P	T	E	Ssp	Bl	I	Y	Br		4F
594475A	VII	D	W	G	A	N	Dbr	I	Y	Bf		4N
594475B	VII	D	P	T	E	N	Bl	I	Y	Br		4F
594477	V	D	W	T	A	N	Br	I	Gn	Br	Vhil	3N
594480B	V	S	W	T	A	N	Br	I	Gn	Br		3N
594480C	VII	N	P	T	E	N	Br	D	Gn	Bl		4N
594481	IV	D	P	T	A	N	Br	I	Gn	Br	Vsc	2N
594485	VIII	N	P	T	A	Ssp	Br	I	Y	Bl		3N
594486C	V	D	W	T	A	N	Tn	I	Gn	Br	Vhil	2N
594487	VIII	D	P	T	Sa	N	Br	Lb	Gn	Bl		3N
594490	VII	D	P	T	A	N	Br	I	Gn	Bl	Gnc	2N
594491	VI	S	P	T	Sa	N	Dbr	I	Gn	Br	Vhil	2N
594492A	V	D	P	T	Sa	N	Br	I	Gn	Brbl	Def	2N
594492B	V	D	P	T	Sa	N	Br	I	Gn	Brbl	Sdef	2F
594493	VII	D	W	G	E	N	Br	I	Y	Bf		3N
594494A	VIII	D	P	T	Sa	N	Br	I	Y	Br		2F
594494B	VIII	D	W	G	Sa	N	Br	I	Y	Bf		2N
594495	VII	D	P	G	Sa	N	Bl	I	Gn	Bf		3N
594498A	VII	D	W	T	E	N	Tn	I	Bl	Bl		3N
594498B	VII	D	W	T	E	N	Br	I	Bl	Bl		2N
594499	VIII	D	P	T	A	Ssp	Br	Lb	Bl	Bl	Sdef	3F
594500A	VII	D	P	T	E	N	Br	Lb	Bl	Bl	Sdef	4F
594500B	VII	D	W	T	E	Ssp	Br	Lb	Bl	Bl	Sdef	4N
594500C	VII	D	W	T	E	N	Br	I	Bl	Bl		3N
594500D	VII	D	W	T	E	N	Br	I	Bl	Bl	Sdef	2F
594501B	IV	D	W	T	E	Ssp	Br	I	Bl	Bl	Sflk	2N
594502	VII	D	W	T	E	N	Dbr	I	Bl	Bl		2F
594503	VIII	D	P	T	Sa	N	Br	Lb	Bl	Br		4F
594505A	VIII	D	P	T	E	N	Tn	I	Br	Br		3F
594505B	VIII	D	W	T	E	N	Tn	I	Br	Br		3N
594509A	VII	D	P	T	E	N	Bl	I	Br	Br		2F
594510A	VII	D	W	Lt	Sa	N	Br	I	Gnbr	Rbr	Vsc	3N
594510B	VIII	D	W	T	A	N	Bl	I	Br	Rbr	Vsc	3N
594511A	VII	D	W	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
594511B	VII	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
594511C	VIII	D	P	T	E	N	Br	Lb	Br	Br	Sdef, Vsc	3N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594458A	715	1011	1.5	78	1.0	2.0	3.8	2.0	11.0	0.54
594458B	802	1019*	3.0	99	2.0	3.0	3.8	2.5	11.6 <sup>^</sup>	0.44
594468	629	927	3.0*	49	2.0*	3.0*	2.5	2.0	14.0	0.78
594470A	727	1013	3.0	112	2.0	3.0	2.8	2.0	7.7	1.07
594470B	813	1021*	3.0	108	2.5	3.5	3.0 <sup>^</sup>	3.0 <sup>^</sup>	6.8	0.37
594470C	731	1023	3.5	128*	3.0	4.0 <sup>^</sup>	2.5 <sup>^</sup>	3.0 <sup>^</sup>	7.6	0.34
594471C	629	913	2.5*	52	2.0*	4.0*	2.0	2.0	17.2	1.98
594471D	723	1007	2.0*	76	1.5	3.0	2.8	1.5	9.0	0.76
594471E	730	1020	3.0	106	1.5	2.5	4.0	2.5	9.5	0.64
594473	719	1005	2.0	82*	1.5	2.5	2.8	1.0	10.1	1.45
594474	719	1008	2.0	88	1.0	2.0	3.5	2.5	16.4	1.09
594475A	810	1014	2.5	98	1.5	2.5	2.8	3.5	9.0	0.80
594475B	721	1011	2.5	96	1.5	2.5	3.2*	3.0*	14.0	1.12
594477	713	925	3.5	88*	1.5	3.0*	1.8	1.5	12.2	2.23
594480B	713	924	3.5	116*	2.5	4.0	2.5	2.5	16.0	1.63
594480C	719	1017	3.5	130	1.0	2.0	3.8	4.5	8.0	0.22
594481	703	913	3.0*	71*	1.0	2.5	2.2	2.0	13.9	2.52
594485	721	1029*	3.0	116	2.0	3.0	3.5 <sup>^</sup>	3.0 <sup>^</sup>	12.5	0.56
594486C	715	929	2.5	134	1.5	2.5	2.5	2.0	10.6	1.93
594487	715	1025	4.0	132	2.5	3.5	3.5 <sup>^</sup>	5.0 <sup>^</sup>	8.5	0.25
594490	813	1013	3.0	98*	1.5	2.5	2.8	2.0	11.0	1.06
594491	718	1005	3.5	168*	2.0	3.0	2.8	2.5	8.2	0.72
594492A	627	925	1.5	56	2.0	3.0	2.5	2.5	11.6	0.84
594492B	630	929	3.5	139	3.0*	4.0*	3.2	3.0	10.4	0.71
594493	806	1018	3.5	122*	1.0	1.5	3.0	2.5	8.8	0.86
594494A	814	1023	4.0	116	2.0	3.0	3.0 <sup>^</sup>	4.0 <sup>^</sup>	7.2	0.52
594494B	806	1023	4.0	130*	2.0	3.0	2.5 <sup>^</sup>	2.0 <sup>^</sup>	7.8	0.39
594495	719	1013	2.5	76	1.0	2.5	2.2	3.5	8.2	1.12
594498A	730	1020	3.5	152*	2.0	3.0	2.8*	--	7.8	1.24
594498B	726	1020	3.5	115*	2.0	3.0	2.8	--	10.0	0.60
594499	731	1025	4.0	131*	2.0	3.5	2.5 <sup>^</sup>	--	9.8	0.40
594500A	723	1015	3.5	84	1.5	2.5	3.0	--	10.2	0.30
594500B	727	1011	3.5	120	1.5	2.5	2.5	--	10.7	0.81
594500C	719	1011	3.5	204*	2.0	3.0	2.8	--	8.0	0.52
594500D	727	1019	4.0	156*	2.0	3.0	2.0 <sup>^</sup>	--	6.2 <sup>^</sup>	0.39
594501B	713	905	3.0	92	3.0	4.5	1.8	--	7.3	2.55
594502	727	1018	3.5	175*	1.5	3.0	2.5 <sup>^</sup>	--	6.4	0.32
594503	804	1023*	4.5	160*	1.5	2.5	3.5 <sup>^</sup>	--	6.4	0.20
594505A	814	1022*	4.5	142*	1.5	3.0*	3.0 <sup>^</sup>	--	7.8	0.44
594505B	825	1029*	4.5	155*	1.5	2.5	2.5 <sup>^</sup>	--	8.2	0.34
594509A	729	1011	2.5	102	2.0	3.0	3.0	--	8.8	0.96
594510A	806	1019	3.5	122*	1.5	2.5	3.0	--	8.4	0.73
594510B	809	1025	3.5	103	2.0	3.0	2.5 <sup>^</sup>	--	8.9	0.67
594511A	730	1019	3.5	102	2.0	3.0	2.5	--	8.4	0.75
594511B	727	1014	3.5	113	2.0	3.0	2.5	--	8.6	0.81
594511C	721	1023*	4.0	170*	1.0	2.0	3.0 <sup>^</sup>	--	10.2 <sup>^</sup>	0.35



Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594458A	VII	56.0	12.7	12.1	3.5	17.4	58.4	8.6
594458B	VII	53.1 <sup>^</sup>	14.7 <sup>^</sup>	11.6 <sup>^</sup>	4.0 <sup>^</sup>	19.9 <sup>^</sup>	57.0 <sup>^</sup>	7.5 <sup>^</sup>
594468	V	49.7 <sup>w</sup>	14.3 <sup>w</sup>	11.3	2.7	19.7	59.2	7.1
594470A	VII	49.1	15.2	12.6	3.4	21.8	54.4	7.8
594470B	VIII	52.6 <sup>^</sup>	13.3 <sup>^</sup>	11.4 <sup>^</sup>	3.6 <sup>^</sup>	17.7 <sup>^</sup>	57.9 <sup>^</sup>	9.4 <sup>^</sup>
594470C	VIII	50.7 <sup>^</sup>	15.0 <sup>^</sup>	12.1 <sup>^</sup>	3.4 <sup>^</sup>	18.2 <sup>^</sup>	57.7 <sup>^</sup>	8.5 <sup>^</sup>
594471C	IV	45.9	16.4	12.8	2.3	21.1	56.4	7.5
594471D	VI	53.7	13.7	12.2	4.0	19.9	56.1	7.8
594471E	VII	51.0 <sup>^</sup>	15.6 <sup>^</sup>	12.5	3.7	19.8	55.5	8.4
594473	VI	53.5	13.5	11.7	3.4	17.8	58.6	8.5
594474	VI	52.5	15.6	13.0	3.4	19.4	57.1	7.2
594475A	VII	54.1	12.4	11.5	3.7	19.7	56.9	8.1
594475B	VII	52.0	15.4	12.5	3.5	19.7	57.0	7.2
594477	V	46.6 <sup>w</sup>	15.4 <sup>w</sup>	12.3	3.1	20.8	55.2	8.5
594480B	V	49.6 <sup>w</sup>	14.6 <sup>w</sup>	13.0	2.9	22.9	53.9	7.3
594480C	VII	50.6 <sup>w^</sup>	14.2 <sup>w^</sup>	12.7	3.8	17.5	56.3	9.7
594481	IV	48.7 <sup>w</sup>	13.4 <sup>w</sup>	11.8	2.7	24.3	54.4	6.9
594485	VIII	46.6 <sup>^</sup>	17.1 <sup>^</sup>	11.3 <sup>^</sup>	4.3 <sup>^</sup>	21.2 <sup>^</sup>	56.3 <sup>^</sup>	6.9 <sup>^</sup>
594486C	V	45.4 <sup>w</sup>	16.6 <sup>w</sup>	12.4	3.3	20.0	55.1	9.2
594487	VIII	48.7 <sup>w^</sup>	15.0 <sup>w^</sup>	11.8 <sup>^</sup>	4.0 <sup>^</sup>	17.3 <sup>^</sup>	57.5 <sup>^</sup>	9.3 <sup>^</sup>
594490	VII	47.9 <sup>w</sup>	16.4 <sup>w</sup>	12.0	3.5	21.8	54.6	8.0
594491	VI	51.8 <sup>w</sup>	13.2 <sup>w</sup>	11.6	3.3	17.9	57.7	9.5
594492A	V	47.7 <sup>w</sup>	16.0 <sup>w</sup>	12.3	2.7	15.6	61.1	8.3
594492B	V	49.1 <sup>w</sup>	14.8 <sup>w</sup>	12.8	3.3	16.3	59.2	8.4
594493	VII	50.6	14.5	11.7	3.4	18.2	59.2	7.6
594494A	VIII	49.5 <sup>^</sup>	13.6 <sup>^</sup>	11.4 <sup>^</sup>	3.7 <sup>^</sup>	17.5 <sup>^</sup>	58.0 <sup>^</sup>	9.4 <sup>^</sup>
594494B	VIII	51.1 <sup>^</sup>	15.5 <sup>^</sup>	12.2 <sup>^</sup>	3.9 <sup>^</sup>	18.7 <sup>^</sup>	56.5 <sup>^</sup>	8.8 <sup>^</sup>
594495	VII	51.4 <sup>w</sup>	14.6 <sup>w</sup>	11.8	3.5	18.0	58.5	8.2
594498A	VII	44.8 <sup>w^</sup>	16.0 <sup>w^</sup>	12.3	3.5	16.9	59.3	8.1
594498B	VII	45.3 <sup>w^</sup>	16.0 <sup>w^</sup>	12.5	3.4	17.3	59.0	7.8
594499	VIII	43.9 <sup>w^</sup>	17.2 <sup>w^</sup>	11.6 <sup>^</sup>	3.4 <sup>^</sup>	20.9 <sup>^</sup>	55.7 <sup>^</sup>	8.3 <sup>^</sup>
594500A	VII	48.3 <sup>w^</sup>	14.2 <sup>w^</sup>	12.8	3.4	16.0	58.4	9.4
594500B	VII	45.8 <sup>w^</sup>	17.0 <sup>w^</sup>	11.8	3.5	19.4	58.2	7.2
594500C	VII	48.9 <sup>w^</sup>	14.5 <sup>w^</sup>	13.2	3.4	17.4	57.7	8.3
594500D	VII	47.8 <sup>w^</sup>	14.4 <sup>w^</sup>	12.3 <sup>^</sup>	2.9 <sup>^</sup>	15.0 <sup>^</sup>	58.8 <sup>^</sup>	10.9 <sup>^</sup>
594501B	IV	45.7 <sup>w^</sup>	16.7 <sup>w^</sup>	12.9	3.7	18.5	56.6	8.3
594502	VII	49.7 <sup>w^</sup>	13.8 <sup>w^</sup>	12.7 <sup>^</sup>	2.9 <sup>^</sup>	14.3 <sup>^</sup>	58.4 <sup>^</sup>	11.6 <sup>^</sup>
594503	VIII	43.9 <sup>w^</sup>	14.5 <sup>w^</sup>	11.4 <sup>^</sup>	3.3 <sup>^</sup>	16.8 <sup>^</sup>	58.4 <sup>^</sup>	10.1 <sup>^</sup>
594505A	VIII	44.0 <sup>^</sup>	12.1 <sup>^</sup>	11.5 <sup>^</sup>	3.6 <sup>^</sup>	16.1 <sup>^</sup>	57.2 <sup>^</sup>	11.5 <sup>^</sup>
594505B	VIII	46.8 <sup>^</sup>	13.9 <sup>^</sup>	11.4 <sup>^</sup>	3.6 <sup>^</sup>	20.6 <sup>^</sup>	54.7 <sup>^</sup>	9.6 <sup>^</sup>
594509A	VII	48.3 <sup>w^</sup>	14.7 <sup>w^</sup>	12.7	3.9	15.7	58.5	9.2
594510A	VII	49.0 <sup>w^</sup>	13.9 <sup>w^</sup>	12.0	3.5	18.5	57.8	8.3
594510B	VIII	44.2 <sup>^</sup>	14.3 <sup>^</sup>	11.8 <sup>^</sup>	3.7 <sup>^</sup>	18.7 <sup>^</sup>	56.4 <sup>^</sup>	9.5 <sup>^</sup>
594511A	VII	45.4 <sup>w^</sup>	15.2 <sup>w^</sup>	12.7	3.7	19.3	56.1	8.1
594511B	VII	45.9 <sup>w^</sup>	16.9 <sup>w^</sup>	13.3	3.7	18.5	55.8	8.7
594511C	VIII	42.3 <sup>w^</sup>	18.5 <sup>w^</sup>	12.3 <sup>^</sup>	4.0 <sup>^</sup>	20.7 <sup>^</sup>	58.0 <sup>^</sup>	5.0 <sup>^</sup>

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594512A	Bian zi jiang se dou	Sichuan	China	China	1996	VII
594512B	(Bian zi jiang se dou)	Sichuan	China	China	1996	VII
594512C	(Bian zi jiang se dou)	Sichuan	China	China	1996	VIII
594512D	(Bian zi jiang se dou)	Sichuan	China	China	1996	VIII
594513	Hua mei dou	Sichuan	China	China	1996	VI
594515	Hua lian dou	Sichuan	China	China	1996	VI
594547	Shang rao xiao huang zhu	Jiangxi	China	China	1996	VII
594548	Heng feng gui zi dou	Jiangxi	China	China	1996	VII
594549A	Ba yue huang	Jiangxi	China	China	1996	VI
594549B	(Ba yue huang)	Jiangxi	China	China	1996	VII
594549C	(Ba yue huang)	Jiangxi	China	China	1996	VII
594551	Bai mao dou	Jiangxi	China	China	1996	VI
594553	Xi dou zi	Jiangxi	China	China	1996	VII
594555A	Chou yi wo	Jiangxi	China	China	1996	VII
594555B	(Chou yi wo)	Jiangxi	China	China	1996	VII
594556	Su mao zuang	Jiangxi	China	China	1996	VI
594557A	Lao shu dou	Jiangxi	China	China	1996	VI
594557B	(Lao shu dou)	Jiangxi	China	China	1996	VII
594558	Ba yue huang	Jiangxi	China	China	1996	VII
594560A	Xia shui huang	Jiangxi	China	China	1996	VIII
594561	Xia shui huang	Jiangxi	China	China	1996	VIII
594562A	Qing pi dou	Jiangxi	China	China	1996	VII
594564	Du gu dou	Jiangxi	China	China	1996	VII
594567A	Sui dao huang	Jiangxi	China	China	1996	VI
594567B	(Sui dao huang)	Jiangxi	China	China	1996	V
594567C	(Sui dao huang)	Jiangxi	China	China	1996	VI
594567D	(Sui dao huang)	Jiangxi	China	China	1996	V
594568A	Ba yue huang	Jiangxi	China	China	1996	V
594568B	(Ba yue huang)	Jiangxi	China	China	1996	V
594568C	(Ba yue huang)	Jiangxi	China	China	1996	VII
594570A	Xiao huang dou	Jiangxi	China	China	1996	VII
594570B	(Xiao huang dou)	Jiangxi	China	China	1996	VII
594572A	Luo han dou	Jiangxi	China	China	1996	VII
594572B	(Luo han dou)	Jiangxi	China	China	1996	VI
594573	Lu pi dou	Jiangxi	China	China	1996	VII
594574	Qing pi tian dou	Jiangxi	China	China	1996	VIII
594577	Yue yang huang dou	Hunan	China	China	1996	VI
594579	Zhong he tian cheng dou	Hunan	China	China	1996	V
594585	An hua chi huang dou (bing)	Hunan	China	China	1996	VII
594586A	Bao jing niu mao huang (jia)	Hunan	China	China	1996	IV
594586B	(Bao jing niu mao huang (jia))	Hunan	China	China	1996	VII
594586C	(Bao jing niu mao huang (jia))	Hunan	China	China	1996	VIII
594588	Long shan mao ping huang dou		Hunan	China	China	1996
	VII					
594589	Qian yang huang dou	Hunan	China	China	1996	VI
594590	Cheng bu jiu yue dou	Hunan	China	China	1996	VII
594591A	Sui ning ba yue huang (jia)	Hunan	China	China	1996	VI

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594512A	VII	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
594512B	VII	D	W	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
594512C	VIII	D	W	T	Sa	N	Bl	I	Br	Rbr	Vsc	3N
594512D	VIII	D	W	T	Sa	N	Bl	I	Br	Rbr	Sdef, Vsc	2N
594513	VI	D	W	T	Sa	Ssp	Tn	D	Br	Br	Sdef, St	2N
594515	VI	D	W	T	E	Ssp	Tn	Lb	Br	Br	Sdef, St	2N
594547	VII	D	P	G	A	Ssp	Br	I	Y	Bf		3N
594548	VII	N	P	T	Va	Ssp	Br	D	Y	Br		3N
594549A	VI	N	W	T	A	Ssp	Br	I	Y	Br		2N
594549B	VII	N	P	T	A	Ssp	Br	I	Y	Br		2N
594549C	VII	N	P	T	A	Ssp	Br	I	Y	Br		2N
594551	VI	D	P	T	Va	Ssp	Br	D	Y	Br		2N
594553	VII	D	P	T	A	Ssp	Tn	I	Y	Br		2N
594555A	VII	D	P	T	A	N	Tn	I	Y	Br		3N
594555B	VII	D	P	T	A	N	Tn	I	Y	Br		3N
594556	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
594557A	VI	D	P	G	A	N	Br	I	Y	Bf		3N
594557B	VII	D	W	T	A	N	Tn	I	Y	Br		3N
594558	VII	D	P	G	A	N	Br	I	Y	Bf		3N
594560A	VIII	D	P	G	A	N	Br	I	Gn	Bf	Vsc	2N
594561	VIII	D	P	T	A	N	Br	I	Gn	Br	Vhil, Vsc	2N
594562A	VII	D	P	T	A	Ssp	Br	I	Gn	Br	Sdef, Vhil	3N
594564	VII	D	P	T	A	Ssp	Br	I	Y	Br		2N
594567A	VI	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	3N
594567B	V	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	4N
594567C	VI	D	W	G	Sa	N	Tn	I	Y	Bf	Vhil	4N
594567D	V	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	3N
594568A	V	D	P	G	Sa	N	Tn	I	Y	Lbf	Vhil	2N
594568B	V	D	P	G	E	N	Tn	I	Y	Lbf	Vhil	2N
594568C	VII	D	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
594570A	VII	D	P	T	A	Ssp	Br	I	Y	Br		2N
594570B	VII	D	P	T	A	Ssp	Br	I	Y	Bl	Vhil	3N
594572A	VII	D	P	T	A	N	Br	I	Gn	Br		3N
594572B	VI	D	P	T	A	Ssp	Br	I	Gn	Br		2N
594573	VII	D	P	G	A	Ssp	Br	I	Gn	Bf		2N
594574	VIII	D	P	G	A	N	Tn	I	Gn	Bf		3N
594577	VI	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	2N
594579	V	D	P	T	A	Ssp	Br	I	Y	Br	Sdef, Vhil	2N
594585	VII	D	W	T	A	N	Tn	I	Y	Br		2N
594586A	IV	D	W	T	A	N	Br	I	Y	Br	Sdef	2N
594586B	VII	D	P	T	A	N	Br	I	Y	Br		2N
594586C	VIII	D	P	T	A	Ssp	Br	I	Y	Br		2N
594588	VII	D	P	T	A	Ssp	Br	I	Y	Br	Sdef, Vhil	2N
594589	VI	D	P	T	A	Ssp	Tn	I	Y	Br		3N
594590	VII	D	P	T	A	Ssp	Br	I	Y	Br	Sdef, Vhil	2N
594591A	VI	D	P	T	A	Ssp	Tn	I	Y	Br	Sdef	2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594512A	729	1014	3.0	106	2.0	3.0	2.8	--	8.0	0.61
594512B	806	1020	3.0	104	2.0	3.0	2.8	--	9.8	0.94
594512C	806	1025	3.5	102	1.5	2.5	2.5 <sup>^</sup>	--	9.0	0.62*
594512D	731	1025	3.5	104	1.5	2.5	2.5 <sup>^</sup>	--	9.0	0.53
594513	724	1005	2.5	107	1.0	1.5	2.5	--	14.7	1.39
594515	722	1005	2.5	100	1.0	1.5	2.5	--	14.3	1.29
594547	807	1011	3.0*	126	2.5	3.5	2.8	2.0	13.2	1.61
594548	801	1010	3.5	145*	1.0	2.0	2.5	3.0	13.2	1.05
594549A	810	1009	4.0	152*	1.5	2.5	2.5	2.0	11.2	0.81
594549B	816	1013	3.5	139*	1.5	2.5	2.0	2.0	9.4	1.38
594549C	816	1013	3.5	148	1.5	2.5	3.0	2.5	11.4	0.79
594551	806	1005	3.0	119*	3.0	4.5	3.0	3.0	12.6	0.71
594553	813	1011	3.0*	96	1.0	2.0	3.0	1.5	10.2	1.07
594555A	806	1015	4.0	98	2.0*	3.5*	3.0	2.0	13.9	0.74
594555B	813	1014	4.0	158*	2.0*	3.5*	3.0	2.0	14.4*	0.72
594556	816	1006	3.5	104	2.0	3.5	2.5	3.0	6.8	1.01
594557A	806	1009	3.5	107	1.0	2.0	2.8	2.0	15.4	0.56
594557B	810	1021	3.5	94*	1.0	2.0	2.8	3.0	12.2	0.59
594558	809	1012	4.0	122	2.0	3.0	3.5	2.0	15.1	0.36
594560A	813	1023	4.0	138*	1.5	2.5	3.0 <sup>^</sup>	3.0 <sup>^</sup>	10.9	0.33
594561	813	1022	4.5	200	1.5	2.5	2.5 <sup>^</sup>	1.0 <sup>^</sup>	11.6	0.40
594562A	816	1020*	4.5	142*	1.5	2.5	3.0 <sup>^</sup>	2.0 <sup>^</sup>	13.2	0.33
594564	813	1013*	3.5	108*	1.5	2.5	3.0	3.0*	9.1	0.70
594567A	713	928	2.5	78	1.5	3.0	3.0	1.0	16.1	1.66
594567B	713	927	2.0	87	1.5	3.0	2.8*	1.0	16.4	1.87
594567C	730	1001	2.0	102	1.5	2.0*	2.2	1.5	12.4	1.36
594567D	715	927	1.0	78	1.5	3.0	2.8	1.5	15.0	1.39
594568A	719	927	1.0	72	1.0	1.0	2.0	1.5	11.9	2.30
594568B	714	926	2.0	95	1.0	1.0	2.0	1.0	11.6	2.63
594568C	719	1021*	3.0	145*	2.0	3.0	3.5*	1.0	15.1	1.01
594570A	808	1011	4.0	130*	2.0	3.0	3.0	2.5	12.8*	0.81
594570B	806	1011	4.0	104	2.0	3.0	2.5	2.5	11.1	0.81
594572A	810	1015	3.5	110*	1.0	2.0	3.0	2.0	14.5	1.09
594572B	810	1007	4.0	138*	1.0	1.5	2.5	2.0	12.6	0.84
594573	812	1016	4.0	116*	2.5	3.5	2.5	2.0	13.8*	0.92
594574	818	1029*	4.0*	140	2.0 <sup>^</sup>	-	3.0 <sup>^</sup>	1.0 <sup>^</sup>	15.2 <sup>^</sup>	0.58 <sup>^</sup>
594577	809	1009	4.0	162*	2.0	3.0	2.2*	1.0	9.2	1.10
594579	719	919	2.0	48*	2.5	3.0*	1.8	2.0	11.3	2.36
594585	809	1013	3.5	130*	2.0	3.0	3.5*	3.5	9.6	0.65
594586A	703	913	2.5	70	2.5	4.0	2.0	2.0	13.1	2.04
594586B	810	1013	4.0	129*	2.5	3.5	2.5	3.0	12.4	0.73
594586C	813	1022	3.0	155	2.0	3.0	3.8	3.5	13.0	0.74
594588	804	1015	4.0	136*	1.5	3.0	3.0	2.5	7.7	1.05
594589	725	928	3.5	124*	1.5	2.5	2.2	2.0	11.7	1.62
594590	813	1012	4.0	130*	1.5	2.5	3.0	2.0	9.8*	0.55
594591A	726	930	3.5	123	2.0	3.0	2.2	3.0	11.1	1.20

Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594512A	VII	46.5 <sup>w^</sup>	16.2 <sup>w^</sup>	13.4	3.6	20.2	54.7	8.1
594512B	VII	47.2 <sup>w^</sup>	16.2 <sup>w^</sup>	12.5	3.5	19.3	55.8	8.8
594512C	VIII	43.8 <sup>w^</sup>	16.0 <sup>w^</sup>	11.2 <sup>^</sup>	3.3 <sup>^</sup>	19.5 <sup>^</sup>	56.3 <sup>^</sup>	9.8 <sup>^</sup>
594512D	VIII	46.4 <sup>w^</sup>	16.0 <sup>w^</sup>	12.0 <sup>^</sup>	3.8 <sup>^</sup>	19.0 <sup>^</sup>	55.7 <sup>^</sup>	9.5 <sup>^</sup>
594513	VI	45.7 <sup>w^</sup>	18.4 <sup>w^</sup>	11.4	3.2	23.4	53.8	8.2
594515	VI	46.1 <sup>w^</sup>	17.8 <sup>w^</sup>	11.3	2.9	21.7	55.0	9.1
594547	VII	47.3	16.1	11.6	3.3	22.1	54.5	8.5
594548	VII	48.0	16.3	11.8	3.3	24.5	53.1	7.3
594549A	VI	48.7	14.9	11.4	3.5	23.7	52.7	8.7
594549B	VII	48.6	17.2	12.3	3.6	22.6	53.5	8.0
594549C	VII	47.7	16.4	11.9	3.6	22.6	53.9	8.0
594551	VI	47.4	16.0	11.6	3.0	25.4	51.5	8.6
594553	VII	49.8	15.4	13.0	2.9	21.0	52.9	10.2
594555A	VII	47.6	16.3	12.2	3.4	27.0	50.5	6.9
594555B	VII	47.2	17.3	12.1	3.2	24.8	52.3	7.6
594556	VI	50.0	14.8	12.9	3.5	22.0	53.2	8.5
594557A	VI	50.3	14.8	12.3	3.8	22.9	53.3	7.8
594557B	VII	47.6	16.2	12.6	4.0	23.4	52.0	8.0
594558	VII	50.7	15.2	12.3	3.9	25.1	51.2	7.5
594560A	VIII	52.4 <sup>^</sup>	14.3 <sup>^</sup>	12.3 <sup>^</sup>	3.4 <sup>^</sup>	20.6 <sup>^</sup>	54.9 <sup>^</sup>	8.7 <sup>^</sup>
594561	VIII	47.5 <sup>^</sup>	18.0 <sup>^</sup>	11.6 <sup>^</sup>	3.8 <sup>^</sup>	22.2 <sup>^</sup>	54.5 <sup>^</sup>	8.0 <sup>^</sup>
594562A	VII	46.0 <sup>w^</sup>	15.1 <sup>w^</sup>	11.8 <sup>^</sup>	3.3 <sup>^</sup>	20.9 <sup>^</sup>	55.1 <sup>^</sup>	8.9 <sup>^</sup>
594564	VII	48.6	15.9	12.5	3.8	22.2	53.7	7.8
594567A	VI	47.9	16.8	12.9	3.0	21.2	55.0	7.8
594567B	V	47.9	16.6	12.6	2.8	19.7	58.3	6.5
594567C	VI	48.6	16.3	13.2	3.1	23.2	53.5	7.1
594567D	V	48.1	17.1	13.0	2.7	20.1	52.6	11.6
594568A	V	46.0	17.9	12.6	3.2	17.5	58.1	8.7
594568B	V	46.3	17.4	12.9	3.1	17.8	58.1	8.1
594568C	VII	46.0	18.9	11.7	3.2	22.3	55.2	7.6
594570A	VII	49.6	15.8	11.7	3.3	22.9	54.1	8.0
594570B	VII	48.7	15.5	11.0	3.7	25.4	52.3	7.6
594572A	VII	47.2 <sup>w</sup>	18.1 <sup>w</sup>	11.1	3.6	26.2	52.0	7.1
594572B	VI	46.9 <sup>w</sup>	18.2 <sup>w</sup>	11.8	3.5	25.7	51.4	7.7
594573	VII	47.8 <sup>w</sup>	17.6 <sup>w</sup>	11.1	3.7	23.7	54.0	7.6
594574	VIII	45.8 <sup>^</sup>	19.0 <sup>^</sup>	11.5 <sup>^</sup>	3.8 <sup>^</sup>	21.7 <sup>^</sup>	54.8 <sup>^</sup>	8.2 <sup>^</sup>
594577	VI	47.8	17.6	12.2	3.7	22.2	54.3	7.6
594579	V	46.9	17.1	11.9	3.0	19.3	55.7	10.1
594585	VII	50.6	13.9	12.8	3.5	20.7	54.6	8.5
594586A	IV	47.9	16.1	11.6	2.8	17.7	59.1	8.8
594586B	VII	46.5	17.1	12.5	3.5	25.0	51.9	7.1
594586C	VIII	47.7	15.5	12.7	3.9	25.3	51.1	7.1
594588	VII	48.9	16.3	12.2	3.7	22.3	53.8	8.0
594589	VI	45.6	17.6	13.3	4.0	25.1	50.1	7.6
594590	VII	51.0	14.8	11.9	3.6	23.5	52.2	8.8
594591A	VI	51.9	14.6	12.7	3.1	28.1	48.5	7.6

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594591B	(Sui ning ba yue huang (jia))	Hunan	China	China	1996	VI
594592	Shi yue xiao huang dou	Hunan	China	China	1996	VII
594594	Da tong huang dou	Hunan	China	China	1996	V
594595	Ba yue da huang dou (jia)	Hunan	China	China	1996	V
594596	Feng huang chi qing pi dou	Hunan	China	China	1996	VI
594602	Bao jing cha huang dou	Hunan	China	China	1996	V
594605A	Qi yue dou	Guizhou	China	China	1996	V
594605B	(Qi yue dou)	Guizhou	China	China	1996	V
594610	Bai dou	Guizhou	China	China	1996	VI
594613	Hua mu wan dou	Guizhou	China	China	1996	VI
594617	Qi chuan dou	Guizhou	China	China	1996	VI
594622	Da hei dou	Guizhou	China	China	1996	VI
594623	Da hei dou	Guizhou	China	China	1996	V
594627A	Xia kou bai shui dou No. 1	Guizhou	China	China	1996	V
594627B	(Xia kou bai shui dou No. 1)	Guizhou	China	China	1996	V
594629	Xiao hua lian	Guizhou	China	China	1996	VI
594630	Xiao huang pi dou	Guizhou	China	China	1996	VI
594631A	Xiao li dou	Guizhou	China	China	1996	V
594631B	(Xiao li dou)	Guizhou	China	China	1996	V
594635C	(Qing huang za dou No. 6)	Guizhou	China	China	1996	V
594635D	(Qing huang za dou No. 6)	Guizhou	China	China	1996	VI
594636	Qing huang za dou 12	Guizhou	China	China	1996	V
594639	Mi mi dou No. 6	Guizhou	China	China	1996	VI
594640	Mi mi dou No. 9	Guizhou	China	China	1996	V
594641	Mi mi dou No. 10	Guizhou	China	China	1996	VI
594642	Mi mi dou 15	Guizhou	China	China	1996	VI
594643	Ba yue huang No. 4	Guizhou	China	China	1996	V
594645	Liu yue zao dou No. 2	Guizhou	China	China	1996	VI
594652A	Xi huang zao dou No. 2	Guizhou	China	China	1996	V
594652B	(Xi huang zao dou No. 2)	Guizhou	China	China	1996	V
594653	Mi dou No. 2	Guizhou	China	China	1996	V
594654	Liu yue dou	Guizhou	China	China	1996	V
594655	Liu yue dou No. 2	Guizhou	China	China	1996	V
594656	Liu yue dou No. 2	Guizhou	China	China	1996	V
594657	Liu yue dou No. 3	Guizhou	China	China	1996	V
594658	Liu yue ba	Guizhou	China	China	1996	V
594659A	Liu yue ba No. 1	Guizhou	China	China	1996	V
594659B	(Liu yue ba No. 1)	Guizhou	China	China	1996	V
594659C	(Liu yue ba No. 1)	Guizhou	China	China	1996	V
594660A	Liu yue dou No. 1	Guizhou	China	China	1996	V
594660B	(Liu yue dou No. 1)	Guizhou	China	China	1996	V
594660C	(Liu yue dou No. 1)	Guizhou	China	China	1996	V
594660D	(Liu yue dou No. 1)	Guizhou	China	China	1996	V
594661	Liu yue dou No. 3	Guizhou	China	China	1996	V
594662A	Liu yue dou No. 6	Guizhou	China	China	1996	V
594662B	(Liu yue dou No. 6)	Guizhou	China	China	1996	V

