



**United States
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Agriculture**

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Evaluation of the USDA Soybean Germplasm Collection: Maturity Groups 000-IV (PI 578371-PI 612761)

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Evaluation of the USDA Soybean Germplasm Collection: Maturity Groups 000-IV (PI 578371-PI 612761)

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Abstract

E.K. Peregrine, G.L. Sprau, C.R. Cremeens, R.L. Nelson, J.H. Orf, and D.A. Thomas. 2008. Evaluation of the USDA Soybean Germplasm Collection: Maturity Groups 000-IV (PI 578371-PI 612761). U.S. Department of Agriculture, Technical Bulletin No. 1919, 155 pp.

This publication contains information on the origin, descriptive characteristics, agronomic performance, and seed composition of soybean (*Glycine max* (L.) Merrill) germplasm accessions in maturity groups 000-IV from the USDA Soybean Germplasm Collection that were primarily introduced into the United States between 1993 and 2000. The accessions included in this publication were evaluated in 2001 and 2002 in Rosemount, MN (Lat. 45° 02' N, for MG 000-I) and Urbana, IL (Lat. 40° 00' N, for MG I-IV).

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.

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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 initially classified in maturity groups 000 through IV in the range from PI 578371 to PI 612761, plus some accessions that were omitted from earlier publications. 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 2001 and 2002 in Rosemount, Minnesota (Lat. 45° 02' N, for MG 000-I) and Urbana, Illinois (Lat. 40° 00' N, for MG I-IV). Accessions are listed with the evaluation in which they were planted, regardless of which maturity group they were placed in following evaluation. All tests were replicated once per year. Specific comments about each evaluation follow.

MG 000 - I evaluation (Minnesota)

Planting dates were June 8, 2001, and May 28, 2002. Plots were 3.6 m long with 4 rows 76 cm apart. Plots were trimmed to 2.4 m after maturity and the middle two rows harvested. Because of the difference in planting date, plants matured an average of six days later in 2001 than in 2002. Growing conditions in 2001 were hot and dry, while 2002 was wet most of the growing season. As a result, seed size and yield in 2002 was generally greater than in 2001.

MG I - IV evaluation (Illinois)

Planting dates were May 4, 2001, and May 27, 2002. Plots were 4 m long with 4 rows 76 cm apart. They were trimmed to 2.4 m after maturity and the middle two rows harvested. Accessions initially classified as maturity group I were stunted by herbicide damage and were not harvested in 2002.

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 was 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, except chemical data from the Urbana, IL, location for maturity group I are for 2001 only. Where only one observation was used, that value is followed by a caret (^). 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:

Flowering Date	>14 days
Maturity Date	>14 days
Lodging	>1 unit
Height	>15 cm
Stem termination	>1 unit
Shattering	>1 unit
Seed quality	>1 unit
Seed mottling	>1 unit
Seed weight	>4.0 cg sd ⁻¹
Yield	>1.0 Mg ha ⁻¹

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.

Missing data are indicated by a single dash (-).

Table 1

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 sblines

were preserved and are distinguished by 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. In some cases, the region listed may be the source of the seeds and not the origin of the accession.

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 data collected at Urbana, IL, and in some cases modified by data from Rosemount, MN.

Table 2

Stem termination:

D = determinate (stem termination score < 2.0)

N = indeterminate (stem termination score >= 2.5)

S = semi-determinate (stem termination score >= 2.0 and < 2.5)

Flower color

B = blue

P = purple

Dp = dark purple

W = white

Pubescence color

T = tawny

Lt = light tawny

G = gray

Ng = near gray

Pubescence form

A = appressed on leaf surface

E = erect on leaf surface

Sa = semiappressed on leaf surface

Va = very appressed on leaf surface

Pubescence density

G = glabrous

N = normal density

Sp = sparse

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

Sdn = semidense

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

Gnbr = green brown

Ib = imperfect black

Ig = imperfect gray

Rbf = red buff

Rbr = red brown

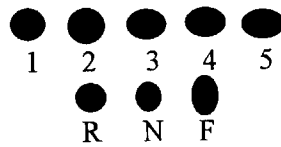
Tn = tan

Y = yellow

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

Dab = delayed abscissions of leaves

Def = defective seedcoat (irregular splitting of the seedcoat)

Flk = brown flecks on black seedcoat

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

Lft5 = 5 leaflets frequent

Na = narrow leaflet

Sw = semi-wild

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.

Stem termination

Scored 1 (very determinate) to 5 (very indeterminate).

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.

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Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
	Alpha	Minnesota	United States	United States	1992	I
	Barnes	North Dakota	United States	United States	2000	0
	Council	North Dakota	United States	United States	1994	0
	Daksoy	North Dakota	United States	United States	1998	00
	Danatto	North Dakota	United States	United States	1996	0
	Faribault	Minnesota	United States	United States	1994	I
	Freeborn	Minnesota	United States	United States	1995	I
	Glacier	Minnesota	United States	United States	1995	00
	Granite	Minnesota	United States	United States	1995	I
	Harlon	Ontario	Canada	Canada	1974	I
	Hendricks	Minnesota	United States	United States	1994	0
	Jim	North Dakota	United States	United States	1998	00
	Maple Presto	Ontario	Canada	Canada	1979	000
	MN0201	Minnesota	United States	United States	2001	0
	MN0301	Minnesota	United States	United States	1998	0
	MN0302	Minnesota	United States	United States	2001	0
	MN0901	Minnesota	United States	United States	2000	0
	MN0902CN	Minnesota	United States	United States	2001	0
	MN1301	Minnesota	United States	United States	1998	I
	MN1302	Minnesota	United States	United States	2001	I
	MN1401	Minnesota	United States	United States	2000	I
	MN1801	Minnesota	United States	United States	2000	I
	NE1900	Nebraska	United States	United States	2000	I
	Norpro	North Dakota	United States	United States	1998	0
	OAC Vision	Ontario	Canada	Canada	1991	000
	Sargent	North Dakota	United States	United States	2001	0
	Stride	South Dakota	United States	United States	1997	I
	Sturdy	Minnesota	United States	United States	1989	II
	Surge	South Dakota	United States	United States	1997	0
	Titan	Michigan	United States	United States	1999	I
	Toyopro	Minnesota	United States	United States	1995	0
	Traill	North Dakota	United States	United States	1997	0
	UM3	Minnesota	United States	United States	2000	0
	Walsh	North Dakota	United States	United States	2001	0
342619A		Primorye	Russia	Russia	1969	0
342619B		Primorye	Russia	Russia	1969	0
468904		Jilin	China	China	1982	0
468906		Jilin	China	China	1982	0
468907		Jilin	China	China	1982	I
468908		Jilin	China	China	1982	000
468909		Jilin	China	China	1982	0
468910		Jilin	China	China	1982	0
468911		Jilin	China	China	1982	00
468912		Jilin	China	China	1982	00
468913		Jilin	China	China	1982	000
483459		Jilin	China	China	1984	I
504483A	Huang pau tsu	unknown	Taiwan	Taiwan	1986	00

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
Alpha	I	N	P	T	E	N	Tn	I	Y	Y		2N
Barnes	0	N	P	G	E	N	Br	I	Y	Y		3N
Council	0	N	P	G	E	N	Br	I	Y	Y		2N
Daksoy	00	N	P	G	E	N	Tn	D	Y	Y		3N
Danatto	0	N	P	G	E	N	Tn	I	Y	Y		2N
Faribault	I	N	W	G	E	N	Tn	D	Y	Bf		2N
Freeborn	I	N	W	T	E	N	Br	D	Y	Bl		2N
Glacier	00	N	P	T	E	N	Br	I	Y	Y		2N
Granite	I	N	P	G	E	N	Br	D	Y	G		2N
Harlon	I	N	W	G	E	N	Br	D	Y	Y		2N
Hendricks	0	N	P	G	E	N	Br	D	Y	Y		2N
Jim	00	N	P	G	E	N	Br	I	Y	Y		3N
Maple Presto	000	N	P	T	E	Ssp	Br	I	Y	Tn		2N
MN0201	0	N	P	T	E	N	Br	I	Y	Y		2N
MN0301	0	N	P	G	E	N	Br	I	Y	Y		2N
MN0302	0	N	P	G	E	N	Tn	I	Y	Bf		3N
MN0901	0	N	W	G	E	N	Br	I	Y	Y		3N
MN0902CN	0	N	W	T	E	N	Br	I	Y	Y		2N
MN1301	I	N	W	G	E	N	Br	D	Y	Y		3N
MN1302	I	N	P	G	E	N	Br	I	Y	Bf		3N
MN1401	I	N	P	T	E	N	Tn	D	Y	Bl		3N
MN1801	I	N	P	G	E	N	Br	I	Y	Bf		2N
NE1900	I	N	W	G	E	N	Br	D	Y	Y		2N
Norpro	0	N	P	G	E	N	Br	D	Y	Y		3N
OAC Vision	000	N	P	T	E	N	Br	D	Y	Tn		3N
Sargent	0	N	W	G	E	N	Br	I	Y	Y		3N
Stride	I	N	P	G	E	N	Br	I	Y	Ib		3N
Sturdy	II	N	P	G	E	N	Br	S	Y	Ib		2N
Surge	0	N	P	G	E	N	Br	I	Y	Ib		3N
Titan	I	N	P	T	E	N	Br	D	Y	Bl		3N
Toyopro	0	N	P	G	E	N	Br	I	Y	Y		2N
Traill	0	N	P	T	E	N	Br	I	Y	Y		2N
UM3	0	S	W	T	E	N	Tn	I	Y	Y		2N
Walsh	0	N	P	G	E	N	Br	I	Y	Y		2N
342619A	0	N	P	T	A	N	Br	B	Bl	Bl	Flk,Sw	4N
342619B	0	N	P	T	A	N	Br	B	Bl	Bl	Flk,Sw	4N
468904	0	N	P	T	Va	Ssp	Br	I	Bl	Bl	4sd,Na,Sw	4N
468906	0	N	P	T	Va	Ssp	Br	I	Bl	Bl	Na,Sw	4N
468907	I	N	W	T	Sa	N	Br	B	Bl	Bl	4sd,Flk,Sw	2N
468908	000	N	W	T	E	N	Br	B	Bl	Bl	Na,Sw	3N
468909	0	N	P	T	A	Ssp	Br	I	Bl	Bl	Na,Sw	4N
468910	0	N	P	Lt	E	N	Br	B	Bl	Bl	Na,Sw	3N
468911	00	N	P	T	A	N	Br	I	Bl	Bl	Na,Sw	4N
468912	00	N	P	T	Va	Ssp	Br	B	Bl	Bl	4sd,Na,Sw	3N
468913	000	N	P	Ng	A	N	Br	I	Br	Br	Sw	4N
483459	I	N	P	T	A	Sp	Br	I	Bl	Bl	Flk,Sw	4N
504483A	00	N	P	G	E	N	Br	I	Y	Y		2N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
Alpha	714^	1001^	3.0^	61^	3.0^	2.0^	1.5^	1.0^	17.7^	1.40^
Barnes	714^	910^	2.0^	74^	2.0^	2.0^	2.5^	1.0^	12.7^	1.34^
Council	711	915	2.5	76	2.5	1.0^	2.5	1.0	14.5*	2.06
Daksoy	709	906	2.5	77	3.0	2.0^	2.3	1.0	13.1	1.83
Danatto	715	913	3.5	68	2.0	1.0^	2.3	1.5	8.3	1.88*
Faribault	721	923	2.0	85	2.5	1.0^	2.0	1.0	12.5	2.24*
Freeborn	715	928	2.0	84	2.5	2.0^	1.5	1.0	17.3	2.26*
Glacier	709	907	2.5	74	3.0	2.0^	2.5	1.0	13.2	1.96*
Granite	711	930	2.5	92	2.5	1.0^	2.0	1.0	17.6	2.50*
Harlon	714	919	2.0	95	3.0	1.0	2.0	1.0	14.3	2.08
Hendricks	713	918	2.0*	73*	2.0	1.0	2.8	1.0	15.2	1.54
Jim	710	909	2.5	78	3.0	2.0^	2.3	1.0	14.8	2.09*
Maple Presto	705	828	1.0	56	3.0	3.5*	3.0	1.0	12.5	0.61
MN0201	711	909	2.0*	78	2.5	2.0^	1.8	1.0	12.4	1.97*
MN0301	707	910	2.0	86	2.5	2.0^	2.3	1.0	13.0	2.50*
MN0302	712	911	1.5	79	2.5	2.0^	1.8	1.0	13.0	2.23*
MN0901	711	920	2.5	74*	2.5	1.0	2.0	1.0	14.6	2.68*
MN0902CN	709	920	2.0*	81*	2.5	2.0^	1.8	1.5	11.9	1.84*
MN1301	711	923	2.0	85	2.5	1.0^	1.8	1.0	15.9	2.45*
MN1302	713	923	2.0	81	2.5	1.0^	2.0	1.0	17.5	2.64*
MN1401	713	921	2.0	93	2.5	1.0^	2.0	1.0	17.9*	2.38*
MN1801	713	929	2.0	91	2.5	1.0^	1.8	1.0	15.5	2.59*
NE1900	719	930	2.0*	74	2.5	1.0^	1.5	1.0	15.6	2.44*
Norpro	711	909	2.0	74	2.5	3.0^	2.0	1.0	14.8*	1.79*
OAC Vision	707	901	2.0	63	3.0	3.0	2.5	1.0	15.6	0.36
Sargent	711	917	2.0	76	2.5	2.0^	1.5	1.0	15.6	2.51*
Stride	712	923	1.5	80	2.5	1.0^	1.5	1.0	16.1	2.53*
Sturdy	713	1001	2.5	93	2.5	1.0	1.8	1.0	17.3	2.58*
Surge	711	923	2.0	69	2.5	1.0^	2.3	1.0	17.4*	2.31*
Titan	713	1001	2.0	78	2.5	1.0^	1.8	1.5	16.9	2.43*
Toyopro	713	919	2.0	70*	2.5	1.0^	2.0	1.5	13.4	1.93*
Traill	708	907	1.5	70	2.5	2.0^	2.0	1.0	13.3	1.96*
UM3	711	907	2.0	55	1.0	1.0^	2.3	1.5	6.0	1.21*
Walsh	713	909	2.0	72	2.5	2.0^	2.3*	1.0	14.0	2.32*
342619A	719	915	5.0	41	5.0	5.0^	2.5	--	4.6	0.47
342619B	716	915	5.0	41*	5.0	5.0^	2.5	--	4.9	0.29
468904	723	910	5.0	44	5.0	5.0^	2.8	--	2.7	0.29
468906	728	919	5.0	49	5.0	2.0^	2.0^	--	3.8^	0.03^
468907	803	927	4.0	101*	5.0	2.0^	2.5	--	4.6	0.97
468908	711	901	4.5	14	5.0	5.0^	2.3	--	2.4	0.09
468909	723	913	5.0	50*	5.0	5.0^	2.5	--	2.7	0.33
468910	715	913	5.0	69*	5.0	3.0^	2.5	--	3.2	0.41
468911	719	903	5.0	41	5.0	5.0^	2.5	--	3.0	0.06
468912	718^	903	5.0	36	5.0	5.0^	2.5^	--	2.4^	0.04^
468913	714	831	5.0	45*	5.0	3.5	2.3	--	2.4	0.20
483459	731	923	4.5	54	4.5	3.0^	2.3	--	3.8	0.83
504483A	712	909	2.0	68	3.0	5.0^	2.3	1.0	18.5	1.08*