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594591B	VI	D	W	T	A	N	Tn	I	Y	Br		3N
594592	VII	D	P	T	A	Ssp	Br	I	Y	Br	Sdef, Vhil	2N
594594	V	D	P	G	A	N	Tn	I	Y	Bf		2N
594595	V	D	P	T	A	N	Tn	I	Y	Br	Sdef, Vhil	3N
594596	VI	D	P	G	A	Ssp	Br	I	Gn	Bf	Vhil	3N
594602	V	D	W	T	A	Sp	Br	I	Br	Rbr	Vsc	2N
594605A	V	D	P	T	Sa	N	Br	D	Y	Br	Def, Vhil	2N
594605B	V	D	P	T	Sa	N	Br	D	Y	Br	Def, Vhil	2F
594610	VI	D	W	T	E	N	Br	I	Y	Br		3F
594613	VI	D	P	T	E	N	Br	I	Y	Br	Sdef	2N
594617	VI	D	W	T	E	N	Bl	I	Y	Br		3N
594622	VI	D	P	T	E	N	Br	Lb	Bl	Bl		4N
594623	V	D	P	T	A	Ssp	Br	I	Bl	Bl		2N
594627A	V	D	P	G	A	N	Tn	I	Y	Bf	Vhil	2N
594627B	V	D	P	G	A	Ssp	Tn	I	Y	Bf	Vhil	2N
594629	VI	D	P	G	A	N	Dbr	I	Y	Bf		2N
594630	VI	D	P	G	A	N	Tn	I	Y	Dbf		2N
594631A	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594631B	V	D	P	G	A	N	Br	I	Y	Lbf	Vhil	2N
594635C	V	D	P	G	A	N	Tn	I	Y	Lbf	Sdef, Vhil	2N
594635D	VI	D	W	G	A	N	Tn	I	Y	Lbf	Sdef, Vhil	2N
594636	V	D	W	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594639	VI	D	W	Lt	A	N	Br	I	Y	Br		2N
594640	V	D	P	G	A	N	Tn	I	Y	Bf		2N
594641	VI	D	W	G	A	N	Br	I	Y	Bf	Sdef	3N
594642	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
594643	V	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
594645	VI	D	P	G	A	N	Br	I	Y	Lbf	Sdef, Vhil	2N
594652A	V	D	W	G	A	N	Tn	I	Y	Lbf	Sdef, Vhil	2N
594652B	V	D	W	G	A	N	Br	I	Y	Bf	Vhil	2N
594653	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594654	V	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	2N
594655	V	D	P	G	A	N	Br	I	Y	Lbf	Vhil	2N
594656	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594657	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594658	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594659A	V	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	2N
594659B	V	D	P	G	A	N	Br	I	Y	Lbf	Vhil	2N
594659C	V	D	P	G	A	Ssp	Br	I	Y	Lbf	Vhil	2N
594660A	V	D	W	G	A	N	Br	I	Y	Bf		2N
594660B	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594660C	V	D	P	G	A	N	Br	I	Y	Lbf	Vhil	2N
594660D	V	D	P	G	A	Ssp	Br	I	Y	Lbf	Vhil	2N
594661	V	D	W	G	A	N	Br	I	Y	Lbf	Def, Vhil	2N
594662A	V	D	W	G	A	N	Br	I	Y	Bf		2N
594662B	V	D	W	G	A	N	Br	I	Y	Bf		2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594591B	806	1007	3.0	102	2.0	3.0	3.0	3.0*	9.4	1.15
594592	814	1012	4.0	138	1.5	2.5	3.0	2.5	9.5	0.64
594594	725	927	3.5	115	2.5	3.5	2.2	2.0	10.1	1.09
594595	713	923	3.0	118	1.5	3.5	2.8	1.5	16.3	2.07
594596	730	1004	4.0	210	1.5	3.0	2.8	2.0	9.8	0.67
594602	717	926	3.0	106	2.0	3.0	2.0	--	14.4*	2.22
594605A	713	927	3.5	100	3.0	4.0	3.2*	2.0	12.6	1.93
594605B	711	927	3.5	96	2.0*	3.0*	3.2	2.0	12.8	1.99
594610	725	1001	2.5	92	1.0	2.0	3.2	3.0	11.0	0.90
594613	723	929	3.5	146*	1.5	2.5	2.2	3.0	12.0	1.67
594617	715	1001	3.0	108*	2.5	3.5	2.8	4.0*	12.4	0.77
594622	713	1005	3.5	119	2.5	3.5	2.2	--	13.3	1.05
594623	713	923	4.0	94	2.0*	3.5*	2.5	--	16.6*	2.11
594627A	714	923	3.0	102	2.0*	3.5	2.8*	1.5	7.9	2.14
594627B	720	923	3.0	98	2.0*	3.0*	2.2	2.0	9.1	1.50
594629	729	1001	3.5	138*	2.5	4.0*	2.2	3.0	8.8	1.47
594630	727	1001	4.0	96	1.5	3.0	2.0	3.5	8.4	1.11
594631A	719	923	3.0	82	2.5	3.5	2.0	2.0	8.5	1.82
594631B	725	921	3.5	128*	2.5	3.5	2.2	2.0	6.6	1.84
594635C	719	921	3.0	105	3.0	4.0	2.5	1.5	8.4	1.97
594635D	723	929	4.0	102	1.5	3.0	2.2	1.0	10.2	1.29*
594636	727	927	3.5	115*	2.5	3.5	2.2	1.0	8.1	1.19
594639	802	929	4.0	114	1.5	3.0	2.5	2.5	12.2	1.68
594640	727	923	4.0	114	2.0	3.0	2.0	3.0	7.1	1.20
594641	725	1001	4.0	106	1.5	2.5	2.8	2.0	12.4	1.22
594642	725	930	3.0*	102*	1.5	3.0	2.2	3.0	9.5	1.13
594643	725	922	2.5	112	2.0*	3.5	2.0	2.0	8.5	2.03
594645	718	929	2.5	96	1.5	3.0	2.8	2.0	12.1	1.17
594652A	725	925	3.5	108	1.5	3.0	2.2	2.0	8.8	1.73
594652B	713	925	4.0	105*	1.5	3.0	1.8	1.5	10.9	1.89*
594653	715	923	2.0	105*	1.5	2.5	2.0	2.0	8.6	2.06
594654	714	924	2.5	84	1.5	2.5	2.0	2.0	9.0	1.71
594655	725	925	3.5	94	1.5	2.5	2.2	2.0	8.3	1.70
594656	719	923	3.0	93	1.5	3.0	2.2	1.0	7.5	2.67
594657	725	922	2.0	122*	1.5	3.0	2.5*	2.0	8.4	2.14
594658	719	921	2.5	100	2.0	3.0	2.0	1.5	9.0	1.90
594659A	725	923	3.5	120	2.0*	3.5	2.2*	2.0	8.4	2.02*
594659B	727	924	4.0	122*	2.5	3.5	2.2	1.5	8.4	1.31
594659C	723	927	2.5	95	2.0*	4.0*	2.0	1.5	7.9	1.76
594660A	717	923	3.0	103	3.5	5.0	2.0	3.0	8.6	2.03*
594660B	725	923	3.5	109	2.0*	3.0*	2.8*	1.5	9.8	1.41
594660C	721	927	3.5	98*	2.0*	4.0*	2.0	1.5	8.4	2.31
594660D	715	926	3.5	98	2.0*	3.0*	2.0	1.5	8.2	2.45
594661	721	927	3.5	108*	2.0*	3.5*	2.5	1.5	9.2	1.76
594662A	725	927	3.5	114*	2.0*	3.0*	2.0	2.5	6.4	1.56
594662B	725	923 <sup>^</sup>	3.0*	110	2.0*	2.5*	2.0	2.0	5.6	1.64



Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594591B	VI	50.9	14.6	11.9	3.1	20.3	55.4	9.2
594592	VII	49.7	16.0	12.3	4.0	23.6	52.4	7.8
594594	V	49.0	17.2	12.6	2.7	19.8	55.9	9.1
594595	V	45.5	17.5	13.6	2.8	22.2	52.3	9.2
594596	VI	52.9 <sup>w</sup>	15.1 <sup>w</sup>	12.4	3.4	21.3	55.6	7.3
594602	V	42.7 <sup>w</sup>	18.6 <sup>w</sup>	11.6	3.0	25.0	52.5	7.8
594605A	V	47.7	17.4	13.3	2.7	16.2	59.7	8.2
594605B	V	48.3	16.9	12.8	2.7	16.5	59.9	8.1
594610	VI	50.3	14.7	13.2	3.5	18.2	57.3	7.8
594613	VI	50.7	15.0	13.3	3.6	19.1	55.7	8.4
594617	VI	50.1	14.6	14.2	3.1	18.0	57.0	7.6
594622	VI	47.5 <sup>w^</sup>	18.4 <sup>w^</sup>	11.3	3.1	23.3	55.1	7.1
594623	V	43.3 <sup>w^</sup>	20.8 <sup>w^</sup>	12.6	3.2	19.9	57.2	7.1
594627A	V	46.8	15.7	12.2	2.8	21.7	55.3	8.0
594627B	V	46.1	15.0	11.4	2.5	20.6	56.8	8.7
594629	VI	49.5	14.5	14.0	4.0	21.5	52.8	7.6
594630	VI	51.7	13.3	12.5	3.5	21.5	53.2	9.3
594631A	V	47.3	15.4	12.1	3.1	23.0	54.3	7.6
594631B	V	48.9	13.2	11.6	2.8	18.7	58.2	8.6
594635C	V	47.9	14.3	12.2	2.8	20.0	56.4	8.7
594635D	VI	47.9	16.8	12.8	3.4	20.7	55.5	7.7
594636	V	45.0	18.5	12.4	3.4	20.6	55.5	8.1
594639	VI	46.1	17.6	11.5	3.6	22.9	54.6	7.4
594640	V	49.1	14.3	11.7	2.9	18.0	58.7	8.7
594641	VI	48.6	16.4	12.0	2.9	27.4	50.8	6.9
594642	VI	50.4	15.8	11.6	3.8	24.0	53.8	6.9
594643	V	51.4	13.7	12.3	2.9	20.5	56.1	8.2
594645	VI	48.3	17.1	12.8	3.4	21.7	55.1	7.1
594652A	V	50.5	14.0	12.4	2.7	19.8	55.8	9.4
594652B	V	49.2	16.1	12.2	3.0	20.1	56.8	8.0
594653	V	44.8	17.1	11.6	3.2	23.7	54.2	7.3
594654	V	47.4	14.6	11.6	2.6	19.1	57.2	9.5
594655	V	49.9	13.1	11.5	3.1	17.8	57.9	9.7
594656	V	49.0	12.2	12.2	2.7	15.1	58.8	11.2
594657	V	46.4	14.1	11.3	2.8	18.7	57.8	9.5
594658	V	47.6	14.5	11.5	2.9	18.1	58.4	9.1
594659A	V	47.3	14.1	11.2	2.9	20.2	56.9	8.7
594659B	V	49.4	14.2	12.2	3.1	20.8	55.7	8.3
594659C	V	46.6	15.9	12.4	3.0	19.1	57.1	8.4
594660A	V	51.0	13.9	12.8	3.1	19.6	55.9	8.6
594660B	V	47.5	15.4	12.4	3.0	22.6	54.7	7.3
594660C	V	47.5	15.0	11.6	3.0	17.1	59.0	9.2
594660D	V	48.6	14.5	11.8	2.9	18.1	57.9	9.4
594661	V	48.8	15.3	12.0	2.9	18.6	58.2	8.3
594662A	V	49.5	12.4	12.1	3.2	15.1	59.2	10.5
594662B	V	51.8	11.5	12.2	3.2	15.6	58.6	10.4

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594663	Bai shui dou No. 2	Guizhou	China	China	1996	V
594664	E shui zao No. 2	Guizhou	China	China	1996	IV
594665	Liu yue mang No. 3	Guizhou	China	China	1996	V
594666A	Liu yue mang No. 5	Guizhou	China	China	1996	VI
594666B	(Liu yue mang No. 5)	Guizhou	China	China	1996	VI
594667	Jiang kou huang dou No. 4	Guizhou	China	China	1996	V
594668	Huang dou zi	Guizhou	China	China	1996	V
594669	Liu yue mang	Guizhou	China	China	1996	V
594670C	(Huang dou No. 2)	Guizhou	China	China	1996	IV
594670D	(Huang dou No. 2)	Guizhou	China	China	1996	IV
594671	Liu yue mang No. 2	Guizhou	China	China	1996	V
594672	Liu yue mang No. 3	Guizhou	China	China	1996	V
594673	Jiang kou qing pi dou No. 8	Guizhou	China	China	1996	VI
594674A	Qing pi dou	Guizhou	China	China	1996	VI
594674B	(Qing pi dou)	Guizhou	China	China	1996	VI
594674C	(Qing pi dou)	Guizhou	China	China	1996	VII
594675	Huang dou No. 1	Guizhou	China	China	1996	V
594677	Huang dou No. 7	Guizhou	China	China	1996	V
594678	Huang dou No. 1	Guizhou	China	China	1996	V
594679	Huang dou No. 3	Guizhou	China	China	1996	V
594680	Huang dou No. 2	Guizhou	China	China	1996	V
594681	Huang dou	Guizhou	China	China	1996	V
594682B	(Liu yue ba)	Guizhou	China	China	1996	IV
594683A	Liu yue ba No. 10	Guizhou	China	China	1996	V
594683B	(Liu yue ba No. 10)	Guizhou	China	China	1996	V
594683C	(Liu yue ba No. 10)	Guizhou	China	China	1996	V
594686	Zao huang dou	Guizhou	China	China	1996	IV
594688	Liu yue huang No. 1	Guizhou	China	China	1996	VII
594690B	(Za dou No. 2)	Guizhou	China	China	1996	IV
594694	Bai shui dou No. 4	Guizhou	China	China	1996	IV
594697	Xing shan bai shui dou	Guizhou	China	China	1996	V
594698	Huang dou 13	Guizhou	China	China	1996	V
594699	Huang dou No. 1	Guizhou	China	China	1996	VI
594700A	Qing huang za dou No. 7	Guizhou	China	China	1996	V
594700B	(Qing huang za dou No. 7)	Guizhou	China	China	1996	V
594701	Qing huang za dou No. 10	Guizhou	China	China	1996	VI
594702	Liu yue bao No. 6	Guizhou	China	China	1996	V
594703	Qing pi dou No. 1	Guizhou	China	China	1996	VI
594704	Qing pi dou No. 2	Guizhou	China	China	1996	V
594705	Qing pi dou No. 3	Guizhou	China	China	1996	V
594706	Qing pi dou	Guizhou	China	China	1996	V
594707	Da hei dou	Guizhou	China	China	1996	VII
594709	Hei dou No. 2	Guizhou	China	China	1996	VI
594711A	Qing huang za dou No. 3	Guizhou	China	China	1996	V
594711B	(Qing huang za dou No. 3)	Guizhou	China	China	1996	V
594717A	Liu cheng shi yue huang	Guangxi	China	China	1996	VII

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594663	V	D	P	G	A	N	Br	I	Lgn	Lbf	Vhil	2N
594664	IV	D	P	G	A	Ssp	Br	I	Y	Bf		2N
594665	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594666A	VI	D	P	G	A	Ssp	Br	I	Y	Bf	Def	2N
594666B	VI	D	P	G	A	Ssp	Br	I	Y	Bf	Sdef	2N
594667	V	D	W	G	A	Ssp	Br	I	Y	Bf		2N
594668	V	D	P	G	A	N	Tn	I	Lgn	Lbf	Vhil	2N
594669	V	D	P	G	A	Ssp	Br	I	Y	Bf	Sdef	2N
594670C	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	2N
594670D	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	2N
594671	V	D	P	G	A	N	Tn	I	Lgn	Lbf	Vhil	2N
594672	V	D	P	G	A	N	Tn	I	Lgn	Lbf	Vhil	2N
594673	VI	D	W	T	A	N	Br	I	Y	Br		2N
594674A	VI	D	W	T	A	Ssp	Br	I	Lgn	Brbl	Vhil, Vsc	3N
594674B	VI	D	W	G	A	Ssp	Br	I	Y	Bf		2N
594674C	VII	D	P	G	A	Ssp	Br	I	Y	Bf		2N
594675	V	D	W	G	A	N	Br	I	Y	Bf	Sdef	2N
594677	V	D	W	Lt	A	N	Br	I	Y	Brbl	Vhil	2N
594678	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594679	V	D	W	G	A	N	Br	I	Y	Bf		2N
594680	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594681	V	D	P	Lt	A	N	Br	I	Y	Brbl	Vhil	2N
594682B	IV	D	W	G	A	N	Br	I	Y	Lbf	Vhil	3N
594683A	V	D	P	G	A	N	Tn	I	Y	Lbf	Vhil	2N
594683B	V	D	P	G	A	Ssp	Br	I	Y	Lbf	Vhil	2N
594683C	V	D	P	G	A	Ssp	Tn	I	Y	Lbf	Vhil	2N
594686	IV	D	P	G	A	N	Br	I	Y	Bf	Sdef	2N
594688	VII	D	P	G	E	N	Br	I	Y	Bf	Vhil	2N
594690B	IV	D	P	G	A	N	Br	I	Y	Bf		2N
594694	IV	D	P	G	A	N	Br	I	Y	Bf		2N
594697	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
594698	V	D	W	Lt	A	N	Br	I	Y	Brbl	Sdef, Vhil	2N
594699	VI	D	W	G	A	Ssp	Br	I	Gn	Bf	Sdef	2N
594700A	V	D	W	G	A	N	Br	I	Gn	Lbf		2N
594700B	V	D	W	G	A	N	Br	I	Gn	Bf		2N
594701	VI	D	W	G	A	N	Br	I	Gn	Bf		2N
594702	V	D	P	G	A	N	Br	I	Gn	Bf	Sdef	2N
594703	VI	D	W	T	A	N	Br	I	Gn	Br	Sdef	2N
594704	V	D	W	T	A	N	Br	I	Gn	Br	Sdef	2N
594705	V	D	W	T	A	N	Br	I	Gn	Br	Sdef	2N
594706	V	D	W	T	A	N	Br	I	Gn	Br	Sdef	2N
594707	VII	D	P	T	A	Ssp	Br	I	Bl	Bl	Sdef	3N
594709	VI	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
594711A	V	D	W	T	A	N	Br	I	Gnbr	Gnbr	Def	2N
594711B	V	D	W	T	A	N	Br	I	Gnbr	Gnbr	Def	2N
594717A	VII	D	P	T	A	Ssp	Br	I	Y	Br	Sdef	2N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594663	723	927	3.5	96	2.5	4.0*	2.2	2.0	8.6	1.29
594664	703	913	2.0*	68*	2.0	3.5	1.8	2.0	12.8	2.22
594665	719	919	2.5	99	2.0*	3.0*	2.2*	1.0	8.6	2.14
594666A	727	1001	2.5	89	2.5	4.0*	2.8	1.5	11.2	1.66
594666B	727	1005	2.5	128	2.5	4.0*	2.5	3.0	11.1	0.83
594667	711	915	3.0	90	2.5	4.0	2.0	2.0	12.6	2.32
594668	719	917	2.5	86	2.5	3.5	2.5	1.0	8.4	1.79
594669	711	915	2.5	88*	3.0	4.5	2.0	2.0	11.0	2.67
594670C	707	905	2.5	82	2.5	4.5	2.2	2.5	10.4	2.28
594670D	713	913	2.5	74	2.5	4.0	1.8	2.0	6.6	1.72
594671	719	918	2.5	104	2.0*	3.5	2.8	1.0	8.2	1.96
594672	717	918	2.5	98	2.0*	3.0*	2.5	1.5	7.9	1.87
594673	802	1007	3.5	144*	2.5	4.0*	2.5	3.5	8.8	0.99
594674A	723	1006	3.5	96	1.0	2.0	3.0	2.5	10.2	1.12
594674B	727	1003	3.0*	106	1.0	2.5	2.8	2.0	9.4*	1.07
594674C	802	1011*	3.5	117*	1.5	2.5	2.8	2.0	10.4	0.99*
594675	711	915	2.0	96*	2.5	4.0	2.0	2.0	11.2	2.40
594677	711	917	2.5	88	2.5	3.5	2.2	2.5	10.4	2.12
594678	713	921	3.5	103	2.0*	3.0*	2.5*	1.0	8.8	2.13
594679	707	915	3.0	85	2.5	3.5	2.0	2.0	12.5	2.50
594680	714	919	2.5	97	2.0*	3.0*	2.0	1.0	8.6	2.40
594681	713	919	3.0	104	2.5	3.5	1.8	2.0	9.9	2.32
594682B	707	913	2.5	79*	2.5	4.0	2.0	2.0	9.7	2.22
594683A	715	927	3.5	104	1.5	2.0*	2.0	2.0	8.0	2.16
594683B	721	927	3.5	94	1.5	2.5	2.0	1.0	8.4	2.17
594683C	713	925	2.5	84*	1.5	2.0*	2.0	1.5	9.3	1.58
594686	707	911	2.5	85	2.5	5.0	2.0	2.0	12.1	2.94*
594688	802	1011	3.5	117	1.5	2.5	2.8	3.0*	6.8	0.60
594690B	707	911	2.5	94	2.5	4.5	2.2*	1.5	11.8	2.90
594694	707	911	2.5	80*	2.5	5.0	2.0	2.0	11.4	3.12
594697	714	919	3.5	96	2.5	4.0*	2.2	3.5	8.6	1.42
594698	711	915	2.0	82	2.0	3.5	2.0	3.0	11.8	2.40
594699	725	1004	3.5	108*	1.0	2.0	2.5	2.5	10.0	1.16
594700A	711	919	3.0	90	2.0*	2.5*	1.8	1.0	12.5	2.52
594700B	714	927	3.5	108	2.0*	3.0*	2.2	2.5	12.5*	1.42
594701	718	1003	3.5	127*	1.0	2.5	2.2	2.0	11.4	1.18
594702	711	921	2.5	88*	1.0	1.5	2.0	2.0	12.8	2.61
594703	719	929	2.5	82	1.0	1.5	2.5	2.0	10.4	1.73
594704	717	925	2.5	71	1.0	2.0	1.8	2.0	11.0	2.32*
594705	719	925	2.5	72	1.0	2.0	2.2	2.5	10.4	1.99*
594706	717	925	2.5	66	1.0	2.0	1.8	2.0	10.5	2.05
594707	810	1011	4.0	110*	1.5	2.5	3.5	--	12.1	0.77
594709	725	1001	3.0*	123	1.5	2.5	2.5	--	10.4	1.43
594711A	719	925	3.0	92	1.0	2.0	2.5	--	11.0	2.04
594711B	719	925	3.0	94	1.0	1.5	2.2	--	11.3	2.09*
594717A	816	1012	4.0	104*	1.5	2.5	3.5	2.5	10.0	0.71

Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594663	V	47.3	15.4	11.1	3.0	22.0	56.1	7.8
594664	IV	46.3	17.8	12.0	3.1	21.3	55.3	8.3
594665	V	48.1	13.2	12.6	3.1	21.3	54.7	8.2
594666A	VI	50.2	14.6	12.1	3.3	26.0	51.9	6.7
594666B	VI	51.9	14.2	12.3	3.6	25.4	51.9	6.7
594667	V	47.5	17.3	11.7	2.7	24.6	53.0	7.9
594668	V	48.5	14.4	12.9	2.9	20.7	55.4	8.1
594669	V	47.8	17.1	12.6	3.2	20.7	55.7	7.8
594670C	IV	48.7	16.6	12.4	3.9	23.9	53.2	6.6
594670D	IV	47.2	15.3	12.9	4.2	17.9	56.5	8.6
594671	V	48.3	14.5	12.9	2.9	19.7	56.0	8.4
594672	V	47.4	14.9	12.5	2.7	21.1	54.5	9.1
594673	VI	47.7	16.9	11.7	4.1	24.0	53.7	6.5
594674A	VI	48.5 <sup>w</sup>	16.1 <sup>w</sup>	12.0	3.5	22.3	54.4	7.8
594674B	VI	48.7	17.4	11.8	3.3	22.3	55.3	7.2
594674C	VII	49.0	16.2	10.9	2.6	19.9	58.7	7.8
594675	V	46.5	16.5	12.3	2.9	24.1	53.2	7.5
594677	V	48.8	15.3	12.7	3.6	22.6	52.8	8.2
594678	V	47.2	15.2	11.7 <sup>^</sup>	2.8 <sup>^</sup>	24.5 <sup>^</sup>	53.5	7.5 <sup>^</sup>
594679	V	48.5	16.8	11.8	2.9	26.4	51.5	7.5
594680	V	47.1	15.5	12.4	2.9	22.8	54.0	7.9
594681	V	45.8	17.0	12.1	3.3	22.1	54.1	8.4
594682B	IV	50.7	15.4	12.1	3.5	20.6	55.8	8.0
594683A	V	45.7	16.5	12.3	3.0	20.2	56.2	8.3
594683B	V	48.3	15.0	12.3	2.8	17.0	58.5	9.4
594683C	V	49.9	13.5	12.0	2.9	16.9	58.9	9.4
594686	IV	45.8	17.8	12.2	3.5	23.8	53.1	7.5
594688	VII	50.2	15.7	12.7	3.4	27.4	50.0	6.4
594690B	IV	46.4	17.6	12.3	3.4	23.6	53.3	7.5
594694	IV	46.4	17.6	12.2	3.5	23.6	53.1	7.6
594697	V	48.0	15.4	9.9	4.3	21.9	55.4	8.6
594698	V	44.5	18.3	12.3	3.8	23.1	53.0	7.8
594699	VI	50.2 <sup>w</sup>	15.3 <sup>w</sup>	11.3	4.0	19.8	56.4	8.4
594700A	V	48.9 <sup>w</sup>	16.3 <sup>w</sup>	12.6	3.1	24.3	52.8	7.2
594700B	V	50.0 <sup>w</sup>	15.2 <sup>w</sup>	12.1	3.5	23.6	52.7	8.0
594701	VI	49.9 <sup>w</sup>	15.8 <sup>w</sup>	11.9	3.9	25.0	51.9	7.4
594702	V	47.4 <sup>w</sup>	17.6 <sup>w</sup>	12.0	3.8	24.2	53.1	7.0
594703	VI	50.3 <sup>w</sup>	15.8 <sup>w</sup>	11.7	4.1	24.0	53.2	7.1
594704	V	49.8 <sup>w</sup>	15.5 <sup>w</sup>	11.6	3.6	21.3	55.4	8.1
594705	V	49.2 <sup>w</sup>	15.8 <sup>w</sup>	11.2	3.8	21.9	55.1	8.0
594706	V	48.7 <sup>w</sup>	16.0 <sup>w</sup>	11.6	3.8	20.7	56.1	7.8
594707	VII	46.2 <sup>w^</sup>	18.9 <sup>w^</sup>	12.2	4.5	22.5	53.3	7.5
594709	VI	45.1 <sup>w^</sup>	16.5 <sup>w^</sup>	10.8	3.3	21.2	57.2	7.5
594711A	V	44.8 <sup>w</sup>	16.8 <sup>w</sup>	12.2	3.4	23.5	53.2	7.7
594711B	V	42.2 <sup>w^</sup>	18.2 <sup>w^</sup>	12.6	3.5	23.1	53.4	7.4
594717A	VII	49.8	15.1	12.0	4.2	24.4	51.9	7.6

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594717B	(Liu cheng shi yue huang)	Guangxi	China	China	1996	VII
594719	Bai zhi dou	Guangxi	China	China	1996	V
594736	Gun long dou	Guangxi	China	China	1996	VI
594738A	Long lin long huang dou	Guangxi	China	China	1996	VI
594738B	(Long lin long huang dou)	Guangxi	China	China	1996	VIII
594739A	Jin zhong shan da huang dou	Guangxi	China	China	1996	VIII
594739B	(Jin zhong shan da huang dou)	Guangxi	China	China	1996	VIII
594740A	Le ye lu hua dou	Guangxi	China	China	1996	VI
594740B	(Le ye lu hua dou)	Guangxi	China	China	1996	VII
594740C	(Le ye lu hua dou)	Guangxi	China	China	1996	VII
594751A	Long zhou dong feng dou	Guangxi	China	China	1996	VII
594751B	(Long zhou dong feng dou)	Guangxi	China	China	1996	VII
594751C	(Long zhou dong feng dou)	Guangxi	China	China	1996	VII
594753A	Hei qi da dou	Guangxi	China	China	1996	VII
594753C	(Hei qi da dou)	Guangxi	China	China	1996	IX
594756	Bai peng qing pi dou	Guangxi	China	China	1996	VIII
594758A	Xiao ke qing	Guangxi	China	China	1996	VI
594758B	(Xiao ke qing)	Guangxi	China	China	1996	VII
594758C	(Xiao ke qing)	Guangxi	China	China	1996	VIII
594759A	Miao huang ba yue qing	Guangxi	China	China	1996	VI
594759B	(Miao huang ba yue qing)	Guangxi	China	China	1996	VI
594759C	(Miao huang ba yue qing)	Guangxi	China	China	1996	VI
594759D	(Miao huang ba yue qing)	Guangxi	China	China	1996	VII
594760A	Gou jiao huang dou	Guangxi	China	China	1996	VIII
594761	Ding an qing pi dou	Guangxi	China	China	1996	VI
594770B	(Fu sui chang ping hei dou)	Guangxi	China	China	1996	VIII
594774	Bao gong dou	Guangxi	China	China	1996	VII
594775	Xi huang dou	Yunnan	China	China	1996	V
594776	Bai ri dou	Yunnan	China	China	1996	V
594781	Er bai dou	Yunnan	China	China	1996	V
594782	Xiao li dou	Yunnan	China	China	1996	VI
594784A	Xiao li huang dou	Yunnan	China	China	1996	V
594784B	(Xiao li huang dou)	Yunnan	China	China	1996	V
594785	Ben di huang dou	Yunnan	China	China	1996	VI
594790C	(Hua lian dou)	Yunnan	China	China	1996	VIII
594792B	(Xiao lu dou)	Yunnan	China	China	1996	V
594793	Da gun bai dou	Yunnan	China	China	1996	VII
594794A	Xiao bai dou	Yunnan	China	China	1996	VI
594794B	(Xiao bai dou)	Yunnan	China	China	1996	VIII
594796	Xi bai dou	Yunnan	China	China	1996	VIII
594797	Da huang dou	Yunnan	China	China	1996	V
594802C	(Da huang zao dou)	Yunnan	China	China	1996	VII
594802D	(Da huang zao dou)	Yunnan	China	China	1996	VIII
594803A	Huang dou	Yunnan	China	China	1996	VI
594803B	(Huang dou)	Yunnan	China	China	1996	VI
594805A	Huang pi dou	Yunnan	China	China	1996	VII

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594717B	VII	D	P	T	A	N	Br	I	Y	Br	Sdef	2N
594719	V	D	P	T	A	N	Tn	I	Y	Bl		2F
594736	VI	D	P	T	A	Ssp	Br	I	Y	Br		2N
594738A	VI	D	W	G	A	N	Br	I	Y	Bf		3N
594738B	VIII	D	W	G	A	N	Tn	I	Y	Bf		3N
594739A	VIII	D	P	G	A	Ssp	Tn	I	Y	Bf	Sdef	3N
594739B	VIII	D	P	G	Sa	N	Br	I	Y	Bf	Def	3N
594740A	VI	D	P	T	A	Ssp	Br	I	Y	Br	Sabh	3N
594740B	VII	D	P	G	A	N	Br	I	Y	Bf		3N
594740C	VII	D	P	T	A	Ssp	Br	I	Y	Br		3N
594751A	VII	D	W	G	A	N	Br	I	Y	Bf	Sdef	2N
594751B	VII	D	W	G	A	Ssp	Br	I	Y	Bf		2N
594751C	VII	D	W	T	A	Ssp	Br	I	Y	Br	Sdef	2N
594753A	VII	D	P	T	A	N	Bl	I	Bl	Bl	Flk	4F
594753C	IX	D	P	G	Sa	N	Br	I	Y	Bf	Sdef	4N
594756	VIII	D	P	G	A	N	Br	I	Gn	Bf		3N
594758A	VI	D	P	T	E	Ssp	Tn	I	Lgn	Br		3N
594758B	VII	D	P	T	A	N	Tn	I	Gn	Br	Sdef	3N
594758C	VIII	D	P	T	A	N	Br	I	Gn	Br	Sdef	3N
594759A	VI	D	P	T	Sa	N	Br	I	Gn	Brbl	Vhil	3N
594759B	VI	D	P	T	E	N	Br	I	Gn	Brbl	Vhil	3N
594759C	VI	D	P	T	Sa	N	Br	I	Gn	Brbl	Vhil	3N
594759D	VII	D	W	T	A	N	Br	I	Gn	Br		4N
594760A	VIII	D	P	G	A	N	Br	I	Gn	Bf		3N
594761	VI	D	P	T	E	Ssp	Br	I	Lgn	Br		4N
594770B	VIII	D	P	Lt	A	N	Br	Lb	Bl	Bl	Def	3N
594774	VII	D	P	T	A	Ssp	Br	I	Br	Rbr		2F
594775	V	N	W	G	A	N	Br	D	Y	Bf		3N
594776	V	D	P	T	A	N	Tn	D	Y	Brbl	Sdef, Vhil	2N
594781	V	D	P	T	A	N	Bl	I	Y	Brbl	Vhil	3N
594782	VI	D	P	T	E	N	Br	I	Y	Br		2N
594784A	V	D	P	T	Sa	N	Br	I	Y	Br		2N
594784B	V	D	P	T	Sa	N	Br	I	Y	Br		2N
594785	VI	D	P	T	E	N	Br	I	Y	Br		2N
594790C	VIII	N	P	T	E	N	Tn	I	Y	Br		3N
594792B	V	D	P	T	Sa	Ssp	Br	I	Y	Bl		3N
594793	VII	D	P	T	Sa	N	Br	I	Y	Br		4N
594794A	VI	D	P	T	A	N	Br	I	Y	Br	Sdef	2N
594794B	VIII	D	P	T	C	N	Br	I	Y	Br	Sdef	3N
594796	VIII	N	P	G	A	N	Tn	D	Y	Bf		3N
594797	V	D	P	T	A	N	Br	I	Y	Brbl	Sdef, Vhil	3N
594802C	VII	D	P	T	A	N	Br	I	Y	Br	Sdef	2N
594802D	VIII	N	P	T	A	N	Br	I	Y	Br	Sdef	3N
594803A	VI	D	W	T	E	N	Tn	I	Y	Br		3F
594803B	VI	D	P	T	E	N	Br	I	Y	Bl	Sdef	4F
594805A	VII	D	P	T	E	Ssp	Bl	I	Y	Brbl		3N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594717B	816	1010	4.0	110	1.5	2.5	3.8	2.5	8.2	0.63
594719	719	921	3.0	115	2.0*	2.5*	2.0	3.0	8.0	2.00
594736	813	1009	4.0	106	1.5	2.5	3.5	2.5	8.5	0.64
594738A	806	1006	4.0	129	1.0	2.0*	2.5	2.0	11.2	1.55
594738B	816	1023*	4.5	184	1.5	3.0*	2.0^	2.0^	8.5^	0.36
594739A	813	1029*	3.0	125	1.0^	2.0^	2.5^	3.0^	10.2^	0.69^
594739B	810	1029*	4.0	137	1.0	2.0	3.0^	2.0^	9.3^	0.32
594740A	730	1003	3.5	196*	2.0	4.0	3.0	3.0	8.3	0.65
594740B	810	1015	3.0	140	2.0	3.0^	3.2	2.5	8.4^	0.40
594740C	809	1018	4.0	205*	1.5	3.0*	3.2*	3.0	9.3^	0.43
594751A	825	1019	4.0	148*	1.5	2.5	2.0^	1.0^	6.4	0.29
594751B	821	1017	4.0	118	1.5	2.5	2.0^	1.0^	6.4	0.22
594751C	821	1018	4.0	104*	1.5	2.5	2.5^	3.0^	8.5^	0.41
594753A	806	1011	4.5	155*	2.0	3.0	3.2	--	6.6	0.37
594753C	822^	1029^	3.0	150^	2.0^	3.0^	4.0^	2.0^	12.6^	0.12^
594756	816	1025	3.0	120	2.0	3.0	2.5^	2.0^	10.8^	0.10
594758A	727	1007	3.5	108	2.0	3.5	2.8	2.5	11.6	0.84
594758B	809	1016	4.5	166*	1.5	2.5	3.2	2.5	11.1	0.63
594758C	813	1021*	3.0	100	2.0	3.0	3.0^	3.0^	9.7^	0.22
594759A	809	1001	4.5	159	1.5	3.0	3.2	3.5	5.8	0.57
594759B	802	929	4.5	154*	1.5	2.5	2.8	3.5	6.1	1.42
594759C	802	930	4.5	136*	2.0	3.0	3.0	3.0	6.6	0.65
594759D	810	1017	4.5	149*	1.5	3.0	3.5*	3.0	9.6	0.64
594760A	816	1027*	3.5	116*	1.5	2.5	3.0^	3.0^	9.5^	0.07
594761	727	1005	4.0	130*	1.5	2.5	3.5*	2.5	10.4	0.54
594770B	825	1023	4.5	155	2.5	4.0^	2.8	--	5.8^	0.13
594774	813	1015*	4.0	132*	1.0^	2.0^	3.0^	--	9.3^	0.36
594775	703	923	3.5	121	2.5	4.5	2.8*	3.5	10.7	1.72
594776	703	917	2.0	79	2.0*	3.0*	2.8*	2.0	17.8	2.34
594781	711	921*	3.5	130*	2.5	4.5	3.8	4.0*	12.2	0.76
594782	707	1005	4.0	184*	2.0	3.5	3.5	2.5	11.5	0.76
594784A	707	921*	4.5	162*	2.5	4.0	3.0	3.0	11.1	1.03
594784B	707	921*	4.5	192*	2.5	4.0	3.5	3.5	10.6	0.93
594785	707	1006	4.0	175	2.5	3.5	3.0	3.0	10.4	1.00
594790C	806	1022*	4.0	138*	1.5	2.5	3.5^	4.0^	9.4^	0.11
594792B	707	919	2.5	104	2.5	3.5	2.5*	2.5	19.1*	2.23
594793	723	1019	3.5	140*	1.0	2.5	4.0*	5.0	11.2	0.80
594794A	727	1007	3.0	88*	1.0	2.0	3.5	2.0	14.3	1.31
594794B	721	1025*	3.0	172*	2.0	3.0	3.5^	2.0^	10.0^	0.29
594796	806	1026^	4.0	168*	2.0^	3.0^	3.0^	3.0^	4.6^	0.42^
594797	707	923	3.0	142	2.5	3.5	2.8*	2.0	18.8	1.86
594802C	725	1011	2.5	89	1.0	2.0	3.0	2.0	14.1	1.25
594802D	806	1027	3.0	144*	2.0	3.0^	3.5^	2.0^	13.1^	0.18
594803A	711	1006	3.0	108*	1.0	2.0	3.2	3.5	12.4	1.00
594803B	715	1009	3.0*	108*	1.5	3.0	3.5	2.5	12.2	0.93
594805A	715	1011*	2.5	84	2.5	4.0*	2.8	2.5	9.5	0.87



Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594717B	VII	50.0	15.1	11.9	4.0	25.0	51.4	7.7
594719	V	43.7	17.2	11.8	3.4	25.5	52.3	7.0
594736	VI	50.7	15.1	12.1	3.8	22.9	53.3	7.8
594738A	VI	48.2	16.0	11.2	3.7	26.7	50.5	7.9
594738B	VIII	50.2 <sup>^</sup>	15.5 <sup>^</sup>	10.7 <sup>^</sup>	4.4 <sup>^</sup>	22.4 <sup>^</sup>	54.5 <sup>^</sup>	8.1 <sup>^</sup>
594739A	VIII	52.4 <sup>^</sup>	13.3 <sup>^</sup>	12.0 <sup>^</sup>	3.5 <sup>^</sup>	20.7 <sup>^</sup>	57.1 <sup>^</sup>	6.7 <sup>^</sup>
594739B	VIII	52.5 <sup>^</sup>	14.5 <sup>^</sup>	12.1 <sup>^</sup>	4.1 <sup>^</sup>	20.5 <sup>^</sup>	54.4 <sup>^</sup>	8.8 <sup>^</sup>
594740A	VI	51.9	14.4	11.9	4.6	21.2	54.8	7.5
594740B	VII	52.5	12.9	12.9	4.2	24.0	50.0	8.8
594740C	VII	47.8	17.3	11.1	4.4	24.4	53.4	6.8
594751A	VII	54.2 <sup>^</sup>	12.2 <sup>^</sup>	11.8 <sup>^</sup>	3.8 <sup>^</sup>	20.3 <sup>^</sup>	54.9 <sup>^</sup>	9.2 <sup>^</sup>
594751B	VII	56.2 <sup>^</sup>	11.9 <sup>^</sup>	12.6 <sup>^</sup>	3.7 <sup>^</sup>	18.5 <sup>^</sup>	55.2 <sup>^</sup>	10.1 <sup>^</sup>
594751C	VII	50.3 <sup>^</sup>	15.0 <sup>^</sup>	11.9 <sup>^</sup>	3.5 <sup>^</sup>	20.2 <sup>^</sup>	55.1 <sup>^</sup>	9.3 <sup>^</sup>
594753A	VII	47.4 <sup>w^</sup>	12.1 <sup>w^</sup>	11.3	4.6	15.8	58.8	9.5
594753C	IX	50.4 <sup>^</sup>	14.4 <sup>^</sup>	12.2 <sup>^</sup>	3.2 <sup>^</sup>	20.7 <sup>^</sup>	55.7 <sup>^</sup>	8.2 <sup>^</sup>
594756	VIII	52.6 <sup>^</sup>	14.2 <sup>^</sup>	10.7 <sup>^</sup>	4.0 <sup>^</sup>	22.0 <sup>^</sup>	58.0 <sup>^</sup>	5.5 <sup>^</sup>
594758A	VI	53.0 <sup>w</sup>	12.8 <sup>w</sup>	13.0	4.1	17.9	56.1	8.9
594758B	VII	46.7 <sup>w</sup>	14.2 <sup>w</sup>	12.6	3.6	24.8	52.1	6.9
594758C	VIII	47.1 <sup>^</sup>	16.3 <sup>^</sup>	11.6 <sup>^</sup>	3.8 <sup>^</sup>	22.4 <sup>^</sup>	54.2 <sup>^</sup>	8.1 <sup>^</sup>
594759A	VI	42.2 <sup>^</sup>	13.7 <sup>^</sup>	12.7	3.6	17.1	57.3	9.2
594759B	VI	47.4 <sup>^</sup>	14.4 <sup>^</sup>	12.9	3.6	18.2	56.0	9.3
594759C	VI	48.2 <sup>^</sup>	13.5 <sup>^</sup>	11.8	4.0	20.5	55.2	8.6
594759D	VII	49.6 <sup>w</sup>	13.6 <sup>w</sup>	12.0	4.1	24.3	50.3	9.4
594760A	VIII	51.4 <sup>^</sup>	13.7 <sup>^</sup>	11.2 <sup>^</sup>	3.5 <sup>^</sup>	20.2 <sup>^</sup>	59.3 <sup>^</sup>	5.8 <sup>^</sup>
594761	VI	55.1 <sup>w</sup>	11.9 <sup>w</sup>	13.1	4.0	19.1	55.2	8.6
594770B	VIII	47.2 <sup>w^</sup>	14.5 <sup>w^</sup>	11.9 <sup>^</sup>	3.7 <sup>^</sup>	19.7 <sup>^</sup>	54.0 <sup>^</sup>	10.7 <sup>^</sup>
594774	VII	48.0 <sup>w^</sup>	14.8 <sup>w^</sup>	11.1 <sup>^</sup>	3.5 <sup>^</sup>	19.0 <sup>^</sup>	56.0 <sup>^</sup>	10.4 <sup>^</sup>
594775	V	47.1	16.5	11.6	3.4	20.9	56.9	7.2
594776	V	45.3	19.4	12.6	2.8	20.9	56.8	6.8
594781	V	51.5	15.2	13.7	3.5	20.5	55.1	7.2
594782	VI	47.8	17.1	11.0	3.4	27.8	51.5	6.3
594784A	V	47.3	17.1	10.9	3.2	25.0	54.1	6.8
594784B	V	47.1	16.9	11.1	3.0	24.3	53.2	8.3
594785	VI	47.8	16.8	11.0	3.3	27.1	52.4	6.2
594790C	VIII	51.3 <sup>^</sup>	12.7 <sup>^</sup>	11.9 <sup>^</sup>	4.5 <sup>^</sup>	20.9 <sup>^</sup>	55.4 <sup>^</sup>	7.3 <sup>^</sup>
594792B	V	47.3	18.3	12.3	3.0	22.2	55.0	7.5
594793	VII	46.5 <sup>w</sup>	18.5 <sup>w</sup>	13.1	4.8	25.3	50.3	6.6
594794A	VI	45.3	18.3	12.0	3.3	25.7	52.3	6.7
594794B	VIII	49.7 <sup>^</sup>	14.2 <sup>^</sup>	11.5 <sup>^</sup>	3.8 <sup>^</sup>	20.0 <sup>^</sup>	55.2 <sup>^</sup>	9.5 <sup>^</sup>
594796	VIII	46.2 <sup>w^</sup>	18.6 <sup>w^</sup>	14.6 <sup>^</sup>	3.8 <sup>^</sup>	15.6 <sup>^</sup>	55.2 <sup>^</sup>	10.8 <sup>^</sup>
594797	V	46.6	17.1	13.2	3.3	18.9	56.5	8.2
594802C	VII	46.0	17.7	12.0	3.3	23.8	53.4	7.5
594802D	VIII	48.0 <sup>^</sup>	17.3 <sup>^</sup>	11.9 <sup>^</sup>	3.7 <sup>^</sup>	23.0 <sup>^</sup>	53.5 <sup>^</sup>	7.9 <sup>^</sup>
594803A	VI	48.9	15.0	12.6	3.8	17.6	58.2	7.8
594803B	VI	47.6	15.8	12.5	3.1	19.0	58.1	7.3
594805A	VII	44.7 <sup>^</sup>	16.4 <sup>^</sup>	12.0	3.7	16.7	58.5	9.0

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594805B	(Huang pi dou)	Yunnan	China	China	1996	VII
594806	Gao jiao huang dou	Yunnan	China	China	1996	V
594808	Xiao bai mao dou	Yunnan	China	China	1996	VI
594809A	Bai mao dou	Yunnan	China	China	1996	V
594809B	(Bai mao dou)	Yunnan	China	China	1996	V
594810A	Xiao huang mao dou	Yunnan	China	China	1996	V
594810B	(Xiao huang mao dou)	Yunnan	China	China	1996	VI
594812	Huang pi dou	Yunnan	China	China	1996	IX
594814	Da huang dou	Yunnan	China	China	1996	V
594816	Da huang dou	Yunnan	China	China	1996	V
594820A	Jiu yue huang	Yunnan	China	China	1996	VIII
594820B	(Jiu yue huang)	Yunnan	China	China	1996	VIII
594820C	(Jiu yue huang)	Yunnan	China	China	1996	VIII
594825	Huang dou	Yunnan	China	China	1996	VIII
594826A	Xiao bai dou	Yunnan	China	China	1996	VIII
594828A	Lu huang dou	Yunnan	China	China	1996	V
594828B	(Lu huang dou)	Yunnan	China	China	1996	V
594829	Lu dou	Yunnan	China	China	1996	V
594831	Lu huang dou	Yunnan	China	China	1996	VI
594832A	Lu dou	Yunnan	China	China	1996	V
594832B	(Lu dou)	Yunnan	China	China	1996	VII
594833	Cai yuan dou	Yunnan	China	China	1996	VI
594834A	Wu yue bai dou	Yunnan	China	China	1996	VII
594834B	(Wu yue bai dou)	Yunnan	China	China	1996	VII
594835A	Da bai dou	Yunnan	China	China	1996	VIII
594835B	(Da bai dou)	Yunnan	China	China	1996	VIII
594836	Lu huang dou	Yunnan	China	China	1996	VIII
594839A	Huang dou	Yunnan	China	China	1996	VIII
594842	Qing pi huang dou	Yunnan	China	China	1996	VI
594843	Xiao lu dou	Yunnan	China	China	1996	V
594844	Mian dian lu huang dou	Yunnan	China	China	1996	VIII
594846	Hei dou	Yunnan	China	China	1996	VIII
594847	Xiao hei dou	Yunnan	China	China	1996	V
594854	Song zi dou	Yunnan	China	China	1996	V
594856	Cha huang dou	Yunnan	China	China	1996	V
594857	Huang pi dou	Yunnan	China	China	1996	VI
594858A	Huang pi dou zi	Yunnan	China	China	1996	V
594858B	(Huang pi dou zi)	Yunnan	China	China	1996	V
594860	Da zong dou	Yunnan	China	China	1996	VII
594862	Cha huang dou	Yunnan	China	China	1996	VII
594866	Zong se dou	Yunnan	China	China	1996	V
594867	Lu huang dou	Yunnan	China	China	1996	V
594868	Huang dou	Yunnan	China	China	1996	VIII
594870	Ben di huang dou	Yunnan	China	China	1996	V
594874	Hu pi huang dou	Yunnan	China	China	1996	VIII
594875A	Hu pi dou	Yunnan	China	China	1996	V

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594805B	VII	D	P	T	Sa	N	Bl	I	Y	Bl		3N
594806	V	D	P	T	A	Ssp	Br	I	Y	Bl		2N
594808	VI	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	2N
594809A	V	D	P	T	E	N	Br	I	Lgn	Br		4F
594809B	V	D	P	T	E	N	Br	I	Y	Br		4F
594810A	V	D	P	G	Sa	N	Br	I	Y	Bf	Vhil	2N
594810B	VI	D	P	T	E	Ssp	Tn	I	Y	Br		2N
594812	IX	D	P	G	E	N	Br	I	Y	Bf		3N
594814	V	D	W	T	E	N	Br	I	Y	Br		4N
594816	V	D	P	T	E	N	Br	I	Y	Bl		3N
594820A	VIII	D	P	T	E	Ssp	Bl	I	Y	Bl		3N
594820B	VIII	D	P	T	E	Ssp	Br	I	Y	Bl	Sdef	3N
594820C	VIII	D	P	T	E	N	Bl	I	Y	Bl		3N
594825	VIII	D	P	T	E	N	Br	I	Y	Bl		3N
594826A	VIII	D	P	T	A	N	Br	I	Gn	Bl		3N
594828A	V	D	P	T	E	Ssp	Bl	I	Gn	Bl		4N
594828B	V	D	P	T	Sa	Ssp	Bl	I	Gn	Bl		3N
594829	V	D	P	T	A	N	Br	D	Gn	Br	Sdef	2N
594831	VI	D	P	T	Sa	N	Br	I	Gn	Br		3N
594832A	V	D	P	T	A	Ssp	Br	I	Gn	Bl		3N
594832B	VII	D	P	T	A	Ssp	Br	I	Gn	Bl		3N
594833	VI	D	P	T	A	Ssp	Br	I	Gn	Bl		3N
594834A	VII	D	P	G	E	N	Br	I	Y	Bf		4F
594834B	VII	D	P	G	A	N	Br	D	Y	Bf		3N
594835A	VIII	D	P	T	E	N	Br	I	Y	Br		3N
594835B	VIII	D	P	T	A	N	Br	I	Y	Br		3F
594836	VIII	D	P	T	E	N	Br	D	Gn	Bl		4N
594839A	VIII	D	P	G	Sa	N	Tn	D	Y	Bf		4N
594842	VI	D	W	T	E	N	Br	I	Y	Br		3N
594843	V	D	P	T	Sa	Ssp	Dbr	I	Gn	Bl		3N
594844	VIII	D	P	T	E	N	Br	I	Gn	Bl	Sph	4F
594846	VIII	D	P	T	Sa	Ssp	Bl	Lb	Bl	Bl		3N
594847	V	D	P	T	A	N	Br	I	Bl	Bl		5F
594854	V	D	W	T	E	Ssp	Br	I	Br	Rbr		2N
594856	V	D	P	T	Sa	N	Bl	Lb	Rbr	Rbr		3N
594857	VI	D	W	Lt	A	N	Br	Lb	Rbr	Rbr	Sdef	3N
594858A	V	D	P	T	A	N	Bl	I	Br	Rbr		4F
594858B	V	D	P	T	A	N	Br	I	Br	Rbr		3N
594860	VII	D	W	T	Sa	N	Br	I	Rbr	Rbr		2N
594862	VII	D	W	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
594866	V	D	P	T	A	Ssp	Br	I	Br	Rbr		3N
594867	V	D	P	T	Sa	N	Br	I	Gnbr	Gnbr		3N
594868	VIII	D	W	T	A	N	Br	I	Rbr	Rbr		3F
594870	V	D	P	T	Sa	N	Br	I	Br	Rbr		4F
594874	VIII	D	P	T	E	N	Br	Lb	Br	Rbr	Sdef	3F
594875A	V	D	P	T	A	N	Br	I	Rbr	Rbr		3N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594805B	731	1017	4.0	104	1.5	2.0 <sup>^</sup>	3.8	4.0*	7.5	0.41
594806	707	919	2.5	79*	2.5	3.5	2.5	2.5	17.8	2.24
594808	719	1007	3.5	95	1.5	3.0	2.8	2.5	7.7	0.82
594809A	714	924	2.0	75*	2.5	3.5	3.2*	3.0	14.4	1.51
594809B	722	929	3.0	110*	2.5	4.0*	3.0	2.5	19.6	1.76*
594810A	719	928	4.0	102*	1.5	3.0*	2.8*	2.5	7.6	1.49
594810B	730	929	4.0	153*	2.0	3.0	2.2	3.0	7.6	1.23
594812	806	1103 <sup>^</sup>	3.5	180	2.0 <sup>^</sup>	3.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	12.0 <sup>^</sup>	0.29 <sup>^</sup>
594814	707	927	2.5	69	2.5	4.0	3.0*	2.5	13.6	1.47
594816	715	926	4.0	110	2.0*	3.0*	2.2	2.5	10.6	1.76
594820A	727	1023	3.5	136*	1.5	2.0 <sup>^</sup>	3.5 <sup>^</sup>	5.0 <sup>^</sup>	12.3 <sup>^</sup>	0.23
594820B	802	1021	4.5	154*	1.0	2.0	3.0 <sup>^</sup>	4.0 <sup>^</sup>	11.8	0.30
594820C	806	1026	4.0	100	1.0 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	4.0 <sup>^</sup>	8.3 <sup>^</sup>	0.95 <sup>^</sup>
594825	727 <sup>^</sup>	1027 <sup>^</sup>	5.0 <sup>^</sup>	128 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	-	-	9.3 <sup>^</sup>	0.19 <sup>^</sup>
594826A	729	1021	4.5	165*	2.0	3.5	2.5 <sup>^</sup>	2.0 <sup>^</sup>	11.5	0.57
594828A	709	927	4.5	148*	1.5	3.0	2.8	3.5	12.1	0.86
594828B	707	927	5.0	145*	2.0	3.0	2.8	3.5	12.4	0.86
594829	707	923	3.0	120	2.0*	3.0*	2.8*	2.0	14.2	2.23
594831	701	1003	2.5	83	1.5	2.0*	2.5	2.0	12.0	1.88
594832A	622	925	3.5	131	3.5	4.5	3.0	4.0	11.8	1.53
594832B	725	1011	4.0	150*	1.5	2.5	3.8	3.0	8.2	0.62
594833	724	1008*	3.5	106	1.5	2.5	3.5	3.5	11.4	1.03
594834A	806	1013*	4.0*	155*	1.5	2.5	3.0 <sup>^</sup>	2.0 <sup>^</sup>	6.6 <sup>^</sup>	0.16
594834B	806	1017	3.5	118	2.0	3.0	2.5 <sup>^</sup>	2.0 <sup>^</sup>	7.2	0.28
594835A	721	1025	4.0*	210	1.5	2.5	3.0 <sup>^</sup>	3.0 <sup>^</sup>	11.4	0.52
594835B	721	1025	4.5	228*	1.5	2.5	2.5 <sup>^</sup>	3.0 <sup>^</sup>	10.6	0.45
594836	804	1021	3.0	105*	1.5	2.5	2.5 <sup>^</sup>	5.0 <sup>^</sup>	8.6	0.42
594839A	810	1023	4.0*	248*	1.0 <sup>^</sup>	1.0 <sup>^</sup>	3.0 <sup>^</sup>	2.0 <sup>^</sup>	4.0 <sup>^</sup>	0.08 <sup>^</sup>
594842	713	1007*	3.0	105*	2.0	3.0	3.2	3.5	10.4	0.95
594843	714	925	3.5	115	3.0	4.0	2.5	3.0	11.5	1.44
594844	806	1027 <sup>^</sup>	3.0	116	3.0 <sup>^</sup>	-	3.0 <sup>^</sup>	4.0 <sup>^</sup>	12.8 <sup>^</sup>	0.51 <sup>^</sup>
594846	803 <sup>^</sup>	1103 <sup>^</sup>	3.0 <sup>^</sup>	100 <sup>^</sup>	2.0 <sup>^</sup>	3.0 <sup>^</sup>	-	--	10.8 <sup>^</sup>	0.27 <sup>^</sup>
594847	711	921	4.5	148*	2.0*	3.0*	3.5	--	8.4	0.94
594854	707	925	2.5	72	2.0*	3.0*	2.0	--	12.6	1.62
594856	703	918	1.0	76*	3.0	4.0	2.2	--	13.4	1.84
594857	721	1002	2.0	94	2.5	4.0*	2.5	--	15.0	1.35
594858A	625	921	2.0	86*	2.5	4.0*	2.0	--	10.5	2.06
594858B	713	926	2.5	87	2.0*	3.5*	2.5	--	10.0	2.16
594860	723	1016	4.0	102*	2.0	3.0	3.5	--	11.9	0.56
594862	724	1019*	2.5	128*	2.0*	3.5	3.8	--	11.9	0.54
594866	714	920	2.5	101	2.5	4.0	2.0	--	8.4	1.93
594867	711	929	3.5	122*	1.5	2.5	2.8	--	11.6	1.57
594868	813	1025*	3.5	202*	2.0	3.0	2.5 <sup>^</sup>	--	9.4	0.44
594870	719	925	3.5	95	2.0	3.0	1.8	--	8.0	1.40
594874	729	1024*	3.0	122*	1.5	3.0	2.5 <sup>^</sup>	--	11.9 <sup>^</sup>	0.37
594875A	711	928	4.0*	176	3.5	4.5	2.5	--	12.8	1.07

Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594805B	VII	47.7 <sup>^</sup>	16.8 <sup>^</sup>	11.1	4.1	21.8	55.9	7.1
594806	V	44.4	19.2	12.2	2.9	21.3	56.3	7.3
594808	VI	47.3	15.7	13.0	3.9	23.9	51.9	7.3
594809A	V	46.8	16.8	12.5	3.0	18.3	58.5	7.7
594809B	V	47.4	17.9	12.5	3.2	23.5	54.4	6.5
594810A	V	45.6	15.9	11.5	3.4	20.2	56.5	8.4
594810B	VI	46.4	16.2	12.6	4.2	24.1	52.1	7.0
594812	IX	-	-	-	-	-	-	-
594814	V	47.3	17.1	13.6	3.0	20.9	55.2	7.3
594816	V	47.1	15.7	12.8	3.3	17.2	58.6	8.1
594820A	VIII	43.8 <sup>w^</sup>	19.2 <sup>w^</sup>	11.7 <sup>^</sup>	3.7 <sup>^</sup>	18.6 <sup>^</sup>	56.6 <sup>^</sup>	9.4 <sup>^</sup>
594820B	VIII	46.3 <sup>^</sup>	15.6 <sup>^</sup>	11.7 <sup>^</sup>	3.7 <sup>^</sup>	18.9 <sup>^</sup>	56.5 <sup>^</sup>	9.2 <sup>^</sup>
594820C	VIII	44.3 <sup>^</sup>	15.6 <sup>^</sup>	12.0 <sup>^</sup>	3.7 <sup>^</sup>	18.8 <sup>^</sup>	55.4 <sup>^</sup>	10.1 <sup>^</sup>
594825	VIII	-	-	-	-	-	-	-
594826A	VIII	50.1 <sup>^</sup>	15.0 <sup>^</sup>	12.6 <sup>^</sup>	3.8 <sup>^</sup>	19.2 <sup>^</sup>	56.0 <sup>^</sup>	8.3 <sup>^</sup>
594828A	V	45.4 <sup>w</sup>	17.7 <sup>w</sup>	12.8	3.4	22.7	54.7	6.4
594828B	V	44.6 <sup>w</sup>	18.6 <sup>w</sup>	12.7	3.4	23.0	54.8	6.1
594829	V	46.1 <sup>w</sup>	17.1 <sup>w</sup>	12.1	3.0	18.2	58.1	8.6
594831	VI	45.0 <sup>w</sup>	16.4 <sup>w</sup>	12.4	3.5	16.4	58.8	8.9
594832A	V	42.1 <sup>^</sup>	19.4 <sup>^</sup>	12.2	3.3	20.7	56.0	7.9
594832B	VII	45.6 <sup>w^</sup>	14.6 <sup>w^</sup>	11.7	3.9	24.1	52.8	7.5
594833	VI	46.8 <sup>w</sup>	16.8 <sup>w</sup>	12.2	3.4	22.9	54.0	7.5
594834A	VII	44.2 <sup>w^</sup>	18.2 <sup>w^</sup>	13.6 <sup>^</sup>	3.9 <sup>^</sup>	16.3 <sup>^</sup>	59.5 <sup>^</sup>	6.7 <sup>^</sup>
594834B	VII	51.6 <sup>^</sup>	13.4 <sup>^</sup>	12.0 <sup>^</sup>	4.1 <sup>^</sup>	20.0 <sup>^</sup>	58.5 <sup>^</sup>	5.4 <sup>^</sup>
594835A	VIII	46.6 <sup>^</sup>	16.5 <sup>^</sup>	11.5 <sup>^</sup>	4.5 <sup>^</sup>	22.1 <sup>^</sup>	53.7 <sup>^</sup>	8.2 <sup>^</sup>
594835B	VIII	48.0 <sup>^</sup>	16.4 <sup>^</sup>	11.0 <sup>^</sup>	3.5 <sup>^</sup>	21.1 <sup>^</sup>	55.3 <sup>^</sup>	9.1 <sup>^</sup>
594836	VIII	43.5 <sup>w^</sup>	15.4 <sup>w^</sup>	12.9 <sup>^</sup>	3.0 <sup>^</sup>	17.2 <sup>^</sup>	55.8 <sup>^</sup>	11.1 <sup>^</sup>
594839A	VIII	46.0 <sup>w^</sup>	18.9 <sup>w^</sup>	14.0 <sup>^</sup>	3.1 <sup>^</sup>	15.1 <sup>^</sup>	55.1 <sup>^</sup>	12.8 <sup>^</sup>
594842	VI	47.8	17.0	12.4	3.7	17.6	58.3	8.0
594843	V	46.7 <sup>w</sup>	15.9 <sup>w</sup>	11.8	3.7	24.8	52.7	7.0
594844	VIII	47.2 <sup>w^</sup>	16.5 <sup>w^</sup>	12.1 <sup>^</sup>	3.2 <sup>^</sup>	18.5 <sup>^</sup>	56.2 <sup>^</sup>	9.9 <sup>^</sup>
594846	VIII	-	-	-	-	-	-	-
594847	V	42.9 <sup>w^</sup>	15.0 <sup>w^</sup>	13.1	3.2	19.6	55.7	8.4
594854	V	45.2 <sup>w^</sup>	18.6 <sup>w^</sup>	12.5	2.8	16.8	60.5	7.5
594856	V	44.4 <sup>w^</sup>	18.2 <sup>w^</sup>	12.1	3.2	17.8	59.3	7.7
594857	VI	45.2 <sup>w^</sup>	18.7 <sup>w^</sup>	11.8	3.4	22.9	55.5	6.4
594858A	V	42.0 <sup>w^</sup>	19.5 <sup>w^</sup>	12.1	3.4	17.2	59.0	8.3
594858B	V	45.0 <sup>w^</sup>	15.3 <sup>w^</sup>	11.8	3.7	19.6	56.6	8.2
594860	VII	46.7 <sup>w^</sup>	18.2 <sup>w^</sup>	12.9	3.6	20.4	55.8	7.3
594862	VII	40.7 <sup>w^</sup>	17.0 <sup>w^</sup>	13.4	3.5	15.9	57.5	9.7
594866	V	42.2 <sup>w^</sup>	15.6 <sup>w^</sup>	11.8	3.3	15.3	60.9	8.6
594867	V	42.3 <sup>w^</sup>	20.0 <sup>w^</sup>	11.7	4.3	16.4	58.7	8.8
594868	VIII	45.7 <sup>w^</sup>	15.9 <sup>w^</sup>	11.7 <sup>^</sup>	3.4 <sup>^</sup>	18.3 <sup>^</sup>	58.3 <sup>^</sup>	8.3 <sup>^</sup>
594870	V	45.3 <sup>w^</sup>	14.3 <sup>w^</sup>	11.3	3.0	14.7	61.6	9.4
594874	VIII	40.5 <sup>w^</sup>	18.1 <sup>w^</sup>	11.6 <sup>^</sup>	3.2 <sup>^</sup>	17.5 <sup>^</sup>	59.3 <sup>^</sup>	8.6 <sup>^</sup>
594875A	V	47.0 <sup>w^</sup>	19.1 <sup>w^</sup>	11.7	3.4	22.4	56.2	6.2

Table 1.4 Identification and origin information for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
594875B	(Hu pi dou)	Yunnan	China	China	1996	VII
594877	Fu pi dou	Yunnan	China	China	1996	VIII
594879	Huo shao dou	Yunnan	China	China	1996	VIII
594880	Song zi dou	Yunnan	China	China	1996	V
594881	Yang yan dou	Yunnan	China	China	1996	V
594884	He pi huang dou	Yunnan	China	China	1996	V
594885B	(Song zi dou)	Yunnan	China	China	1996	VII
594887	Yang yan dou	Yunnan	China	China	1996	V
594888	Lu dou	Yunnan	China	China	1996	VII
594890	Wu yun dou	Yunnan	China	China	1996	VII
594903	Wu xi	Jiangsu	China	China	1996	VII
594904	Yinshan	Sichuan	China	China	1996	VII

Table 2.4. Descriptive data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
594875B	VII	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	3N
594877	VIII	N	P	T	E	N	Bl	I	Rbr	Rbr		3N
594879	VIII	N	P	T	E	N	Bl	I	Rbr	Rbr		2N
594880	V	D	W	T	Sa	N	Dbr	I	Rbr	Rbr		2N
594881	V	D	W	T	E	N	Dbr	I	Rbr	Rbr		2N
594884	V	D	W	T	Sa	N	Bl	I	Rbr	Rbr		2N
594885B	VII	D	W	T	A	N	Bl	I	Rbr	Rbr		2N
594887	V	D	P	T	E	N	Br	I	Brbl	Bl	St	4F
594888	VII	D	P	T	A	N	Br	I	Gn	Bl		3F
594890	VII	D	W	T	E	Ssp	Bl	D	Y	Br	Sph	3N
594903	VII	N	P	T	A	N	Br	I	Y	Bl	Def	3N
594904	VII	D	W	G	A	N	Br	I	Gn	Bf		3N