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
Alpha	I	42.0 [^]	16.4 [^]	10.4	2.2	18.0	57.1	12.3
Barnes	0	40.1 [^]	20.9 [^]	10.6	3.4	23.3	55.2	7.5
Council	0	40.0	19.5	10.6	3.6	22.3	54.7	8.8
Daksoy	00	41.6	18.5	10.3	3.3	22.0	55.7	8.7
Danatto	0	40.5	18.6	10.6	3.5	21.7	55.3	8.9
Faribault	I	38.7	20.3	11.1	3.7	21.1	54.4	9.7
Freeborn	I	40.8	19.2	10.1	3.1	23.1	55.0	8.6
Glacier	00	40.9	19.0	11.2	3.4	20.5	56.6	8.2
Granite	I	41.4	18.8	10.1	3.5	20.4	55.8	10.2
Harlon	I	39.8	20.0	11.2	2.8	23.8	52.7	9.4
Hendricks	0	41.5	19.1	11.7	3.5	19.2	56.8	8.7
Jim	00	41.6	18.5	10.5	3.2	21.4	56.2	8.8
Maple Presto	000	40.1	21.7	10.4	3.1	35.9	44.8	5.8
MN0201	0	42.8	19.1	11.0	3.4	21.1	55.6	8.9
MN0301	0	40.3	19.6	10.5	3.8	21.4	55.8	8.5
MN0302	0	40.3	19.2	10.8	3.4	20.9	56.0	8.9
MN0901	0	39.6	21.0	10.2	3.6	22.0	55.6	8.5
MN0902CN	0	42.6	18.5	11.2	3.9	22.9	54.7	7.2
MN1301	I	40.7	19.5	10.8	3.8	23.8	53.2	8.3
MN1302	I	39.2	19.2	10.7	3.7	19.2	57.0	9.5
MN1401	I	41.4	19.4	10.4	3.7	20.9	55.9	9.1
MN1801	I	40.8	19.1	11.8	3.6	19.8	55.8	9.1
NE1900	I	40.1	18.5	11.6	3.8	22.5	53.0	9.0
Norpro	0	44.0	18.3	11.5	3.3	22.4	54.1	8.6
OAC Vision	000	43.0	19.9	12.0	3.1	22.0	53.6	7.7
Sargent	0	40.8	20.7	10.1	3.9	24.4	53.9	7.7
Stride	I	38.1	20.5	11.2	3.7	22.1	54.5	8.5
Sturdy	II	40.6	19.0	10.0	3.3	23.9	54.4	8.5
Surge	0	41.5	20.4	11.1	3.8	23.7	54.0	7.4
Titan	I	38.3	19.4	11.3	3.3	20.8	55.9	8.6
Toyopro	0	45.9	16.7	10.8	3.8	20.6	55.9	8.9
Traill	0	41.6	19.1	10.9	4.2	22.5	53.8	8.5
UM3	0	40.7	18.1	11.6	3.5	16.8	57.1	11.0
Walsh	0	41.5	19.4	11.5	3.6	21.1	54.8	9.1
342619A	0	53.9 ^w	13.3 ^w	10.1	3.2	12.2	61.4	13.1
342619B	0	49.1 ^w	14.3 ^w	10.2	3.6	13.0	60.6	12.5
468904	0	54.5 ^w	9.5 ^w	10.3	2.9	11.9	56.8	18.1
468906	0	46.1 ^{w^}	11.6 ^{w^}	11.8	2.7	11.8	58.9	14.8
468907	I	55.4 ^w	11.7 ^w	10.7	3.0	11.2	59.6	15.6
468908	000	53.1 ^{w^}	12.7 ^{w^}	10.3	3.7	15.6	56.4	13.9
468909	0	54.4 ^w	11.0 ^w	10.5	2.8	12.5	57.9	16.4
468910	0	53.3 ^w	12.5 ^w	9.0	2.8	14.5	57.7	15.9
468911	00	52.1 ^w	9.7 ^w	10.5	3.1	13.4	56.0	17.0
468912	00	47.6 ^{w^}	12.6 ^{w^}	10.8	3.5	15.4	57.0	13.4
468913	000	52.6 ^w	9.8 ^w	11.9	2.7	11.3	58.3	15.8
483459	I	48.5 ^w	12.6 ^w	10.7	2.6	12.2	58.6	15.9
504483A	00	42.5	18.2	11.4	3.4	21.2	55.4	8.6

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
504483B	(Huang pau tsu)	unknown	Taiwan	Taiwan	1986	I
504484	Hua yen	unknown	Taiwan	Taiwan	1986	I
504485	Ho ko tao (Mikawshima)	unknown	Japan	Taiwan	1986	I
504492	Tien kuan ou yuan	unknown	Taiwan	Taiwan	1986	00
504494	Shan ho tao	unknown	Taiwan	Taiwan	1986	I
504499	Ta li tsao shen wu tou	unknown	Taiwan	Taiwan	1986	000
504502	Ou yuan tsao shen	unknown	Taiwan	Taiwan	1986	I
504506		unknown	China	Taiwan	1986	0
507704B	(Tercinskaja 24)	unknown	Ukraine	Russia	1987	000
549077	Jui feng No. 1	unknown	China	China	1990	0
561233A		Beijing	China	China	1991	I
561282A	Yantarnaya	Voronezh	Russia	Russia	1991	00
561282E	(Yantarnaya)	Voronezh	Russia	Russia	1991	00
578371	Aai hui ben di zhong	Heilongjiang	China	China	1993	0
578372	Aan da 37-1	Heilongjiang	China	China	1993	0
578373	An da bai mei	Heilongjiang	China	China	1993	0
578374	Aan tu bai hua lu da dou	Jilin	China	China	1993	I
578375A	Aan tu dang di hei dou	Jilin	China	China	1993	0
578375B	(Aan tu dang di hei dou)	Jilin	China	China	1993	I
578377	Aan tu niu mao huang	Jilin	China	China	1993	0
578380A	Bai qi	Heilongjiang	China	China	1993	I
578381	Bai qi kuai dou	Heilongjiang	China	China	1993	0
578382	Bai qi xiao jin huang	Heilongjiang	China	China	1993	I
578384	Bai tie jia qing	Liaoning	China	China	1993	I
578385	Bao qing xiao jin huang	Heilongjiang	China	China	1993	I
578386	Bao xian dou	Heilongjiang	China	China	1993	I
578387	Bei feng No. 3	Heilongjiang	China	China	1993	000
578388A	Bei man 217	Heilongjiang	China	China	1993	0
578388B	(Bei man 217)	Heilongjiang	China	China	1993	I
578389	Bei man 41	Heilongjiang	China	China	1993	0
578391	Bian da li	Jilin	China	China	1993	0
578392A	Cai zhong pu	Jilin	China	China	1993	I
578393	Feng shou 11	Heilongjiang	China	China	1993	000
578394	Feng shou 11 xuan	Jilin	China	China	1993	0
578395	Feng shou 12	Heilongjiang	China	China	1993	I
578396	Feng shou 13	Heilongjiang	China	China	1993	0
578397	Feng shou 14	Heilongjiang	China	China	1993	00
578398	Feng shou 15	Heilongjiang	China	China	1993	00
578400	Fu dou	Jilin	China	China	1993	I
578401A	Fu shou	Liaoning	China	China	1993	I
578401B	(Fu shou)	Liaoning	China	China	1993	I
578401C	(Fu shou)	Liaoning	China	China	1993	I
578404	Gong jiao 5601-1	Jilin	China	China	1993	0
578407	Gong jiao 5610-2	Jilin	China	China	1993	I
578408	Gong jiao 5610-3	Jilin	China	China	1993	I
578409A	Gong jiao 5919-1	Jilin	China	China	1993	I
578415	Guan shi suo da dou	Heilongjiang	China	China	1993	0

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
504483B	I	D	P	G	E	N	Br	I	Y	Y		2N
504484	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504485	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504492	00	D	P	T	Sa	Ssp	Br	I	Y	Br		2N
504494	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504499	000	D	W	T	Sa	N	Br	D	Bl	Bl		2N
504502	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
504506	0	S	P	G	E	N	Br	I	Y	Y		2N
507704B	000	N	P	T	E	N	Br	S	Y	Br		3N
549077	0	D	P	G	E	N	Br	I	Y	Y	Sna	2N
561233A	I	N	W	G	E	Ssp	Br	I	Y	Y		1N
561282A	00	D	P	T	E	N	Br	D	Y	Bl		2N
561282E	00	D	P	T	E	Ssp	Br	I	Y	G		2N
578371	0	N	P	G	E	N	Br	S	Y	Y		2N
578372	0	N	P	G	E	N	Bl	I	Y	Ib		2N
578373	0	N	P	G	E	N	Br	I	Y	Y		2N
578374	I	D	W	T	E	Ssp	Bl	I	Gn	Tn	Gnc	2N
578375A	0	N	P	T	E	Ssp	Br	I	Bl	Bl		4N
578375B	I	N	P	T	E	Ssp	Br	I	Bl	Bl		3N
578377	0	N	P	T	E	Ssp	Br	D	Y	Br		3N
578380A	I	N	W	G	E	N	Br	I	Y	Y		2N
578381	0	N	P	Lt	E	Ssp	Br	I	Y	Y		2N
578382	I	D	P	G	E	N	Tn	I	Y	Y		2N
578384	I	D	W	G	E	Ssp	Dbr	I	Y	Y		2N
578385	I	N	P	T	E	N	Bl	I	Y	Br		2N
578386	I	S	W	G	E	N	Br	I	Y	Y		2N
578387	000	N	P	G	E	N	Br	I	Y	Y		2N
578388A	0	N	P	G	E	N	Br	I	Y	Y		2N
578388B	I	N	P	G	E	N	Br	I	Y	Y		2N
578389	0	N	P	G	E	N	Br	I	Y	Y		3N
578391	0	N	P	G	E	N	Br	I	Y	Bf		2N
578392A	I	N	W	G	E	Ssp	Br	S	Y	Y		2N
578393	000	N	W	G	E	Ssp	Br	I	Y	Y	Na	2N
578394	0	N	P	G	E	N	Br	I	Y	Y		2N
578395	I	N	W	G	E	N	Br	I	Y	Y		2N
578396	0	N	P	G	E	N	Br	I	Y	Y		2N
578397	00	N	W	G	E	N	Br	I	Y	Y	Na	2N
578398	00	N	W	G	E	N	Br	I	Y	Y		2N
578400	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
578401A	I	N	P	G	E	N	Tn	I	Y	Y		2N
578401B	I	N	W	G	E	N	Br	I	Y	Y		2N
578401C	I	N	P	G	E	N	Br	I	Y	Y		2N
578404	0	N	P	G	E	N	Br	I	Y	Y		2N
578407	I	N	W	G	E	N	Br	I	Y	Bf		2N
578408	I	N	W	G	E	N	Br	I	Y	Bf		2N
578409A	I	N	W	G	E	N	Br	I	Y	Lbf	Na	2N
578415	0	S	P	G	E	N	Br	I	Y	Y		3N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
504483B	712	921	1.5	49*	1.5	3.0^	2.5	1.5	17.5	1.47*
504484	725	924	2.0*	46	1.0	3.0^	2.3	1.0	24.7	1.52
504485	723	921*	1.5	41	1.0	5.0^	2.5	1.0	22.3	1.15
504492	709	903	1.0	33	1.0	4.5	3.3	1.5	20.0*	1.05*
504494	723	921*	2.0*	45	1.0	4.0^	2.5	1.0	22.9	1.06
504499	711	824	1.0	24	1.0	4.5	3.0	--	17.7	0.55
504502	715	921	1.5	46	1.5	5.0^	2.3	2.0*	24.1	0.93
504506	711	909	3.0*	61	2.0	3.0^	2.8*	1.0	16.3*	1.51*
507704B	708	831	3.0	66	3.0	4.0^	2.3	1.0	11.3	1.38*
549077	709	911	1.5	55*	1.0	1.0^	2.5	1.5	15.7	1.54*
561233A	719	1004	3.0	102	3.0	2.0^	2.0	1.5	27.9*	1.96*
561282A	711	903	2.0	59	1.0	1.0^	2.0	1.0	12.2	1.46
561282E	712	905	2.0*	56	1.0	2.0^	2.0	1.0	12.0	1.44*
578371	717	912	2.0*	71	3.0	1.0^	2.0	1.0	14.8	1.99*
578372	717	920	3.5	76*	2.5	1.0^	2.3	2.5	16.9	1.75
578373	711	918	4.0*	84	3.0	1.0^	2.3	1.5	17.8*	1.61
578374	720	929	1.5	51	1.0	1.0^	1.5	1.0	19.4*	1.65*
578375A	717	919	2.5	88*	3.0	2.0^	1.5	--	14.7	1.69*
578375B	717	925	3.0	86	3.0	2.0^	2.0	--	12.9	2.25
578377	715	915	3.0	93	3.0	1.0^	2.3	1.0	14.8	1.71*
578380A	717	925	4.0	102	3.0	2.0^	2.0	1.5	16.4	2.07*
578381	713	920*	3.0	71	3.0	2.0^	2.8	1.5	17.8	1.23*
578382	723	926	2.5	54	1.0	2.0^	1.8	1.5	18.4	2.28*
578384	723	930	2.5	63	1.0	1.0^	1.8	1.5	18.8	1.85*
578385	717	925	3.0	81	2.5	1.0^	2.0	3.5	14.5	1.85*
578386	713	921	3.5	80*	2.0	1.0^	1.8	1.5	16.3	1.71*
578387	708	901	1.5	65	2.5	3.0^	2.0	1.0	15.2*	1.68*
578388A	715	919	3.0*	71*	2.5	1.0^	1.8	1.0	17.2	1.85
578388B	717	923	3.0	76	2.5	1.0^	1.8	1.5	18.9	1.88
578389	716^	914^	1.0^	71^	3.0^	2.0^	2.0^	2.0^	12.8^	1.33^
578391	713	919	2.5	82*	3.0	1.0^	2.0	1.5	19.0	1.55*
578392A	715	921*	3.0	74*	2.0	2.0^	2.3	1.0	13.7	1.41
578393	707	901	1.0	38	2.5	5.0^	2.5	1.0	15.2	0.65
578394	711	913	2.5	83*	2.5	1.0^	2.0	1.0	15.7	1.70*
578395	711	921	3.0*	71*	2.5	1.0^	2.3	1.5	18.3*	1.54*
578396	713	911	2.5	73	3.0	1.0^	3.5	2.0*	16.3	1.58*
578397	710	907	1.5	62*	3.0	2.0^	2.5	1.0	14.8	1.39
578398	711	905	1.5	68	3.0	2.0^	2.8	1.0	16.5	1.57*
578400	717	926	2.0*	69	1.0	2.0^	2.0	1.0	25.4	1.93
578401A	719	927	3.5	92	3.0	2.0^	1.8	1.0	17.2	1.87*
578401B	721	927	2.5	78	2.5	2.0^	1.8	1.0	18.5	1.87*
578401C	715	925	3.0	100	3.0	1.0^	1.5	1.0	17.9	1.48
578404	711	910	2.5	68	3.0	2.0^	3.0	1.0	13.6	1.78*
578407	711	919	3.0	81*	2.0	1.0^	1.8	1.0	13.8	1.64
578408	715	924	3.5	94*	2.5	1.0^	2.0	1.0	16.6	1.45
578409A	713	929	4.0	100	3.0	2.0^	2.3	1.0	18.7	2.07
578415	713	915	2.5	54	2.0	1.0^	2.5	2.0*	16.5	1.33*