Table 3.4 Agronomic data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
594875B	730	1019	4.5	198*	2.0	3.5	2.5^	--	11.2	0.56
594877	806	1027	4.5	180*	1.5	3.5	2.5^	--	10.5^	0.27
594879	730	1022*	5.0	178	2.5	3.5	3.5	--	8.7^	0.39
594880	707	925	2.5	102*	1.0	2.0	2.2*	--	8.5	1.41
594881	703	925	2.5	108*	1.0	2.0	1.8	--	9.0	1.57
594884	707	926	2.5	121*	1.0	2.0	2.2	--	9.6	1.21
594885B	727	1014*	4.0	184*	1.5	2.5	3.0	--	9.0	0.49
594887	709	924	2.5	88*	3.0	4.5	2.8*	--	9.4	0.76
594888	722	1011*	3.5	172*	2.0	3.5	3.8	5.0	7.8	0.39
594890	715	1014*	3.0*	130*	2.0	3.0	3.8*	5.0	6.8	0.54*
594903	727	1011	3.0	98*	2.5	4.0	4.0	2.0	23.0*	0.89
594904	730	1013	4.0	132	2.5	3.5	3.2	2.0	13.2	1.05



Table 4.4. Seed composition data for USDA soybean germplasm in maturity groups V through VIII, PI 593948 to PI 594904 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 1998 and 1999.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594875B	VII	46.3 <sup>w^</sup>	16.2 <sup>w^</sup>	11.6 <sup>^</sup>	3.7 <sup>^</sup>	20.3 <sup>^</sup>	56.6 <sup>^</sup>	7.7 <sup>^</sup>
594877	VIII	47.2 <sup>w^</sup>	14.0 <sup>w^</sup>	11.2 <sup>^</sup>	3.7 <sup>^</sup>	19.3 <sup>^</sup>	56.8 <sup>^</sup>	9.0 <sup>^</sup>
594879	VIII	49.5 <sup>w^</sup>	15.9 <sup>w^</sup>	12.1	4.0	22.6	53.1	8.1
594880	V	46.5 <sup>w^</sup>	15.7 <sup>w^</sup>	12.8	3.8	16.4	59.2	7.8
594881	V	45.4 <sup>w^</sup>	18.3 <sup>w^</sup>	12.8	3.3	16.5	59.8	7.6
594884	V	45.1 <sup>w^</sup>	18.0 <sup>w^</sup>	12.9	3.5	16.1	59.7	7.8
594885B	VII	44.3 <sup>w^</sup>	18.9 <sup>w^</sup>	12.1	3.7	17.8	58.5	7.9
594887	V	46.3 <sup>w^</sup>	15.1 <sup>w^</sup>	12.7	3.0	18.2	57.0	9.0
594888	VII	42.5 <sup>w^</sup>	16.4 <sup>w^</sup>	14.0	4.1	19.8	53.9	8.2
594890	VII	43.7 <sup>w^</sup>	18.5 <sup>w^</sup>	13.2 <sup>^</sup>	5.0 <sup>^</sup>	24.9 <sup>^</sup>	49.5 <sup>^</sup>	7.3 <sup>^</sup>
594903	VII	50.2	16.3	12.4	3.4	21.6	54.8	7.8
594904	VII	46.7 <sup>w</sup>	17.1 <sup>w</sup>	12.3	3.8	27.7	49.7	6.4

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
	Anand	Missouri	United States	United States	2000	V
	Bedford	Tennessee	United States	United States	1977	V
	Boggs	Georgia	United States	United States	1998	VI
	Bolivar	Mississippi	United States	United States	1999	V
	Celest	Delaware	United States	United States	1977	V
	Delsoy 5500	Missouri	United States	United States	1996	V
	Derry	Maryland	United States	United States	1998	VI
	Dillon	South Carolina	United States	United States	1994	VI
	Fowler	Mississippi	United States	United States	2000	V
	Hutcheson	Virginia	United States	United States	1987	V
	Manokin	Maryland	United States	United States	1991	IV
	Musen	South Carolina	United States	United States	1997	VI
	NC-Roy	North Carolina	United States	United States	2001	VI
	Young	North Carolina	United States	United States	1984	VI
594621	Da lu dou	Guizhou	China	China	1996	IV
594647A	Wu zui zao dou No. 3	Guizhou	China	China	1996	IV
594647B	(Wu zui zao dou No. 3)	Guizhou	China	China	1996	IV
594721	Bei shan ba yue dou	Guangxi	China	China	1996	VIII
594864	Yang yan dou	Yunnan	China	China	1996	V
597469	Huai dou No. 2	Jiangsu	China	China	1996	V
597470	Nan nong 73-935	Jiangsu	China	China	1996	V
597473	82-24	Hubei	China	China	1996	V
597476	Deogyukong	unknown	South Korea	South Korea	1997	V
599508		Yunnan	China	China	1992	V
602493	Duckyou	unknown	South Korea	South Korea	1997	V
602991	Niu jiao qi da hei dou	Shandong	China	China	1998	IV
602992	Qin yang shui dou	Henan	China	China	1998	IV
603154		unknown	North Korea	North Korea	1997	V
603161		unknown	North Korea	North Korea	1997	V
603163		unknown	North Korea	North Korea	1997	V
603164		unknown	North Korea	North Korea	1997	V
603173		unknown	North Korea	North Korea	1997	V
603176B		unknown	North Korea	North Korea	1997	V
603178		Yunnan	China	China	1998	V
603458C	(Shui dou)	Shandong	China	China	1998	V
603461	He nan huan	Shandong	China	China	1998	V
603472C	(Qing huang dou)	Shandong	China	China	1998	V
603472D	(Qing huang dou)	Shandong	China	China	1998	V
603495B	(Hong mi lan dou zi)	Shandong	China	China	1998	V
603498B	(Lao shu pi)	Shaanxi	China	China	1998	IV
603499	Hei you dou	Shaanxi	China	China	1998	V
603500	Yuan bai dou	Shaanxi	China	China	1998	V
603503	Ben di huang dou	Shaanxi	China	China	1998	IV
603507	Bai dou	Shaanxi	China	China	1998	V
603508	Bai hei dou	Shaanxi	China	China	1998	V
603510	Xiao li bai	Shaanxi	China	China	1998	V

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
Anand	V	D	P	T	E	N	Tn	I	Y	Bl		3N
Bedford	V	D	W	T	Sa	N	Tn	I	Y	Bl		3N
Boggs	VI	D	W	T	E	N	Tn	S	Y	Bl		2N
Bolivar	V	D	P	T	A	N	Tn	D	Y	Bl		3N
Celest	V	D	P	G	Sa	Dn	Tn	I	Y	G	Vhil	2N
Delsoy 5500	V	D	W	T	E	N	Tn	D	Y	Br		2N
Derry	VI	N	W	T	E	N	Tn	I	Y	Bl		3N
Dillon	VI	D	P	G	A	N	Tn	I	Y	Bf		2N
Fowler	V	D	W	T	E	N	Tn	I	Y	Bl		4N
Hutcheson	V	D	W	G	Sa	N	Tn	D	Y	Bf		1N
Manokin	IV	D	W	T	E	N	Tn	I	Y	Bl		2N
Musen	VI	D	W	G	Sa	N	Tn	I	Y	Bf		3N
NC-Roy	VI	D	W	G	E	N	Br	I	Y	Bf		3N
Young	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
594621	IV	N	P	G	A	N	Br	I	Gn	Bf		4N
594647A	IV	D	P	Lt	A	N	Br	I	Y	Br		3N
594647B	IV	D	W	T	A	Ssp	Tn	I	Y	Br		2N
594721	VIII	D	P	G	Sa	N	Lbr	I	Y	Bf		3N
594864	V	D	P	T	A	Ssp	Br	I	Rbr	Rbr		2N
597469	V	D	W	G	A	Ssp	Tn	I	Y	Y	Vhil	3N
597470	V	D	P	G	A	Ssp	Tn	I	Y	Ib	Vhil	3N
597473	V	D	P	Ng	A	N	Tn	S	Y	Br		3N
597476	V	D	P	G	Sa	N	Tn	I	Y	Bf	Vhil	3N
599508	V	D	P	T	Sa	N	Tn	I	Y	Brbl	Vhil	3N
602493	V	D	P	G	Sa	N	Tn	I	Y	Bf	Vhil	3N
602991	IV	D	W	T	E	Ssp	Br	I	Bl	Bl		5F
602992	IV	D	W	G	A	Sp	Br	I	Y	Bf		3N
603154	V	D	W	G	A	Ssp	Tn	I	Y	Bf		2N
603161	V	D	W	G	Sa	Ssp	Tn	I	Y	Bf		2N
603163	V	D	P	T	Sa	Ssp	Br	Lb	Bl	Bl	Net	2N
603164	V	D	P	T	Sa	Ssp	Br	Lb	Bl	Bl	Net	3N
603173	V	D	W	G	E	Ssp	Br	I	Y	Bf		2N
603176B	V	N	P	T	E	Ssp	Br	I	Bl	Bl		4N
603178	V	D	W	T	E	N	Br	I	Y	Br		3N
603458C	V	D	P	T	A	Ssp	Tn	I	Y	Br		2N
603461	V	D	W	G	E	Ssp	Tn	I	Y	Bf		2N
603472C	V	N	P	G	E	Ssp	Br	I	Y	Bf	Vhil	4N
603472D	V	N	P	G	E	Ssp	Br	I	Ib	Ib		3N
603495B	V	N	P	Lt	E	N	Tn	I	Br	Rbr		5N
603498B	IV	D	W	G	A	N	Br	I	Y	Bf		3N
603499	V	N	W	Lt	E	N	Br	I	Bl	Bl		3N
603500	V	N	W	G	Sa	N	Br	I	Y	Bf		4F
603503	IV	N	P	T	Sa	N	Br	I	Rbr	Rbr		5F
603507	V	D	W	G	E	N	Tn	I	Y	Bf		3N
603508	V	D	W	G	E	Ssp	Tn	I	Y	Bf		4N
603510	V	N	W	T	A	Ssp	Br	I	Y	Br	Vhil	4N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
Anand	629	926	1.0	72	1.0	1.5	2.8*	1.0	13.5	4.12
Bedford	707	929	3.0	114*	1.0	1.0	2.5*	2.0	10.6	3.88
Boggs	711	1007	2.5	102	1.0	1.0	2.5	1.0	10.3	2.56
Bolivar	703	929	3.0	106*	1.0	1.0	2.8*	1.5	11.6	3.57
Celest	705	1002	3.0*	102*	1.0	1.0	2.8	2.5	13.8	2.84
Delsoy 5500	701	921	2.0	81	1.0	1.0	2.8	1.0	14.0	4.62
Derry	703	1011	3.0	196*	1.0	1.0	3.8*	1.0	12.3	1.40*
Dillon	709	1003	2.5	104*	1.0	1.0	2.8	1.0	12.1	4.02*
Fowler	629	926	2.0	86*	1.0	1.5	2.2	1.0	12.9	4.17
Hutcheson	703	925	2.0	88	1.0	1.0	2.5	1.0	13.6	4.33
Manokin	628	919	1.5	66*	1.0	1.0	3.0	1.0	12.2	2.88*
Musen	709	1027	2.5	100	1.0	1.0	3.3*	1.0	10.0	2.01*
NC-Roy	703	1020*	3.0*	85*	1.0	1.0	2.8*	1.0	10.8	2.89
Young	713	1010	3.0*	121*	1.0	2.0	2.8	1.0	12.5	3.04
594621	629	911	4.0	96*	1.5	2.5	3.5	2.0	15.9	1.94*
594647A	713	912	3.5	85*	1.0	1.5	2.5	2.0	9.0	2.24
594647B	713	910	3.5	96*	3.0*	3.5*	2.2	2.0	8.8	2.37*
594721	806	1029*	3.0	104*	1.0	1.0	2.5^	1.0^	9.5^	0.76^
594864	626	921	4.0	112*	1.0	2.0*	2.5	--	20.4	2.69*
597469	703	925	2.5	82*	1.5	2.5	2.8	1.0	15.0	1.84*
597470	705	929	2.0	82*	1.0	2.0	2.2	1.0	13.5	2.01*
597473	627	921	2.5	70*	1.0	1.5	2.0	1.5	10.4	2.87*
597476	628	919	1.0	71*	2.0	2.5	2.0	1.0	12.8	2.94*
599508	627	929	3.5	81*	2.0	3.0	3.0	1.0	17.0	2.33
602493	628	921	1.0	72*	1.0	2.0	2.2	1.0	12.5	3.01*
602991	620	911	2.0*	72*	2.5	3.5	3.2*	--	15.1	1.88
602992	629	911	3.5	81*	1.0	2.0	2.8	2.0*	12.9	2.42*
603154	625	921	1.5	57	1.0	1.5	2.8	2.0	14.7	1.74
603161	626	922	2.0	52	1.0	1.5	2.8	2.0	14.5	1.57
603163	627	917	1.5	42*	1.5	1.5	2.8	--	18.3	1.15
603164	624	918	1.0	46*	1.0	1.5	2.8	--	17.5	1.22
603173	628	921	3.0	74	1.0	1.0	2.5	1.0	15.3	2.51
603176B	621	1005	4.0	95	1.5	2.5	3.2*	--	7.7	0.92
603178	628	921	2.5	78	2.0	2.5	2.2	2.5	14.6	2.14
603458C	625	930	3.5	75*	1.5	3.0	3.2*	2.5	9.4	1.52
603461	625	921	2.0	63	1.0	1.5	3.0	2.5	12.3	2.13
603472C	625	921	4.5	146*	2.5	3.5	4.0	2.0	14.0	1.77
603472D	625	929	4.5	151*	1.0	2.5	3.0	--	9.8	0.87
603495B	620	919	4.0*	235*	2.0	3.0	3.2	--	12.8	1.32
603498B	625	914	2.5	88*	1.0	1.0	3.2	1.0	12.8	2.67*
603499	625	930	4.5	184	1.5	1.5	2.2	--	11.2	1.48
603500	625	925	4.0	111*	1.5	2.0	4.0	2.0	8.2	0.61
603503	615	907	5.0	152*	1.0	1.5	4.5	--	17.5	1.52
603507	627	923	3.0	89	1.0	3.0	3.0	1.0	14.4	3.15
603508	708^	916^	2.0^	106^	2.0^	2.0^	2.5^	1.0^	8.9^	2.54^
603510	708^	929^	5.0^	143^	2.0^	2.0^	3.0^	2.0^	7.3^	1.92^

Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Anand	V	41.0	20.5	13.9	3.2	21.4	54.9	6.7
Bedford	V	43.0	19.8	12.8	3.3	24.4	53.4	6.1
Boggs	VI	44.5	20.4	13.1	3.1	22.5	55.4	5.9
Bolivar	V	41.8 <sup>w</sup>	20.3 <sup>w</sup>	12.5	3.1	27.1	51.6	5.7
Celest	V	43.3	18.7	13.6	3.7	18.8	56.7	7.2
Delsoy 5500	V	42.1	21.1	13.3	3.1	21.5	56.1	6.0
Derry	VI	47.5	18.8	12.8	2.8	38.1	42.0	4.2
Dillon	VI	42.6	20.0	12.1	2.9	19.5	59.0	6.6
Fowler	V	40.8	19.5	13.3	3.5	17.7	58.3	7.3
Hutcheson	V	40.9	20.8	13.4	3.8	20.6	55.6	6.6
Manokin	IV	41.7	22.0	13.4	3.9	24.1	53.1	5.5
Musen	VI	43.3 <sup>w</sup>	17.4 <sup>w</sup>	13.9	3.6	17.4	56.7	8.4
NC-Roy	VI	42.1	19.5	13.3	3.8	19.1	56.0	7.9
Young	VI	43.5	19.1	13.1	2.9	21.1	56.9	6.0
594621	IV	47.3 <sup>w</sup>	19.4 <sup>w</sup>	11.8	2.8	30.1	49.1	6.1
594647A	IV	45.9	18.9	13.4	3.5	23.0	52.9	7.2
594647B	IV	48.6	17.9	12.9	3.9	22.2	54.3	6.7
594721	VIII	51.4 <sup>^</sup>	13.0 <sup>^</sup>	12.8 <sup>^</sup>	3.1 <sup>^</sup>	22.6 <sup>^</sup>	54.4 <sup>^</sup>	7.1 <sup>^</sup>
594864	V	42.8 <sup>w</sup>	20.3 <sup>w</sup>	11.0	2.6	28.2	52.7	5.5
597469	V	47.2	17.2	15.3	3.7	24.1	50.5	6.4
597470	V	46.6	17.8	14.1	2.9	26.9	50.2	5.8
597473	V	49.6	15.2	14.0	3.6	23.5	51.4	7.5
597476	V	49.0	18.8	13.1	2.8	23.9	53.3	7.0
599508	V	46.1	18.1	14.0	3.2	21.3	55.3	6.3
602493	V	49.0	18.8	12.5	2.9	22.0	55.4	7.1
602991	IV	44.3 <sup>w</sup>	15.6 <sup>w</sup>	12.2	3.0	20.5	56.5	7.8
602992	IV	43.4	20.4	12.0	2.5	36.4	44.9	4.1
603154	V	45.6	19.6	12.6	4.1	22.5	55.0	5.7
603161	V	46.5	19.3	12.1	3.8	26.8	51.9	5.3
603163	V	48.2 <sup>w</sup>	17.4 <sup>w</sup>	10.6	2.8	31.0	48.3	7.3
603164	V	47.3 <sup>w</sup>	17.8 <sup>w</sup>	10.6	2.9	29.6	49.1	7.8
603173	V	46.0	20.1	12.6	3.3	20.4	58.2	5.6
603176B	V	50.0 <sup>w</sup>	11.7 <sup>w</sup>	12.7	4.2	22.2	53.1	7.9
603178	V	42.9	18.9	13.9	3.0	21.3	55.6	6.3
603458C	V	45.6	18.2	14.0	3.8	20.6	54.3	7.3
603461	V	44.9	18.9	13.6	3.0	19.6	58.1	5.8
603472C	V	45.6	18.7	11.9	3.5	27.2	51.0	6.5
603472D	V	46.5 <sup>w</sup>	14.1 <sup>w</sup>	11.5	3.7	27.1	51.2	6.5
603495B	V	46.2 <sup>w</sup>	15.3 <sup>w</sup>	11.6	3.1	31.9	47.5	6.0
603498B	IV	43.2	19.9	12.1	3.6	23.4	55.4	5.5
603499	V	44.3 <sup>w</sup>	17.6 <sup>w</sup>	12.4	3.4	24.7	53.7	5.8
603500	V	45.7	16.1	14.7	4.0	17.9	55.5	7.8
603503	IV	45.0 <sup>w</sup>	19.1 <sup>w</sup>	10.0	3.8	17.8	61.3	7.1
603507	V	42.1	21.4	12.3	3.1	24.3	55.1	5.2
603508	V	44.1 <sup>^</sup>	17.4 <sup>^</sup>	12.5 <sup>^</sup>	3.5 <sup>^</sup>	21.9 <sup>^</sup>	55.0 <sup>^</sup>	7.1 <sup>^</sup>
603510	V	46.4 <sup>^</sup>	17.1 <sup>^</sup>	12.8 <sup>^</sup>	4.4 <sup>^</sup>	17.9 <sup>^</sup>	56.8 <sup>^</sup>	8.0 <sup>^</sup>

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
603511C	(Wan dou huang)	Shaanxi	China	China	1998	V
603518	Lu huang dou	Shaanxi	China	China	1998	V
603523	Ba yue zha	Shaanxi	China	China	1998	V
603527B	(Hei liao dou)	Shaanxi	China	China	1998	V
603530A	An hui dou	Shaanxi	China	China	1998	V
603530B	(An hui dou)	Shaanxi	China	China	1998	V
603530C	(An hui dou)	Shaanxi	China	China	1998	V
603537A	Niu yan jing quan zi	Shaanxi	China	China	1998	V
603537B	(Niu yan jing quan zi)	Shaanxi	China	China	1998	V
603538A	Wan dou zao	Shaanxi	China	China	1998	V
603538B	(Wan dou zao)	Shaanxi	China	China	1998	V
603543D	(Lu huang dou)	Shanxi	China	China	1998	VI
603543E	(Lu huang dou)	Shanxi	China	China	1998	V
603544B	(Lu da dou)	Shanxi	China	China	1998	V
603563C	(Hei qi huang dou)	Shanxi	China	China	1998	V
603565	Bai hei dou <1>	Shanxi	China	China	1998	V
603570D	(Huang dou <1>)	Shanxi	China	China	1998	V
603572	Chun bai dou	Shanxi	China	China	1998	V
603573B	(Jing dou)	Shanxi	China	China	1998	V
603576B	(Bai da dou)	Shanxi	China	China	1998	V
603577	Bai dou	Shanxi	China	China	1998	V
603578	Bai dou	Shanxi	China	China	1998	V
603580	Ba yue zha	Shanxi	China	China	1998	V
603581	Yi wo feng <1>	Shanxi	China	China	1998	V
603584	Qing dou	Shanxi	China	China	1998	V
603588	Jing si dou	Shanxi	China	China	1998	V
603590	Gu tian dou	Fujian	China	China	1998	VI
603600	72022	Fujian	China	China	1998	IV
603609	Pu qi huang se dou	Hubei	China	China	1998	V
603616	69-4	Hubei	China	China	1998	V
603619	Ba yue pa zi huang dou	Hubei	China	China	1998	V
603624	Liu yue bao	Hubei	China	China	1998	V
603625	Bai ba yue zha zi	Hubei	China	China	1998	V
603635	Zao niu mao huang	Hubei	China	China	1998	V
603636	Chi huang dou No. 2	Hubei	China	China	1998	IV
603637A	Qing pi cao huang dou	Hubei	China	China	1998	V
603637B	(Qing pi cao huang dou)	Hubei	China	China	1998	IV
603638	Lu pi dou	Hubei	China	China	1998	V
603649	Jiang se dou	Hubei	China	China	1998	V
603665	Mi luo dou ban sheng	Hunan	China	China	1998	VI
603669	Ren chao xi lu pi dou	Hunan	China	China	1998	IV
603673E	(Dong hai bai ta me jia cao)	Jiangsu	China	China	1998	V
603677A	Sui ning huang xu da dou	Jiangsu	China	China	1998	V
603681A	Pei xian xiao bai pi	Jiangsu	China	China	1998	V
603685A	Xin yi huang se tu yan zi	Jiangsu	China	China	1998	V
603688	Gan yu tei jia zi dou	Jiangsu	China	China	1998	V

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
603511C	V	D	W	G	A	Ssp	Br	I	Y	Y	Vhil	2N
603518	V	D	W	T	E	N	Bl	I	Gn	Br		2N
603523	V	D	W	T	A	Ssp	Br	I	Gn	Br		3N
603527B	V	N	P	T	E	N	Bl	Lb	Bl	Bl		5F
603530A	V	D	W	T	A	Ssp	Tn	I	Rbr	Rbr	Sdef	3N
603530B	V	D	W	T	E	Ssp	Bl	I	Rbr	Rbr		3N
603530C	V	D	P	T	A	Ssp	Tn	I	Rbr	Rbr	Sdef	2N
603537A	V	D	W	T	E	Ssp	Br	I	Br	Rbr		2N
603537B	V	D	W	T	E	Ssp	Bl	I	Br	Br	St	2N
603538A	V	D	W	G	A	Ssp	Br	I	Y	Y	Vhil	2N
603538B	V	D	P	G	A	Ssp	Br	I	Y	Y	Vhil	2N
603543D	VI	D	P	T	Sa	N	Br	I	Gn	Br		4N
603543E	V	D	P	T	E	Ssp	Br	I	Gn	Br	Vhil	3N
603544B	V	D	P	G	E	N	Bl	D	Gn	Dbf		5N
603563C	V	N	P	G	Sa	N	Br	I	Y	Bf	Vhil	4N
603565	V	N	W	T	E	N	Br	S	Y	Br	Sph	5N
603570D	V	D	P	G	E	N	Br	I	Y	Bf		4N
603572	V	N	W	T	Sa	N	Br	I	Y	Br		4N
603573B	V	N	W	G	E	N	Br	I	Y	Bf		2N
603576B	V	N	W	G	E	N	Br	I	Y	Bf		4N
603577	V	N	P	G	A	N	Br	I	Y	Bf		5N
603578	V	N	W	G	E	N	Dbr	S	Y	Bf		3N
603580	V	D	W	G	E	N	Tn	I	Y	Bf		4N
603581	V	D	W	G	E	N	Tn	I	Y	Bf		3N
603584	V	N	W	T	E	N	Bl	I	Gn	Brbl	Gnc	5N
603588	V	D	P	T	E	Ssp	Bl	I	Br	Rbr		4F
603590	VI	N	P	T	A	N	Tn	I	Y	Bl		3N
603600	IV	D	P	T	Sa	N	Tn	I	Y	Br		2N
603609	V	D	W	G	A	N	Tn	I	Y	Bf		3N
603616	V	D	W	G	A	N	Tn	I	Y	Bf		3N
603619	V	N	W	T	A	N	Tn	I	Y	Br		3N
603624	V	N	W	G	A	N	Tn	I	Y	Bf		3N
603625	V	D	W	G	A	N	Br	I	Y	Bf		4N
603635	V	N	W	T	A	N	Br	I	Gn	Br	Vhil, Vsc	3N
603636	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
603637A	V	D	W	T	A	N	Br	I	Gn	Brbl	Vhil	3N
603637B	IV	D	W	T	A	N	Br	I	Gn	Brbl	Vhil	4N
603638	V	D	P	Lt	A	Ssp	Br	I	Gn	Brbl	Vhil	2N
603649	V	N	P	T	A	N	Br	I	Rbr	Rbr		2N
603665	VI	D	P	T	A	Ssp	Br	D	Y	Br		3N
603669	IV	D	W	G	A	N	Br	I	Gn	Bf		2N
603673E	V	N	W	G	A	Sp	Tn	I	Y	Bf		4N
603677A	V	D	P	G	A	Ssp	Br	I	Gn	Gn	Sdef, Vhil	2N
603681A	V	D	P	G	A	N	Br	I	Y	Y	Vhil	3N
603685A	V	N	P	G	A	Ssp	Br	I	Y	Bf	Vhil	3N
603688	V	D	W	G	A	N	Tn	I	Y	Bf		3N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
603511C	703	928	3.0	77*	2.0	2.0	3.0	1.5	8.4	1.64
603518	617	921	1.5	60*	1.0	1.0	2.8	3.5	9.6	1.83
603523	629	1001	3.0	76*	1.0	1.5	2.5	2.5	12.2	1.35
603527B	705	1003	4.5	170*	1.0	1.0	4.0	--	8.3	0.57
603530A	626	917	3.0	108	2.5	2.5	2.8	--	16.9	1.92*
603530B	627	1003	3.5	136*	1.0	1.0	3.2*	--	11.1	1.41
603530C	623	915	4.0	132*	2.0	2.5	2.8	--	21.8	2.20
603537A	627	1003	3.0	97*	1.0	1.0	2.8*	--	12.2	1.58
603537B	623	1003	3.0	89	1.0	1.0	2.8	--	14.0	1.82
603538A	623	925	1.5	59*	2.0	3.0	3.0	2.0*	12.8	1.15
603538B	702	929	3.0	94*	1.0	2.5	2.8	1.5	14.0	1.66
603543D	705	1015	3.5	110*	1.0	2.0	3.8	2.5	11.2	0.84
603543E	703	1003	3.5	93*	2.0	2.0	3.5	1.5	10.4	1.79
603544B	625	915	3.5	96	1.0	1.0	4.5	3.0	12.0	1.17
603563C	625	1001	3.5	114*	2.0	3.0	3.5	2.5	11.1	1.34
603565	702	923	4.0	120*	1.0	2.0	2.2	3.0	6.2	1.67
603570D	629	917	3.0	93	1.0	1.0	3.5	1.5	11.0	2.07
603572	626	929	4.5	128*	1.0	1.0	4.5	2.5	10.2	1.41*
603573B	625	1001	3.5	114*	1.0	1.0	3.5	1.5	12.6	0.87*
603576B	625	923	4.5	116*	2.0	3.0	3.0	1.5	11.6	1.60
603577	623	926	4.5	140*	2.0	2.0	4.5	2.0	14.3	1.16
603578	623	929	3.5	100	1.0	1.0	2.8	3.5	11.4	1.99
603580	702	929	3.5	78	1.0	2.5	2.5	3.5	7.8	1.82
603581	627	928	3.0	66*	1.0	1.5	2.5	1.5	8.6	1.70*
603584	619	921	3.5	140*	1.0	2.0	4.0	3.0	13.1*	1.37
603588	619	923	4.0	98*	1.0	1.5	4.5	--	10.0	1.43
603590	722	1006	3.0	100*	1.5	2.5	3.0	2.0	17.1	1.34
603600	628	913	3.0	111	1.5	2.5	3.2	1.0	15.6	2.68
603609	720	923	3.5	95	2.0	3.0	2.2	2.5	7.0	1.97
603616	627	925	3.0	78*	1.0	2.0	2.5	1.5	12.8	2.07
603619	723	925	3.5	92*	2.0	3.0	2.0	2.0*	6.6	1.68*
603624	629	929	3.5	88*	1.0	2.0	2.5	1.0	11.7	2.29
603625	703	930	3.5	130*	2.0	3.0	2.8	2.0	7.0	1.21
603635	708	928	3.5	86*	1.0	2.0	2.2	1.0	13.0	2.33*
603636	708	911	3.5	90	1.0	1.5	3.0*	2.5	11.0	1.99
603637A	703	915	3.0	107*	1.0	1.0	2.5	1.5	10.4	2.06
603637B	705^	910^	4.0^	76^	1.0^	1.0^	4.0^	3.0^	9.7^	1.52^
603638	713	919	4.0	69*	2.0	2.5	2.2	1.5	14.1	2.48*
603649	713	923	3.5	110*	1.0	1.0	1.8	--	11.6	1.90
603665	803	1015	3.0	180*	1.0	2.0	3.2	1.5	12.6	1.74
603669	711	909	4.0	101*	1.0	1.5	2.5	1.5	12.6	2.56*
603673E	707	916	5.0	130*	1.0	1.5	3.2	2.5	8.4	2.21*
603677A	626	915	2.0	63*	1.0	1.5	2.8	1.0	22.5*	2.37*
603681A	623	918	4.5	140	2.0	2.5	3.2	1.0	18.6	2.68
603685A	713	930	4.0	121*	2.0	3.0	3.0	1.0	13.4	0.94
603688	627	1001	4.0	130	1.0	2.0	2.8*	1.0	11.8	1.40



Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603511C	V	46.0	17.7	12.4	4.3	20.8	55.9	6.6
603518	V	44.3 <sup>w</sup>	18.7 <sup>w</sup>	11.9	3.8	16.7	59.9	7.8
603523	V	47.7 <sup>w</sup>	17.0 <sup>w</sup>	12.4	2.9	22.9	56.0	5.9
603527B	V	48.2 <sup>w</sup>	14.6 <sup>w</sup>	11.7	3.9	16.8	59.2	8.4
603530A	V	45.2 <sup>w</sup>	15.2 <sup>w</sup>	11.1	2.7	26.4	54.1	5.7
603530B	V	46.9 <sup>w</sup>	16.5 <sup>w</sup>	12.4	3.6	18.9	57.6	7.6
603530C	V	44.3 <sup>w</sup>	20.7 <sup>w</sup>	11.0	2.5	33.0	48.0	5.5
603537A	V	46.7 <sup>w</sup>	15.7 <sup>w</sup>	12.2	3.2	19.0	58.5	7.3
603537B	V	45.8 <sup>w</sup>	16.6 <sup>w</sup>	12.1	2.8	19.1	58.2	7.8
603538A	V	45.7	19.9	12.6	3.5	20.8	56.8	6.3
603538B	V	47.9	19.0	12.9	3.6	22.5	55.0	5.9
603543D	VI	47.6 <sup>w</sup>	16.8 <sup>w</sup>	12.8	3.9	20.9	55.1	7.3
603543E	V	45.7 <sup>w</sup>	17.7 <sup>w</sup>	12.6	3.4	22.3	56.0	5.8
603544B	V	46.4 <sup>w</sup>	17.8 <sup>w</sup>	13.0	3.6	20.1	56.3	7.0
603563C	V	46.3	19.1	14.5	3.4	25.2	51.2	5.7
603565	V	46.5	15.5	12.9	3.2	23.0	52.8	8.0
603570D	V	41.9	19.1	12.8	3.0	26.6	51.6	6.1
603572	V	44.8 <sup>w</sup>	17.7 <sup>w</sup>	13.7	3.4	27.7	49.7	5.5
603573B	V	45.8	18.1	13.2	4.1	35.9	42.1	4.8
603576B	V	42.7	21.4	12.7	3.2	26.8	52.1	5.3
603577	V	46.7	17.2	12.5	4.3	30.0	47.7	5.5
603578	V	47.8 <sup>w</sup>	18.4 <sup>w</sup>	11.3	3.1	32.4	48.3	4.9
603580	V	42.9 <sup>w</sup>	15.2 <sup>w</sup>	12.3	3.4	23.5	51.6	9.1
603581	V	44.1	16.9	13.8	3.5	21.6	54.0	7.1
603584	V	45.4 <sup>w</sup>	19.4 <sup>w</sup>	12.4	3.8	21.5	56.5	5.7
603588	V	49.2 <sup>w</sup>	14.1 <sup>w</sup>	11.8	3.9	18.9	58.6	6.8
603590	VI	46.8	17.4	13.8	3.5	28.6	48.1	6.0
603600	IV	43.0	18.7	13.6	2.7	31.2	47.2	5.3
603609	V	46.0	15.7	15.5	3.8	21.9	50.9	7.9
603616	V	46.3	17.9	13.2	3.3	23.2	53.8	6.6
603619	V	45.6	15.3	15.0	3.7	21.3	52.3	7.7
603624	V	46.1	18.1	12.7	3.2	23.7	53.6	6.8
603625	V	44.6	15.5	13.7	3.7	20.1	55.5	7.0
603635	V	45.7 <sup>w</sup>	17.7 <sup>w</sup>	12.3	3.1	25.3	52.1	7.2
603636	IV	44.2	16.7	13.2	3.1	29.3	47.4	7.0
603637A	V	43.8 <sup>w</sup>	17.4 <sup>w</sup>	12.7	3.2	26.8	50.9	6.4
603637B	IV	44.0 <sup>w</sup>	18.1 <sup>w</sup>	12.1	3.3	27.0	49.9	7.6
603638	V	44.1 <sup>w</sup>	17.7 <sup>w</sup>	11.7	2.7	28.5	50.5	6.6
603649	V	44.8 <sup>w</sup>	16.1 <sup>w</sup>	11.5	3.3	26.6	51.5	7.1
603665	VI	46.2	17.4	12.5	3.4	25.8	51.8	6.5
603669	IV	44.1 <sup>w</sup>	17.6 <sup>w</sup>	11.9	2.7	31.4	48.0	6.1
603673E	V	42.3	18.2	13.5	3.2	23.9	51.8	7.5
603677A	V	41.7 <sup>w</sup>	20.7 <sup>w</sup>	10.6	2.5	31.5	49.8	5.6
603681A	V	46.1	17.6	14.7	2.9	25.7	50.2	6.5
603685A	V	49.7	17.2	13.0	3.6	22.7	53.7	7.0
603688	V	44.8	19.2	14.3	3.6	24.7	50.8	6.6