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
504483B	I	40.7	18.7	10.1	3.5	21.6	55.7	9.2
504484	I	45.3	15.7	11.5	3.0	21.4	52.7	11.4
504485	I	45.4	15.1	10.8	2.7	24.4	50.7	11.5
504492	00	42.3	19.1	10.8	3.3	25.8	52.6	7.5
504494	I	45.2	15.7	11.3	3.1	20.7	52.8	12.2
504499	000	51.5 ^w	15.5 ^w	11.6	2.8	19.0	56.8	9.9
504502	I	42.0	17.6	10.8	3.2	25.1	51.5	9.4
504506	0	43.3	18.0	12.5	4.5	22.2	51.7	9.1
507704B	000	43.9	17.6	11.4	4.1	21.0	54.8	8.7
549077	0	42.2	18.9	10.2	3.6	26.0	51.2	9.0
561233A	I	41.8	17.2	10.9	3.1	22.2	52.4	11.4
561282A	00	43.2	18.0	11.6	3.8	21.8	54.0	8.8
561282E	00	43.1	17.1	10.6	3.8	19.9	56.5	9.2
578371	0	42.5	18.4	11.4	3.3	22.3	53.9	9.2
578372	0	41.4	19.3	11.8	4.1	24.4	51.0	8.7
578373	0	42.4	18.2	12.2	3.5	18.7	57.0	8.6
578374	I	52.1 ^w	17.3 ^w	10.3	2.9	17.7	58.8	10.2
578375A	0	54.1 ^w	16.5 ^w	9.8	3.1	19.1	58.0	10.1
578375B	I	50.2 ^w	16.2 ^w	10.0	2.9	16.5	59.6	10.9
578377	0	40.5	19.4	9.6	3.5	22.8	55.8	8.3
578380A	I	40.0	18.8	11.8	3.8	22.8	52.5	9.0
578381	0	44.0	18.2	10.3	4.2	22.2	53.8	9.5
578382	I	44.9	16.9	11.1	2.7	20.4	55.7	10.0
578384	I	41.2	18.2	11.3	3.5	21.8	53.8	9.6
578385	I	52.5 ^w	17.3 ^w	9.1	2.5	16.9	58.7	12.9
578386	I	42.4	18.1	11.3	4.2	23.0	52.7	8.8
578387	000	42.5	18.6	11.9	3.9	21.3	54.5	8.4
578388A	0	45.1	17.6	10.5	3.5	24.4	51.7	9.9
578388B	I	44.0	17.3	10.4	3.2	23.0	52.5	10.8
578389	0	42.5 [^]	18.3 [^]	11.1	3.9	23.6	52.2	9.3
578391	0	42.9	18.4	10.9	3.4	24.4	52.6	8.8
578392A	I	40.5	19.6	11.0	3.4	23.9	52.9	8.8
578393	000	41.9	18.6	12.0	3.6	21.0	53.8	9.5
578394	0	42.9	18.7	11.6	4.0	23.4	52.8	8.2
578395	I	42.2	18.3	11.2	3.5	22.6	54.0	8.7
578396	0	44.0	18.0	12.5	4.1	21.6	53.2	8.6
578397	00	42.8	18.6	11.8	4.0	21.8	52.4	10.0
578398	00	43.3	18.1	10.8	4.2	26.3	48.7	10.0
578400	I	41.3	17.4	10.9	3.0	24.1	51.6	10.4
578401A	I	41.4	18.1	12.0	3.3	20.0	54.2	10.5
578401B	I	43.3	17.2	11.0	3.0	27.5	49.1	9.4
578401C	I	43.0	17.6	11.5	3.1	22.2	52.7	10.5
578404	0	43.6	18.0	11.6	3.6	22.2	53.0	9.6
578407	I	39.8	19.4	10.5	3.7	25.4	51.4	8.9
578408	I	38.0	20.6	10.9	3.9	25.2	51.8	8.2
578409A	I	40.7	18.4	10.6	3.2	22.5	53.9	9.8
578415	0	46.4	17.2	10.8	3.2	24.8	52.1	9.1

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
578417A	Guo yu B4	Jilin	China	China	1993	I
578417B	(Guo yu B4)	Jilin	China	China	1993	I
578418	Guo yu B5	Jilin	China	China	1993	I
578420	Ha No. 1	Jilin	China	China	1993	I
578421	Ha No. 3	Jilin	China	China	1993	I
578422	Hai lun du lu dou	Heilongjiang	China	China	1993	0
578423	He feng No. 1	Heilongjiang	China	China	1993	0
578424	He feng No. 5	Heilongjiang	China	China	1993	0
578425	He feng No. 6	Heilongjiang	China	China	1993	I
578426	He feng 14	Heilongjiang	China	China	1993	0
578427	He feng 15	Heilongjiang	China	China	1993	0
578428A	He feng 16	Heilongjiang	China	China	1993	0
578428B	(He feng 16)	Heilongjiang	China	China	1993	0
578429	He feng 17	Heilongjiang	China	China	1993	0
578431	He jiao No. 6	Heilongjiang	China	China	1993	I
578432A	He jiao No. 8	Heilongjiang	China	China	1993	0
578432B	(He jiao No. 8)	Heilongjiang	China	China	1993	I
578433	He jiao 11	Heilongjiang	China	China	1993	0
578474	S864-1	unknown	China	China	1993	I
578481	Nizhen No. 1	unknown	China	China	1993	I
578482A	Tai xin Black Bean	unknown	China	China	1993	0
578482B	(Tai xin Black Bean)	unknown	China	China	1993	0
578482C	(Tai xin Black Bean)	unknown	China	China	1993	0
578485A	Sui dao huang	unknown	China	China	1993	0
578487	Feng shou No. 6	Heilongjiang	China	China	1994	0
578496	Jin shan pu	Heilongjiang	China	China	1994	I
578501	Sui nong No. 4	Heilongjiang	China	China	1994	0
578503	Tie jia si li huang	Jilin	China	China	1994	I
578506	Yuan bao jin	Heilongjiang	China	China	1994	0
592899		Beijing	China	China	1991	I
592905	Kitami nagaha	unknown	Japan	Japan	1994	I
592907A		unknown	Russia	Russia	1993	I
592907B		unknown	Russia	Russia	1993	I
592907C		unknown	Russia	Russia	1993	I
592907D		unknown	Russia	Russia	1993	I
592909		unknown	Russia	Russia	1994	0
592911A		unknown	Russia	Russia	1993	I
592911B		unknown	Russia	Russia	1993	I
592912A		unknown	Russia	Russia	1993	I
592912B		unknown	Russia	Russia	1993	I
592915	Hei he No. 9	Heilongjiang	China	China	1994	00
592916	Feng shou 21	Heilongjiang	China	China	1994	00
592917	Dong nong 42	Heilongjiang	China	China	1994	0
592918	He feng 30	Heilongjiang	China	China	1994	0
592919	He feng 31	Heilongjiang	China	China	1994	I
592920	He feng 33	Heilongjiang	China	China	1994	I
592921	Hei nong 37	Heilongjiang	China	China	1994	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
578417A	I	N	W	G	E	N	Br	I	Y	Lbf		2N
578417B	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578418	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578420	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578421	I	N	W	G	E	N	Br	I	Y	Y	Vhil	1N
578422	0	N	P	G	E	N	Br	I	Y	Y		3N
578423	0	N	W	G	E	N	Br	I	Y	Y		2N
578424	0	N	W	G	E	N	Br	I	Y	Lbf	Sna	1N
578425	I	N	P	G	E	N	Br	I	Y	Y		2N
578426	0	N	W	G	E	N	Br	I	Y	Y	Na	2N
578427	0	N	W	G	E	Ssp	Br	I	Y	Bf		2N
578428A	0	N	W	G	E	N	Br	I	Y	Lbf		2N
578428B	0	N	W	G	E	N	Br	I	Y	Lbf		2N
578429	0	N	P	G	E	N	Br	I	Y	Y	Sna	2N
578431	I	N	W	G	E	N	Br	I	Y	Y	Vhil	1R
578432A	0	S	W	G	E	N	Br	I	Y	Lbf		2N
578432B	I	N	P	G	E	N	Br	I	Y	Y		2N
578433	0	N	W	G	E	N	Br	I	Y	Lbf		2N
578474	I	N	P	T	A	N	Br	D	Ggn	Bl		3N
578481	I	D	P	T	Sa	N	Br	I	Y	Bl		3N
578482A	0	S	W	T	Sa	N	Tn	I	Bl	Bl		3N
578482B	0	S	W	T	Sa	N	Tn	I	Bl	Bl		3N
578482C	0	D	W	T	Sa	N	Tn	I	Bl	Bl		3N
578485A	0	D	P	T	Sa	N	Tn	I	Y	Bl		3N
578487	0	S	W	G	E	N	Br	I	Y	Y		2N
578496	I	N	W	G	Sa	N	Dbr	I	Lgn	Lbf	Na	2N
578501	0	S	P	G	E	Ssp	Dbr	D	Y	Y	Na	2N
578503	I	N	W	G	E	Ssp	Bl	I	Y	Lbf	Na	1N
578506	0	N	W	G	E	N	Br	I	Y	Y		1N
592899	I	N	P	T	E	Ssp	Br	I	Y	G		2N
592905	I	D	P	T	E	Ssp	Br	I	Y	Br	Na	1N
592907A	I	N	W	G	E	N	Br	D	Y	Y		2N
592907B	I	N	P	T	E	N	Br	I	Y	Tn		2N
592907C	I	N	W	G	E	N	Br	D	Y	Y	Vhil	2N
592907D	I	N	W	G	E	N	Br	I	Y	Y		2N
592909	0	N	W	T	E	Ssp	Br	Lb	Bl	Bl		3N
592911A	I	N	P	T	E	N	Br	I	Y	Bl		2N
592911B	I	N	P	T	E	N	Br	D	Y	Bl		4N
592912A	I	S	P	T	E	N	Br	I	Y	Tn	Vhil	2N
592912B	I	S	P	T	E	N	Br	I	Y	Tn	Vhil	2N
592915	00	D	P	G	E	N	Br	I	Y	Y		2N
592916	00	D	W	G	E	N	Br	I	Y	Y		2N
592917	0	N	P	G	E	Ssp	Br	D	Y	Y	Na	2N
592918	0	S	W	G	E	N	Br	S	Y	Y	Sna	2N
592919	I	D	W	G	E	N	Br	I	Y	Y	Na	2N
592920	I	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
592921	I	D	W	G	E	N	Br	D	Y	Y		3N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging		Stem	Shattering	Seed			
	date (mmdd)	date (mmdd)	(score)	Height (cm)	termination (score)	early (score)	Quality (score)	Mottling (score)	Weight (cg/sd)	Yield (Mg/ha)
578417A	713	923	2.5	83*	3.0	1.0^	1.8	1.0	18.3	1.75*
578417B	715	929	4.0	112	3.0	2.0^	1.8	1.0	17.9	2.04*
578418	713	923	2.0	86	2.5	1.0^	1.8	1.0	20.3	2.03*
578420	713	930	3.5	89	3.0	1.0^	1.8	1.0	18.7	2.14
578421	713	924	2.0	88	3.0	1.0^	1.5	1.0	21.0	1.76*
578422	711	910	2.5	90	3.0	3.0^	2.8	1.5	16.5	1.34
578423	713	915	3.0*	94*	3.0	1.0^	2.3	1.0	16.1	1.95*
578424	711	915	4.0*	70	3.0	1.0^	2.0	1.5	14.8	1.68
578425	711	923	2.0	91	2.5	1.0^	1.8	1.0	20.4	2.30
578426	711	912	1.5	71	3.0	1.0^	2.5	1.5	14.4	1.69
578427	713	917	3.5	74	3.0	1.0^	1.8	1.5	17.2	1.86*
578428A	713	915	2.5	79*	3.0	2.0^	2.8	1.5	16.8*	1.96*
578428B	711	919	3.5	79	3.0	1.0	2.5	1.5	18.4	1.91*
578429	713	917	3.5	90*	3.0	2.0^	2.3*	1.5	15.8	1.41
578431	711	919	2.5	84	2.0	2.0^	2.8	1.5	19.8	1.53
578432A	711	913	2.0	81	2.0	2.0^	2.3	2.0*	18.0	2.19*
578432B	711	923	2.0	85	2.5	1.0^	2.0	1.0	18.9	1.78*
578433	711	911	2.5	94	3.0	2.0^	2.8	1.0	15.6*	1.79*
578474	726	923	3.0	70*	3.0	3.0^	2.5	1.0	18.9	1.41
578481	719	922	1.5	62	1.0	2.0^	2.0	1.0	17.1	1.41
578482A	720	911	3.0	65	2.0	5.0^	1.8	--	12.9	0.75
578482B	720	920	3.0	78	2.0	5.0^	1.5	--	13.6	1.13
578482C	722	917	3.5	65	1.5	5.0^	1.8	--	14.9	1.75*
578485A	719	919	1.5	52	1.0	2.0^	1.8	1.0	16.3	1.29
578487	711	910	2.0	59	2.0	1.0^	1.8	1.0	14.4	1.70*
578496	715	929	3.5	79	3.0	1.0^	1.8	1.5	17.1	1.43*
578501	711	917	2.0	60	2.0	2.0^	2.0	1.5	16.8*	1.95
578503	722	1003	3.5	94*	2.5	1.0^	1.8	2.0*	14.9	1.80
578506	711	916	2.0	70	3.0	1.5	1.8	1.0	15.5	1.71
592899	715	921	2.5	62	2.0	2.0^	2.0	3.5	18.4	1.49*
592905	723	1005	2.0	78*	1.5	2.0^	1.8	2.0*	18.1	1.78
592907A	717	1004	3.0*	96	3.0	1.0^	1.8	1.0	14.1	1.99
592907B	713	929	3.0*	84	2.5	2.0^	1.5	1.0	17.3	1.88
592907C	719	1007	3.5	102	3.0	2.0^	2.3*	1.5	18.5	1.90
592907D	719	1006	2.5	79	2.0	2.0^	2.0	1.0	15.6	1.22
592909	713	911	2.0	91	3.0	1.0^	2.3	--	11.3	1.55
592911A	722	930	3.0	94	3.0	2.0^	1.8	1.0	15.1	1.74
592911B	725	930	3.5	103	3.0	2.0^	2.5	4.0	12.2	1.19
592912A	717	1001	3.0*	86	2.0	1.0^	1.5	2.5	17.2	1.55
592912B	715	929	2.0	86	2.0	2.0^	1.5	1.0	17.6	1.65
592915	707	905	1.5	52	1.5	5.0^	2.0	1.0	14.0	1.07
592916	715	907	2.5	75	1.5	1.0^	3.5	1.5	16.0*	1.60*
592917	711	919	1.5	86	2.5	2.0^	2.5	1.5	19.9*	2.01*
592918	711	912	2.5	66	2.0	1.0^	1.5	1.5	14.4	1.76*
592919	715	921	1.5	74	1.5	1.0^	2.0	1.5	14.3	1.57
592920	713	922	1.5	68	1.5	1.0^	1.8	1.0	16.0	2.16*
592921	713	929	1.5	78*	1.0	1.0^	1.8	1.0	18.7	1.45

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
578417A	I	42.9	18.2	11.2	3.4	22.1	54.8	8.6
578417B	I	40.1	18.9	10.5	3.6	25.2	52.1	8.6
578418	I	40.1	19.1	11.0	3.3	24.8	52.2	8.8
578420	I	40.3	19.2	10.6	3.9	22.9	53.9	8.7
578421	I	39.2	19.1	10.4	3.3	27.9	49.9	8.5
578422	0	43.5	18.3	10.3	3.8	22.3	54.8	8.7
578423	0	39.8	20.8	11.5	4.1	25.0	51.6	7.8
578424	0	40.8	19.2	11.1	4.4	24.2	52.3	7.9
578425	I	41.2	19.1	12.0	3.3	25.5	50.0	9.2
578426	0	40.5	19.8	10.2	4.7	26.9	50.3	7.8
578427	0	40.5	19.1	10.6	4.9	26.2	50.6	7.7
578428A	0	43.0	18.5	10.7	4.3	25.4	51.3	8.3
578428B	0	41.8	19.3	10.2	4.0	26.6	51.4	7.8
578429	0	41.3	18.3	11.3	4.2	22.6	53.2	8.6
578431	I	40.8	19.5	11.0	3.9	25.5	51.4	8.1
578432A	0	41.0	19.2	11.2	4.4	25.4	50.9	8.2
578432B	I	40.5	18.8	11.9	3.5	22.5	53.0	9.1
578433	0	40.9	19.4	10.6	4.8	27.4	48.5	8.7
578474	I	42.8	17.5	10.5	4.0	22.0	53.7	9.8
578481	I	44.0	17.2	10.4	3.8	20.3	55.6	9.9
578482A	0	53.4 ^w	15.9 ^w	10.0	3.3	20.9	54.8	11.0
578482B	0	53.2 ^w	16.7 ^w	10.0	3.0	19.9	55.9	11.3
578482C	0	50.7 ^w	15.9 ^w	9.6	2.9	20.0	55.6	12.0
578485A	0	43.6	17.3	9.7	4.4	23.4	53.4	9.1
578487	0	42.3	18.4	12.2	4.5	23.0	51.5	8.7
578496	I	40.4	18.3	10.9	4.1	25.2	51.5	8.3
578501	0	41.8	18.4	13.6	4.5	21.3	51.3	9.2
578503	I	39.2	17.0	12.0	3.4	17.4	56.8	10.4
578506	0	40.9	19.2	11.9	4.1	23.1	52.0	8.9
592899	I	42.0	18.5	11.1	3.2	22.0	53.8	9.9
592905	I	43.5	16.9	12.3	3.0	17.9	56.3	10.6
592907A	I	39.1	19.4	12.7	3.1	20.3	54.8	9.1
592907B	I	41.9	17.7	11.2	3.5	19.2	56.0	10.1
592907C	I	40.8	17.3	10.6	2.9	18.1	56.8	11.6
592907D	I	41.8	17.7	10.8	3.7	18.8	56.6	10.1
592909	0	51.9 ^w	16.8 ^w	11.2	3.1	17.6	57.4	10.7
592911A	I	43.6	17.7	11.1	3.6	18.6	55.9	10.7
592911B	I	53.3 ^w	17.4 ^w	9.3	2.7	18.5	57.5	12.0
592912A	I	48.6 ^w	14.9 ^w	10.1	3.1	17.4	57.3	12.1
592912B	I	41.7	17.8	11.0	3.5	19.3	56.5	9.7
592915	00	43.2	17.8	12.8	4.0	17.8	55.5	9.9
592916	00	40.5	19.1	11.0	4.9	24.0	51.5	8.7
592917	0	42.5	17.5	12.4	4.6	22.7	50.9	9.3
592918	0	41.0	18.6	11.7	3.9	23.7	51.8	8.9
592919	I	41.6	16.6	13.2	3.6	16.4	56.0	10.9
592920	I	43.0	18.0	13.1	4.0	20.2	53.8	8.9
592921	I	39.9	18.5	10.6	3.7	22.9	53.9	8.9

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
592922	Hong feng No. 3	Heilongjiang	China	China	1994	00
592923	Ken nong No. 2	Heilongjiang	China	China	1994	0
592924	Ken nong No. 4	Heilongjiang	China	China	1994	0
592925	Bai nong No. 1	Jilin	China	China	1994	I
592926	Tong nong No. 8	Jilin	China	China	1994	I
592931	Yin huang No. 4	Shandong	China	China	1994	0
592943	Lu dou No. 6	Shandong	China	China	1994	0
592957	Chang nong No. 5	Jilin	China	China	1994	I
592958	Chang nong No. 6	Jilin	China	China	1994	I
592960	Dong nong 38	Heilongjiang	China	China	1994	I
592961	Dong nong 41	Heilongjiang	China	China	1995	000
592962A	Hei nong 30	Heilongjiang	China	China	1995	0
592962B	(Hei nong 30)	Heilongjiang	China	China	1995	I
592963	Hei nong 31	Heilongjiang	China	China	1995	I
592964	Hei nong 32	Heilongjiang	China	China	1995	I
592967	Hei nong 36	Heilongjiang	China	China	1994	I
592970	Jilin 29	Jilin	China	China	1994	I
592975	Sui nong No. 5	Heilongjiang	China	China	1995	0
592976	Sui nong No. 8	Heilongjiang	China	China	1995	0
592977	Sui nong No. 9	Heilongjiang	China	China	1994	I
593938	He feng 34	Heilongjiang	China	China	1995	0
593939	He feng 35	Heilongjiang	China	China	1995	0
593940	He feng 7791	Heilongjiang	China	China	1995	0
593941	He feng 8719	Heilongjiang	China	China	1995	0
593942	He feng 9388	Heilongjiang	China	China	1994	0
593943	He feng 88851	Heilongjiang	China	China	1994	I
593944	Ken nong No. 7	Heilongjiang	China	China	1995	0
593946	Ken feng No. 3	Heilongjiang	China	China	1995	00
593949A	Ken 83-2922	Heilongjiang	China	China	1995	I
593950A	Ken 84-4009	Heilongjiang	China	China	1995	00
593950B	(Ken 84-4009)	Heilongjiang	China	China	1995	0
593951	JH-1	Heilongjiang	China	China	1995	00
593953	Sui nong No. 10	Heilongjiang	China	China	1995	I
593955	NEAC 187	Heilongjiang	China	China	1995	I
593956A	NEAC 190	Heilongjiang	China	China	1995	I
593957	NEAC 593	Heilongjiang	China	China	1995	I
593961	GD 369	Jilin	China	China	1995	I
593967	GD 3184	Jilin	China	China	1995	I
593968	GD 3245	Jilin	China	China	1995	I
593969	GD 3325	Jilin	China	China	1995	I
593970	Oosodeno mai	Hokkaido	Japan	Japan	1995	I
593971	Kariyutaka	Hokkaido	Japan	Japan	1995	I
593972	Suzumaru	Hokkaido	Japan	Japan	1995	I
593973	Toyokomachi	Hokkaido	Japan	Japan	1995	I
593975	Tsurumusume	Hokkaido	Japan	Japan	1995	I
593976	Gokuwase chishima	Hokkaido	Japan	Japan	1996	000
593979	Wasekosode	Hokkaido	Japan	Japan	1996	000

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
592922	00	N	W	G	E	N	Br	I	Y	Y	Sna	2N
592923	0	S	P	G	E	Ssp	Br	I	Y	Y	Sna	2N
592924	0	D	W	G	E	Ssp	Br	I	Y	Y	Na	2N
592925	I	N	W	G	E	N	Tn	I	Y	Bf	Na	2N
592926	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
592931	0	D	W	G	Va	N	Tn	D	Y	Lbf		3N
592943	0	D	P	G	Va	N	Tn	I	Y	Bf	Wa	3N
592957	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
592958	I	D	W	G	E	N	Br	I	Y	Y		2N
592960	I	N	P	G	E	N	Br	I	Y	Y		2N
592961	000	D	P	T	E	N	Br	I	Y	Br		2N
592962A	0	D	W	G	E	Ssp	Br	I	Y	Y		3R
592962B	I	D	W	G	E	N	Br	I	Y	Y		2N
592963	I	D	W	G	E	Ssp	Br	I	Y	Y		2N
592964	I	D	W	G	E	Ssp	Br	I	Y	Lbf		2N
592967	I	N	W	G	E	N	Br	D	Y	Bf	Na	2N
592970	I	S	W	G	E	N	Br	I	Y	Y	Na	2N
592975	0	S	P	G	E	N	Br	I	Y	Y	Sna	2N
592976	0	N	P	G	E	Ssp	Br	D	Y	Y		3N
592977	I	S	P	G	E	N	Tn	I	Y	Y	Na	2N
593938	0	D	P	G	E	N	Br	I	Y	Y	Sna	2N
593939	0	D	P	G	E	Ssp	Br	I	Y	Y	Na	3R
593940	0	S	W	G	E	N	Br	I	Y	Y		2N
593941	0	S	P	G	E	Ssp	Br	D	Y	Bf	Na	2N
593942	0	D	P	G	E	N	Br	I	Y	Y	Na	2N
593943	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
593944	0	D	W	G	E	Ssp	Br	I	Y	Y	Sna	2N
593946	00	D	W	G	E	N	Br	D	Y	Y		2N
593949A	I	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
593950A	00	D	W	G	E	N	Br	I	Y	Y		2N
593950B	0	D	W	G	E	N	Br	I	Y	Y	Na	2N
593951	00	N	P	T	E	N	Tn	I	Y	Tn		3N
593953	I	N	W	G	E	Ssp	Tn	D	Y	Y	Na	2N
593955	I	S	W	G	E	N	Tn	I	Y	Y		2N
593956A	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
593957	I	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
593961	I	N	P	T	E	N	Br	I	Y	Bl		3N
593967	I	N	W	G	E	N	Br	I	Y	Bf		2N
593968	I	D	W	G	E	Ssp	Br	I	Y	Y		2N
593969	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	2N
593970	I	D	W	G	Sa	Ssp	Br	D	Gn	Gn		2N
593971	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
593972	I	D	P	G	E	Ssp	Br	I	Y	Y	Na	1N
593973	I	D	P	G	E	Ssp	Br	I	Y	Y		2N
593975	I	D	W	G	E	N	Br	I	Y	Y		2N
593976	000	D	P	T	Sa	N	Br	I	Bl	Bl		2N
593979	000	D	P	T	Sa	N	Br	I	Gn	Bl		2F

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	(score)	(score)
	(mmdd)	(mmdd)					(score)	(score)	(cg/sd)	(Mg/ha)
592922	709	905	1.5	57	3.0	4.0^	2.3	1.0	14.5	1.69*
592923	711	909	1.0	56	2.0	2.0^	2.0	1.0	16.3	1.62*
592924	711	920	1.0	69	1.5	1.0^	1.8	1.0	17.1	2.03*
592925	711	923	2.5	78	2.5	1.0^	2.0	1.0	15.9	1.56
592926	711	925	2.5	86	3.0	1.0^	1.8	1.0	20.8	1.90
592931	719	913	2.0	37	1.0	3.0^	1.8	1.0	13.9	0.73
592943	717	917*	2.0	36	1.0	2.0^	1.5	1.0	15.0	0.40
592957	719*	1003	2.5	84	1.5	1.0^	1.5	1.0	19.0	1.53
592958	723	1006	3.0	90	2.0	1.0^	2.3	1.0	19.3	1.77
592960	715	921	2.0	76	2.5	1.0^	2.0	1.5	15.2	2.16*
592961	707	822	1.0	38	1.0	4.0*	3.0	1.0	16.1	0.62
592962A	713	916	2.5	74	1.5	1.0^	2.0	1.0	15.9*	2.20*
592962B	715	925	2.5	77	1.5	1.0^	2.0	1.0	17.5	1.64*
592963	715	921	3.0	89	1.5	2.0^	2.0	1.0	15.6	1.91*
592964	715	921	2.5	72	1.0	1.0^	2.0	1.0	16.3	1.70*
592967	713	927	2.0	76	2.5	1.0^	1.8	1.5	17.7	1.90*
592970	717^	1012^	3.0^	86^	2.0^	-	3.0^	1.0^	16.6^	1.92^
592975	711	913	1.5	66*	2.0	2.0^	1.8	1.0	14.3*	1.97*
592976	711	919	1.5	83*	2.5	2.0^	1.8	1.5	18.2*	2.03*
592977	713	923	1.5	66	2.0	1.0^	1.8	1.5	15.3	1.98
593938	711	919	2.0	71	1.5	2.0^	1.8	1.5	15.7	1.93
593939	711	913	1.0	59	1.0	2.0^	2.5*	1.5	14.3*	1.49*
593940	711	909	1.0	56	2.0	2.0^	2.3*	1.5	15.2*	1.81*
593941	711	912	1.5	60	2.0	2.0^	2.3	1.0	16.0	1.64*
593942	711	914	1.0	57	1.5	1.0^	1.5	1.0	14.5	1.72*
593943	711	919	2.0	69	2.0	2.0^	1.5	1.5	16.2	1.59
593944	711	919	1.5	74	1.5	2.0^	1.5	1.0	17.2	2.39^
593946	711	906	2.0	72	1.5	3.0^	2.3	1.0	12.7*	1.61
593949A	720	927	1.5	47*	1.0	2.0^	2.8	1.5	28.6	1.52
593950A	711	907	2.0	65	1.0	3.0^	2.3	1.0	14.1	0.96
593950B	711	911	3.0	88	1.5	3.0^	2.3	1.5	14.7	1.67
593951	708	904	1.5	61	2.5	4.0^	2.5	1.0	13.8*	1.31
593953	713	921	1.0	60	2.0	1.0^	2.0	1.0	16.3	2.12*
593955	715	923	2.5	79	2.0	1.0^	1.8	1.0	13.3	1.62
593956A	713	929	2.5	79	1.0	1.0^	2.0	1.0	18.5	2.12
593957	711	921	1.5	63	1.0	1.0^	1.8	1.0	16.6	1.20
593961	716	1001	4.0	108	2.5	2.0^	1.5	1.0	16.0	1.78
593967	721	1004	3.5	94*	3.0	2.0^	1.8	1.0	18.4	1.71
593968	717	927	2.0	60*	1.0	1.0^	1.8	1.0	16.2	1.61
593969	713	921	3.0	75	2.5	2.0^	2.0	1.0	17.8	1.71
593970	713	1004	1.5	40	1.0	3.0^	2.3	1.0	23.0	1.50
593971	716	926	1.5	51*	1.0	2.0^	1.8	1.0	20.5	1.50
593972	721	1003	1.5	64	1.0	1.0^	2.0	1.0	10.9	2.27
593973	713	927	1.0	39	1.0	3.0^	2.5	1.0	24.0	1.66
593975	719	921	1.0	39	1.0	3.0^	2.5	1.0	28.9	1.49
593976	711	822	1.0	28	1.0	4.5	2.5	--	15.7	0.77
593979	711	829	1.0	31	1.0	4.5	2.8	1.0	15.7	0.90