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
603689	Gan yu ping ding huang jia	Jiangsu	China	China	1998	V
603693A	Shu yang hong mao qiu yi	Jiangsu	China	China	1998	V
603693B	(Shu yang hong mao qiu yi)	Jiangsu	China	China	1998	VI
603700	Kan jiang qiu dao huang yi	Jiangsu	China	China	1998	V
603713	Niu mao huang	Sichuan	China	China	1998	V
603714	Nan jiang qi yue bao	Sichuan	China	China	1998	V
603720	Han yuan xi xi bian dou	Sichuan	China	China	1998	V
603730A	Da bai shui dou	Sichuan	China	China	1998	IV
603730B	(Da bai shui dou)	Sichuan	China	China	1998	IV
603730C	(Da bai shui dou)	Sichuan	China	China	1998	IV
603730D	(Da bai shui dou)	Sichuan	China	China	1998	IV
603730E	(Da bai shui dou)	Sichuan	China	China	1998	VI
603731A	Da bai jiao	Sichuan	China	China	1998	V
603731B	(Da bai jiao)	Sichuan	China	China	1998	VI
603732A	Bai hua dou	Sichuan	China	China	1998	V
603732B	(Bai hua dou)	Sichuan	China	China	1998	V
603741A	(Zong se dou)	Sichuan	China	China	1998	V
603742C	(8601 Wei -1)	Sichuan	China	China	1998	IV
603907	Baksungtae	unknown	North Korea	North Korea	1998	V
603910C	(Cin)	unknown	North Korea	North Korea	1998	V
603910D	(Cin)	unknown	North Korea	North Korea	1998	V
603913D	(No. 1)	unknown	North Korea	North Korea	1998	IV
605758B		Lang son	Vietnam	Vietnam	1998	V
605758D		Lang son	Vietnam	Vietnam	1998	VII
605775		Cao bang	Vietnam	Vietnam	1998	VIII
605776		Cao bang	Vietnam	Vietnam	1998	V
605777		Cao bang	Vietnam	Vietnam	1998	VI
605779A		Cao bang	Vietnam	Vietnam	1998	VIII
605779E		Cao bang	Vietnam	Vietnam	1998	VIII
605780A		Cao bang	Vietnam	Vietnam	1998	IV
605780C		Cao bang	Vietnam	Vietnam	1998	IV
605781A		Cao bang	Vietnam	Vietnam	1998	VI
605781B		Cao bang	Vietnam	Vietnam	1998	V
605786B		Cao bang	Vietnam	Vietnam	1998	VI
605787B		Cao bang	Vietnam	Vietnam	1998	VIII
605789A		Cao bang	Vietnam	Vietnam	1998	V
605789B		Cao bang	Vietnam	Vietnam	1998	V
605789C		Cao bang	Vietnam	Vietnam	1998	V
605789D		Cao bang	Vietnam	Vietnam	1998	V
605791A		Cao bang	Vietnam	Vietnam	1998	VI
605791B		Cao bang	Vietnam	Vietnam	1998	V
605792B		Cao bang	Vietnam	Vietnam	1998	IV
605792D		Cao bang	Vietnam	Vietnam	1998	IV
605793		Cao bang	Vietnam	Vietnam	1998	VI
605799A		Bac can	Vietnam	Vietnam	1998	IV
605805A	Dau tuong mat vang	Tuyen quang	Vietnam	Vietnam	1998	V

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
603689	V	D	W	G	A	Ssp	Br	I	Y	Y	Vhil	2N
603693A	V	N	W	Lt	A	Ssp	Br	I	Y	Br		3N
603693B	VI	N	W	T	A	Ssp	Tn	I	Y	Br	Vhil	3N
603700	V	D	P	G	A	Ssp	Br	I	Y	Bf	Vhil	2N
603713	V	D	P	T	A	N	Tn	I	Y	Bl		2N
603714	V	S	W	G	A	Ssp	Tn	S	Y	Bf		2N
603720	V	N	W	T	E	Ssp	Tn	D	Y	Tn		3N
603730A	IV	D	W	Lt	Sa	Ssp	Br	I	Y	Br		3N
603730B	IV	D	W	Lt	A	Ssp	Br	I	Y	Br		3N
603730C	IV	D	W	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
603730D	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
603730E	VI	N	P	T	A	N	Br	D	Y	Brbl	Vhil	3N
603731A	V	D	P	G	E	N	Lbr	D	Y	Bf		3N
603731B	VI	N	P	T	Sa	N	Br	I	Y	Br		3N
603732A	V	N	W	G	E	Ssp	Dbr	I	Y	Bf		2N
603732B	V	D	W	G	E	Sp	Dbr	I	Y	Bf		2N
603741A	V	D	W	T	Sa	N	Br	I	Br	Rbr		3N
603742C	IV	D	P	T	E	N	Tn	I	Y	Bl		3N
603907	V	D	P	T	E	Ssp	Br	I	Y	Tn	Sst	3N
603910C	V	N	P	T	Sa	N	Br	B	Bl	Bl	Flk	3N
603910D	V	N	W	T	E	Ssp	Tn	Lb	Bl	Bl		3N
603913D	IV	S	W	G	E	N	Br	I	Y	Y	Vhil	2N
605758B	V	N	P	T	A	N	Tn	I	Y	Br		3N
605758D	VII	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
605775	VIII	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
605776	V	D	P	T	Sa	N	Br	I	Lgn	Br		2N
605777	VI	D	P	T	A	N	Tn	I	Y	Br	Vhil	3N
605779A	VIII	N	P	T	A	N	Tn	I	Lgn	Br		3N
605779E	VIII	N	P	T	A	N	Tn	I	Lgn	Br		3N
605780A	IV	D	P	T	A	Ssp	Tn	I	Y	Br		3N
605780C	IV	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
605781A	VI	D	W	T	Sa	N	Tn	D	Y	Br		3N
605781B	V	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
605786B	VI	D	P	T	A	N	Tn	S	Y	Brbl	Vhil	3N
605787B	VIII	N	P	Lt	A	N	Tn	I	Y	Br		3N
605789A	V	D	P	G	A	N	Tn	I	Y	Bf		3N
605789B	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605789C	V	D	W	Lt	A	N	Br	I	Y	Br		4N
605789D	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
605791A	VI	D	W	T	Sa	N	Tn	D	Y	Br		3N
605791B	V	D	P	G	A	N	Br	I	Y	Bf		3N
605792B	IV	D	P	T	A	N	Br	I	Y	Br		2N
605792D	IV	D	P	T	Sa	Ssp	Br	I	Y	Y	Vhil	2N
605793	VI	D	W	T	Sa	N	Tn	D	Y	Br		3N
605799A	IV	D	P	G	A	N	Br	I	Y	Bf		3N
605805A	V	D	P	G	A	N	Br	I	Y	Bf		3N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
603689	703	927	4.0	123	2.0	3.0	2.8	1.0	15.7	1.83
603693A	623	923	4.5	183*	3.0	4.0	3.2	3.0	13.8	1.25
603693B	707	1007*	4.0	118*	1.0	1.0	3.2*	2.0	11.6	1.53
603700	626	918	3.0	61	3.0	4.0	2.8	1.5	14.2	1.86
603713	717	925	3.0	62	1.0	2.5	2.8	1.5	7.6	1.30
603714	705	921	2.0	46*	1.0	1.0	2.0	1.5	7.5	1.09
603720	701	1001	3.5	130*	1.0	1.5	3.2	2.5	13.2	1.42
603730A	701	911	4.0	90	1.0	2.0	3.0	1.5	11.7	2.46
603730B	629	909	3.5	110	1.0	2.0	2.5	1.5	11.7	2.33
603730C	701	909	3.5	110	1.0	2.5	2.5	1.5	11.4	2.63
603730D	704	913	3.0	108	1.5	3.0	2.5	1.5	11.3	2.62*
603730E	625	1009*	4.0	150*	1.5	2.5	3.0	3.0	10.4	0.74
603731A	704	929	3.0	88	1.0	2.0	3.0	2.0	12.0	1.71
603731B	626	1007	4.5	108*	1.0	1.5	3.2*	2.5	10.2	0.93
603732A	701	925	3.5	90*	2.0	2.0	2.2	2.0	12.7	1.67
603732B	701	1001	3.5	104*	2.0	2.0	2.5	2.0	12.0	1.57
603741A	712	922	3.5	100	2.0	3.0	2.8	--	14.3	1.67
603742C	622	910	2.5	97*	1.0	1.5	3.5	1.5	14.4	2.70*
603907	623	923	2.5	68	1.0	2.0	3.0	2.5	16.5	2.04
603910C	629	1001	4.0	110*	2.0	2.0	2.8	--	11.4	1.54
603910D	621	1001	4.0	145	2.0	2.5	3.0	--	9.4	1.46
603913D	618	913	1.5	45	1.0	1.0	2.8	1.0	18.2	2.97*
605758B	711	928*	3.5	118*	2.0	2.5	2.0	2.5	8.4	1.30
605758D	711	1022*	3.5	131	1.5	2.0*	3.2*	2.0	8.2	0.63
605775	727	1102*	3.5	115*	1.0	1.5	3.5	2.0	9.9	0.88*
605776	729	1005	3.5	157*	2.0	3.0	2.8*	2.0	10.4	1.02
605777	802	1016*	3.0	122*	1.0	1.5	3.0	2.0	10.2	0.98*
605779A	814	1108*	4.0	132	1.0	1.0	3.0^	3.0^	10.1^	0.77^
605779E	817	1102*	4.5	174	1.0	1.0	3.0^	3.0^	7.3^	1.02^
605780A	705	913	4.0	102*	2.0	3.5	2.8*	2.5	10.4	1.98*
605780C	705	912	4.0	94*	2.0	3.5	2.8*	2.0	9.0	1.80
605781A	714	1011*	3.0	102*	1.5	2.5	3.5	2.5	14.6	0.78
605781B	720	923	3.0	90*	3.0	4.0	2.2	3.0	9.2	1.58*
605786B	802	1017*	3.0	132	1.0	1.0	2.0^	3.0^	11.5^	1.28^
605787B	824	1118*	4.0	160*	1.5	2.0*	3.0^	3.0^	11.5^	0.91^
605789A	712	918	4.0	102*	1.5	2.5	2.2	2.0	8.6	1.40
605789B	708	915	4.0	98	3.0	4.0	1.8	2.0	8.4	1.29
605789C	713	917	4.0	102	2.0	3.5	2.0	3.0	8.6	1.64
605789D	707	915	3.5	97*	2.0	2.5	2.2*	2.5	8.8	2.06
605791A	713	1016*	3.5	96*	1.5	2.5	3.2*	2.0	14.2	0.78
605791B	709	915	4.0	115*	2.0	2.0	2.0	2.0	8.8	1.62
605792B	708	913	4.0	101*	1.0	2.5	2.5	3.5	10.0	1.29
605792D	629	822	2.5	74	2.0	3.5	1.8	1.0	10.3	2.37
605793	712	1016*	3.0	114*	1.0	2.0	3.5	2.5	14.2	0.77*
605799A	709	913	4.0	97	1.0	1.5	2.2	2.0	9.7	1.83
605805A	711	917	4.0	98	1.0	1.5	2.0	2.5	9.6	1.96

Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603689	V	45.6	18.7	11.6	3.2	36.7	43.7	4.7
603693A	V	51.1	17.5	13.6	3.6	26.5	50.7	5.7
603693B	VI	48.9	16.5	13.6	3.9	24.7	52.0	5.9
603700	V	46.5	17.6	11.6	2.9	25.9	52.9	6.7
603713	V	50.5	16.8	13.5	3.6	23.9	52.7	6.3
603714	V	49.2	16.6	13.6	2.9	25.9	51.3	6.3
603720	V	47.2	20.0	13.9	3.1	27.7	50.0	5.3
603730A	IV	46.7	18.2	13.8	3.8	22.4	53.7	6.3
603730B	IV	45.6	18.2	13.8	3.9	22.6	53.5	6.2
603730C	IV	44.5	20.0	13.0	3.9	24.6	52.6	6.0
603730D	IV	45.2	19.3	12.9	4.1	26.9	50.5	5.5
603730E	VI	48.7	17.1	13.8	3.6	23.3	53.6	5.7
603731A	V	46.6	17.4	13.0	3.8	23.2	54.3	5.6
603731B	VI	47.3 <sup>w</sup>	17.2 <sup>w</sup>	12.1	3.5	28.7	51.1	4.7
603732A	V	46.5 <sup>w</sup>	17.8 <sup>w</sup>	11.5	3.3	25.7	53.4	6.1
603732B	V	47.1 <sup>w</sup>	18.0 <sup>w</sup>	11.4	3.5	20.4	57.8	6.9
603741A	V	49.2 <sup>w</sup>	16.6 <sup>w</sup>	12.2	3.0	26.1	53.0	5.7
603742C	IV	41.8	20.2	12.7	3.9	23.2	55.0	5.2
603907	V	46.2	19.1	12.2	2.8	32.7	47.9	4.3
603910C	V	47.9 <sup>w</sup>	14.3 <sup>w</sup>	10.4	2.6	30.4	50.8	5.7
603910D	V	45.5 <sup>w</sup>	14.3 <sup>w</sup>	11.4	3.5	22.3	56.0	6.8
603913D	IV	44.6	21.4	12.7	3.0	26.7	51.8	5.7
605758B	V	46.4	15.5	13.3	3.5	28.3	49.1	6.0
605758D	VII	45.8	17.7	13.2	3.9	24.6	51.2	7.1
605775	VIII	45.5	16.9	12.6	4.2	28.2	49.1	5.9
605776	V	48.0 <sup>w</sup>	14.7 <sup>w</sup>	12.3	3.9	23.8	52.7	7.2
605777	VI	46.5 <sup>w</sup>	15.2 <sup>w</sup>	12.5	3.6	26.3	50.4	7.2
605779A	VIII	47.1 <sup>w^</sup>	13.3 <sup>w^</sup>	11.1 <sup>^</sup>	3.3 <sup>^</sup>	23.8 <sup>^</sup>	55.6 <sup>^</sup>	6.2 <sup>^</sup>
605779E	VIII	44.2 <sup>w^</sup>	13.3 <sup>w^</sup>	13.0 <sup>^</sup>	2.8 <sup>^</sup>	23.3 <sup>^</sup>	53.9 <sup>^</sup>	7.0 <sup>^</sup>
605780A	IV	45.8	17.5	12.7	4.2	27.7	49.3	6.0
605780C	IV	45.9	17.8	13.7	3.5	26.6	50.5	5.6
605781A	VI	45.0	19.3	12.5	4.2	23.6	53.0	6.7
605781B	V	43.5	19.4	12.7	4.3	23.7	52.5	6.7
605786B	VI	48.3 <sup>^</sup>	16.2 <sup>^</sup>	12.6 <sup>^</sup>	3.9 <sup>^</sup>	25.1 <sup>^</sup>	52.0 <sup>^</sup>	6.4 <sup>^</sup>
605787B	VIII	44.8 <sup>^</sup>	13.3 <sup>^</sup>	11.3 <sup>^</sup>	3.7 <sup>^</sup>	23.8 <sup>^</sup>	53.1 <sup>^</sup>	8.2 <sup>^</sup>
605789A	V	48.2	16.5	12.9	3.8	25.9	51.3	6.1
605789B	V	46.2	16.9	13.0	4.0	26.8	49.9	6.3
605789C	V	47.7	16.9	13.9	3.7	25.5	51.0	5.8
605789D	V	46.4	16.6	13.8	3.7	26.0	50.3	6.2
605791A	VI	45.1	18.2	12.8	3.4	28.3	49.3	6.2
605791B	V	47.7	16.9	13.5	4.1	26.6	48.6	7.2
605792B	IV	45.4 <sup>w</sup>	17.2 <sup>w</sup>	13.3	3.5	26.9	50.4	5.9
605792D	IV	43.3	19.1	14.1	3.7	31.2	45.4	5.7
605793	VI	46.1	19.4	12.7	3.7	26.7	51.0	5.9
605799A	IV	47.2	17.3	12.6	4.0	25.1	51.7	6.7
605805A	V	47.3	16.9	12.9	3.9	29.2	48.1	6.0

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
605806B	(Dau tuong mat vang)	Tuyen quang	Vietnam	Vietnam	1998	V
605808	Dau mat cua	Tuyen quang	Vietnam	Vietnam	1998	V
605809A		Tuyen quang	Vietnam	Vietnam	1998	V
605810A		Tuyen quang	Vietnam	Vietnam	1998	V
605810B		Tuyen quang	Vietnam	Vietnam	1998	V
605810C		Tuyen quang	Vietnam	Vietnam	1998	V
605813		Ha giang	Vietnam	Vietnam	1998	V
605817A		Ha giang	Vietnam	Vietnam	1998	IV
605818B		Ha giang	Vietnam	Vietnam	1998	V
605821A		Ha giang	Vietnam	Vietnam	1998	IV
605821B		Ha giang	Vietnam	Vietnam	1998	IV
605821C		Ha giang	Vietnam	Vietnam	1998	V
605824A		Ha giang	Vietnam	Vietnam	1998	V
605824B		Ha giang	Vietnam	Vietnam	1998	IV
605825A		Ha giang	Vietnam	Vietnam	1998	IV
605825B		Ha giang	Vietnam	Vietnam	1998	IV
605825C		Ha giang	Vietnam	Vietnam	1998	IV
605826A		Ha giang	Vietnam	Vietnam	1998	IV
605826C		Ha giang	Vietnam	Vietnam	1998	IV
605826D		Ha giang	Vietnam	Vietnam	1998	IV
605826E		Ha giang	Vietnam	Vietnam	1998	V
605827A		Ha giang	Vietnam	Vietnam	1998	IV
605827B		Ha giang	Vietnam	Vietnam	1998	V
605827C		Ha giang	Vietnam	Vietnam	1998	V
605828A		Ha giang	Vietnam	Vietnam	1998	V
605828B		Ha giang	Vietnam	Vietnam	1998	IV
605828C		Ha giang	Vietnam	Vietnam	1998	V
605829		Ha giang	Vietnam	Vietnam	1998	V
605830A		Ha giang	Vietnam	Vietnam	1998	IV
605830B		Ha giang	Vietnam	Vietnam	1998	V
605831A		Ha giang	Vietnam	Vietnam	1998	V
605831B		Ha giang	Vietnam	Vietnam	1998	V
605831C		Ha giang	Vietnam	Vietnam	1998	IV
605832A		Ha giang	Vietnam	Vietnam	1998	V
605832B		Ha giang	Vietnam	Vietnam	1998	IV
605834A	Vang trang kim	Ha giang	Vietnam	Vietnam	1998	IV
605834B	(Vang trang kim)	Ha giang	Vietnam	Vietnam	1998	V
605834C	(Vang trang kim)	Ha giang	Vietnam	Vietnam	1998	IV
605835		Ha giang	Vietnam	Vietnam	1998	IV
605836		Ha giang	Vietnam	Vietnam	1998	V
605837A	Vang si man	Ha giang	Vietnam	Vietnam	1998	IV
605837B	(Vang si man)	Ha giang	Vietnam	Vietnam	1998	IV
605837C	(Vang si man)	Ha giang	Vietnam	Vietnam	1998	IV
605838	Xanh si man	Ha giang	Vietnam	Vietnam	1998	V
605839A	Xam si man	Ha giang	Vietnam	Vietnam	1998	IV
605840A		Ha giang	Vietnam	Vietnam	1998	V

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
605806B	V	D	P	T	Sa	N	Tn	I	Y	Br		2N
605808	V	D	P	T	Sa	N	Br	I	Y	Br		3N
605809A	V	D	P	G	A	N	Br	I	Y	Bf		3N
605810A	V	D	P	G	A	N	Tn	I	Y	Bf		3N
605810B	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
605810C	V	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
605813	V	D	P	G	A	N	Br	I	Y	Bf		3N
605817A	IV	D	W	G	A	N	Br	I	Y	Bf		3N
605818B	V	N	W	G	A	N	Br	I	Y	Bf		3N
605821A	IV	D	W	T	A	N	Br	I	Y	Br	Vhil	3N
605821B	IV	D	W	T	A	N	Br	D	Y	Br		2N
605821C	V	S	W	G	A	N	Br	I	Y	Y	Vhil	2N
605824A	V	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
605824B	IV	N	W	G	A	N	Br	I	Y	Y	Vhil	3N
605825A	IV	S	P	T	Sa	N	Br	I	Y	Br		3N
605825B	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605825C	IV	D	P	T	A	Ssp	Tn	I	Y	Bl		3N
605826A	IV	D	W	T	A	N	Br	I	Y	Br	Vhil	3N
605826C	IV	D	P	Lt	A	N	Br	I	Br	Rbr		2N
605826D	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605826E	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605827A	IV	D	W	T	A	N	Br	I	Y	Br		3N
605827B	V	S	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605827C	V	D	W	G	A	N	Br	I	Y	Bf		2N
605828A	V	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
605828B	IV	S	W	G	A	N	Br	I	Y	Y	Sdef, Vhil	3N
605828C	V	D	W	G	A	N	Br	I	Y	Bf		3N
605829	V	S	P	T	A	Ssp	Br	I	Gn	Bl		4N
605830A	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605830B	V	D	W	G	A	N	Br	I	Y	Y	Vhil	2N
605831A	V	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605831B	V	S	W	G	A	N	Br	I	Y	Y	Vhil	2N
605831C	IV	D	W	T	A	N	Tn	I	Y	Br		3N
605832A	V	S	W	G	A	N	Br	I	Y	Y	Vhil	2N
605832B	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605834A	IV	D	W	T	A	N	Br	I	Y	Br		2N
605834B	V	S	W	G	A	N	Br	I	Y	Y	Vhil	2N
605834C	IV	S	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605835	IV	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	2N
605836	V	D	P	T	A	N	Tn	I	Gn	Brbl	Vhil	3N
605837A	IV	D	P	T	A	N	Tn	I	Y	Br		2N
605837B	IV	D	W	G	A	N	Br	I	Y	Bf		2N
605837C	IV	D	W	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605838	V	N	P	T	A	Ssp	Br	I	Gn	Bl		3N
605839A	IV	D	P	T	Sa	N	Br	I	Gnbr	Rbr		2N
605840A	V	S	W	T	A	N	Br	I	Y	Brbl	Vhil	3N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
605806B	713	919	3.5	98	1.0	2.0	2.0	2.5	8.4	2.14
605808	711	916	4.0	96*	2.0	3.0	2.2	2.5	8.8	1.93
605809A	709	917	4.0	96	1.0	2.0	2.2	2.0	9.2	1.63
605810A	709	917	4.0	102	1.0	2.0	2.0	2.0	10.0	1.60
605810B	708	917	4.0	102*	2.5	3.5	2.8	2.0	9.4	1.74
605810C	711	917	3.0	96	2.0	3.0	2.0	3.0	7.4	1.95
605813	711	917	3.5	84*	1.0	2.0*	2.0	1.5	9.6	1.77
605817A	703	913	4.0	102*	1.0	2.5	3.0	2.0*	9.7	2.16
605818B	719	917	4.0	138*	2.0	3.0	2.5	2.5	9.8	1.63
605821A	705	912	4.0	100	1.0	2.0	2.8	2.0	8.8	2.23
605821B	629	901	3.5	98	2.0	3.5	3.0*	2.0*	12.0	1.64*
605821C	716	917	4.0	145*	2.0	3.0	2.8	1.5	10.8	1.93
605824A	717	917	4.0	135*	2.5	4.0	3.2	2.0	9.7	1.38
605824B	714	912	4.0	114*	2.0*	3.0*	3.5	2.0	10.4	1.85
605825A	702	913	4.0	98	1.5	2.5	3.0	2.5	8.7	2.15
605825B	703	911	4.0	110*	2.0	2.5	3.0	2.5	9.4	2.30*
605825C	702	830*	4.0	93	1.5	3.5	2.0	2.0	10.2	2.40
605826A	629	913	3.5	73	2.5	3.5	3.0	2.0*	10.4	1.84*
605826C	628	901	4.0	89	2.0	4.0	3.2*	--	11.4	2.12
605826D	705	911	3.5	86*	1.0	2.5	2.8	1.5	9.2	2.38*
605826E	707	916	3.0	100	2.5	3.5	2.8	2.0	8.2	1.55*
605827A	628	909	3.5	73	1.0	3.0	3.0	2.0	11.4	2.13
605827B	718	916	4.0	130*	2.5	3.5	3.0	2.0	9.2	1.41*
605827C	718	915	3.5	103*	2.0	3.0	2.2	1.5	9.2	1.95*
605828A	705	915	4.0	84*	1.5	2.5	2.8	1.5	9.0	1.89*
605828B	710	911	4.5	126*	1.0	2.5	3.2*	2.0	11.2	2.26*
605828C	721	919	4.5	125*	2.0	3.0	2.5	2.0	10.2	1.41*
605829	713	925	4.0	118*	2.0	3.5	2.8	3.5	8.8	1.23
605830A	707	913	4.0	96	2.0	2.5	2.8	1.5	8.6	1.94*
605830B	705	917	4.0	124	2.0	3.0	2.5	2.0	9.6	1.40*
605831A	707	915	4.0	98	1.0	2.0	2.8	1.5	8.8	1.95*
605831B	719	917	4.5	173*	2.5	3.5	3.0	2.0	9.2	1.52*
605831C	628	907	4.0	90	1.5	3.5	3.0	2.5	11.9	2.03*
605832A	715	916	4.0	125*	1.5	3.0	2.5	2.0	10.2	1.71*
605832B	707	913	4.0	104*	1.5	3.0	2.8	1.5	8.8	2.25
605834A	627	907	3.0	74*	2.0	3.0	3.0	2.0*	12.1	1.95*
605834B	714	917	4.0	148	2.0	3.0	2.5	2.0	10.0	1.81
605834C	706	914	3.5	110*	1.5	2.5	2.2	1.5	8.9	1.99*
605835	703	828*	4.5	102*	2.5	3.5	2.8	1.5	9.8	1.94*
605836	630	927*	4.0	156*	4.0	5.0	3.2	3.0	8.8	0.89
605837A	628	830*	3.5	107*	1.5	3.0*	3.0	2.0	11.0	2.00
605837B	628	901*	3.5	92*	1.5	2.5	2.2	1.5	9.6	2.15
605837C	701	914	3.5	97*	1.5	3.0	2.5	2.5	7.8	2.07*
605838	718	927	3.5	114*	2.0	2.5	2.8*	3.0	10.0	1.07
605839A	701	828*	3.5	104	1.0	2.5	2.0	--	8.9	2.26*
605840A	711	921	4.0	100	2.0	3.0	2.5	2.0	10.2	1.57



Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
605806B	V	47.1	14.5	13.6	4.2	24.6	50.6	7.0
605808	V	44.9	15.9	13.4	4.1	23.9	51.9	6.8
605809A	V	47.6	16.0	12.8	3.9	28.9	48.7	5.7
605810A	V	47.6	17.2	13.1	3.8	29.0	48.3	5.8
605810B	V	45.5	17.4	13.7	3.5	23.2	52.9	6.7
605810C	V	43.7	15.9	12.7	3.7	27.3	50.1	6.2
605813	V	47.9	16.4	12.5	3.6	27.4	50.5	6.0
605817A	IV	44.9	17.9	12.9	3.6	24.0	53.2	6.4
605818B	V	48.6	15.8	13.0	3.5	28.8	48.7	6.0
605821A	IV	49.8	15.7	13.0	3.4	24.2	52.6	6.8
605821B	IV	45.4	19.1	13.8	3.3	24.2	51.6	7.0
605821C	V	49.7	16.2	13.4	3.7	25.6	51.0	6.3
605824A	V	50.2	16.9	13.4	3.8	31.9	45.1	5.8
605824B	IV	48.9	16.5	13.2	4.2	24.6	51.5	6.5
605825A	IV	46.7	17.3	12.8	3.3	27.6	50.4	5.9
605825B	IV	48.3	16.6	13.2	3.5	26.3	50.7	6.2
605825C	IV	46.1	17.2	13.3	3.1	27.1	50.1	6.5
605826A	IV	44.2	18.3	12.7	3.3	25.1	52.8	6.1
605826C	IV	45.0 <sup>w</sup>	18.2 <sup>w</sup>	11.2	2.4	29.7	51.0	5.7
605826D	IV	48.5	16.3	12.8	4.0	25.8	51.2	6.3
605826E	V	47.7	16.7	12.7	3.3	23.3	54.2	6.5
605827A	IV	44.1	18.6	13.1	3.2	30.2	48.2	5.3
605827B	V	50.1	17.7	13.0	4.0	38.0	40.8	4.2
605827C	V	49.5	16.0	14.4	3.2	22.3	53.1	7.0
605828A	V	49.8	16.3	13.0	4.0	24.9	52.0	6.1
605828B	IV	47.9	16.8	13.8	3.2	25.4	51.9	5.6
605828C	V	49.7	16.3	13.4	4.2	30.8	47.1	4.6
605829	V	47.3 <sup>w</sup>	16.4 <sup>w</sup>	12.2	3.4	27.4	51.0	6.0
605830A	IV	49.6	15.7	13.1	4.0	23.7	52.6	6.6
605830B	V	50.7	15.7	14.0	3.7	21.2	54.2	6.9
605831A	V	49.2	15.8	12.9	3.5	25.2	52.1	6.4
605831B	V	49.1	16.3	14.1	3.4	22.0	53.2	7.3
605831C	IV	44.2	18.8	13.5	3.3	25.0	52.3	6.0
605832A	V	49.3	16.5	14.3	3.7	22.8	52.5	6.7
605832B	IV	48.7	16.1	13.4	4.0	25.0	51.3	6.4
605834A	IV	43.1	18.7	13.0	3.2	25.8	52.2	5.8
605834B	V	47.6	16.0	15.1	4.2	23.9	50.5	6.3
605834C	IV	50.1	15.4	13.4	3.3	26.7	50.8	5.8
605835	IV	46.3	18.6	14.5	3.4	21.2	54.5	6.4
605836	V	43.7 <sup>w</sup>	17.2 <sup>w</sup>	12.6	2.9	25.0	53.2	6.2
605837A	IV	48.2	17.3	13.7	2.8	28.3	49.3	6.0
605837B	IV	43.3	18.5	13.8	3.3	21.6	55.0	6.3
605837C	IV	45.3	16.1	13.4	3.2	24.6	52.4	6.4
605838	V	46.6 <sup>w</sup>	15.8 <sup>w</sup>	12.1	3.4	33.8	45.2	5.5
605839A	IV	40.7 <sup>w</sup>	16.2 <sup>w</sup>	11.9	3.1	26.8	51.2	7.0
605840A	V	47.2	17.4	13.4	3.5	28.6	49.3	5.3

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
605840B		Ha giang	Vietnam	Vietnam	1998	IV
605840C		Ha giang	Vietnam	Vietnam	1998	IV
605840D		Ha giang	Vietnam	Vietnam	1998	IV
605840E		Ha giang	Vietnam	Vietnam	1998	IV
605841A	Dau si man	Ha giang	Vietnam	Vietnam	1998	IV
605842A		Ha giang	Vietnam	Vietnam	1998	IV
605842C		Ha giang	Vietnam	Vietnam	1998	IV
605844C		Ha giang	Vietnam	Vietnam	1998	V
605844F		Ha giang	Vietnam	Vietnam	1998	IV
605845C		Ha giang	Vietnam	Vietnam	1998	V
605846C		Ha giang	Vietnam	Vietnam	1998	IV
605846E		Ha giang	Vietnam	Vietnam	1998	IV
605846F		Ha giang	Vietnam	Vietnam	1998	IV
605848		Ha giang	Vietnam	Vietnam	1998	V
605850A		Tuyen quang	Vietnam	Vietnam	1998	V
605850B		Tuyen quang	Vietnam	Vietnam	1998	V
605853A	Do trui	Tuyen quang	Vietnam	Vietnam	1998	V
605853B	(Do trui)	Tuyen quang	Vietnam	Vietnam	1998	V
605854A		Tuyen quang	Vietnam	Vietnam	1998	V
605856		Lao cai	Vietnam	Vietnam	1998	V
605858		Lao cai	Vietnam	Vietnam	1998	V
605859A		Lao cai	Vietnam	Vietnam	1998	V
605859B		Lao cai	Vietnam	Vietnam	1998	V
605860		Lao cai	Vietnam	Vietnam	1998	V
605862B	(V 74)	Hai hung	Vietnam	Vietnam	1998	VI
605863A		Lao cai	Vietnam	Vietnam	1998	V
605863B		Lao cai	Vietnam	Vietnam	1998	V
605865A		Lao cai	Vietnam	Vietnam	1998	V
605866		Lao cai	Vietnam	Vietnam	1998	IV
605867		Lao cai	Vietnam	Vietnam	1998	V
605869A		Lao cai	Vietnam	Vietnam	1998	V
605869B		Lao cai	Vietnam	Vietnam	1998	V
605871A	Vang muong khong	Lao cai	Vietnam	Vietnam	1998	IV
605872		Lao cai	Vietnam	Vietnam	1998	IV
605873	Dau ngo	Lao cai	Vietnam	Vietnam	1998	IV
605875		Lao cai	Vietnam	Vietnam	1998	V
605876A		Lao cai	Vietnam	Vietnam	1998	V
605876D		Lao cai	Vietnam	Vietnam	1998	IV
605876E		Lao cai	Vietnam	Vietnam	1998	IV
605877A		Lao cai	Vietnam	Vietnam	1998	V
605877B		Lao cai	Vietnam	Vietnam	1998	V
605877D		Lao cai	Vietnam	Vietnam	1998	IV
605879	Dau lu	Lao cai	Vietnam	Vietnam	1998	V
605880	T 72	Lao cai	Vietnam	Vietnam	1998	V
605882A	Dau bon thang	Lao cai	Vietnam	Vietnam	1998	V
605882B	(Dau bon thang)	Lao cai	Vietnam	Vietnam	1998	IV