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
592922	00	40.7	19.1	12.2	4.2	20.9	52.7	10.1
592923	0	39.7	18.4	12.9	3.7	20.0	54.3	9.2
592924	0	40.6	18.7	11.3	3.9	23.9	52.0	8.8
592925	I	42.2	19.4	11.1	3.1	27.2	50.7	7.9
592926	I	41.7	18.7	10.9	3.3	26.2	51.4	8.2
592931	0	41.5	18.3	10.4	2.8	23.5	53.5	9.9
592943	0	44.2	16.9	10.4	2.8	22.6	54.8	9.4
592957	I	42.4	17.3	11.1	3.6	22.1	53.7	9.6
592958	I	40.1	17.9	10.9	3.7	22.5	52.6	10.4
592960	I	39.1	19.6	11.5	3.6	26.7	49.2	9.0
592961	000	43.4	18.9	10.9	3.0	26.6	52.6	6.9
592962A	0	42.1	18.9	10.8	3.7	23.0	54.6	7.9
592962B	I	40.7	19.2	10.4	3.7	23.6	53.5	8.8
592963	I	39.3	20.3	11.0	3.6	22.1	55.3	8.0
592964	I	40.3	20.5	10.9	3.4	22.8	54.8	8.1
592967	I	41.4	18.6	10.9	3.5	20.7	54.7	10.2
592970	I	42.9 [^]	17.9 [^]	11.1	4.0	24.4	52.5	8.0
592975	0	42.0	17.8	12.3	4.2	20.7	52.5	10.4
592976	0	41.0	19.4	12.6	4.0	22.5	52.6	8.3
592977	I	39.9	18.4	12.0	3.9	18.5	54.3	11.3
593938	0	40.0	19.6	10.7	3.0	26.5	52.3	7.4
593939	0	42.1	17.5	11.9	4.0	20.7	53.9	9.5
593940	0	44.0	16.8	11.4	3.3	25.3	51.2	8.7
593941	0	43.0	17.6	11.1	3.9	21.8	54.2	9.0
593942	0	40.6	18.3	11.0	3.4	22.0	54.7	8.9
593943	I	37.7	18.0	11.2	3.6	22.7	53.8	8.6
593944	0	41.5	18.1	11.8	4.1	22.1	52.7	9.4
593946	00	41.9	17.7	10.9	3.6	20.0	56.3	9.1
593949A	I	41.3	17.2	11.8	2.9	21.0	53.0	11.2
593950A	00	41.8	17.2	12.4	3.4	19.2	55.1	9.9
593950B	0	41.5	18.4	12.0	3.2	22.5	53.8	8.4
593951	00	40.2	19.5	10.9	3.5	22.2	55.3	8.0
593953	I	41.0	18.5	13.4	3.6	17.6	56.2	9.1
593955	I	41.2	18.2	10.9	3.7	21.8	55.0	8.6
593956A	I	41.3	18.2	11.9	3.7	21.5	53.3	9.6
593957	I	42.3	17.3	12.4	3.0	19.3	55.9	9.4
593961	I	45.2	17.0	10.8	3.1	24.0	52.9	9.2
593967	I	42.9	18.4	12.1	3.3	20.9	54.8	9.0
593968	I	43.3	16.2	11.1	3.1	16.3	56.8	12.8
593969	I	43.4	18.1	11.6	3.7	20.1	54.8	9.8
593970	I	53.2 ^w	17.1 ^w	9.5	2.8	17.2	60.0	10.5
593971	I	39.9	18.6	11.9	3.5	20.5	54.5	9.5
593972	I	40.7	17.3	11.4	3.0	18.0	56.6	10.9
593973	I	42.6	17.8	11.9	2.9	20.9	55.2	9.1
593975	I	41.2	18.3	11.9	3.5	21.8	53.8	9.0
593976	000	55.6 ^w	14.4 ^w	12.4	2.5	16.0	58.6	10.6
593979	000	55.8 ^w	14.7 ^w	11.8	2.9	17.4	57.7	10.2

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
593982		unknown	Japan	Japan	1996	I
593997		Kyongsang Nam	South Korea	South Korea	1995	0
594016	Keun daedu	unknown	South Korea	South Korea	1995	I
594021	Keunolkong	Kyongsang Nam	South Korea	South Korea	1996	I
594170A	Geden shirazu	Akita	Japan	Japan	1996	I
594170B	(Geden shirazu)	Akita	Japan	Japan	1996	I
594178	Himeyutaka	Hokkaido	Japan	Japan	1996	I
594196	Kinshu	unknown	Japan	Japan	1996	I
594198	Kitakomachi	Hokkaido	Japan	Japan	1996	I
594200	Kitami shiro	Hokkaido	Japan	Japan	1996	I
594245A	Okuhara 1-B	Hokkaido	Japan	Japan	1996	00
594245B	(Okuhara 1-B)	Hokkaido	Japan	Japan	1996	0
594261	Shika 4	unknown	Japan	Japan	1996	0
594276	Shirosaya 1	Kumamoto	Japan	Japan	1996	I
594279	Shinsei	Hokkaido	Japan	Japan	1996	0
594296	Tokachi kuro	Hokkaido	Japan	Japan	1996	I
594301	Toyomusume	Hokkaido	Japan	Japan	1996	I
594304A	Tsurukogane	Hokkaido	Japan	Japan	1996	I
594314	Wase suzunari	Akita	Japan	Japan	1996	I
594319	Yuuhime	Hokkaido	Japan	Japan	1996	I
594898	Tie jia	Liaoning	China	China	1996	I
597390	E94-202	Dornod	Mongolia	Mongolia	1994	0
597391A	Kievskaya 27	Kiev	Ukraine	Ukraine	1996	00
597391B	(Kievskaya 27)	Kiev	Ukraine	Ukraine	1996	00
597391C	(Kievskaya 27)	Kiev	Ukraine	Ukraine	1996	0
597393	Kirovogradskaya 5	Kirovograd	Ukraine	Ukraine	1996	0
597394	Kharkovskaya Zernokormovaya	Kharkov	Ukraine	Ukraine	1996	00
597395	Solnechnaya	Zaporizhzhya	Ukraine	Ukraine	1996	0
597397A	Lan'	Krasnodar	Russia	Ukraine	1996	I
597397B	(Lan')	Krasnodar	Russia	Ukraine	1996	I
597398	Yug 40	Kherson	Ukraine	Ukraine	1996	0
597399	Yug 30	Kherson	Ukraine	Ukraine	1996	00
597400	Viza	Krasnodar	Russia	Ukraine	1996	0
597402	Runo	Krasnodar	Russia	Ukraine	1996	0
597403A	Krasnodar 391-89	Krasnodar	Russia	Ukraine	1996	0
597403B	(Krasnodar 391-89)	Krasnodar	Russia	Ukraine	1996	0
597404	Krasnodar 568-89	Krasnodar	Russia	Ukraine	1996	I
597405A	Zaporozhie 46-96	Zaporizhzhya	Ukraine	Ukraine	1996	0
597405B	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597405C	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597405D	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597406	502	Sichuan	China	China	1996	I
597407A	Hefen 22	Sichuan	China	China	1996	I
597407B	(Hefen 22)	Sichuan	China	China	1996	I
597409	Helong 26	Heilongjiang	China	China	1996	I
597411A	Jilin 26	Jilin	China	China	1996	I
597415	Dong nong 42	Heilongjiang	China	China	1995	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
593982	I	N	P	T	Sa	Ssp	Br	I	Br	Rbr	Sw	4N
593997	0	D	P	T	E	Sp	Br	I	Bl	Bl		1N
594016	I	S	W	T	A	N	Br	D	Y	Br		2N
594021	I	D	W	G	A	N	Br	D	Y	Y		2N
594170A	I	D	P	G	E	Ssp	Br	I	Y	Y	Na	2N
594170B	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
594178	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
594196	I	D	W	T	E	Ssp	Br	D	Gn	Bl	Vhil	2N
594198	I	D	Dp	G	E	Ssp	Br	D	Y	Y		2N
594200	I	D	P	T	E	Ssp	Br	D	Y	Br		2N
594245A	00	D	P	G	E	N	Br	I	Y	Bf		2N
594245B	0	D	P	T	E	Ssp	Br	I	Y	Br		2N
594261	0	N	P	G	E	N	Br	I	Y	Y		2N
594276	I	D	P	G	A	N	Tn	D	Y	Bf		2N
594279	0	D	P	T	E	Ssp	Br	D	Y	Br		2N
594296	I	D	P	T	E	Ssp	Br	I	Bl	Bl		2F
594301	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
594304A	I	N	W	G	E	Ssp	Br	I	Y	Y	Vhil	2N
594314	I	D	P	G	A	Ssp	Br	D	Y	Y		2N
594319	I	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
594898	I	N	W	G	Sa	N	Br	I	Y	Lbf		2N
597390	0	N	P	T	E	N	Br	I	Y	Y		2N
597391A	00	S	P	T	E	N	Br	S	Y	Bl		3N
597391B	00	D	W	T	E	N	Br	I	Y	Br	Abh	3N
597391C	0	N	P	T	E	Ssp	Br	D	Y	Br		3N
597393	0	D	P	T	E	N	Br	S	Y	Br	Sabh	3N
597394	00	D	P	T	E	N	Br	I	G	Bl	Abh	2N
597395	0	N	P	T	E	N	Br	D	Y	Y		3N
597397A	I	N	W	G	E	N	Tn	D	Y	Y		2N
597397B	I	S	P	G	E	N	Tn	I	Y	Bf		2N
597398	0	N	W	G	E	N	Br	D	Y	Y		2N
597399	00	D	P	G	E	N	Tn	I	Y	Bf		3N
597400	0	N	W	G	E	N	Dbr	I	Y	Bf		2N
597402	0	S	P	G	E	N	Br	I	Y	Ib		3N
597403A	0	N	P	G	E	N	Tn	I	G	Ib	Vsc	2N
597403B	0	S	P	G	E	N	Tn	I	Y	Bf		2N
597404	I	N	W	T	E	N	Tn	I	Y	Br		2N
597405A	0	N	P	T	E	N	Tn	I	Y	Br		2N
597405B	I	N	P	T	E	N	Dbr	I	Y	Br		2N
597405C	I	N	W	T	E	N	Tn	D	Y	Br		2N
597405D	I	N	P	T	E	N	Br	I	Y	Dbr	Abh	3N
597406	I	N	P	T	E	N	Br	I	Gnbr	Rbr		5F
597407A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	1N
597407B	I	N	W	G	E	Ssp	Br	I	Y	Y		2N
597409	I	S	W	G	E	N	Br	I	Y	Y	Na	2N
597411A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	1N
597415	I	N	P	G	E	Ssp	Tn	I	Y	Y		3N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	(score)	(score)
	(mmdd)	(mmdd)					(score)	(score)	(cg/sd)	(Mg/ha)
593982	730	923	4.0	76	5.0	2.0 [^]	1.5	--	4.2	0.99
593997	713	913	1.5	50*	1.0	4.5	2.3	--	19.8	1.28
594016	805 [^]	1002	4.0	82*	2.0	2.0 [^]	2.3	1.0	12.3	1.48
594021	720	921	1.0	36	1.0	5.0	2.5	1.0	26.3	1.28
594170A	720	924	2.0	50	1.0	2.0 [^]	2.0	1.0	10.5	1.31
594170B	720	925	2.0	51	1.0	3.0 [^]	2.0	1.0	10.4	1.36
594178	715	923	1.5	55*	1.0	4.0 [^]	2.0	1.0	24.0	1.30
594196	721	926	1.5	47*	1.0	3.0 [^]	2.0	1.0	27.4	1.35
594198	711	925	2.0	47	1.0	3.0 [^]	2.0	1.0	21.6	1.54
594200	727	1001	2.0	64*	1.0	2.0 [^]	2.0	1.0	17.4	1.74
594245A	708	905	1.0	44	1.0	5.0 [^]	3.0	1.0	15.8	0.59
594245B	715	917	1.5	49	1.0	5.0 [^]	2.0	1.5	24.0	1.37
594261	711	907	1.5	57	2.5	3.0 [^]	2.3*	1.0	15.2	1.78*
594276	725	930	2.5	58	2.0	3.0 [^]	1.8	1.0	13.6	1.04
594279	715	912	1.5	52	1.5	5.0 [^]	2.0	1.5	16.9	1.03
594296	717	923	1.5	44	1.0	5.0 [^]	2.0	--	26.4	1.39*
594301	715	1004	1.5	46*	1.0	2.0 [^]	2.5	1.5	24.0	1.27
594304A	719	1003	2.5	80	2.5	1.0 [^]	1.8	1.5	28.8*	2.06
594314	715 [^]	1001 [^]	2.0 [^]	36 [^]	1.0 [^]	3.0 [^]	2.0 [^]	1.0 [^]	17.1 [^]	1.08 [^]
594319	721	1001	1.5	44	1.0	1.0 [^]	2.3	1.5	28.3*	2.24
594898	713	923	3.0	87*	3.0	1.5	1.8	1.0	16.1	1.78*
597390	708	913	1.5	68	3.0	1.0 [^]	2.0	1.0	12.4	1.06
597391A	711	907	2.5	71	2.0	4.0 [^]	2.5	1.0	11.7	1.05
597391B	711	906	1.5	65*	1.5	4.0 [^]	2.0	1.0	13.4	1.45*
597391C	708	911	1.5	73	3.0	3.0 [^]	2.3*	1.0	14.1	1.37*
597393	717	917	1.5	55	1.5	1.0 [^]	2.0	1.0	12.5	1.76*
597394	711	903	2.0	56*	1.5	1.0 [^]	1.8	1.0	13.4	1.30
597395	711	912	1.5	74	2.5	2.0 [^]	2.0	1.0	12.9	1.93*
597397A	711	919	2.0	83	3.0	1.0 [^]	1.8	1.0	12.9	2.26
597397B	713	921	2.5	81	2.0	1.0 [^]	1.8	1.0	13.0	1.97
597398	711	911	1.5	80*	3.0	1.0 [^]	2.0	1.0	14.0	1.86
597399	711	903	2.5	50	1.0	2.0 [^]	2.3	1.0	14.2	0.92
597400	709	910	2.5	89	3.0	1.0 [^]	2.5	1.0	13.2	1.74
597402	713	917	2.5	67	2.0	1.0 [^]	2.0	1.0	11.3	1.48
597403A	713	913	2.0	84	2.5	2.0 [^]	1.8	1.0	11.9	2.17
597403B	711	909	2.0	76	2.0	1.0 [^]	1.8	1.0	11.2	1.80
597404	713	915	3.0	74	2.0	2.0 [^]	1.5	1.0	10.2	1.49
597405A	713	919	3.5	112	4.0	2.0 [^]	2.0	1.0	12.4	1.95*
597405B	713	921	2.5	85	2.0	2.0 [^]	1.3	1.0	13.8	2.22
597405C	713	921	2.5	105	3.0	1.0 [^]	1.8	1.0	12.4	2.26
597405D	711	919	4.0	85	3.0	2.0 [^]	1.8	1.0	11.1	1.60
597406	804	1006	3.5	107	3.0	1.0 [^]	2.5	--	9.6	1.14
597407A	723	1004	3.0	92	2.0	2.0 [^]	2.3	1.5	18.5	2.17*
597407B	717	1005	3.5	97	2.0	1.0 [^]	2.0	2.5	16.9	1.58
597409	711	923	3.0*	81	2.0	1.0 [^]	1.8	2.0*	14.7	1.94*
597411A	717 [^]	1005	3.0	92	2.0	1.0 [^]	2.0	1.0	18.5	1.91
597415	713	924	3.0	83	2.5	1.0 [^]	2.0	2.0	13.3	1.84

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
593982	I	53.1 ^w	13.4 ^w	10.8	2.7	13.2	58.9	14.4
593997	0	53.5 ^w	16.5 ^w	9.9	2.3	15.8	58.3	13.7
594016	I	43.8	14.8	11.4	2.7	16.9	55.1	13.9
594021	I	44.6	16.5	12.5	2.9	19.8	53.8	10.9
594170A	I	39.7	17.9	11.9	3.4	17.1	57.6	10.2
594170B	I	40.4	17.9	12.2	3.3	15.7	57.9	10.9
594178	I	41.5	18.2	12.4	2.9	20.2	54.9	9.6
594196	I	48.9 ^w	18.2 ^w	9.9	2.8	19.8	56.4	11.0
594198	I	42.8	17.9	11.3	2.7	21.0	56.0	9.1
594200	I	40.0	16.9	11.6	2.7	19.0	56.0	10.7
594245A	00	42.0	19.0	10.2	3.8	26.7	52.4	7.0
594245B	0	42.2	18.1	11.0	2.9	26.4	51.3	8.4
594261	0	44.2	17.8	11.6	3.4	21.3	54.0	9.7
594276	I	47.3	13.4	12.0	2.8	19.5	53.6	12.0
594279	0	43.0	17.5	11.6	3.3	22.1	54.3	8.6
594296	I	47.5 ^w	19.4 ^w	9.3	2.9	21.0	57.8	9.1
594301	I	40.9	17.4	11.2	2.6	21.4	55.8	9.0
594304A	I	40.5	17.3	10.4	2.7	24.7	52.1	10.1
594314	I	41.2 [^]	18.7 [^]	10.8	2.9	19.5	56.9	9.8
594319	I	40.2	17.5	11.1	2.7	21.0	54.1	11.2
594898	I	40.5	20.4	9.9	4.5	30.8	47.6	7.2
597390	0	42.8	18.4	12.2	3.7	19.7	56.2	8.2
597391A	00	42.3	18.1	10.3	3.6	20.6	55.2	10.3
597391B	00	42.8	17.7	10.8	3.7	20.3	55.5	9.7
597391C	0	42.8	19.5	10.1	3.5	22.6	55.3	8.5
597393	0	42.6	18.2	10.9	4.3	22.5	53.4	8.9
597394	00	53.8 ^w	16.1 ^w	11.3	3.5	17.6	57.4	10.2
597395	0	43.3	18.2	11.2	3.9	20.2	54.5	10.2
597397A	I	39.8	18.8	10.6	2.7	19.5	57.3	10.0
597397B	I	41.5	18.8	12.0	2.8	19.6	56.4	9.2
597398	0	39.3	20.1	11.5	3.7	20.7	55.7	8.3
597399	00	41.7	17.7	10.8	4.0	21.8	53.5	9.9
597400	0	40.7	19.8	10.2	3.6	22.8	54.2	9.2
597402	0	40.0	19.7	10.2	3.7	23.1	54.0	9.1
597403A	0	41.5	19.4	10.7	3.7	22.4	55.1	8.2
597403B	0	41.2	19.0	11.8	3.7	20.1	55.6	8.8
597404	I	40.5	19.4	12.4	2.9	18.5	56.6	9.7
597405A	0	42.1	19.7	11.5	4.0	24.8	51.9	7.9
597405B	I	42.2	20.2	12.5	3.1	23.3	52.8	8.3
597405C	I	39.5	20.1	11.5	3.2	21.5	55.5	8.4
597405D	I	40.1	19.8	10.8	3.2	25.4	52.1	8.5
597406	I	53.8 ^w	15.5 ^w	9.9	2.9	21.2	55.1	11.0
597407A	I	40.9	18.4	10.9	2.7	24.4	52.4	9.5
597407B	I	41.3	17.8	11.2	3.1	21.9	53.6	10.1
597409	I	40.2	18.1	10.8	3.9	20.9	54.0	10.4
597411A	I	41.4	18.3	11.5	3.1	22.9	53.2	9.4
597415	I	42.1	18.1	10.8	3.4	18.5	56.8	10.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
597416	He feng 26	Heilongjiang	China	China	1995	00
597417	He feng 29	Heilongjiang	China	China	1995	00
597419	He feng 871004	Heilongjiang	China	China	1995	I
597420	He feng 91239	Heilongjiang	China	China	1995	I
597421	He feng 91342	Heilongjiang	China	China	1995	I
597422	Hei he 92-1372	Heilongjiang	China	China	1995	0
597423	He feng 8719	Heilongjiang	China	China	1995	0
597425	Heng feng No. 9	Heilongjiang	China	China	1995	0
597426	Gang 81-128-1	Heilongjiang	China	China	1995	0
597427A	Gang 84-62-19	Heilongjiang	China	China	1995	I
597427B	(Gang 84-62-19)	Heilongjiang	China	China	1995	I
597428	JFH	Heilongjiang	China	China	1995	I
597429	Gang 8827-4	Heilongjiang	China	China	1995	I
597430A	Gang 8774-1	Heilongjiang	China	China	1995	0
597430B	(Gang 8774-1)	Heilongjiang	China	China	1995	0
597431	Gang 8779-3	Heilongjiang	China	China	1995	I
597432	Gang 8819-3-16	Heilongjiang	China	China	1995	I
597433	Gang 8869-1	Heilongjiang	China	China	1995	0
597434	K90-09	Heilongjiang	China	China	1995	0
597435	K90-11	Heilongjiang	China	China	1995	0
597436	F8201-205	Heilongjiang	China	China	1995	I
597439	Hei nong 38	Heilongjiang	China	China	1995	I
597440A	Hei nong 39	Heilongjiang	China	China	1995	I
597440B	(Hei nong 39)	Heilongjiang	China	China	1995	I
597440C	(Hei nong 39)	Heilongjiang	China	China	1995	I
597442	NEAU 785	Heilongjiang	China	China	1995	0
597443	NEAU 9142	Heilongjiang	China	China	1995	I
597444	NEAU 91212	Heilongjiang	China	China	1995	I
597445	NEAU 9243	Heilongjiang	China	China	1995	I
597446	DN 104	Heilongjiang	China	China	1995	I
597447	Bei feng 87-09	Heilongjiang	China	China	1995	0
597467	E dou No. 4	Hubei	China	China	1997	0
597487	Hwaseongputkong	Kyonggi	South Korea	South Korea	1997	I
597651	Wei da yu	Jilin	China	China	1997	0
597652	Sun wu xiao bai mei	Jilin	China	China	1997	0
602497A	Ke shan si li jia	Heilongjiang	China	China	1996	I
602497B	(Ke shan si li jia)	Heilongjiang	China	China	1996	00
602498	Xiao jin huang	Jilin	China	China	1996	I
603147		unknown	North Korea	North Korea	1997	000
603148	Oh won No. 1	unknown	North Korea	North Korea	1997	I
603149		unknown	North Korea	North Korea	1997	000
603150		unknown	North Korea	North Korea	1997	00
603151A		unknown	North Korea	North Korea	1997	I
603151B		unknown	North Korea	North Korea	1997	0
603153		unknown	North Korea	North Korea	1997	0
603169		unknown	North Korea	North Korea	1997	00
603290	Zao shu 18	Beijing	China	China	1998	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
597416	00	D	W	G	E	N	Br	D	Y	Y		2N
597417	00	N	P	G	E	N	Dbr	I	Y	Y		2N
597419	I	S	W	G	E	Ssp	Br	D	Y	Y	Na	2N
597420	I	D	W	G	E	Ssp	Br	D	Y	Y		2N
597421	I	D	W	G	E	N	Br	I	Y	Y		3N
597422	0	D	P	G	E	N	Br	I	Y	Y		2N
597423	0	D	W	G	E	N	Br	I	Y	Y	Na	2N
597425	0	N	W	G	E	N	Br	D	Y	Y		2N
597426	0	S	Dp	T	E	N	Br	I	Y	Br		2N
597427A	I	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
597427B	I	S	P	G	E	N	Br	D	Y	Bf	Na,Vhil	2N
597428	I	D	P	G	E	N	Br	I	Y	Lbf		2N
597429	I	D	P	G	E	Ssp	Br	D	Y	Y	Na	2N
597430A	0	D	P	G	E	N	Br	I	Y	Y		1N
597430B	0	N	W	G	E	N	Br	I	Y	Y	Na	2N
597431	I	D	W	G	E	N	Tn	I	Y	Y	Na	2N
597432	I	D	P	G	E	N	Br	I	Y	Y		3N
597433	0	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
597434	0	D	W	G	E	N	Br	I	Y	Y		2N
597435	0	D	W	G	E	N	Br	I	Y	Y	Sna	2N
597436	I	N	W	G	E	N	Br	I	Y	Bf		2N
597439	I	D	W	G	E	N	Br	D	Y	Y		3N
597440A	I	D	W	G	E	Ssp	Br	I	Y	Y		3N
597440B	I	D	P	G	E	N	Br	I	Y	Y		2N
597440C	I	D	W	G	E	N	Br	I	Y	Y		3N
597442	0	D	W	G	E	N	Br	D	Y	Bf	Na	2R
597443	I	N	P	G	E	Ssp	Br	D	Y	Y	Na	2N
597444	I	D	W	G	E	Ssp	Br	I	Y	Y		3N
597445	I	D	W	G	E	Ssp	Br	D	Y	Y		2N
597446	I	S	P	G	E	N	Tn	I	Y	Y	Na	2N
597447	0	D	W	G	E	Ssp	Br	I	Y	Y	Na	2N
597467	0	D	W	G	A	N	Tn	I	Y	Lbf		3N
597487	I	D	W	G	A	N	Tn	I	Y	Bf		2N
597651	0	D	P	G	E	Ssp	Br	D	Y	Y		2N
597652	0	D	P	G	E	Ssp	Br	D	Y	Y		2N
602497A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	2N
602497B	00	D	P	G	E	N	Br	D	Y	Y		3N
602498	I	N	W	G	E	N	Dbr	I	Y	Y	Vhil	2N
603147	000	D	P	T	E	N	Br	I	Gn	Bl		2N
603148	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
603149	000	D	P	T	E	N	Br	I	Gn	Bl		2N
603150	00	N	P	T	E	N	Br	D	Y	Tn		2N
603151A	I	N	W	G	E	N	Br	I	Y	Y	Na	2N
603151B	0	N	W	G	E	N	Br	I	Y	Y	Sna	2N
603153	0	N	P	T	E	Ssp	Br	I	Y	Br		1N
603169	00	D	P	G	E	N	Br	I	Y	Y		2N
603290	I	N	P	G	A	N	Br	D	Y	Y	Vhil	2N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
597416	711	909	2.0	71	1.5	4.0^	2.3	1.0	14.7	1.43*
597417	709	909	2.5	98	3.0	2.0^	2.0	1.0	13.8	1.94*
597419	713	925	2.0	85	1.0	1.0^	1.5	1.0	18.3	1.84
597420	713	920	1.0	59	1.0	3.0^	1.8	1.5	18.1	1.75
597421	715	921	2.0	66	1.0	2.0^	1.8	1.0	15.8	1.58
597422	709	913	1.5	68	1.0	3.0^	2.3	1.0	15.1	1.57*
597423	711	911	1.5	73	1.5	1.0^	1.8	1.5	13.7	1.82
597425	711	912	2.0*	81	3.0	3.0^	2.8	1.0	16.4*	1.87*
597426	709	917	2.0	73	2.0	2.0^	1.8	1.0	16.1	2.25
597427A	713	929	1.5	61	1.0	1.0^	1.8	1.5	18.1	1.58*
597427B	717	929	3.0	92	2.0	2.0^	1.8	1.0	15.9	1.98
597428	711	923	1.0	47	1.0	1.0^	1.8	1.5	18.3	2.14
597429	713	921	1.0	65	1.0	1.0^	1.8	1.5	16.7	1.93*
597430A	711	913	2.5	73	1.5	3.0^	2.0	1.5	12.5	1.77
597430B	711	919	2.0	81	3.0	1.0^	1.8	1.0	12.8	2.06
597431	711	921	1.5	75	1.0	1.0^	1.8	2.0*	13.8	2.01
597432	713	921	1.5	69	1.0	1.0^	1.8	1.5	15.8	1.99
597433	711	917	1.5	70	1.0	1.0^	2.3	1.5	15.3	2.08
597434	711	913	2.5	84	1.5	2.0^	2.5	1.0	14.0	1.47*
597435	713	915	2.0	82	1.5	1.0^	1.8	1.0	14.5*	1.57
597436	711	927	2.5	100	2.5	1.0^	2.3*	1.0	17.1	1.99
597439	715	929	1.5	68	1.0	1.0^	1.8	1.0	17.5	1.54*
597440A	713	923	2.5	76	1.5	1.0^	1.5	1.5	17.6	2.00*
597440B	713	1001	2.5	86	1.0	1.0^	1.5	1.0	15.2	2.04*
597440C	713	1001	2.0	60*	1.0	1.0^	1.8	1.0	18.1	1.70
597442	711	915	2.5	60	1.0	2.0^	2.3	1.0	16.5	1.57
597443	713	921	2.0	84	2.5	2.0^	2.0	1.0	20.1	2.42
597444	711	923	2.5	69	1.0	3.0^	2.3	1.0	19.4	2.35
597445	713	924	2.0	66	1.0	1.0^	2.0	1.0	15.2	1.82
597446	713	923	1.5	69	2.0	1.0^	1.8	1.5	14.3	2.07
597447	709	911	1.0	54	1.0	2.0^	2.0	1.0	16.8	1.55
597467	714^	913^	1.0^	30^	1.0^	5.0^	2.5^	1.0^	12.3^	0.10^
597487	725	925*	2.5	42	1.0	2.0^	2.5	1.0	24.0	1.63
597651	713	908	1.5	46	1.0	5.0^	2.3	1.0	14.8	1.47
597652	713	909	1.5	50	1.5	5.0^	2.3	1.5	15.2	1.36
602497A	711	922	3.5	74	2.5	2.0^	2.0	1.5	17.9	1.79
602497B	708	905	1.0	46	1.0	5.0^	2.0	1.0	16.6*	1.37*
602498	721	1003	3.5	89	2.5	1.0^	1.8	2.0*	19.6	1.50
603147	710	822	1.0	37	1.0	4.0*	2.8*	1.5	16.6	0.96
603148	721	928	2.0	59	1.0	2.0^	2.3	1.5	25.9	2.01
603149	711	901	1.0	27	1.0	4.5	3.3	1.5	16.1	0.87
603150	709	906	2.5	75	2.5	2.0^	2.3	1.0	14.2	1.64*
603151A	715	928	2.5	83	3.0	1.0^	2.3	3.0*	14.7	2.37*
603151B	713	914	2.5	61	2.5	1.0^	2.0	1.5	13.0*	1.74*
603153	713	911	2.0	68*	2.5	1.0^	2.0	1.0	16.0	1.67*
603169	711	905	1.0	49	1.0	1.0^	2.0	1.5	14.1	1.28*
603290	719	1004	2.5	60	2.5	1.0^	2.3	1.0	17.6	1.23