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
605840B	IV	D	W	G	A	N	Br	I	Y	Bf		3N
605840C	IV	D	P	T	A	N	Br	I	Gn	Brbl	Vhil	2N
605840D	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
605840E	IV	D	P	G	A	N	Br	I	Y	Bf		3N
605841A	IV	D	P	T	A	N	Tn	I	Y	Br		3N
605842A	IV	D	W	G	A	N	Br	I	Y	Bf		3N
605842C	IV	S	W	T	A	N	Br	I	Y	Bl		2N
605844C	V	D	P	T	A	N	Tn	I	Y	Br		3N
605844F	IV	D	P	T	A	Ssp	Br	D	Y	Brbl	Vhil	2N
605845C	V	D	P	T	A	N	Br	I	Y	Dbr		3N
605846C	IV	D	W	T	A	Ssp	Br	I	Y	Br		2N
605846E	IV	D	P	T	A	N	Br	I	Y	Br		3N
605846F	IV	D	P	T	A	N	Br	I	Y	Br		2N
605848	V	D	P	T	A	N	Tn	I	Y	Br		3N
605850A	V	D	P	G	A	N	Br	I	Y	Bf		3N
605850B	V	D	P	T	A	Ssp	Br	S	Y	Br		2N
605853A	V	D	P	G	A	N	Br	I	Y	Bf		3N
605853B	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605854A	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605856	V	D	P	G	A	N	Br	I	Y	Bf		3N
605858	V	D	P	G	A	N	Br	I	Y	Bf		2N
605859A	V	D	P	G	A	N	Br	I	Y	Bf		3N
605859B	V	D	P	T	A	N	Br	I	Y	Br		3N
605860	V	D	P	G	A	N	Br	I	Y	Bf		3N
605862B	VI	D	P	G	A	Ssp	Tn	D	Y	Bf		3N
605863A	V	D	P	G	A	N	Tn	I	Y	Bf		2N
605863B	V	S	P	T	A	N	Br	I	Y	Br		3N
605865A	V	D	P	G	A	N	Tn	I	Y	Bf		2N
605866	IV	D	W	G	A	N	Br	I	Y	Bf		2N
605867	V	S	P	G	A	N	Tn	I	Y	Bf		3N
605869A	V	N	P	T	A	N	Tn	I	Gn	Bl		3N
605869B	V	D	P	G	A	N	Bl	I	Gn	Bf		3N
605871A	IV	D	W	G	A	N	Br	I	Y	Bf		2N
605872	IV	D	P	T	A	Ssp	Br	D	Y	Br		3N
605873	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
605875	V	D	P	T	A	N	Tn	I	Y	Br		3N
605876A	V	D	P	T	A	Ssp	Br	Lb	Br	Rbr		3N
605876D	IV	D	W	T	A	N	Tn	B	Bl	Bl		3N
605876E	IV	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
605877A	V	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605877B	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605877D	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
605879	V	D	P	G	A	N	Tn	I	Y	Bf		3N
605880	V	D	P	G	A	N	Tn	I	Y	Bf		3N
605882A	V	D	P	G	A	N	Tn	I	Y	Bf		2N
605882B	IV	N	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Shattering		Seed		Weight (cg sd <sup>-1</sup> )	Yield (Mg ha <sup>-1</sup> )
	date (mmdd)	date (mmdd)			early (score)	late (score)	Quality (score)	Mottling (score)		
605840B	630	913	4.0	95	1.5	2.5	3.0	2.0*	10.8	2.09
605840C	701	902	4.0	100	2.5	4.0	2.5	3.0	9.0	2.05
605840D	701	911	4.0	87	2.0*	3.0	2.8	1.5	13.2	1.88
605840E	705	909	3.5	91*	1.0	3.5	2.8	2.0*	8.7	1.58
605841A	710	911	4.5	130*	1.5	2.5	2.5	2.5	9.7	1.79*
605842A	710	830*	3.5	88	1.5	3.5	2.8*	4.0*	6.9	1.14
605842C	711	914	4.0	106*	2.0	3.0	3.0	2.5	8.0	1.98
605844C	705	929	3.5	133*	1.0	2.5	3.0	1.5	15.7	2.64
605844F	701	912	3.0	90*	1.5	3.0	3.2	1.5	8.6	1.86
605845C	705	1005	3.5	96	2.0	3.0	3.0	2.5	8.8	1.42
605846C	628	907	3.5	71*	2.0*	3.0	2.8*	2.5	11.6	1.87
605846E	628	907	3.5	80*	2.0	3.5	3.0	2.0*	10.4	1.50
605846F	701	914	3.0	86*	1.5	2.5	2.8	2.0*	8.0	2.22*
605848	703	926	3.5	105*	2.0	3.0	2.8	1.0	15.6	2.24
605850A	710	917	4.0	98*	1.0	2.0*	2.2	2.0	9.0	1.60
605850B	712	917	3.0	99*	1.0	2.0	2.2	3.0	6.9	1.64
605853A	711	918	4.0	98*	1.0	3.0	2.2	2.0	8.5	1.53
605853B	707	917	4.0	104*	1.5	2.5	2.8	2.0	8.4	1.88
605854A	707	917	4.0	99*	2.5	4.0*	2.8*	3.0	8.1	1.55
605856	711	917	4.5	100	2.0	2.5	2.5	1.5	8.4	1.01
605858	711	919	3.5	96	1.0	3.0	2.2	2.0	8.3	1.92
605859A	712	917	4.0	140*	1.5	2.5	2.0	2.0	8.4	1.46
605859B	707	917	4.0	92	2.0	3.0	3.0	3.5	8.4	1.40
605860	711	916	4.0	94*	1.0	2.5	2.5	2.0	8.8	1.55
605862B	717	1007	3.0	117*	2.0	3.0	3.2*	1.5	10.8	1.46
605863A	714	917	3.5	85*	2.0	3.0*	2.2	1.5	8.4	1.60
605863B	715	924	4.0	130*	1.0	3.0	2.8*	3.0	8.9	1.27
605865A	711	915	4.0	114*	1.0	2.5	2.2	1.5	8.2	1.81
605866	703	911	4.0	104	1.0	2.0	2.8	2.0*	10.9	2.04*
605867	712	919	4.0	105	1.0	3.0	2.5	2.0	9.1	1.29
605869A	718	1005	3.5	182*	2.0	2.5	3.2	2.5	6.8	0.79
605869B	715	926	3.5	106	1.5	4.5	3.0	2.5	8.4	1.04
605871A	703	905*	3.5	103*	1.5	2.5	2.8*	2.5*	11.0	2.23
605872	703	914	4.0	98	2.0	3.0	3.0	3.0	14.4	2.37*
605873	705	909	4.0	102*	1.0	2.5	2.8	2.0*	11.1	2.15
605875	707	927	3.5	112*	1.0	3.0	3.2	2.0	16.4	2.33
605876A	707	919	4.0	100*	2.0	3.0	2.5	--	13.2	1.64
605876D	706	911	4.0	102*	1.5	3.0	3.0	--	9.0	1.66
605876E	705	911	4.5	113*	1.0	2.0	2.8	--	11.0	1.52
605877A	712	1003	3.0	112*	2.0	3.5	3.0	2.5	9.2	1.48
605877B	705	921	3.5	96*	3.0	4.0	2.8	3.0	13.4	1.19
605877D	702	908	4.0	95*	1.0	2.0	2.8	2.0*	10.6	2.14
605879	708	915	4.0	112	1.0	2.0	2.0	2.5	8.8	1.63
605880	709	915	4.0	88*	1.0	1.5	2.2	1.5	8.8	1.93
605882A	713	1001	3.5	126*	1.0	3.0	2.2	2.0	7.8	1.52
605882B	628	909	4.0	97	1.0	3.0	2.5	1.5	11.1	1.79

Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
605840B	IV	45.1	18.4	13.7	3.8	26.1	50.8	5.5
605840C	IV	43.4 <sup>w</sup>	17.8 <sup>w</sup>	12.3	2.7	28.8	50.2	6.0
605840D	IV	46.1	17.6	13.4	3.4	24.2	52.6	6.4
605840E	IV	46.6	19.6	13.5	4.5	21.6	54.5	6.0
605841A	IV	44.4	17.3	13.2	3.2	27.8	50.1	5.8
605842A	IV	47.3 <sup>w</sup>	16.2 <sup>w</sup>	13.0	3.1	22.8	54.3	6.8
605842C	IV	44.7 <sup>w</sup>	16.5 <sup>w</sup>	13.8	3.0	22.0	53.8	7.4
605844C	V	46.9	16.6	13.9	2.9	30.0	46.7	6.5
605844F	IV	47.7	16.9	13.0	3.8	20.8	55.3	7.2
605845C	V	44.7	16.3	13.1	2.8	29.7	48.6	5.8
605846C	IV	46.4	17.7	13.4	3.2	24.3	53.1	6.0
605846E	IV	46.5	19.0	13.7	3.7	21.1	54.9	6.6
605846F	IV	47.8	14.7	13.4	3.5	17.7	57.5	7.9
605848	V	46.6	17.2	13.7	2.9	28.5	47.9	7.1
605850A	V	48.4	16.2	12.5	4.5	27.6	49.7	5.8
605850B	V	43.4	15.0	12.6	4.5	25.4	51.0	6.5
605853A	V	46.4	16.8	12.9	3.9	24.7	52.0	6.5
605853B	V	46.6	16.1	13.5	3.3	24.1	52.4	6.7
605854A	V	45.4	17.1	13.8	3.2	27.9	49.4	5.6
605856	V	47.2	16.8	14.2	3.4	30.5	46.9	4.9
605858	V	45.8	17.5	12.3	3.5	27.9	50.5	5.8
605859A	V	47.0	17.0	12.7	3.4	29.4	48.8	5.6
605859B	V	46.4 <sup>w</sup>	14.8 <sup>w</sup>	13.6	3.3	26.6	50.3	6.1
605860	V	48.2	16.8	12.6	4.1	26.1	50.9	6.3
605862B	VI	48.3	15.7	14.4	3.8	26.1	49.6	6.1
605863A	V	46.9	16.5	13.3	4.0	31.8	45.8	5.0
605863B	V	47.9	16.2	12.7	3.7	31.5	46.5	5.6
605865A	V	46.9	17.1	15.7	5.0	30.4	44.2	4.7
605866	IV	45.7	18.8	15.0	4.6	25.5	49.8	5.1
605867	V	48.3	15.9	12.6	4.6	28.0	49.4	5.4
605869A	V	49.3 <sup>w</sup>	12.3 <sup>w</sup>	13.2	3.2	22.1	54.6	6.9
605869B	V	45.9 <sup>w</sup>	17.2 <sup>w</sup>	12.6	3.8	27.2	49.7	6.6
605871A	IV	46.1 <sup>w</sup>	18.2 <sup>w</sup>	12.0	4.0	26.5	51.9	5.6
605872	IV	45.8	19.0	13.2	3.3	32.9	45.8	4.8
605873	IV	45.6	18.3	13.8	3.9	22.8	53.8	5.8
605875	V	45.1	18.3	14.1	3.6	34.1	42.8	5.5
605876A	V	43.5 <sup>w</sup>	18.0 <sup>w</sup>	12.2	2.9	26.5	52.1	6.4
605876D	IV	45.5 <sup>w</sup>	16.8 <sup>w</sup>	10.8	4.3	28.5	50.3	6.2
605876E	IV	45.9 <sup>w</sup>	16.9 <sup>w</sup>	11.6	3.7	25.9	53.0	5.8
605877A	V	53.2	14.3	15.0	4.4	20.9	53.1	6.7
605877B	V	46.9	18.4	13.0	3.9	36.3	42.3	4.6
605877D	IV	47.0	17.8	14.6	4.3	22.6	52.8	5.8
605879	V	48.1	16.8	12.6	4.7	31.7	46.0	5.0
605880	V	48.6	16.8	12.6	4.6	27.1	50.2	5.5
605882A	V	48.8	16.3	13.9	4.2	27.6	49.2	5.1
605882B	IV	51.3	15.2	13.2	4.5	24.5	52.3	5.5

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
605884B		Lao cai	Vietnam	Vietnam	1998	IV
605884C		Lao cai	Vietnam	Vietnam	1998	IV
605884D		Lao cai	Vietnam	Vietnam	1998	IV
605884E		Lao cai	Vietnam	Vietnam	1998	V
605885A		Lao cai	Vietnam	Vietnam	1998	V
605885B		Lao cai	Vietnam	Vietnam	1998	V
605885C		Lao cai	Vietnam	Vietnam	1998	IV
605886A		Lao cai	Vietnam	Vietnam	1998	V
605886B		Lao cai	Vietnam	Vietnam	1998	IV
605886C		Lao cai	Vietnam	Vietnam	1998	IV
605886D		Lao cai	Vietnam	Vietnam	1998	V
605887A		Lao cai	Vietnam	Vietnam	1998	V
605890A		Son la	Vietnam	Vietnam	1998	IV
605891D		Son la	Vietnam	Vietnam	1998	V
605896B		Son la	Vietnam	Vietnam	1998	IV
605896C		Son la	Vietnam	Vietnam	1998	V
605897A		Son la	Vietnam	Vietnam	1998	V
605897C		Son la	Vietnam	Vietnam	1998	V
605901		Hoa binh	Vietnam	Vietnam	1998	V
605909A	Dian feng No. 1	Heilongjiang	China	China	1998	V
605909B	(Dian feng No. 1)	Heilongjiang	China	China	1998	V
606364	Azumpa	(north)	Vietnam	Vietnam	1998	V
606369A	Cao bang 2	(north)	Vietnam	Vietnam	1998	V
606370	Cao bang 4	(north)	Vietnam	Vietnam	1998	VI
606372	Cao bang 6	(north)	Vietnam	Vietnam	1998	V
606377	Chum gar	(north)	Vietnam	Vietnam	1998	VI
606382A	Cuc mat den	(north)	Vietnam	Vietnam	1998	IV
606382B	(Cuc mat den)	(north)	Vietnam	Vietnam	1998	IV
606387	Den bac ha	(north)	Vietnam	Vietnam	1998	V
606390A	Dong ha	(north)	Vietnam	Vietnam	1998	IV
606390B	(Dong ha)	(north)	Vietnam	Vietnam	1998	VIII
606391	DT 84	(north)	Vietnam	Vietnam	1998	V
606396	Hat den 2	(north)	Vietnam	Vietnam	1998	V
606403	Luong son 2	(north)	Vietnam	Vietnam	1998	V
606408	Nam vang	(north)	Vietnam	Vietnam	1998	V
606410	Ngoc dong	(north)	Vietnam	Vietnam	1998	V
606412	Ninh tap	(north)	Vietnam	Vietnam	1998	V
606418A	Quang uyen	(north)	Vietnam	Vietnam	1998	VI
606418B	(Quang uyen)	(north)	Vietnam	Vietnam	1998	V
606420	Son la	(north)	Vietnam	Vietnam	1998	IV
606426	Thanh oai	(north)	Vietnam	Vietnam	1998	VI
606428	Tien yen ron den	(north)	Vietnam	Vietnam	1998	VI
606435	Vang chi thao B	(north)	Vietnam	Vietnam	1998	IV
606438A	Vang phu nhung	(north)	Vietnam	Vietnam	1998	IV
612609	Melrose	Queensland	Australia	Australia	1998	V
612613	Yang dok	unknown	North Korea	North Korea	1998	V

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
605884B	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
605884C	IV	D	W	T	A	N	Tn	I	Y	Br		2N
605884D	IV	D	P	T	A	N	Tn	I	Y	Br		3N
605884E	V	D	W	G	A	N	Tn	I	Y	Bf		2N
605885A	V	D	W	G	A	N	Tn	I	Y	Bf	Vhil	2N
605885B	V	D	W	T	A	N	Br	I	Y	Bl	Vhil	3N
605885C	IV	D	P	T	A	N	Tn	I	Y	Br		3N
605886A	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605886B	IV	D	W	T	A	N	Tn	I	Y	Br		2N
605886C	IV	D	W	T	A	N	Br	I	Y	Br		2N
605886D	V	D	W	G	A	N	Br	I	Y	Bf		2N
605887A	V	D	P	T	A	N	Tn	D	Y	Br		3N
605890A	IV	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
605891D	V	D	P	T	A	N	Tn	I	Y	Br		2N
605896B	IV	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	2N
605896C	V	D	W	T	A	Ssp	Br	I	Y	Br		2N
605897A	V	D	P	T	A	N	Tn	I	Y	Br		3N
605897C	V	D	P	T	A	N	Tn	I	Y	Br		3N
605901	V	D	P	T	A	N	Tn	I	Y	Br		3N
605909A	V	D	W	T	E	N	Br	S	Y	Br	Na	2N
605909B	V	D	W	T	E	Ssp	Br	S	Y	Br	Na	2N
606364	V	N	P	T	Sa	Ssp	Tn	D	Y	Br		2N
606369A	V	N	W	T	Sa	Ssp	Tn	I	Bl	Bl		3N
606370	VI	D	W	T	A	N	Bl	I	Bl	Bl	Flk	3N
606372	V	D	W	T	Sa	Ssp	Br	I	Bl	Bl		2N
606377	VI	D	P	T	A	N	Tn	I	Y	Br		3N
606382A	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
606382B	IV	D	W	T	A	N	Tn	I	Y	Br	Vhil	3N
606387	V	N	W	T	A	Ssp	Bl	I	Bl	Bl		2N
606390A	IV	D	W	T	A	N	Tn	I	Y	Br		3N
606390B	VIII	S	P	T	A	N	Tn	I	Y	Br		3N
606391	V	D	P	T	A	N	Tn	I	Y	Br		3N
606396	V	D	W	T	A	N	Bl	I	Bl	Bl		2N
606403	V	D	P	T	A	N	Tn	I	Y	Br		3N
606408	V	D	P	T	A	Sp	Tn	D	Y	Br		2N
606410	V	D	W	T	A	Ssp	Br	I	Bl	Bl		2N
606412	V	N	P	T	Sa	N	Tn	I	Y	Br		3N
606418A	VI	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
606418B	V	D	P	T	E	N	Br	I	Y	Br		2N
606420	IV	D	W	T	A	N	Tn	I	Y	Bl	Vhil	3N
606426	VI	D	W	T	A	N	Br	I	Bl	Bl		3N
606428	VI	D	W	T	A	Ssp	Br	I	Bl	Bl		3N
606435	IV	N	W	T	A	N	Tn	I	Y	Br		3N
606438A	IV	D	P	T	E	N	Tn	I	Y	Bl		2N
612609	V	D	W	G	E	N	Br	I	Y	Bf		2N
612613	V	D	W	T	E	Ssp	Br	I	Y	Tn		2N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
605884B	703	903	4.0	96	1.5	3.0	2.8*	2.0*	10.8	2.09*
605884C	703	913	4.0	114*	2.0*	3.5	3.0	2.5	9.9	1.52
605884D	701	913	4.0	82	1.5	3.0	2.5	1.5	9.6	1.55
605884E	705	915	4.0	118*	2.5	3.5	2.8	2.0	8.8	1.78*
605885A	711	917	3.5	90*	1.0	1.5	2.2	1.5	7.4	2.01*
605885B	711	1001	3.5	66*	2.0	3.0	3.2	3.5	9.8	1.36*
605885C	701	909	3.0	75	1.0	3.0	2.8*	1.5	10.1	1.71
605886A	707	925	4.0	118*	1.5	2.5	3.0	3.0	13.2	1.69
605886B	701	911	3.5	82*	1.0	2.5	2.8*	2.0	9.8	1.96
605886C	703	914	3.5	107*	1.5	3.0	2.8*	2.5	8.1	2.07*
605886D	701	917	4.0	85*	2.0	2.5	2.5	2.0	11.1	1.87*
605887A	701	919	3.5	110	3.0	4.0	3.2	2.5	13.2	1.53*
605890A	701	826*	3.5	130*	1.5	3.0*	2.5	1.0	13.4	2.07*
605891D	709	918	3.5	86*	1.0	2.0	2.5	3.0	8.2	1.85
605896B	701	913	3.0	88	2.0	2.5	2.8*	1.5	10.2	2.01*
605896C	703	915	3.5	80*	1.5	3.0	2.8	2.5	8.0	1.87*
605897A	703	925	3.5	107*	2.0	3.0	3.0	1.0	15.9	2.48*
605897C	705	927	3.0*	110*	2.0	3.0	3.0	1.5	15.2	2.18
605901	705	925	3.0*	94	2.0	3.0	3.2	1.5	16.2	2.42
605909A	703	924	2.5	60	2.5	3.5	3.0	2.5	13.0	1.72
605909B	703	929	3.0	84	1.5	3.0	2.8	1.5	13.6	1.93
606364	711	915	3.5	108	1.5	2.5	3.0	2.0	8.8	1.58*
606369A	701	930	3.5	98*	2.0	3.0	2.8	--	12.0	1.42
606370	705	1006	3.5	75	1.5	2.0*	2.8	--	8.9	1.65
606372	705	927	3.5	92	2.0	3.0	2.8	--	12.1	1.70
606377	707	1007	4.0*	122*	2.0	3.0	3.0	1.5	12.6	1.78
606382A	713	908	4.0	101	2.0	3.5	2.8*	2.0	11.6	1.61
606382B	709	908	4.0	116*	2.0	3.0	2.5	1.0	13.8	2.58*
606387	701	918	3.5	142	2.0	3.0	2.8	--	12.2	1.61*
606390A	703	908	3.5	91	2.0	3.0	2.8	1.0	16.7	2.85*
606390B	804	1029*	4.0	138	1.0	1.5	4.0	2.5	11.8*	0.78*
606391	719	1003	4.5	100*	1.5	2.5	3.2	2.5	11.6	1.03
606396	705	1005	3.5	74	2.0	3.0	2.8	--	8.0	1.61
606403	706	924	3.0	105*	1.5	3.0	3.0	1.0	16.4	2.21
606408	707	919	4.0	117*	2.0	4.0	2.5	2.0	8.4	1.83*
606410	703	1005	3.5	70	1.0	3.0*	3.0	--	8.0	1.74
606412	729	921	4.5	145*	1.0	3.0	3.5	4.0	5.6	0.31
606418A	802	1016*	3.0*	118*	1.0	2.5	3.5	2.0	10.3	1.21
606418B	705	916	4.0	96	1.5	2.5	3.0	3.0	7.9	1.66
606420	713	908	4.0	93	2.5	3.5	3.0	2.0	11.3	1.30
606426	707	1007	3.5	70	1.0	2.5	2.8	--	8.4	1.51
606428	705	1007	3.5	67	1.0	2.5	2.8	--	8.5	1.73
606435	707	909	4.0	107*	1.5	3.0	2.8	1.5	15.4	2.42*
606438A	710	911	3.5	92*	2.5	3.5	2.5	1.5	8.5	2.06
612609	703	918	3.0*	106*	1.0	1.0	2.8	1.0	13.8	3.33
612613	622	921	1.0	30	1.0	1.0	3.8	3.0	21.4*	1.13*



Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
605884B	IV	45.5	18.7	13.9	4.4	23.0	53.1	5.6
605884C	IV	48.2	17.5	13.0	4.4	24.9	51.4	6.3
605884D	IV	47.5	17.5	12.3	4.1	24.8	53.1	5.7
605884E	V	46.2	17.6	13.0	4.1	25.3	51.8	5.8
605885A	V	46.4	15.9	13.3	3.6	22.9	53.0	7.2
605885B	V	46.8 <sup>w</sup>	16.3 <sup>w</sup>	12.6	3.1	25.1	53.1	6.1
605885C	IV	50.9	14.9	13.1	3.4	25.3	52.4	5.8
605886A	V	47.7	16.7	14.5	3.1	31.2	45.8	5.4
605886B	IV	43.1	17.6	13.0	3.7	21.6	55.0	6.7
605886C	IV	42.2	18.5	13.7	4.0	21.9	53.4	7.0
605886D	V	45.1	19.4	14.5	3.6	24.2	51.8	5.8
605887A	V	46.5	18.5	13.4	3.4	28.1	50.0	5.2
605890A	IV	43.6	18.3	14.5	2.9	28.0	47.3	7.2
605891D	V	44.0	17.5	13.3	3.9	28.0	49.5	5.4
605896B	IV	45.4	19.0	12.2	3.3	32.1	47.3	5.0
605896C	V	45.8	16.6	13.6	4.3	24.4	51.8	5.9
605897A	V	45.7	17.2	13.0	3.2	30.1	47.3	6.4
605897C	V	46.3	17.0	13.2	3.3	27.6	48.7	7.2
605901	V	45.1	17.5	12.6	2.8	32.7	45.7	6.2
605909A	V	46.5	18.6	13.6	3.8	20.6	55.9	6.2
605909B	V	47.5	18.4	14.6	4.0	21.2	54.3	5.9
606364	V	51.4	16.1	14.7	4.0	30.8	44.1	6.4
606369A	V	46.1 <sup>w</sup>	16.0 <sup>w</sup>	11.3	3.4	21.4	57.3	6.6
606370	VI	43.8 <sup>w</sup>	16.1 <sup>w</sup>	10.8	3.7	22.2	56.6	6.7
606372	V	48.2 <sup>w</sup>	15.2 <sup>w</sup>	11.1	3.2	24.9	54.5	6.3
606377	VI	46.1	17.6	14.7	3.3	24.9	49.9	7.2
606382A	IV	46.0	18.2	14.1	3.0	36.0	41.0	5.9
606382B	IV	46.6	17.4	13.2	2.8	31.2	46.6	6.1
606387	V	47.6 <sup>w</sup>	14.6 <sup>w</sup>	11.3	3.2	23.5	55.4	6.5
606390A	IV	43.7	17.9	13.8	3.4	26.1	50.5	6.1
606390B	VIII	46.3 <sup>w</sup>	14.5 <sup>w</sup>	13.5	3.6	33.6	43.0	6.4
606391	V	49.8	15.5	14.1	4.0	32.3	44.3	5.3
606396	V	44.1 <sup>w</sup>	15.9 <sup>w</sup>	11.4	3.3	21.9	57.1	6.3
606403	V	46.8	16.9	12.7	3.1	33.5	44.5	6.2
606408	V	51.4	14.8	13.5	3.7	29.1	46.6	7.0
606410	V	44.4 <sup>w</sup>	16.8 <sup>w</sup>	11.4	3.2	21.2	58.0	6.2
606412	V	44.0 <sup>w</sup>	14.5 <sup>w</sup>	13.9	4.1	23.7	51.1	7.2
606418A	VI	47.8 <sup>w</sup>	15.6 <sup>w</sup>	13.3	3.3	27.5	49.1	6.8
606418B	V	46.5	17.2	12.9	3.0	36.0	43.4	4.7
606420	IV	46.7	18.1	13.2	2.7	31.9	45.5	6.7
606426	VI	44.2 <sup>w</sup>	17.0 <sup>w</sup>	11.2	3.3	23.0	56.5	6.0
606428	VI	44.2 <sup>w</sup>	17.5 <sup>w</sup>	11.3	3.3	22.1	57.0	6.2
606435	IV	46.6	17.5	13.8	2.6	29.1	48.5	6.1
606438A	IV	47.2	18.9	13.9	2.8	30.5	45.8	7.0
612609	V	44.3	20.4	10.9	3.9	35.6	44.9	4.7
612613	V	45.8 <sup>w</sup>	18.8 <sup>w</sup>	12.7	2.9	23.5	55.4	5.5

Table 1.5 Identification and origin information for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
612614	Gumgang	unknown	North Korea	North Korea	1998	IV

Table 2.5. Descriptive data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
612614	IV	D	P	G	E	Ssp	Br	I	Y	Bf		4N

Table 3.5 Agronomic data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date (mmdd)	date (mmdd)			early (score)	late (score)	Quality (score)	Mottling (score)	Weight (cg sd <sup>-1</sup> )	Yield (Mg ha <sup>-1</sup> )
612614	628	910	2.0	58	1.0	1.0	3.8	3.0	20.4	2.08

Table 4.5. Seed composition data for USDA soybean germplasm in maturity group V, PI 597469 to PI 612614 plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2002.

Entry	Maturity group	<u>Seed composition</u>		<u>Oil composition</u>				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
612614	IV	43.9	20.4	12.9	2.9	34.6	44.9	4.7

Table 1.6 Identification and origin information for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
	Bedford	Tennessee	United States	United States	1977	V
	Benning	Georgia	United States	United States	1996	VII
	Boggs	Georgia	United States	United States	1998	VI
	Celest	Delaware	United States	United States	1977	V
	Cook	Georgia	United States	United States	1991	VIII
	Crockett	Texas	United States	United States	1988	VIII
	Derry	Maryland	United States	United States	1998	VI
	Dillon	South Carolina	United States	United States	1994	VI
	Fowler	Mississippi	United States	United States	2000	V
	Haskell	Georgia	United States	United States	1993	VII
	Hutcheson	Virginia	United States	United States	1987	V
	Kuell	Alabama	United States	United States	1999	VIII
	Motte	South Carolina	United States	United States	1998	VIII
	Musen	South Carolina	United States	United States	1997	VI
	N7001	North Carolina	United States	United States	2001	VII
	N7103	North Carolina	United States	United States	2001	VII
	Nanda	Hwanghae Puk	North Korea	North Korea	1936	VIII
	NC-Roy	North Carolina	United States	United States	2001	VI
	Prichard	Georgia	United States	United States	2000	VIII
	Santee	South Carolina	United States	United States	2001	VII
	Stonewall	Alabama	United States	United States	1988	VII
	Tyrone	Maryland	United States	United States	1998	VII
	Young	North Carolina	United States	United States	1984	VI
378693A		Miyagi	Japan	Japan	1973	VIII
407941A		Cholla Puk	South Korea	South Korea	1976	V
407941B		Cholla Puk	South Korea	South Korea	1976	VI
497966		Kashmir	India	India	1985	VI
506633	Chousen oi yarukon	Kyushu	Japan	Japan	1986	VIII
587628	Hai men xi feng qing jia	Jiangsu	China	China	1994	VII
587896	Qi yue dou	Zhejiang	China	China	1994	VI
587949	Ning hua yuan dou	Fujian	China	China	1994	VIII
588048	Dong xing hei dou	Guangdong	China	China	1994	VIII
594009	Daema daedu	unknown	South Korea	South Korea	1996	VI
594015	Labdudu	unknown	South Korea	South Korea	1996	VI
594536	Sha xian huang pi xiao dou	Fujian	China	China	1996	VIII
594751D	(Long zhou dong feng dou)	Guangxi	China	China	1996	VIII
594766	Tian hei dou	Guangxi	China	China	1996	VIII
594786A	Xiao huang dou	Yunnan	China	China	1996	VIII
594789A	Za huang dou	Yunnan	China	China	1996	VIII
594789B	(Za huang dou)	Yunnan	China	China	1996	VIII
594811	Huang dou	Yunnan	China	China	1996	VII
594841A	Xiao bai mao dou	Yunnan	China	China	1996	VII
594855	Song zi dou	Yunnan	China	China	1996	VIII
594865	Er bai dou	Yunnan	China	China	1996	VIII
594885C	(Song zi dou)	Yunnan	China	China	1996	VII
597465	Mao peng qing	Zhejiang	China	China	1997	VII

Table 2.6. Descriptive data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
Bedford	V	D	W	T	Sa	N	Tn	I	Y	Bl		3N
Benning	VII	D	P	T	A	N	Tn	I	Y	Br		2N
Boggs	VI	D	W	T	E	N	Tn	S	Y	Bl		2N
Celest	V	D	P	G	Sa	Dn	Tn	I	Y	G	Vhil	2N
Cook	VIII	D	P	T	A	N	Tn	I	Y	Bl		2N
Crockett	VIII	D	P	T	Sa	N	Tn	D	Y	Br		2N
Derry	VI	N	W	T	E	N	Tn	I	Y	Bl		3N
Dillon	VI	D	P	G	A	N	Tn	I	Y	Bf		2N
Fowler	V	D	W	T	E	N	Tn	I	Y	Bl		4N
Haskell	VII	D	P	T	E	N	Tn	I	Y	Bl		2N
Hutcheson	V	D	W	G	Sa	N	Tn	D	Y	Bf		1N
Kuell	VIII	D	P	G	A	N	Br	D	Y	Bf		2N
Motte	VIII	D	P	T	E	N	Tn	D	Y	Bl		2N
Musen	VI	D	W	G	Sa	N	Tn	I	Y	Bf		3N
N7001	VII	D	P	G	E	N	Br	D	Y	Ib		2N
N7103	VII	D	W	G	E	N	Br	I	Y	Y	Na	1N
Nanda	VIII	N	P	G	E	N	Tn	I	Y	Bf		2N
NC-Roy	VI	D	W	G	E	N	Br	I	Y	Bf		3N
Prichard	VIII	D	W	G	A	N	Tn	I	Y	Bf		2N
Santee	VII	D	W	G	A	N	Br	D	Y	Bf		2N
Stonewall	VII	D	W	T	E	N	Tn	D	Y	Bl		2N
Tyrone	VII	N	W	G	E	N	Br	I	Y	Bf		2N
Young	VI	D	W	G	E	N	Tn	I	Y	Bf		3N
378693A	VIII	N	P	T	A	N	Bl	B	Bl	Bl	Sw	4N
407941A	V	D	P	G	E	Ssp	Br	I	Gn	Gn	Def, Gnc	3N
407941B	VI	D	P	G	A	Ssp	Lbr	D	Gn	Gn	Gnc	2N
497966	VI	N	P	T	E	N	Br	I	Y	Brbl	Vhil	4N
506633	VIII	D	P	T	A	N	Tn	I	Y	Br		3N
587628	VII	N	W	Ng	A	N	Br	I	Ggn	Bl		4N
587896	VI	D	P	T	A	Ssp	Br	I	Gn	Bl	Vhil	3N
587949	VIII	N	P	G	E	N	Br	I	Gn	Bf	Vsc	3N
588048	VIII	N	P	T	A	N	Bl	Lb	Bl	Bl	Sdef	4F
594009	VI	D	P	G	E	Ssp	Br	S	Gn	Gn	Gnc, Vhil	2N
594015	VI	D	P	G	E	N	Br	I	Lgn	Bf	Vhil	2N
594536	VIII	N	P	T	Sa	N	Br	D	Y	Br		3N
594751D	VIII	N	W	T	A	N	Br	I	Y	Br		3N
594766	VIII	D	P	T	A	N	Br	I	Bl	Bl		4F
594786A	VIII	D	P	T	E	N	Br	D	Y	Brbl	Vhil	4N
594789A	VIII	D	P	T	E	N	Br	D	Y	Br		3N
594789B	VIII	D	P	T	Sa	N	Br	I	Y	Br		3N
594811	VII	D	P	G	A	N	Br	D	Y	Bf		3N
594841A	VII	D	P	G	E	N	Br	I	Y	Bf		3N
594855	VIII	D	P	T	E	N	Bl	I	Rbr	Rbr		3N
594865	VIII	D	P	T	E	N	Dbr	Lb	Br	Br		3N
594885C	VII	D	P	T	A	N	Bl	I	Rbr	Rbr	Lft4,5	3N
597465	VII	D	W	T	A	N	Tn	I	Gn	Brbl	Vhil	3N