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
597416	00	41.9	17.8	12.6	3.5	18.7	55.7	9.4
597417	00	38.9	19.5	12.9	3.7	23.2	52.1	8.1
597419	I	41.2	18.4	11.6	3.3	23.6	52.4	9.2
597420	I	40.4	19.5	12.4	3.4	21.2	54.0	9.1
597421	I	42.3	18.9	11.2	4.0	22.7	52.8	9.3
597422	0	40.5	19.3	12.2	4.2	20.0	54.6	9.0
597423	0	41.6	17.9	10.7	4.0	18.9	57.0	9.3
597425	0	40.2	20.6	10.6	4.1	23.5	52.7	9.2
597426	0	42.1	18.9	9.4	4.8	22.7	54.3	8.8
597427A	I	40.2	17.7	11.7	3.3	21.7	53.5	9.8
597427B	I	42.7	17.9	12.7	3.8	18.3	55.9	9.4
597428	I	42.5	18.0	11.5	3.9	21.2	54.6	8.8
597429	I	40.8	18.4	11.8	3.1	20.0	55.7	9.3
597430A	0	38.3	19.2	11.1	4.3	21.8	53.8	9.0
597430B	0	36.6	20.7	11.8	4.9	21.3	52.7	9.3
597431	I	40.4	18.3	10.3	4.9	19.8	54.3	10.7
597432	I	40.2	19.9	10.4	3.5	24.0	54.0	8.0
597433	0	41.2	18.2	11.5	3.5	22.9	53.7	8.4
597434	0	41.8	18.0	11.4	3.5	20.9	55.5	8.7
597435	0	41.3	17.6	11.2	4.0	21.5	54.0	9.3
597436	I	39.5	20.0	10.1	3.6	24.5	53.8	8.0
597439	I	39.7	19.2	10.6	3.6	20.4	56.0	9.3
597440A	I	40.1	19.8	11.0	3.5	22.3	55.0	8.2
597440B	I	40.0	17.5	12.2	3.4	20.5	52.7	11.3
597440C	I	39.8	18.3	10.7	3.5	22.1	55.0	8.7
597442	0	42.2	19.0	12.8	4.2	20.3	53.7	9.0
597443	I	43.0	17.5	12.4	3.3	19.9	53.9	10.5
597444	I	41.9	19.3	12.0	3.9	23.4	52.1	8.5
597445	I	41.7	18.9	12.1	3.1	20.1	55.0	9.6
597446	I	40.8	18.6	12.2	3.8	19.0	53.9	11.1
597447	0	40.9	19.8	10.4	3.9	21.1	56.3	8.3
597467	0	44.8 [^]	17.1 [^]	11.0	3.6	23.7	52.7	9.1
597487	I	44.6	16.1	12.0	2.7	20.1	53.1	12.1
597651	0	42.8	16.8	11.5	3.4	20.2	55.3	9.5
597652	0	42.8	17.0	11.0	3.4	19.1	55.8	10.7
602497A	I	42.6	17.5	11.1	3.7	17.9	56.2	11.1
602497B	00	41.3	19.5	11.0	3.4	19.9	56.9	8.8
602498	I	42.7	18.4	10.0	3.6	26.1	51.1	9.2
603147	000	56.0 ^w	15.2 ^w	11.7	2.9	17.4	58.0	10.0
603148	I	41.6	17.2	11.1	2.6	22.6	53.5	10.2
603149	000	57.9 ^w	14.8 ^w	12.1	2.8	17.8	57.2	10.1
603150	00	42.5	18.4	11.0	3.5	20.9	55.2	9.3
603151A	I	41.6	18.5	8.4	4.5	22.7	55.5	8.9
603151B	0	41.4	18.9	9.1	4.6	20.9	56.2	9.1
603153	0	44.2	17.5	10.6	3.8	23.6	52.7	9.4
603169	00	40.2	18.9	8.8	4.5	26.4	51.3	9.0
603290	I	41.6	17.5	11.2	3.1	18.8	56.8	10.0

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
603291	Bai qi kuai dou	Heilongjiang	China	China	1998	0
603293A	Zhao dong 50	Heilongjiang	China	China	1998	I
603293B	(Zhao dong 50)	Heilongjiang	China	China	1998	I
603294	Jin Yuan No. 2	Heilongjiang	China	China	1998	0
603295	Hei qi da dou	Heilongjiang	China	China	1998	0
603296	Ke shan da jin huang	Heilongjiang	China	China	1998	0
603297	Jin huang dou	Heilongjiang	China	China	1998	0
603298	Tang yuan hou ding kui	Heilongjiang	China	China	1998	I
603299	Bao qing da bai mei	Heilongjiang	China	China	1998	0
603301A	Ke dong tie jia qing	Heilongjiang	China	China	1998	0
603301B	(Ke dong tie jia qing)	Heilongjiang	China	China	1998	0
603302	Si li huang	Heilongjiang	China	China	1998	I
603304	Tang yuan tu jia zi	Heilongjiang	China	China	1998	I
603305	Niu moa huang	Heilongjiang	China	China	1998	I
603306	Xun ke xiao yang dou	Heilongjiang	China	China	1998	0
603307	Fu jin si li huang	Heilongjiang	China	China	1998	I
603308A	Niu xin hong	Heilongjiang	China	China	1998	I
603308B	(Niu xin hong)	Heilongjiang	China	China	1998	I
603309	Ning an xiao hei qi	Heilongjiang	China	China	1998	I
603310	Si li huang (Nong 16)	Heilongjiang	China	China	1998	I
603311	Fang zheng bai lu dou	Heilongjiang	China	China	1998	I
603312	Zao dou	Heilongjiang	China	China	1998	I
603313	Bai lu dou	Heilongjiang	China	China	1998	00
603314	Bai lu dou (Xiao bai hua)	Heilongjiang	China	China	1998	00
603315	Si li huang (Nong 27)	Heilongjiang	China	China	1998	I
603316	Suo yi ling	Heilongjiang	China	China	1998	000
603317	Xiao jin huang	Heilongjiang	China	China	1998	I
603318	Xiao zhu yao	Heilongjiang	China	China	1998	I
603319	Sui wei tu si zi	Heilongjiang	China	China	1998	0
603320	Yong feng dou	Heilongjiang	China	China	1998	0
603321	Xiao hong qi	Heilongjiang	China	China	1998	I
603322	Hei qi dou	Heilongjiang	China	China	1998	0
603323	Kui wu dou a	Heilongjiang	China	China	1998	I
603324A	Da jin huang	Heilongjiang	China	China	1998	0
603324B	(Da jin huang)	Heilongjiang	China	China	1998	I
603325	Si li huang	Heilongjiang	China	China	1998	I
603326	Tie jia qing	Heilongjiang	China	China	1998	I
603327	Xiao huang qi	Heilongjiang	China	China	1998	I
603328	Kuai dou	Heilongjiang	China	China	1998	0
603329	Yi wo feng D	Heilongjiang	China	China	1998	I
603330	Ping ding xiang B	Heilongjiang	China	China	1998	I
603331	Xiao hui qi	Heilongjiang	China	China	1998	I
603332	Xiao he qi No. 2	Heilongjiang	China	China	1998	I
603334	Guan shi suo	Heilongjiang	China	China	1998	I
603335A	Hei jin yuan	Heilongjiang	China	China	1998	0
603337A	Yan shou chang li hei	Heilongjiang	China	China	1998	I
603338	Cha se dou B	Heilongjiang	China	China	1998	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
603291	0	N	P	G	E	Ssp	Br	I	Y	Tn	Sabh	2N
603293A	I	N	W	G	E	N	Br	I	Y	Lbf	Sabh	2N
603293B	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603294	0	N	P	G	E	N	Tn	D	Y	Y		3N
603295	0	N	P	T	E	N	Br	I	Y	Bl		3N
603296	0	N	W	G	E	N	Br	D	Y	Y		3N
603297	0	S	P	G	E	N	Bl	I	Y	Y		2N
603298	I	D	P	G	E	N	Br	I	Y	G		2N
603299	0	N	P	G	E	N	Br	I	Y	Y		2N
603301A	0	S	W	G	E	N	Br	I	Y	Y		2N
603301B	0	D	P	G	E	N	Br	D	Y	Y		2N
603302	I	N	W	G	E	N	Br	I	Y	Y	Vhil	3N
603304	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603305	I	N	P	T	E	Ssp	Tn	I	Y	Tn		2N
603306	0	N	P	G	E	N	Br	I	Y	Y		3N
603307	I	N	P	T	E	N	Br	I	Y	G		3N
603308A	I	N	P	G	E	N	Br	I	Y	Y		2N
603308B	I	N	P	G	E	N	Br	I	Y	Y		2N
603309	I	S	P	G	E	Ssp	Br	I	Y	Y	Na	2N
603310	I	D	W	G	E	N	Br	I	Y	Y	Na,Vhil	1N
603311	I	S	P	G	E	N	Br	I	Y	Ib		3N
603312	I	S	W	G	E	N	Br	I	Y	Y	Vhil	2N
603313	00	N	P	G	E	Ssp	Br	I	Y	Y		2N
603314	00	D	P	G	E	N	Br	D	Y	Y		3N
603315	I	N	W	G	E	N	Br	I	Y	Bf		4N
603316	000	N	P	G	E	N	Br	I	Y	Y		2N
603317	I	N	P	G	E	N	Br	I	Y	Ib		3N
603318	I	N	W	G	E	N	Br	I	Y	Bf		3N
603319	0	N	P	G	E	N	Br	D	Y	Y	Sdef	2N
603320	0	S	W	G	E	N	Br	I	Y	Y		2N
603321	I	N	W	T	E	N	Br	I	Y	Br		2N
603322	0	N	W	G	E	Ssp	Br	I	Y	Bf	Sabh	2N
603323	I	D	P	G	E	N	Br	I	Y	Y		3N
603324A	0	N	P	G	E	N	Br	I	Y	Y		2N
603324B	I	N	W	G	E	N	Dbr	I	Y	Y	Sabh,Vhil	2N
603325	I	N	W	G	E	N	Dbr	I	Y	Bf		3N
603326	I	S	P	G	E	N	Dbr	I	Y	Y		2N
603327	I	S	P	G	E	N	Dbr	I	Y	Y		3N
603328	0	N	P	G	E	N	Dbr	D	Y	Y		2N
603329	I	D	P	G	E	N	Br	I	Y	Y		3N
603330	I	D	P	G	E	N	Br	I	Y	Y		2N
603331	I	D	P	G	E	Ssp	Br	I	Y	G		2N
603332	I	N	P	G	E	Ssp	Br	I	Y	G		3N
603334	I	S	P	G	E	N	Br	I	Y	Y		3N
603335A	0	N	W	G	E	N	Br	I	Y	Lbf		2N
603337A	I	N	P	Lt	E	Ssp	Br	Lb	Bl	Bl	Flk	4F
603338	I	N	W	T	E	Ssp	Br	I	Br	Br		2N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
603291	711	913	2.5	68	2.5	2.0 [^]	2.5	2.5*	18.0*	1.30*
603293A	717	1001	4.0*	102	3.0	1.0 [^]	1.8	2.0*	18.9	1.98
603293B	715	930	3.5	78	2.5	1.0 [^]	1.5	2.0*	20.1	1.78
603294	713	915	2.0	61	2.5	1.0 [^]	2.0	2.0*	15.7	1.61
603295	715	913	3.0*	70	2.5	3.0 [^]	2.5	2.0*	14.6	1.45
603296	711	911	2.5	75	3.0	3.0 [^]	2.8	2.0*	15.0	1.68
603297	711	909	1.5	56	2.0	2.0 [^]	2.5	2.0*	12.4	1.48
603298	713	929	2.5	75*	1.0	1.0 [^]	1.8	1.0	19.7	2.29
603299	713	920	2.5	66	2.5	2.0 [^]	2.0	1.0	16.6	2.27
603301A	713	914	2.5	86	2.0	1.0 [^]	2.3	2.0*	15.4	1.92
603301B	715	915	2.0	61	1.5	2.0 [^]	2.3	2.0*	15.0	1.67
603302	720	1007	3.5	89	3.0	1.0 [^]	1.8	3.0*	21.9	2.00
603304	713	929	3.0*	85	3.0	1.0 [^]	2.0	2.5*	21.3*	2.12
603305	715	921	4.0	67	2.5	1.0 [^]	2.5	1.5	15.1	1.99
603306	713	908	3.0*	63	3.0	2.0 [^]	2.0	1.0	16.8	1.27
603307	715	927	3.5	81	2.5	1.0 [^]	2.0	3.0	16.6	2.20
603308A	715	929	2.0*	71	2.5	2.0 [^]	2.0	2.0*	23.3	1.84*
603308B	717	930	3.5	97	3.0	2.0 [^]	2.0	1.0	19.2	2.03*
603309	713	922	2.5	70	2.5	3.0 [^]	2.0 [^]	1.0 [^]	19.8 [^]	1.52 [^]
603310	715	1002	2.5	74	1.0	2.0 [^]	1.8	1.5	18.7	1.65
603311	723	1002	4.0	92	2.0	1.0 [^]	2.3	1.0	15.2	1.94
603312	713	918	2.0*	74	2.0	1.0 [^]	2.5	1.5	21.0	1.85
603313	709	906	3.0	56	3.0 [^]	-	2.5 [^]	1.0 [^]	18.5 [^]	1.50 [^]
603314	711	905	1.5	51	1.0	4.0 [^]	1.8	1.0	16.3*	1.42*
603315	713	927*	3.0	84	2.5	1.0 [^]	2.5	1.0	19.1	1.97
603316	711	830	2.0*	76*	2.5	3.0 [^]	2.0	1.0	13.5*	1.19
603317	723	922	4.0	71	2.5	2.0 [^]	2.0	2.0*	14.5	0.90
603318	722	925	4.0	79	2.5	2.0 [^]	1.8	1.0	15.4	1.63
603319	711	915	1.0	63	2.5	1.0 [^]	2.8	1.0	17.6	1.95*
603320	713	915	2.0	69	2.0	1.0 [^]	2.3	2.0*	14.5	1.34*
603321	717	1004	3.0*	84	2.5	1.0 [^]	1.8	1.5	20.8	2.02
603322	711	917	2.5	74	2.5	2.0 [^]	2.8	2.0*	21.9*	1.70
603323	713	927	3.0*	60	1.0	1.0 [^]	2.0	2.0*	15.5	1.73
603324A	711	909	2.5	65	2.5	2.0 [^]	2.5	2.0*	13.7	1.50*
603324B	715	1001	3.5	84	2.5	1.0 [^]	1.8	1.5	20.9	1.84
603325	725	1003	3.5	85*	2.5	1.0 [^]	1.5	1.0	19.0	1.91
603326	713	921	2.5	74	2.0	2.0 [^]	1.5	2.5*	16.1	1.72*
603327	721	927	3.5	76	2.0	1.0 [^]	2.0	2.0*	17.1	1.97
603328	711	913	2.0	61*	2.5	2.0 [^]	2.3*	2.0*	15.1	1.55*
603329	713	929	3.0*	75*	1.5	1.0 [^]	1.5	1.0	14.4	2.09
603330	713	1001	3.0	56	1.0	1.0 [^]	1.8	1.0	16.0	2.02
603331	724	1001	2.0	59	1.0	1.0 [^]	1.5	1.5	13.5	1.25*
603332	721	1007	3.5	102	3.0	1.0 [^]	1.8	2.0*	23.2	2.29
603334	724*	1009	2.5	84	2.0	2.0 [^]	4.3	1.0	17.5	0.85*
603335A	713	920	3.0*	73	2.5	1.0 [^]	2.0	1.0	16.6	1.73*
603337A	722	1003	3.5	88	3.0	1.0 [^]	2.3	--	9.8	1.64
603338	721	1001	3.0*	112*	3.0	1.0 [^]	1.8	--	16.6	1.92