Table 3.6 Agronomic data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
Bedford	703	1003	3.0	107*	1.0	1.0	1.5	2.0	11.4	3.87
Benning	704	1015	2.5	102	1.0	1.0	1.8	1.0	12.9	3.23*
Boggs	708	1008	2.0	94*	1.0	1.0	2.0	1.0	10.6	2.61
Celest	701	1008	3.0*	94	1.0	1.0	2.5	3.0	14.4	2.80
Cook	719	1030	3.0	100	1.0	1.0	2.8	1.0	14.0*	3.24*
Crockett	802	1031	3.0	98	1.0	1.0	2.2	1.5	9.8	2.14*
Derry	629	1008	3.0	183	1.0	1.0	3.0	1.5	13.8	2.24
Dillon	705	1005	2.0	92	1.0	1.0	2.2	1.0	12.1	4.09*
Fowler	703 <sup>^</sup>	1008 <sup>^</sup>	2.0 <sup>^</sup>	82 <sup>^</sup>	1.0 <sup>^</sup>	1.0 <sup>^</sup>	1.5 <sup>^</sup>	2.0	13.6 <sup>^</sup>	4.16 <sup>^</sup>
Haskell	708	1019	3.0	90*	1.0	1.5	2.0	1.0	14.0	3.48*
Hutcheson	629	927	2.0	83	1.0	1.0	1.8	1.0	13.6	4.58
Kuell	721	1027	3.5	105	1.0	1.5	2.5	1.0	12.0	2.52*
Motte	719	1027	2.5	118	1.0	1.0	2.8	2.5	12.4	2.86*
Musen	707	1015	2.5	94	1.0	1.0 <sup>^</sup>	2.0	1.0	9.7	2.96
N7001	707	1021	2.0	84	1.0	1.0	2.2*	1.0	12.4	2.79*
N7103	711	1015	2.0	68	1.0	1.5	2.0	1.0	6.6	2.38*
Nanda	816	1102	3.0	140	1.0	1.5	2.0 <sup>^</sup>	1.0	13.3*	1.13*
NC-Roy	629	1014	2.5	82*	1.0	1.0	2.0	1.0	11.0	3.78*
Prichard	723	1027	2.5	100*	1.0	1.0	2.2	1.0	11.2	2.87*
Santee	708	1020	2.5	104	1.0	1.5	2.2	1.0	12.5	3.32*
Stonewall	701	1013	2.5	95*	1.0	1.0	1.8	1.0	13.4	2.57*
Tyrone	711	1015	3.0	200	1.0	2.0*	2.8*	2.0	10.2	1.64
Young	711	1011	2.5	106	1.0	1.5	2.2	1.0	12.9	3.79*
378693A	826	1029	5.0	200	2.0*	2.0*	2.8	--	4.0	0.16
407941A	621	923	1.5	34*	1.0	1.5	3.0	1.0	23.6*	1.72
407941B	710	1009	2.0	70	1.0	1.5	2.5	1.0	12.9	1.61*
497966	717	1011	4.0	180*	1.0	1.5	3.5	2.5	7.9	1.08
506633	810	1102	4.5	172*	1.5	2.0*	3.2*	1.0	9.4	1.67*
587628	709	1025	3.0	150*	2.5	4.0 <sup>^</sup>	3.5	3.0	26.3*	0.84*
587896	802	1014	2.0	99	1.0	1.5	3.0	1.5	17.8	1.58
587949	812	1029	4.5	140*	1.0	2.0 <sup>^</sup>	3.2*	1.5	13.4*	0.30
588048	826	1029	4.5	148*	1.5	2.0*	3.0	--	9.6	0.76*
594009	627	1003	2.5	73*	1.0	1.5	2.5	1.0	10.9	2.34*
594015	705	1009	2.0	67*	1.5	3.0	2.2	2.0	8.8	1.56*
594536	827	1112	4.5	142*	1.5	1.5	3.0 <sup>^</sup>	2.0	12.0*	0.33
594751D	812	1029	4.0	145	1.0	1.5	2.8	3.0	12.0*	1.20*
594766	903	1108	4.5	148*	1.0	1.5	3.2	--	10.2*	0.36
594786A	802	1106	4.0*	148*	1.5	2.0*	3.8	2.0	10.8*	0.86*
594789A	717	1023	3.5	160*	1.0	1.5	3.5	2.5	13.6*	1.38*
594789B	721	1027	3.5	142	1.5	2.0*	3.2*	2.5	12.8*	1.55*
594811	715	1023	4.0	155*	1.0	2.5	3.0	1.5	12.8	1.64*
594841A	731	1016	3.5	130*	1.0	3.0	2.5	2.0	11.6	1.29
594855	801	1104	3.5	155*	1.5	2.0*	2.8	--	13.8*	1.31*
594865	725	1027	4.0*	160*	1.0	2.5	3.2	--	14.0*	1.68*
594885C	722	1016	3.5	89	1.0	1.5	2.2	--	10.8	1.26
597465	715	1023	3.5	180*	1.5	2.5	3.0	2.0	22.4*	1.84



Table 4.6. Seed composition data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Bedford	V	42.1	19.0	12.2	2.8	24.7	54.2	6.1
Benning	VII	42.4	18.6	13.5	2.9	17.3	59.0	7.4
Boggs	VI	44.2	20.1	12.7	2.2	20.2	58.6	6.3
Celest	V	43.9	18.3	12.7	3.4	19.7	57.9	6.3
Cook	VIII	44.9	17.3	13.6	2.8	18.9	57.5	7.2
Crockett	VIII	41.9 <sup>w</sup>	17.1 <sup>w</sup>	15.5	5.1	18.5	52.0	8.9
Derry	VI	47.8	17.6	11.9	2.5	38.7	42.6	4.3
Dillon	VI	42.0	19.4	11.2	2.6	17.8	61.4	7.0
Fowler	V	40.2	19.3	12.7	3.2	17.5	59.5	7.1
Haskell	VII	40.5 <sup>w</sup>	20.3 <sup>w</sup>	11.2	3.5	21.2	58.1	5.9
Hutcheson	V	40.3	20.8	12.7	3.2	17.5	59.4	7.2
Kuell	VIII	42.0	19.2	13.0	3.2	19.6	57.5	6.7
Motte	VIII	40.4 <sup>w</sup>	19.3 <sup>w</sup>	14.3	4.6	20.4	52.9	7.8
Musen	VI	42.5	18.3	12.6	3.3	17.5	58.4	8.1
N7001	VII	40.3 <sup>w</sup>	19.8 <sup>w</sup>	11.6	3.3	20.3	57.0	7.7
N7103	VII	44.2 <sup>w</sup>	15.9 <sup>w</sup>	12.3	3.6	16.7	58.9	8.4
Nanda	VIII	39.5 <sup>^</sup>	16.9 <sup>^</sup>	11.5 <sup>^</sup>	3.1 <sup>^</sup>	26.3 <sup>^</sup>	53.3 <sup>^</sup>	5.8 <sup>^</sup>
NC-Roy	VI	43.0	18.6	12.3	3.0	18.2	57.9	8.5
Prichard	VIII	41.6	19.8	12.7	3.2	20.0	56.7	7.4
Santee	VII	43.8	18.9	13.0	3.1	18.3	58.7	7.0
Stonewall	VII	41.5 <sup>w</sup>	20.4 <sup>w</sup>	11.2	2.9	20.0	59.7	6.1
Tyrone	VII	44.1	18.2	12.4	3.0	24.1	54.0	6.5
Young	VI	43.6	18.7	12.3	2.4	19.3	59.6	6.4
378693A	VIII	51.9 <sup>w^</sup>	10.4 <sup>w^</sup>	11.3 <sup>^</sup>	2.8 <sup>^</sup>	20.2 <sup>^</sup>	55.1 <sup>^</sup>	10.7 <sup>^</sup>
407941A	V	43.2 <sup>w</sup>	19.8 <sup>w</sup>	12.0	3.1	17.7	60.4	6.7
407941B	VI	44.5 <sup>w</sup>	16.8 <sup>w</sup>	10.8	2.8	20.0	58.5	7.9
497966	VI	49.8	14.2	12.0	2.8	24.9	53.5	6.9
506633	VIII	41.8	17.6	14.4	3.8	20.9	53.8	7.1
587628	VII	49.2 <sup>w</sup>	15.3 <sup>w</sup>	11.3	3.1	21.8	56.4	7.3
587896	VI	48.6 <sup>w</sup>	14.2 <sup>w</sup>	10.9	2.5	25.9	53.9	6.7
587949	VIII	45.7 <sup>w</sup>	15.3 <sup>w</sup>	11.2	4.3	25.4	52.5	6.6
588048	VIII	45.6 <sup>w</sup>	14.0 <sup>w</sup>	10.7	3.5	21.8	55.7	8.4
594009	VI	44.7 <sup>w</sup>	17.6 <sup>w</sup>	11.7	3.4	19.3	58.0	7.5
594015	VI	43.9 <sup>w</sup>	16.6 <sup>w</sup>	9.9	2.8	27.8	53.1	6.4
594536	VIII	45.9 <sup>^</sup>	16.8 <sup>^</sup>	11.3 <sup>^</sup>	3.5 <sup>^</sup>	28.1 <sup>^</sup>	50.7 <sup>^</sup>	6.4 <sup>^</sup>
594751D	VIII	45.4	15.3	11.6	3.7	26.0	52.5	6.2
594766	VIII	47.6 <sup>w</sup>	12.1 <sup>w</sup>	11.7	4.0	25.2	54.6	4.5
594786A	VIII	46.9	15.0	11.6	3.8	24.3	53.8	6.6
594789A	VIII	46.3	16.3	12.9	3.6	21.3	55.0	7.2
594789B	VIII	47.8	15.6	13.3	4.0	23.1	53.3	6.3
594811	VII	48.4	16.0	13.3	3.0	20.8	56.9	6.0
594841A	VII	46.1	19.2	12.0	3.3	27.0	52.5	5.3
594855	VIII	47.2 <sup>w</sup>	15.2 <sup>w</sup>	10.7	3.6	22.1	56.2	7.4
594865	VIII	44.5 <sup>w</sup>	16.2 <sup>w</sup>	10.4	4.0	24.2	54.7	6.6
594885C	VII	43.9 <sup>w</sup>	15.9 <sup>w</sup>	11.5	3.3	19.6	57.7	7.8
597465	VII	47.1 <sup>w</sup>	16.9 <sup>w</sup>	10.6	3.4	24.3	54.9	6.8

Table 1.6 Identification and origin information for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
602994	Pu dong da huang dou	Shanghai	China	China	1998	VII
603506	Xiao ke zao huang dou	Shaanxi	China	China	1998	VI
603509	Huang dou	Shaanxi	China	China	1998	VIII
603513A	Xiao niu mao huang	Shaanxi	China	China	1998	VIII
603513B	(Xiao niu mao huang)	Shaanxi	China	China	1998	VIII
603514	Ni ba dou	Shaanxi	China	China	1998	VI
603516	Xiao ma yi dan	Shaanxi	China	China	1998	VI
603517A	Lao shu pi	Shaanxi	China	China	1998	VI
603517B	(Lao shu pi)	Shaanxi	China	China	1998	VI
603519	Lu da dou	Shaanxi	China	China	1998	VI
603520	Huang dou	Shaanxi	China	China	1998	VI
603521	Huang dou	Shaanxi	China	China	1998	VIII
603522	Gao gan qing	Shaanxi	China	China	1998	VI
603524	Huang dou	Shaanxi	China	China	1998	VII
603525	Xiao lu dou	Shaanxi	China	China	1998	VI
603528	Hei ke zha	Shaanxi	China	China	1998	VII
603529	Hei huang dou	Shaanxi	China	China	1998	VIII
603532	Hong li huang dou	Shaanxi	China	China	1998	VI
603534A	Da niu mao huang	Shaanxi	China	China	1998	VII
603534B	(Da niu mao huang)	Shaanxi	China	China	1998	VIII
603535	Hei zong huang dou	Shaanxi	China	China	1998	VIII
603536	Hui huang dou	Shaanxi	China	China	1998	VIII
603537C	(Niu yan jing quan zi)	Shaanxi	China	China	1998	VIII
603537D	(Niu yan jing quan zi)	Shaanxi	China	China	1998	VII
603538C	(Wan dou zao)	Shaanxi	China	China	1998	VIII
603538D	(Wan dou zao)	Shaanxi	China	China	1998	VIII
603538E	(Wan dou zao)	Shaanxi	China	China	1998	VIII
603538F	(Wan dou zao)	Shaanxi	China	China	1998	VI
603539A	Huang dou	Shaanxi	China	China	1998	VI
603539B	(Huang dou)	Shaanxi	China	China	1998	VI
603539C	(Huang dou)	Shaanxi	China	China	1998	VI
603539D	(Huang dou)	Shaanxi	China	China	1998	VI
603540A	Hei huang dou	Shaanxi	China	China	1998	VII
603540B	(Hei huang dou)	Shaanxi	China	China	1998	VI
603591	Yun xiao bai ma dou	Fujian	China	China	1998	V
603598B	(Pu dou 426)	Fujian	China	China	1998	VI
603601	Zhen zhu dou No. 1	Fujian	China	China	1998	VIII
603605	Jing 225	Hubei	China	China	1998	VII
603608	Huang pi shan zi bai	Hubei	China	China	1998	VII
603610A	Wu feng bai mao dou	Hubei	China	China	1998	VI
603611B	(Wu feng shai lu qing)	Hubei	China	China	1998	VI
603615B	(70-2)	Hubei	China	China	1998	VI
603617	65-391	Hubei	China	China	1998	VI
603618	Tian e dan No. 2	Hubei	China	China	1998	VI
603627	Lao shu pi	Hubei	China	China	1998	VI
603628	Bao mu ji	Hubei	China	China	1998	VI

Table 2.6. Descriptive data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
602994	VII	D	W	G	A	Ssp	Tn	I	Y	Bf	Sdef	1N
603506	VI	N	W	G	E	N	Tn	I	Y	Bf		3N
603509	VIII	D	W	G	A	Ssp	Bl	I	Y	Bf		2N
603513A	VIII	D	P	T	A	N	Br	I	Y	Br	Vhil	2N
603513B	VIII	D	W	T	A	N	Br	I	Y	Br		2N
603514	VI	D	W	T	A	Ssp	Bl	I	Y	Br		3N
603516	VI	D	P	G	A	N	Tn	I	Y	Bf		3N
603517A	VI	N	P	G	A	Ssp	Br	I	Y	Bf	Vhil	2N
603517B	VI	N	W	G	A	Ssp	Br	I	Y	Bf		2N
603519	VI	D	W	G	A	Ssp	Bl	I	Gn	Bf		2N
603520	VI	D	W	T	A	Ssp	Bl	I	Gn	Brbl	Vhil	4N
603521	VIII	D	W	T	A	Ssp	Br	I	Gn	Bl		3N
603522	VI	D	W	G	A	Ssp	Br	D	Gn	Bf		3N
603524	VII	D	P	T	A	Ssp	Bl	I	Gn	Br		2N
603525	VI	D	W	T	Sa	Ssp	Bl	I	Gn	Br		3N
603528	VII	D	W	T	A	N	Br	I	Bl	Bl		4N
603529	VIII	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
603532	VI	D	W	G	Sa	Ssp	Tn	I	Rbf	Rbf		4N
603534A	VII	D	P	T	A	N	Br	I	Br	Rbr		2N
603534B	VIII	D	W	T	A	N	Br	I	Br	Rbr		2N
603535	VIII	D	W	T	A	N	Br	I	Br	Rbr	Sdef	3N
603536	VIII	D	W	T	A	Ssp	Br	I	Br	Rbr		3N
603537C	VIII	N	W	T	A	N	Br	I	Rbr	Rbr	Sdef, Vsc	3N
603537D	VII	D	P	T	A	N	Br	I	Br	Br	Sdef, St	3N
603538C	VIII	D	P	G	Sa	N	Tn	I	Y	Bf	Vhil	4N
603538D	VIII	D	W	G	A	N	Tn	I	Y	Bf	Sdef	2N
603538E	VIII	D	W	G	A	N	Br	I	Y	Bf	Sdef	2N
603538F	VI	D	W	G	A	N	Br	I	Y	Bf	Sdef	2N
603539A	VI	D	P	G	A	Ssp	Br	I	Gn	Bf	Vsc	3N
603539B	VI	D	W	G	Sa	Ssp	Bl	I	Gn	Bf		2N
603539C	VI	N	W	G	A	N	Br	I	Gn	Bf		3N
603539D	VI	N	W	G	A	Ssp	Bl	I	Gn	Bf		2N
603540A	VII	N	W	T	E	Ssp	Br	I	Bl	Bl		3N
603540B	VI	N	W	T	Sa	N	Dbr	I	Bl	Bl		3N
603591	V	D	P	T	A	N	Tn	I	Y	Bl		3N
603598B	VI	D	W	Lt	E	N	Tn	I	Y	Brbl	Vhil	2N
603601	VIII	D	P	G	A	N	Tn	I	Y	Bf	Sdef	2N
603605	VII	D	P	T	A	Ssp	Br	I	Y	Br		2N
603608	VII	D	P	T	A	N	Br	I	Y	Brbl	Vhil	2N
603610A	VI	D	W	G	A	N	Br	I	Gn	Bf		3N
603611B	VI	D	W	T	A	N	Br	I	Gn	Br		3N
603615B	VI	N	W	T	A	Ssp	Tn	I	Y	Br		2N
603617	VI	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
603618	VI	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
603627	VI	D	P	G	A	N	Bl	I	Y	Y		2N
603628	VI	D	W	G	A	N	Br	I	Y	Bf		3N

Table 3.6 Agronomic data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
602994	715	1019	3.0	70	1.0	2.0^	2.8	1.0	22.2	1.83
603506	703	1007	4.0	101	1.0	2.5	3.5	2.0	12.3	1.36
603509	731	1026	2.5	105*	1.0	2.5	2.2	4.5	12.1	1.71*
603513A	816	1027	3.0*	98	1.0	1.0	2.8*	1.5	10.9	1.60*
603513B	814	1025	3.5	115*	1.0	1.0^	1.8	2.0	10.2	1.87
603514	715	1018	3.0	98	1.0	1.5	3.2	4.5	11.2*	1.29
603516	718	1011	3.5	114*	1.0	2.5	2.8	2.0	4.0	1.66*
603517A	705	1015	3.5	96	1.0	1.5	2.5	1.0	14.8	2.75*
603517B	731	1017	3.5	115*	1.0	1.5	3.0	2.0	15.6	1.67*
603519	705	1011	2.0*	88*	1.0	2.0	2.8*	3.0	14.7	1.78*
603520	701	1013	2.0*	88	1.0	1.5	2.8	2.0	13.7	1.70
603521	711	1027	2.5	95	1.0	1.0	3.0	2.5	13.8*	1.66*
603522	629	1011	2.5	86	1.0	1.5	2.8	1.0	17.4	1.95*
603524	808	1023	2.5	75*	1.0	1.0	2.2	3.5	11.2	1.61*
603525	703	1017	3.0	91*	1.0	1.5	3.0	4.0	9.7	0.77
603528	810	1025	2.5	118*	1.0	1.0	2.8	--	11.8	1.54*
603529	820	1027	3.0	110*	1.0	1.5	2.5	--	9.5	1.62*
603532	703	1008	3.0	77	1.0	2.5	2.8	--	10.8	1.76
603534A	806	1023	3.5	85*	1.0	1.0	1.8	--	9.2	1.81*
603534B	809	1027	3.0	130*	1.0	1.5	2.2	--	9.5	1.54*
603535	818	1030	3.5	98*	1.0	1.5	3.2	--	10.5	1.86*
603536	723	1027	2.5	89	1.0	1.5	2.8	--	9.9	1.45*
603537C	723	1110*	3.5	132*	1.0	1.0	3.0	--	13.4*	1.67*
603537D	709	1021	3.5	108*	1.0	1.5	3.0	--	19.2	1.59
603538C	802	1027	2.5	95	1.0	1.0	2.8	2.0	14.1	1.62*
603538D	731	1027	3.5	95*	2.0*	3.0*	2.5	1.0	14.1	1.47*
603538E	804	1026	3.0	82	1.5	2.0*	2.8	2.0	15.2	1.62*
603538F	807	1011*	3.0	112*	1.5	2.5	3.0	1.0	13.8	1.51*
603539A	629	1011	2.0	86	1.0	1.5	2.0^	1.0	13.4^	2.70^
603539B	701	1015	3.0	94	1.0	2.5	2.8	2.5	13.2	2.01
603539C	725	1020	4.0	112*	1.0	1.5	2.8	2.0	11.5	2.14*
603539D	703	1003*	2.5	90	1.0	2.0	2.8	3.0	14.3	1.91
603540A	715	1022	4.0	152*	1.0	1.5	2.2	--	13.4	1.60*
603540B	718	1013	4.0	150*	1.0	2.0	2.2	--	8.4	0.94
603591	717	1001	3.0	88	2.0	3.0	2.8	2.0	16.7	1.60*
603598B	627	1009	3.0	70*	1.0	2.0	2.2	1.0	16.8	2.29*
603601	822	1031	4.0*	125	1.0	1.0	3.5	2.0	18.0*	0.47
603605	808	1016	3.5	98*	1.5	3.0	2.5	2.0	11.5	1.83*
603608	731	1019	2.5	108	1.0	3.0^	2.8	2.0	18.4	1.85
603610A	729	1015	2.5	88	1.0	1.5	2.2	3.0	14.8	1.39
603611B	718	1019	3.5	95	1.0	2.0	3.0	2.0	17.2	2.07*
603615B	811	1013	4.0	122	1.0	2.0	1.8	3.0	8.4	1.88
603617	804	1011	4.0	126	1.0	1.0	2.2	1.0	10.8	2.31*
603618	808	1012	3.0	128*	1.0	1.0	2.2	1.5	10.6	2.36
603627	815	1013	3.0*	92	1.0	2.0	2.2	3.0	9.7	1.62*
603628	802	1009	2.5	100*	1.0	3.0	2.2	3.0	9.4	1.47

Table 4.6. Seed composition data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
602994	VII	45.1	16.6	11.7	2.8	23.7	55.2	6.6
603506	VI	49.7	17.9	11.1	2.8	39.3	42.0	4.8
603509	VIII	45.1 <sup>w</sup>	16.4 <sup>w</sup>	13.2	3.1	24.0	52.5	7.1
603513A	VIII	46.3	15.9	12.2	3.4	19.7	56.9	7.8
603513B	VIII	44.7	15.9	12.6	4.2	20.0	56.2	7.0
603514	VI	45.8 <sup>w</sup>	15.5 <sup>w</sup>	10.2	3.1	21.2	58.6	6.9
603516	VI	51.3	11.0	13.1	3.5	17.7	58.1	7.6
603517A	VI	41.1	17.3	12.1	2.6	18.2	59.4	7.7
603517B	VI	52.1	14.0	12.8	2.9	20.2	55.8	8.2
603519	VI	46.5 <sup>w</sup>	15.3 <sup>w</sup>	12.3	3.3	16.5	59.4	8.5
603520	VI	45.5 <sup>w</sup>	17.0 <sup>w</sup>	9.6	2.9	17.5	62.3	7.8
603521	VIII	43.7 <sup>w</sup>	17.5 <sup>w</sup>	10.8	3.8	20.7	58.1	6.5
603522	VI	48.0 <sup>w</sup>	16.7 <sup>w</sup>	10.9	2.9	16.6	61.5	8.0
603524	VII	46.2 <sup>w</sup>	16.5 <sup>w</sup>	10.5	4.3	20.9	57.8	6.5
603525	VI	49.0 <sup>w</sup>	14.0 <sup>w</sup>	11.4	3.5	20.3	57.3	7.6
603528	VII	46.4 <sup>w</sup>	15.2 <sup>w</sup>	10.8	2.9	20.2	58.5	7.6
603529	VIII	46.0 <sup>w</sup>	16.7 <sup>w</sup>	9.2	3.9	20.3	60.1	6.6
603532	VI	46.0 <sup>w</sup>	15.3 <sup>w</sup>	10.6	3.0	19.1	60.5	6.8
603534A	VII	41.6 <sup>w</sup>	17.1 <sup>w</sup>	10.1	3.9	21.1	57.2	7.8
603534B	VIII	47.1 <sup>w</sup>	15.6 <sup>w</sup>	10.7	3.7	19.7	58.6	7.3
603535	VIII	46.5 <sup>w</sup>	14.4 <sup>w</sup>	11.1	2.9	15.7	61.1	9.2
603536	VIII	45.6 <sup>w</sup>	14.1 <sup>w</sup>	10.1	3.7	17.9	59.3	9.0
603537C	VIII	46.6 <sup>w</sup>	18.3 <sup>w</sup>	10.2	3.7	23.8	56.2	6.1
603537D	VII	48.0 <sup>w</sup>	16.9 <sup>w</sup>	9.5	3.4	29.6	52.6	4.8
603538C	VIII	47.9	15.0	13.3	2.9	19.2	57.1	7.5
603538D	VIII	45.4	17.7	12.6	3.1	24.0	54.1	6.3
603538E	VIII	48.5	16.7	12.5	3.5	22.0	56.1	5.9
603538F	VI	48.9	15.7	12.8	3.1	19.0	57.5	7.5
603539A	VI	44.3 <sup>w^</sup>	18.1 <sup>w^</sup>	9.9 <sup>^</sup>	2.8 <sup>^</sup>	18.6 <sup>^</sup>	60.7 <sup>^</sup>	8.0 <sup>^</sup>
603539B	VI	43.5 <sup>w</sup>	17.3 <sup>w</sup>	11.3	3.0	17.4	60.6	7.8
603539C	VI	45.8 <sup>w</sup>	17.0 <sup>w</sup>	10.5	3.6	22.7	56.6	6.7
603539D	VI	43.5 <sup>w</sup>	17.4 <sup>w</sup>	11.1	2.9	16.8	61.3	7.9
603540A	VII	45.7 <sup>w</sup>	17.1 <sup>w</sup>	11.8	3.1	21.4	57.2	6.5
603540B	VI	47.3 <sup>w</sup>	14.3 <sup>w</sup>	11.6	3.3	17.7	60.6	6.8
603591	V	46.5	16.8	13.7	2.3	27.8	50.2	6.0
603598B	VI	43.8	18.7	13.4	2.2	32.6	47.4	4.4
603601	VIII	47.3	16.4	14.9	3.5	23.4	52.4	5.7
603605	VII	45.6	16.7	13.4	3.2	24.7	52.5	6.3
603608	VII	43.3	18.1	13.7	3.2	25.9	51.6	5.7
603610A	VI	46.6 <sup>w</sup>	17.2 <sup>w</sup>	10.7	3.5	25.9	54.0	5.9
603611B	VI	46.1 <sup>w</sup>	16.9 <sup>w</sup>	11.0	2.9	26.5	52.0	7.6
603615B	VI	48.6	15.5	13.1	3.1	22.2	55.3	6.3
603617	VI	48.1	13.8	13.6	2.9	19.6	55.3	8.6
603618	VI	49.5	13.7	13.0	2.8	22.9	53.5	7.8
603627	VI	47.3	17.0	12.5	2.9	23.1	55.0	6.4
603628	VI	48.5	15.5	13.2	3.2	26.2	52.1	5.3

Table 1.6 Identification and origin information for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
603629A	Ji wo huang dou	Hubei	China	China	1998	VI
603629B	(Ji wo huang dou)	Hubei	China	China	1998	VI
603630	Lu shui bai No. 1	Hubei	China	China	1998	VII
603631	Lu shui bai No. 2	Hubei	China	China	1998	VII
603633	Niu ken zhuang No. 2	Hubei	China	China	1998	VI
603634	Bai huang dou	Hubei	China	China	1998	VII
603640	Yi wo qu	Hubei	China	China	1998	VII
603641	Qing huang dou	Hubei	China	China	1998	VIII
603642	Tu bu wen No. 2	Hubei	China	China	1998	VII
603644	Hei huang dou	Hubei	China	China	1998	VI
603650	Wu huang dou No. 2	Hubei	China	China	1998	VI
603651	Ying shan huang dou	Hubei	China	China	1998	VII
603673F	(Dong hai bai ta me jia cao)	Jiangsu	China	China	1998	VI
603673G	(Dong hai bai ta me jia cao)	Jiangsu	China	China	1998	IV
603677B	(Sui ning huang xu da dou)	Jiangsu	China	China	1998	V
603681B	(Pei xian xiao bai pi)	Jiangsu	China	China	1998	V
603685B	(Xin yi huang se tu yan zi)	Jiangsu	China	China	1998	V
603696	Shu yang qiu dou jia	Jiangsu	China	China	1998	VI
603697	Gan yu xiao li hei dou	Jiangsu	China	China	1998	VI
603701	Gao you chi huang dou No. 3	Jiangsu	China	China	1998	VII
603702A	73-2	Jiangsu	China	China	1998	VI
603702B	(73-2)	Jiangsu	China	China	1998	VI
603703A	Liu he xiao you qing	Jiangsu	China	China	1998	VI
603703B	(Liu he xiao you qing)	Jiangsu	China	China	1998	VI
603706B	(Huang dou)	Jiangxi	China	China	1998	IV
603711B	(Hua lian ba)	Sichuan	China	China	1998	IV
603722	Nan chong ba yue huang	Sichuan	China	China	1998	VIII
603724D	(Liu yue huang)	Sichuan	China	China	1998	IV
603724E	(Liu yue huang)	Sichuan	China	China	1998	IV
603733	Huang dou	Sichuan	China	China	1998	VI
603734	Bai dou No. 3	Sichuan	China	China	1998	VII
603736	Xiao hei dou No. 2	Sichuan	China	China	1998	IV
603737A	Hei huang dou	Sichuan	China	China	1998	VII
603737B	(Hei huang dou)	Sichuan	China	China	1998	VIII
603737C	(Hei huang dou)	Sichuan	China	China	1998	VIII
603739	Hei pi dou	Sichuan	China	China	1998	VIII
603785	Ding an xiao li huang	Hainan	China	China	1998	VIII
605754	Bon thang	Lang son	Vietnam	Vietnam	1998	VIII
605755	Dong hoa	Lang son	Vietnam	Vietnam	1998	VIII
605757		Lang son	Vietnam	Vietnam	1998	VIII
605758A		Lang son	Vietnam	Vietnam	1998	VIII
605760		Lang son	Vietnam	Vietnam	1998	VIII
605761		Lang son	Vietnam	Vietnam	1998	VIII
605763		Lang son	Vietnam	Vietnam	1998	VIII
605764A		Lang son	Vietnam	Vietnam	1998	VIII
605764B		Lang son	Vietnam	Vietnam	1998	VIII

Table 2.6. Descriptive data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
603629A	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
603629B	VI	D	W	G	A	N	Tn	I	Y	Bf		2N
603630	VII	D	W	G	A	Ssp	Br	D	Y	Y	Vhil	2N
603631	VII	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
603633	VI	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	2N
603634	VII	D	W	T	A	N	Br	I	Y	Br		3N
603640	VII	D	P	T	A	Ssp	Br	I	Gn	Br		2N
603641	VIII	D	W	G	A	Ssp	Tn	I	Gn	Bf		2N
603642	VII	D	P	T	A	Ssp	Br	I	Gn	Br	Vhil	2N
603644	VI	D	P	T	A	Ssp	Dbr	I	Bl	Bl	Sdef, Snet	3N
603650	VI	D	P	T	A	Ssp	Br	I	Br	Rbr	Sabh	3N
603651	VII	D	P	T	A	Ssp	Br	I	Br	Rbr	Vsc	2N
603673F	VI	D	P	G	A	Ssp	Br	I	Y	Bf		2N
603673G	IV	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
603677B	V	D	P	G	A	Ssp	Tn	I	Gn	Gn	Sdef, Vhil	2N
603681B	V	D	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
603685B	V	N	P	G	A	Ssp	Lbr	I	Y	Ib	Vhil	3N
603696	VI	D	P	T	A	N	Br	I	Y	Brbl	Vhil	4N
603697	VI	N	P	Lt	E	Ssp	Bl	I	Bl	Bl		4F
603701	VII	N	P	G	A	N	Br	I	Y	Bf		2N
603702A	VI	D	W	G	Sa	Ssp	Tn	I	Y	Bf		3N
603702B	VI	D	P	G	Sa	Ssp	Br	I	Y	Bf	Vhil	3N
603703A	VI	N	P	T	A	Ssp	Br	I	Gn	Bl		3N
603703B	VI	N	P	T	A	N	Br	I	Gn	Bl		3N
603706B	IV	D	W	G	A	Ssp	Tn	I	Y	Bf		2N
603711B	IV	D	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603722	VIII	N	P	G	A	N	Br	I	Y	Bf		3N
603724D	IV	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
603724E	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
603733	VI	D	W	T	Sa	Ssp	Br	I	Y	Brbl	Vhil	2N
603734	VII	D	P	T	A	Ssp	Br	I	Y	Brbl	Vhil	3N
603736	IV	D	P	Lt	A	Ssp	Bl	I	Bl	Bl	Flk	2N
603737A	VII	D	P	Lt	Sa	Ssp	Bl	I	Bl	Bl	Sdef	3N
603737B	VIII	D	P	T	E	Ssp	Br	I	Bl	Bl		3N
603737C	VIII	D	P	Lt	E	Ssp	Bl	I	Bl	Bl		3N
603739	VIII	N	P	T	Sa	N	Br	Lb	Bl	Bl		3N
603785	VIII	N	P	G	Va	N	Br	I	Y	Bf		2N
605754	VIII	D	P	G	Sa	N	Tn	I	Y	Bf		3N
605755	VIII	D	P	G	A	N	Tn	I	Y	Bf		3N
605757	VIII	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
605758A	VIII	D	P	G	A	N	Tn	I	Y	Bf		3N
605760	VIII	D	P	G	Va	Ssp	Tn	I	Y	Bf		2N
605761	VIII	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
605763	VIII	D	P	G	A	N	Tn	I	Y	Bf		2N
605764A	VIII	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
605764B	VIII	D	P	G	A	N	Tn	I	Y	Bf		2N

Table 3.6 Agronomic data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed		Weight	Yield
	date	date			early	late	Quality	Mottling		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
603629A	810	1012	3.0*	87	1.0	2.0*	2.0	2.5	7.8	1.67
603629B	814	1012	3.5	90	1.0	2.5	1.8	2.5	8.0	1.50
603630	727	1019	3.0	94	1.0	1.5	2.2	1.0	8.5	1.64
603631	808	1022	3.0	76	1.0	1.5	2.2	1.0	8.7	1.54*
603633	802	1018	2.5	58	1.0	1.0	2.5	2.0	9.6	1.48
603634	804	1021	3.5	86*	1.0	1.0	2.5	2.0	9.6*	1.77*
603640	811	1019	3.5	112*	1.0	1.5	2.0	1.5	8.6	1.93
603641	818	1027	3.5	100	1.5	2.5	2.2*	1.0	10.0	0.95*
603642	815	1020	4.0	125*	1.0	1.0	1.8	2.0	9.3	1.69*
603644	716	1007	2.5	82	1.0	1.5	2.8	--	11.1	1.89*
603650	814	1015	3.5	110*	1.0	2.0	2.2	--	9.2	1.79*
603651	815	1019	3.5	122*	1.0	2.0	2.2	--	8.2	1.24*
603673F	627	1002	3.5	110	1.0	2.5	2.5	1.0	11.5	1.16
603673G	625	909	4.0	111	1.0	2.5	3.0	1.5	16.3	2.19
603677B	627	917	1.5	51*	1.0	2.0	2.8	1.0	26.4	3.42^
603681B	619	920	4.0	133*	1.0	2.0	2.8	1.0	17.5	2.51*
603685B	712	1001	3.5	109*	2.5	4.0	2.8	1.5	14.8	0.98
603696	731	1009	4.0	142*	1.0	2.5	3.0	2.0	9.8	1.30
603697	728	1013	4.0	200	1.5	2.5	3.0	--	8.7	1.41*
603701	804	1019	4.0	178	1.0	3.0^	2.8	2.0	12.5*	1.16
603702A	720	1007	1.5	82*	1.0	2.5	2.2	1.0	14.5	2.91*
603702B	710	1009	2.0	89	1.0	2.5	2.5	1.5	14.8	2.09
603703A	727	1012	4.0	165*	1.5	2.5	3.0	2.0	12.2	1.45
603703B	802	1015	4.0	195	1.5	2.5	3.0	2.0	12.6	1.47
603706B	701	913	3.5	118*	1.0	1.5	3.0	1.5	14.8	2.00*
603711B	625	828	4.0	94	1.0	1.5	2.5	1.5	11.4	2.74
603722	827	1025	4.0	160*	1.0	3.0^	3.2*	2.0	9.5	1.36*
603724D	701	831	3.5	82	1.5	2.0*	2.5*	1.5	9.2	2.68*
603724E	628	909	3.5	92	2.5	3.5	2.5*	1.5	7.2	2.24*
603733	711	1018	3.0	70	1.0	3.0^	2.8	2.0	11.8	1.06
603734	803	1021	3.0	127*	1.0	2.5	2.8	2.0	17.0	1.72
603736	623	822	2.5	85	1.0	2.5	2.0	--	8.9	2.69
603737A	806	1021	4.5	126	1.0	1.5	2.5	--	9.4	1.42*
603737B	806	1027	3.5	115*	1.5	3.0^	2.5	--	10.2	1.04
603737C	804	1027	3.5	135	2.0	2.0*	2.2	--	9.8	1.22*
603739	804	1029	3.5	162*	1.5	3.0^	2.8	--	10.6	1.04*
603785	830	1031	3.5	200	2.5	3.0*	2.8	2.0	6.6	0.93*
605754	821	1102	3.0	118*	1.5	2.0*	3.5*	2.0	12.4*	0.92*
605755	816	1106	3.5	115	1.5	1.5	2.2	2.0	12.6	1.15*
605757	816	1029	3.0	95*	1.0	2.0*	2.0	2.5	12.2	1.58*
605758A	824	1104	4.0	165*	1.0	1.5	3.5*	2.5	9.7*	1.22*
605760	818	1106	3.0	100	1.0	1.5	2.8	3.0	12.4*	0.92
605761	816	1104	3.0	112*	1.0	1.0	2.8	3.0	11.8*	1.13*
605763	816	1031	3.0	102*	1.0	1.5	2.8	3.0	12.4*	1.30*
605764A	816	1102	2.5	110*	1.0	1.0	2.8*	3.0	12.1*	1.40*
605764B	816	1031	3.0	109*	1.0	1.0	2.8	3.0	12.1*	1.40*



Table 4.6. Seed composition data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603629A	VI	49.2	16.5	12.9	3.1	23.8	53.1	7.0
603629B	VI	49.0	16.6	13.0	3.3	26.5	50.9	6.3
603630	VII	47.2	14.3	13.1	3.0	18.0	56.2	9.7
603631	VII	45.5 <sup>w</sup>	15.3 <sup>w</sup>	16.1	4.4	19.5	51.8	8.2
603633	VI	49.5	13.9	12.4	3.0	21.1	55.6	7.9
603634	VII	48.8	15.1	12.7	3.3	25.1	53.2	5.6
603640	VII	41.9 <sup>w</sup>	18.0 <sup>w</sup>	10.3	3.9	24.9	54.7	6.2
603641	VIII	45.3 <sup>w</sup>	15.5 <sup>w</sup>	14.1	4.9	24.5	47.5	9.0
603642	VII	41.9 <sup>w</sup>	18.2 <sup>w</sup>	11.1	3.7	23.9	55.0	6.4
603644	VI	43.5 <sup>w</sup>	18.0 <sup>w</sup>	11.1	2.6	25.7	53.7	7.1
603650	VI	44.1 <sup>w</sup>	18.1 <sup>w</sup>	11.2	3.3	24.1	56.1	5.3
603651	VII	45.5 <sup>w</sup>	15.5 <sup>w</sup>	14.5	5.0	23.5	48.9	8.0
603673F	VI	49.4	17.7	13.3	2.7	39.9	38.9	5.2
603673G	IV	45.3	19.8	13.5	2.7	28.1	49.7	6.0
603677B	V	43.3 <sup>w</sup>	21.4 <sup>w</sup>	10.4	2.5	28.7	53.1	5.3
603681B	V	42.6	17.5	13.8	2.3	25.2	51.9	6.9
603685B	V	46.0	17.3	12.8	2.8	24.3	53.2	6.8
603696	VI	49.9	14.9	12.5	3.2	22.2	54.6	7.5
603697	VI	44.8 <sup>w</sup>	16.0 <sup>w</sup>	10.7	2.6	21.4	57.7	7.5
603701	VII	49.4	15.6	12.5	3.6	24.7	53.0	6.3
603702A	VI	46.7	17.5	13.2	2.3	30.3	49.2	5.1
603702B	VI	43.9	18.2	13.0	2.5	19.3	58.9	6.2
603703A	VI	48.8 <sup>w</sup>	15.6 <sup>w</sup>	10.1	3.9	30.6	48.9	6.5
603703B	VI	46.4 <sup>w</sup>	17.5 <sup>w</sup>	9.6	3.4	30.6	50.9	5.5
603706B	IV	44.5	16.9	12.9	2.6	25.1	51.5	7.7
603711B	IV	45.8	17.6	13.2	2.5	25.2	51.8	7.4
603722	VIII	53.4	12.1	14.3	3.2	21.1	52.7	8.8
603724D	IV	44.4	19.9	12.9	2.9	26.0	52.2	6.1
603724E	IV	42.2	18.1	13.3	3.0	25.8	50.9	6.9
603733	VI	49.2	16.4	12.6	3.5	21.9	55.8	6.2
603734	VII	45.1	15.9	12.6	3.3	22.2	55.3	6.7
603736	IV	39.3 <sup>w</sup>	18.1 <sup>w</sup>	11.9	2.8	22.5	53.5	9.3
603737A	VII	44.6 <sup>w</sup>	15.5 <sup>w</sup>	11.5	3.2	21.1	56.9	7.2
603737B	VIII	46.2 <sup>w</sup>	15.8 <sup>w</sup>	14.9	5.2	22.9	48.3	8.7
603737C	VIII	46.1 <sup>w</sup>	15.3 <sup>w</sup>	11.5	4.0	22.0	54.8	7.7
603739	VIII	46.1 <sup>w</sup>	14.4 <sup>w</sup>	10.8	4.1	19.9	60.4	4.7
603785	VIII	46.8	14.0	12.9	2.9	20.2	55.1	8.9
605754	VIII	47.2	14.5	13.1	4.1	25.2	50.5	7.0
605755	VIII	47.4	15.0	12.5	3.3	25.1	51.1	8.1
605757	VIII	45.1	15.0	13.3	3.6	24.6	51.9	6.6
605758A	VIII	47.5	13.1	13.0	2.7	22.1	58.1	4.1
605760	VIII	46.6	14.7	13.3	3.7	22.0	53.5	7.5
605761	VIII	44.9	15.0	12.3	3.6	25.7	51.6	6.8
605763	VIII	46.9	13.9	12.8	3.7	25.3	52.2	6.1
605764A	VIII	45.2	14.7	11.7	3.5	22.1	54.3	8.4
605764B	VIII	47.3	14.6	11.8	3.3	24.5	53.3	7.1

Table 1.6 Identification and origin information for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
605767B		Lang son	Vietnam	Vietnam	1998	VIII
605772		Cao bang	Vietnam	Vietnam	1998	VIII
605773		Cao bang	Vietnam	Vietnam	1998	V
605774		Cao bang	Vietnam	Vietnam	1998	V
605778A		Cao bang	Vietnam	Vietnam	1998	VIII
605778B		Cao bang	Vietnam	Vietnam	1998	VIII
605779B		Cao bang	Vietnam	Vietnam	1998	VIII
605779C		Cao bang	Vietnam	Vietnam	1998	VIII
605781C		Cao bang	Vietnam	Vietnam	1998	VII
605781D		Cao bang	Vietnam	Vietnam	1998	V
605781E		Cao bang	Vietnam	Vietnam	1998	VII
605783		Cao bang	Vietnam	Vietnam	1998	VIII
605785		Cao bang	Vietnam	Vietnam	1998	VII
605786A		Cao bang	Vietnam	Vietnam	1998	VIII
605786D		Cao bang	Vietnam	Vietnam	1998	VIII
605787A		Cao bang	Vietnam	Vietnam	1998	VIII
605787C		Cao bang	Vietnam	Vietnam	1998	VIII
605787D		Cao bang	Vietnam	Vietnam	1998	VIII
605790		Cao bang	Vietnam	Vietnam	1998	VI
605809B		Tuyen quang	Vietnam	Vietnam	1998	V
605812		Tuyen quang	Vietnam	Vietnam	1998	V
605814		Ha giang	Vietnam	Vietnam	1998	VI
605817C		Ha giang	Vietnam	Vietnam	1998	VI
605817D		Ha giang	Vietnam	Vietnam	1998	V
605826B		Ha giang	Vietnam	Vietnam	1998	IV
605839B	(Xam si man)	Ha giang	Vietnam	Vietnam	1998	V
605839C	(Xam si man)	Ha giang	Vietnam	Vietnam	1998	V
605840F		Ha giang	Vietnam	Vietnam	1998	IV
605840G		Ha giang	Vietnam	Vietnam	1998	IV
605841B	(Dau si man)	Ha giang	Vietnam	Vietnam	1998	V
605844D		Ha giang	Vietnam	Vietnam	1998	IV
605844E		Ha giang	Vietnam	Vietnam	1998	IV
605854B		Tuyen quang	Vietnam	Vietnam	1998	V
605857B		Yen bai	Vietnam	Vietnam	1998	V
605861A	H 10	Hai hung	Vietnam	Vietnam	1998	VII
605861B	(H 10)	Hai hung	Vietnam	Vietnam	1998	V
605862A	V 74	Hai hung	Vietnam	Vietnam	1998	V
605862C	(V 74)	Hai hung	Vietnam	Vietnam	1998	VI
605864		Lao cai	Vietnam	Vietnam	1998	VI
605865B		Lao cai	Vietnam	Vietnam	1998	V
605868		Lao cai	Vietnam	Vietnam	1998	V
605870A		Lao cai	Vietnam	Vietnam	1998	V
605870B		Lao cai	Vietnam	Vietnam	1998	V
605871B	(Vang muong khoung)	Lao cai	Vietnam	Vietnam	1998	V
605871C	(Vang muong khoung)	Lao cai	Vietnam	Vietnam	1998	VI
605876B		Lao cai	Vietnam	Vietnam	1998	VI

Table 2.6. Descriptive data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
605767B	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605772	VIII	D	P	G	Sa	Ssp	Br	I	Y	Bf		2N
605773	V	D	W	T	A	N	Br	I	Y	Br	Vhil	2N
605774	V	D	W	T	A	N	Br	I	Y	Br	Vhil	2N
605778A	VIII	N	P	G	A	Sp	Tn	I	Y	Ib	Vhil	3N
605778B	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605779B	VIII	D	P	G	Sa	N	Tn	I	Gn	Bf		3N
605779C	VIII	N	P	T	A	N	Tn	I	Br	Rbr		3N
605781C	VII	N	P	T	A	N	Tn	I	Gn	Br		2N
605781D	V	D	W	T	A	N	Br	I	Y	Tn	Vhil	3N
605781E	VII	N	P	G	E	N	Tn	I	Lgn	Bf		3N
605783	VIII	S	P	G	A	N	Tn	I	Y	Bf		3N
605785	VII	D	W	G	A	N	Br	I	Y	Bf		3N
605786A	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605786D	VIII	N	P	G	A	Ssp	Tn	I	Y	Bf	Vhil	4N
605787A	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605787C	VIII	N	P	T	A	N	Tn	I	Y	Br		3N
605787D	VIII	N	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
605790	VI	D	W	T	Sa	N	Br	I	Y	Br		3N
605809B	V	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	2N
605812	V	N	P	T	A	N	Tn	I	Y	Br		2N
605814	VI	D	W	T	A	N	Tn	I	Y	Br		3N
605817C	VI	D	W	T	A	Ssp	Tn	I	Y	Brbl	Vhil	3N
605817D	V	D	P	T	A	Ssp	Br	D	Y	Brbl	Vhil	3N
605826B	IV	D	W	G	A	N	Br	I	Y	Bf		3N
605839B	V	D	P	T	A	Ssp	Br	B	Bl	Bl		3N
605839C	V	D	P	T	A	N	Tn	I	Br	Rbr		3N
605840F	IV	D	P	T	A	N	Br	I	Y	Br		2N
605840G	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	2N
605841B	V	D	P	T	A	N	Br	D	Y	Bl		2N
605844D	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
605844E	IV	D	W	G	A	N	Br	I	Y	Bf		2N
605854B	V	S	W	T	A	N	Br	S	Y	Br		2N
605857B	V	D	W	T	A	N	Br	S	Y	Br		3N
605861A	VII	N	P	T	A	N	Tn	I	Gn	Brbl	Vhil	2N
605861B	V	D	W	T	A	N	Tn	I	Y	Br		3N
605862A	V	D	W	T	A	N	Br	S	Y	Br		2N
605862C	VI	D	W	T	A	N	Br	S	Y	Br		3N
605864	VI	D	W	T	Sa	N	Tn	D	Y	Br		3N
605865B	V	D	W	T	A	N	Br	I	Y	Br		2N
605868	V	D	P	G	A	N	Br	I	Y	Bf		2N
605870A	V	D	P	T	A	N	Tn	I	Y	Br		2N
605870B	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605871B	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605871C	VI	D	P	G	A	N	Br	I	Y	Bf		2N
605876B	VI	D	P	T	A	Ssp	Br	B	Bl	Bl	Flk	2N

Table 3.6 Agronomic data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
605767B	821	1109	3.0	120	1.5	-	3.2*	2.0	14.5*	1.25*
605772	818	1108	4.0*	130	1.0	1.0^	3.0	3.0*	10.4*	0.73*
605773	706	925	3.5	112	2.0	3.5	2.0	1.0	15.2	2.11
605774	704	925	3.5	92*	2.0	3.5	2.2	1.5	14.8	2.16
605778A	818	1104	3.5	150	1.0	1.5	3.5*	2.5	11.6*	1.03*
605778B	820	1029	4.0	160*	1.0	1.5	3.2	3.0	10.5	0.90*
605779B	826	1029	4.0	135	1.0	2.0*	2.8	3.0	9.9	1.54*
605779C	821	1031	4.5	135*	1.5	1.5	2.8	--	10.7*	0.80*
605781C	818	1017	4.5	152	1.0	1.0	2.5	2.5	8.2	1.54*
605781D	704	923	4.0	102	2.0	3.0	2.0	2.0	14.8	1.88
605781E	821	1021	4.0	160*	1.0	1.5	3.0	2.5	8.2	0.84*
605783	826	1106	3.5	119*	1.0	1.0	3.5	2.5	8.6	1.27*
605785	818	1023	4.0	148*	1.0	1.5	2.8	2.5	9.8	1.29
605786A	825	1101	4.0	115*	1.0	1.5	2.8*	2.5	10.0*	1.34*
605786D	819	1104	3.5	120*	1.5	1.5	3.2*	2.5	11.4*	1.04*
605787A	822	1104	4.0	162*	1.5	1.5	3.0	2.5	9.9*	1.44*
605787C	826	1104	3.5	170*	1.0	1.5	3.5	4.0	10.0	1.04*
605787D	820	1031	4.0	200	1.0	1.0	3.5	3.0	10.0*	1.29*
605790	707	1001	2.5	98	2.0	2.0^	2.2	2.0	14.2	1.79*
605809B	705	918	3.5	85	1.0	3.0	2.2*	2.5	8.9	1.85
605812	706	927	3.5	100	1.0	2.5	2.5	1.5	16.2	2.40*
605814	720	1007	4.0	135	1.0	1.0	2.2	2.5	10.0	0.69
605817C	717	1013	3.5	112*	1.5	2.5	2.5	2.0	9.4	1.21
605817D	701	919	3.0	82*	2.0	3.0	2.2	1.5	15.8	2.73*
605826B	701	911	3.5	91*	1.0	2.5	2.5*	1.5	9.8	1.84*
605839B	711	914	4.0	91	1.0	2.0	2.5	--	13.0	2.16
605839C	707	919	3.5	100*	2.0^	3.0	2.2	--	12.6	1.88*
605840F	628	907	2.5	74	1.0	3.0	2.8*	2.0	9.6	1.77
605840G	628	911	3.5	85	1.5	3.0	2.5	2.0*	11.4	1.67
605841B	701	917	3.5	96	1.0	2.0	3.0	2.0	17.0	3.25*
605844D	628	913	3.0	78	1.0	2.0	2.5	2.0	10.4	1.92
605844E	701	912	3.5	77	1.0	2.5	2.5*	1.5	9.6	1.70
605854B	701	925*	3.5	112*	1.0	3.0	2.0	2.0	11.8	2.11
605857B	630	925	4.0	95*	1.0	2.5	1.8	2.0	12.4	1.86*
605861A	814	1021	4.0	126*	1.0	2.0^	2.5	1.5	15.8*	1.24*
605861B	703	923	4.0	92*	1.0	3.0	1.8	2.0	11.4	2.29
605862A	703	926	3.5	112	1.0	3.0	2.2	1.5	11.8	2.13*
605862C	630	1001	3.5	98	2.5	3.5	2.0	2.0	12.2	1.56*
605864	711	1003	3.0	96*	2.0	3.0^	2.2	2.5	14.3	1.79*
605865B	630	927	4.0	106	1.0	3.0	1.8	2.0	12.2	2.08
605868	710	929	3.0	105*	2.0	3.5	2.0	2.0	7.6	1.65
605870A	705	929	3.0	115	2.0	3.5	2.2	2.0	10.7	1.70*
605870B	703	921	2.5	91*	2.5	3.0	2.8	1.5	14.8	1.70*
605871B	703	921	4.0	92	2.5	3.5	2.5	2.5	13.8	1.10*
605871C	712	1003	3.0	97	2.5	3.0	1.8	2.0	7.6	1.21
605876B	707	1001	3.5	96	2.5	3.5	2.2	--	11.0	1.28

Table 4.6. Seed composition data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
605767B	VIII	47.5	15.2	10.7	4.0	28.1	50.0	7.3
605772	VIII	45.1 <sup>w</sup>	14.4 <sup>w</sup>	12.6	4.3	22.4	53.5	7.2
605773	V	50.5	15.9	13.2	2.7	21.2	55.7	7.3
605774	V	49.4	15.7	12.7	2.9	20.9	56.5	7.0
605778A	VIII	47.0	13.4	12.5	2.8	22.5	54.9	7.3
605778B	VIII	52.8	12.9	12.3	2.8	23.4	53.1	8.4
605779B	VIII	45.1 <sup>w</sup>	15.3 <sup>w</sup>	11.5	3.3	23.5	54.0	7.6
605779C	VIII	44.9 <sup>w</sup>	13.6 <sup>w</sup>	11.7	3.0	22.3	58.3	4.6
605781C	VII	45.2 <sup>w</sup>	14.2 <sup>w</sup>	12.9	2.7	22.1	54.6	7.6
605781D	V	50.6	15.4	13.2	2.8	19.7	56.7	7.5
605781E	VII	45.8 <sup>w</sup>	13.2 <sup>w</sup>	11.5	3.0	21.8	54.8	8.9
605783	VIII	45.2	13.5	12.5	3.0	22.2	54.4	7.8
605785	VII	46.3	14.5	12.0	3.3	23.3	54.3	7.1
605786A	VIII	44.1	14.8	12.5	2.7	21.9	54.4	8.6
605786D	VIII	45.8	13.9	12.6	2.9	22.9	53.7	8.0
605787A	VIII	45.3	15.5	11.5	3.3	24.7	53.5	7.1
605787C	VIII	45.7 <sup>w</sup>	13.0 <sup>w</sup>	10.7	3.8	24.5	56.5	4.6
605787D	VIII	43.0	13.5	12.6	3.4	21.8	58.1	4.0
605790	VI	46.0	17.7	12.9	2.7	23.7	54.4	6.4
605809B	V	45.6	16.8	13.2	2.7	28.8	49.7	5.6
605812	V	44.7	17.6	13.0	2.3	32.8	45.5	6.5
605814	VI	46.6	16.2	14.7	3.6	21.2	53.6	6.9
605817C	VI	44.8	16.3	14.4	3.3	16.7	58.4	7.1
605817D	V	42.1	20.3	11.9	2.6	23.3	56.4	5.9
605826B	IV	47.0	16.6	13.2	2.9	24.5	53.0	6.4
605839B	V	43.5 <sup>w</sup>	17.4 <sup>w</sup>	11.4	2.4	28.9	51.1	6.1
605839C	V	43.6 <sup>w</sup>	17.0 <sup>w</sup>	10.9	2.3	28.8	51.7	6.2
605840F	IV	46.2	17.3	13.1	2.9	19.6	57.0	7.3
605840G	IV	44.9	17.5	12.8	2.8	27.1	51.4	6.0
605841B	V	41.8	20.7	14.2	2.7	21.4	56.0	5.7
605844D	IV	44.8	18.1	12.9	2.6	26.6	52.2	5.7
605844E	IV	41.9	20.0	12.9	2.8	24.6	53.9	5.8
605854B	V	46.4	16.9	12.5	3.3	23.8	54.8	5.7
605857B	V	46.7	16.8	11.8	3.0	22.8	56.6	5.8
605861A	VII	46.3 <sup>w</sup>	16.1 <sup>w</sup>	17.0	5.2	24.6	45.0	8.3
605861B	V	46.7	17.5	12.4	2.9	21.8	56.6	6.3
605862A	V	46.8	16.9	12.0	2.9	26.6	53.2	5.2
605862C	VI	45.7	16.9	12.1	2.9	24.3	54.8	6.0
605864	VI	45.6	17.7	12.9	2.7	20.5	57.4	6.5
605865B	V	46.8	17.1	13.0	2.9	23.7	54.6	5.8
605868	V	48.2	16.2	13.4	3.0	23.1	54.5	6.0
605870A	V	46.1	15.7	13.7	2.4	24.8	52.7	6.4
605870B	V	47.1	17.6	13.7	2.8	27.7	49.9	5.9
605871B	V	45.7	17.9	12.9	2.2	30.3	49.2	5.3
605871C	VI	47.7	15.5	12.6	3.2	25.3	53.3	5.6
605876B	VI	45.3 <sup>w</sup>	16.8 <sup>w</sup>	11.7	3.0	31.2	48.7	5.5

Table 1.6 Identification and origin information for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

PI No.	Accession identifier	Region of origin	Country of origin	Country of acquisition	Year introduced or released	Maturity group
605876C		Lao cai	Vietnam	Vietnam	1998	VII
605877C		Lao cai	Vietnam	Vietnam	1998	VI
605877E		Lao cai	Vietnam	Vietnam	1998	V
605877F		Lao cai	Vietnam	Vietnam	1998	V
605884A		Lao cai	Vietnam	Vietnam	1998	V
605884F		Lao cai	Vietnam	Vietnam	1998	V
605886E		Lao cai	Vietnam	Vietnam	1998	V
605888		Lao cai	Vietnam	Vietnam	1998	VI
605889		Son la	Vietnam	Vietnam	1998	VII
605891A		Son la	Vietnam	Vietnam	1998	V
605891B		Son la	Vietnam	Vietnam	1998	VI
605891C		Son la	Vietnam	Vietnam	1998	VI
605895		Son la	Vietnam	Vietnam	1998	VIII
605906		Hoa binh	Vietnam	Vietnam	1998	VIII
605909C	(Dian feng No. 1)	Heilongjiang	China	China	1998	VI
606362	AK 05	(north)	Vietnam	Vietnam	1998	V
606366	Bach thong	(north)	Vietnam	Vietnam	1998	VIII
606367	Bien hoa	(north)	Vietnam	Vietnam	1998	VIII
606375	Chi lang	(north)	Vietnam	Vietnam	1998	VIII
606376	Chu se	(north)	Vietnam	Vietnam	1998	V
606411	Ninh hoa	(north)	Vietnam	Vietnam	1998	VIII
606414	Phuc sen	(north)	Vietnam	Vietnam	1998	VIII
606419	Sa thay	(north)	Vietnam	Vietnam	1998	VIII
606431	Tuy an	(north)	Vietnam	Vietnam	1998	VIII
606432A	V 74	(north)	Vietnam	Vietnam	1998	V
606432B	(V 74)	(north)	Vietnam	Vietnam	1998	V

Table 2.6. Descriptive data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated.

Entry	Maturity group	Stem term.	Flower color	Pubescence			Pod color	Seedcoat		Hilum color	Other traits	Seed shape
				Color	Form	Density		Luster	Color			
605876C	VII	D	P	T	A	N	Br	I	Gn	Br		2N
605877C	VI	N	W	G	A	N	Br	I	Y	Bf		2N
605877E	V	D	W	T	A	N	Tn	D	Y	Brbl	Vhil	3N
605877F	V	N	P	G	A	N	Br	I	Y	Bf		2N
605884A	V	D	P	T	A	Ssp	Br	I	Y	Br		3N
605884F	V	D	P	T	A	Ssp	Tn	I	Lgn	Br		2N
605886E	V	D	W	G	Va	N	Br	I	Y	Bf		2N
605888	VI	D	W	T	A	N	Br	S	Y	Tn		2N
605889	VII	N	P	T	A	N	Tn	I	Gn	Brbl	Vhil	2N
605891A	V	D	W	T	A	N	Br	I	Y	Br		2N
605891B	VI	S	W	T	A	N	Br	I	Y	Br		3N
605891C	VI	N	P	T	A	N	Tn	I	Gn	Brbl	Vhil	2N
605895	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605906	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
605909C	VI	D	W	T	E	N	Br	I	Lgn	Br	Na	2N
606362	V	D	W	T	A	N	Br	I	Y	Br		2N
606366	VIII	N	P	G	A	N	Tn	D	Y	Bf		3N
606367	VIII	N	P	G	A	N	Br	D	Y	Bf		2N
606375	VIII	D	P	G	A	N	Tn	I	Y	Bf		3N
606376	V	N	W	T	A	N	Br	I	Y	Br	Vhil	2N
606411	VIII	N	P	G	A	N	Tn	D	Y	Bf		4N
606414	VIII	N	P	G	A	N	Dbr	I	Y	Bf		4N
606419	VIII	N	P	G	A	N	Br	I	Y	Bf		2N
606431	VIII	N	P	G	A	N	Tn	I	Y	Bf		3N
606432A	V	D	W	T	A	Ssp	Br	I	Y	Br		2N
606432B	V	D	W	T	A	N	Tn	I	Y	Br		2N

Table 3.6 Agronomic data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Flowering	Maturity	Lodging	Height	Shattering		Seed			
	date	date			early	late	Quality	Mottling	Weight	Yield
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg sd <sup>-1</sup> )	(Mg ha <sup>-1</sup> )
605876C	719	1025	3.5	130*	1.0	3.0^	2.2	2.5	11.2	0.69
605877C	715	1007	3.5	155*	2.0	3.0	2.2	1.0	10.6	1.56*
605877E	703	914	3.5	95*	2.0*	3.0*	2.8*	1.0	9.3	1.09*
605877F	709	923	3.5	101*	1.0	1.5	2.0	1.0	9.4	2.23
605884A	703	921	3.5	88	2.5	3.0	2.8	2.0	12.6	1.74
605884F	703	919	4.0	100	2.0	3.0	2.2	2.0	16.2	2.45*
605886E	711	923	3.0*	102	1.0	2.5	2.0	1.5	9.4	2.30*
605888	710	1009	3.5	82*	2.0*	2.0*	2.2*	2.5	15.8	1.74*
605889	814	1021	4.0	140*	1.0	1.5	2.2	2.0	13.6	1.03
605891A	701	927*	4.0	108	2.0	2.5	2.0	2.0	12.0	2.30
605891B	707	1002	4.0	92*	2.0	2.0	1.8	2.0	10.6	1.70*
605891C	810	1020	4.0	165*	1.0	1.0	2.2	1.0	13.4	1.08
605895	817	1031	4.0	165*	1.0	2.0^	3.0	2.5	12.1*	1.07*
605906	828	1108	4.0	185*	1.0	1.5	3.0	4.0	11.1*	0.78*
605909C	711	1013	1.5	66*	2.0^	2.0^	2.5	2.5	11.1	1.30*
606362	707	921	4.0	110*	2.5	3.0*	1.8	1.5	12.8	2.07*
606366	821	1029	4.0	190*	1.5	2.5	2.8	2.0	10.4	1.29*
606367	816	1026	4.5	158	1.0	3.0^	2.2	2.5	9.0	0.60
606375	822	1102	3.0	115*	1.0	2.0*	2.8	4.0*	12.8	1.12*
606376	710	921	4.0	122	2.0	3.5	2.0	1.5	13.0	2.16*
606411	820	1101	4.0	125*	1.5	2.0*	3.5	3.0	12.5	1.08*
606414	820	1029	4.0	200	1.5	2.0*	3.0	2.5	10.8	1.20*
606419	815	1026	4.0	178*	1.5	3.5	2.8*	3.0	8.4	0.67
606431	820	1104	4.0	140*	1.5	1.5	2.8	2.5	12.5	0.87*
606432A	704	923	4.0	100*	1.0	2.0	2.0	1.5	11.8	1.78*
606432B	703	919	4.0	95	2.0	3.0	2.2	2.0	12.5	2.08*



Table 4.6. Seed composition data for USDA soybean germplasm in maturity groups VI to VIII, PI 597465 to PI 606432B plus earlier accessions not previously evaluated, grown at Stoneville, MS in 2001 and 2003.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
605876C	VII	47.6 <sup>w</sup>	15.7 <sup>w</sup>	11.6	3.3	26.4	52.6	6.1
605877C	VI	49.0	16.0	13.7	2.5	24.3	53.8	5.8
605877E	V	48.4	15.9	14.1	4.1	23.0	53.0	5.9
605877F	V	46.1	16.6	14.3	2.7	22.3	54.3	6.3
605884A	V	46.2	17.8	13.4	2.4	27.3	51.3	5.6
605884F	V	43.1 <sup>w</sup>	18.9 <sup>w</sup>	11.0	2.3	35.3	46.3	5.0
605886E	V	46.3	16.7	14.1	2.8	21.2	54.0	7.8
605888	VI	48.9	13.9	15.0	2.9	22.0	53.2	6.9
605889	VII	45.9 <sup>w</sup>	16.9 <sup>w</sup>	12.3	3.4	25.4	51.6	7.3
605891A	V	47.0	16.8	12.6	2.8	25.1	53.8	5.6
605891B	VI	45.5	17.5	11.9	2.7	29.7	50.4	5.2
605891C	VI	43.7 <sup>w</sup>	17.0 <sup>w</sup>	12.6	3.7	25.5	51.3	6.9
605895	VIII	46.6	13.9	11.8	3.3	24.2	53.3	7.4
605906	VIII	47.8 <sup>w</sup>	12.7 <sup>w</sup>	16.5	5.2	22.9	48.2	7.2
605909C	VI	43.8 <sup>w</sup>	17.6 <sup>w</sup>	10.8	4.1	21.4	55.9	7.8
606362	V	47.6	16.8	12.6	2.6	20.5	57.9	6.4
606366	VIII	45.4	14.8	12.9	3.2	25.3	51.8	6.8
606367	VIII	46.9	16.1	11.0	4.2	32.8	44.0	8.1
606375	VIII	46.4 <sup>w</sup>	15.1 <sup>w</sup>	10.8	4.0	25.7	52.7	6.7
606376	V	48.0	16.8	13.3	2.6	19.4	58.4	6.3
606411	VIII	48.6	13.6	12.3	3.5	24.7	52.5	7.0
606414	VIII	50.4	13.0	12.8	2.7	21.4	57.8	5.3
606419	VIII	47.0	15.5	11.0	4.4	33.3	43.6	7.7
606431	VIII	46.5	13.7	11.6	3.5	32.9	46.1	6.1
606432A	V	46.7	17.3	13.1	3.1	24.6	53.9	5.4
606432B	V	47.4	17.2	13.3	2.7	21.5	56.4	6.1