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603291	0	44.5	17.7	9.4	4.6	22.4	53.8	9.8
603293A	I	40.7	19.5	10.4	2.7	27.7	51.1	8.2
603293B	I	42.1	18.2	12.3	2.8	19.4	55.2	10.2
603294	0	43.4	18.0	9.1	3.8	24.4	55.0	7.8
603295	0	42.8	17.4	9.4	3.6	20.2	57.4	9.4
603296	0	43.1	18.0	9.5	3.8	22.1	55.1	9.4
603297	0	43.1	17.1	8.9	3.5	18.9	58.2	10.5
603298	I	40.2	19.2	10.4	2.7	20.8	55.7	10.3
603299	0	41.9	18.4	9.3	4.0	18.0	57.9	10.8
603301A	0	42.3	17.1	9.6	4.0	20.6	56.4	9.4
603301B	0	41.7	17.9	9.4	4.2	21.8	55.9	8.7
603302	I	40.9	18.2	9.3	2.7	26.0	53.4	8.6
603304	I	40.4	17.8	10.5	3.4	24.9	52.3	8.9
603305	I	41.5	18.2	10.4	3.0	21.5	55.7	9.5
603306	0	42.0	17.9	12.2	3.0	20.1	55.2	9.6
603307	I	47.0	16.9	10.9	2.7	18.7	57.8	9.9
603308A	I	40.4	17.3	11.0	2.7	23.4	53.5	9.4
603308B	I	41.0	17.6	9.9	3.0	20.0	57.7	9.4
603309	I	44.0 [^]	17.6 [^]	11.3	3.4	19.8	54.5	11.0
603310	I	42.6	17.7	11.4	3.1	20.4	55.2	10.0
603311	I	39.8	18.7	11.0	2.9	20.3	55.7	10.0
603312	I	40.4	19.8	10.2	3.2	25.9	51.9	8.9
603313	00	41.1 [^]	18.0 [^]	11.1	4.3	20.7	53.7	10.2
603314	00	40.9	19.1	10.4	3.5	20.3	56.7	9.1
603315	I	40.9	18.9	10.4	2.6	27.6	50.3	9.0
603316	000	42.9	19.1	10.8	3.5	23.6	52.8	9.4
603317	I	42.6	19.0	8.6	4.6	22.0	55.8	9.0
603318	I	43.6	19.1	9.4	4.3	22.3	54.2	9.8
603319	0	42.0	17.8	9.8	3.7	21.2	55.0	10.3
603320	0	41.9	18.6	10.0	4.3	20.5	55.3	9.8
603321	I	40.4	18.3	10.7	2.6	23.6	53.9	9.3
603322	0	42.4	18.1	9.3	3.7	26.9	51.4	8.7
603323	I	41.4	18.1	10.4	3.2	20.3	55.5	10.6
603324A	0	45.3	17.2	9.8	3.8	21.0	54.4	11.0
603324B	I	41.6	17.9	10.0	2.7	25.4	52.6	9.3
603325	I	40.8	18.9	10.2	3.0	27.4	50.6	8.9
603326	I	41.0	19.4	10.0	4.3	24.4	52.2	9.0
603327	I	40.0	18.6	11.0	2.8	26.1	50.5	9.6
603328	0	42.0	18.0	9.2	3.4	23.6	53.4	10.4
603329	I	41.8	18.6	10.0	3.4	21.8	54.5	10.3
603330	I	42.1	17.6	9.8	3.2	18.9	57.2	10.9
603331	I	44.7	16.5	11.1	2.6	18.1	57.4	10.9
603332	I	42.4	18.0	10.8	2.7	26.5	50.7	9.4
603334	I	40.6	18.6	10.3	4.0	19.0	56.0	10.7
603335A	0	40.1	20.0	9.2	4.4	25.1	52.9	8.4
603337A	I	50.2 ^w	14.9 ^w	10.2	3.0	18.7	55.8	12.3
603338	I	51.9 ^w	19.4 ^w	9.1	2.9	20.8	57.9	9.3

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
603339A	An gua dou	Heilongjiang	China	China	1998	I
603339B	(An gua dou)	Heilongjiang	China	China	1998	I
603341	Da bai mei	Jilin	China	China	1998	I
603342	Guo yu B5	Jilin	China	China	1998	I
603344	Ha No. 2	Jilin	China	China	1998	I
603345	Gong jiao 5603-2	Jilin	China	China	1998	II
603346A	Zhi No. 3	Jilin	China	China	1998	0
603346B	(Zhi No. 3)	Jilin	China	China	1998	I
603348A	Si li huang	Jilin	China	China	1998	I
603348B	(Si li huang)	Jilin	China	China	1998	I
603349	Da li huang	Jilin	China	China	1998	I
603350	Da li huang	Jilin	China	China	1998	I
603351	Da li huang	Jilin	China	China	1998	I
603352	Xiao jin huang	Jilin	China	China	1998	I
603354	Xiao bai mei	Jilin	China	China	1998	I
603355	Suo yi ling	Jilin	China	China	1998	I
603356	Yi wo feng	Jilin	China	China	1998	I
603357	Du Lu Dou	Jilin	China	China	1998	I
603359	Xiao hei qi	Jilin	China	China	1998	I
603360	Bai lu dou	Jilin	China	China	1998	I
603361	Da bai mei	Jilin	China	China	1998	I
603362	Beng pi	Jilin	China	China	1998	I
603367	Hong mao	Jilin	China	China	1998	I
603371	Tie jia qing	Jilin	China	China	1998	I
603373	Cha se dou	Jilin	China	China	1998	I
603375	Qian guo jian ye he jia dou	Jilin	China	China	1998	I
603376	Shu lan da ye huang jin ta	Jilin	China	China	1998	I
603377	Jiu tai wu xian bai hua	Jilin	China	China	1998	I
603378A	Yong ji bei jing dou	Jilin	China	China	1998	I
603378B	(Yong ji bei jing dou)	Jilin	China	China	1998	I
603379	Wang qing shen xian dong	Jilin	China	China	1998	I
603380	Hua dian huang bao zhu	Jilin	China	China	1998	I
603382A	Hai long feng di huang	Jilin	China	China	1998	I
603383	Ke xi 209	Jilin	China	China	1998	I
603388	Niu mao huang	Liaoning	China	China	1998	I
603400	Tian e dan	Liaoning	China	China	1998	I
603408	Qing dou	Liaoning	China	China	1998	I
603422B	(Hei dou)	Nei Monggol	China	China	1998	II
603424A	Ben di huang dou	Nei Monggol	China	China	1998	0
603424B	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603424C	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603424D	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603426A	Ben di yuan huang dou	Nei Monggol	China	China	1998	00
603426B	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	0
603426C	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	00
603426D	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	0
603426E	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	0

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
603339A	I	N	P	T	E	N	Br	I	Br	Bl	Sad	2N
603339B	I	N	W	T	E	N	Br	I	Br	Bl	Sad	3N
603341	I	D	P	G	E	N	Br	I	Y	Y		3N
603342	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603344	I	N	W	G	E	N	Br	I	Y	Y		2N
603345	II	S	W	G	E	N	Br	I	Y	Bf		3N
603346A	0	N	W	G	E	N	Br	I	Y	Y		2N
603346B	I	S	W	G	E	Ssp	Br	I	Y	Bf		3N
603348A	I	S	W	G	E	N	Bl	D	Y	Lbf		2N
603348B	I	N	W	G	E	Ssp	Bl	D	Y	Lbf		1N
603349	I	N	P	G	E	N	Br	I	Y	G		2N
603350	I	S	P	G	E	Ssp	Br	I	Y	Y		1N
603351	I	N	W	G	E	N	Dbr	I	Y	Lbf		3N
603352	I	N	W	G	E	N	Dbr	I	Y	Y	Vhil	2N
603354	I	S	P	G	E	N	Dbr	I	Y	Y		3N
603355	I	D	W	G	E	N	Br	D	Y	Bf		3N
603356	I	D	P	G	E	N	Br	I	Y	Y		3N
603357	I	D	P	G	E	Ssp	Tn	I	Y	Y		2N
603359	I	S	P	G	E	N	Dbr	I	Y	Ib	Vhil	2N
603360	I	N	P	G	E	N	Br	D	Y	Y		2N
603361	I	N	P	G	E	N	Br	D	Y	Y		2N
603362	I	S	W	G	E	N	Dbr	I	Y	Lbf		2N
603367	I	N	W	T	E	Ssp	Bl	I	Y	Tn		3N
603371	I	N	P	T	E	N	Bl	I	Gn	Tn	Gnc	3N
603373	I	N	W	T	E	Ssp	Br	I	Br	Rbr		3N
603375	I	N	W	G	E	Ssp	Bl	I	Y	Lbf	Na	2N
603376	I	D	P	G	E	Ssp	Br	I	Y	Y		2N
603377	I	N	W	G	E	N	Br	I	Y	Y		2N
603378A	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	1N
603378B	I	D	W	G	E	Ssp	Br	I	Y	Y		2N
603379	I	N	W	G	E	N	Br	I	Y	Lbf		2R
603380	I	S	W	G	E	N	Br	I	Y	Y		2N
603382A	I	S	W	G	E	N	Br	I	Y	Y		3N
603383	I	N	P	G	E	N	Br	D	Y	Y		3N
603388	I	N	W	T	E	N	Br	I	Y	Tn		2N
603400	I	N	W	G	E	N	Br	I	Y	Bf		2N
603408	I	N	W	T	E	N	Br	I	Gn	Brbl	Gnc,Vhil	3N
603422B	II	N	P	T	E	N	Br	I	Bl	Bl		5F
603424A	0	N	W	G	E	N	Br	I	Y	Y		2N
603424B	I	D	P	T	E	N	Tn	I	Y	Br	Abh	3N
603424C	I	D	P	T	E	N	Tn	I	Y	Br	Abh	3N
603424D	I	N	P	T	E	N	Br	D	Y	Br	Sw	3N
603426A	00	S	P	T	E	N	Tn	I	Y	Br	Abh	2N
603426B	0	S	P	G	E	Ssp	Br	I	Y	Y		2N
603426C	00	S	P	G	E	Ssp	Br	I	Y	Y		2N
603426D	0	S	W	G	E	N	Br	I	Y	Y	Sabh	2N
603426E	0	D	P	T	E	N	Tn	I	Y	Br	Abh,Dab	2N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	(score)	(score)
	(mmdd)	(mmdd)					(score)	(score)	(cg/sd)	(Mg/ha)
603339A	717	923	3.0*	73	2.5	2.0^	2.0	--	17.5	1.83*
603339B	715	1003	2.5	95	2.5	2.0^	1.8	--	17.0	2.11
603341	715	926	2.0*	63	1.0	2.0^	2.0	1.0	16.9	2.05
603342	715	925	2.5	81	2.5	1.0^	1.8	1.0	19.7	2.09
603344	713	925	2.5	79	2.5	2.0^	2.0	1.0	19.9	1.82
603345	718	1011	3.5	100	2.5	2.0^	2.3*	1.5	15.4	1.86
603346A	711	917	2.0	85	2.5	1.0^	2.5	1.0	18.9	1.60*
603346B	714^	921^	2.0^	76^	2.0^	2.0^	2.0^	1.0^	16.5^	0.86^
603348A	717	1001	3.0	80	2.0	2.0^	2.0	2.0	15.7	2.04
603348B	723	1007	3.0	107	2.5	2.0^	2.3	2.0	16.8	2.12
603349	717	1009	3.0	106	3.0	1.0^	2.3	1.5	19.9	1.79
603350	719	1005	2.0	88	2.0	1.0^	2.0	2.0*	18.2	1.87
603351	721	1009	3.5	97	2.0	1.0^	1.8	1.5	19.0	2.04
603352	722	1003	3.5	84	3.0	1.0^	1.8	2.0*	18.8	1.52
603354	723*	1001	3.0	71*	2.0	2.0^	1.8	1.5	13.8	1.88
603355	724*	1003	2.5	64	1.0	1.0^	2.0	1.5	16.6	1.83
603356	715	925	2.0	60	1.5	2.0^	1.8	1.5	15.7	1.40*
603357	718	1001	2.0	65	1.0	1.0^	2.0	1.5	12.8	1.51
603359	725	1009	3.5	79	2.0	1.0^	2.0	1.0	17.0	1.82*
603360	713	918	2.5	86	2.5	2.0^	2.3	1.5	18.4	1.85
603361	727	1005	2.5	82*	2.5	2.0^	2.5	1.0	23.2	1.77
603362	721	1009	2.5	83*	2.5	1.0^	2.3	1.0	14.3	2.19*
603367	723	1005	3.0	102	3.0	1.0^	2.3	3.0	13.7	1.61
603371	725	1001	2.0	74	2.5	1.0^	2.8	4.0	14.0	1.22
603373	726	1003	3.0	86	3.0	1.0^	3.0	--	15.1	1.47
603375	717	1001	3.0*	89	2.5	2.0^	2.3	1.5	15.4	1.29*
603376	723*	925	1.5	50	1.0	2.0^	2.0	2.0*	16.0	1.30
603377	724	930	3.5	112*	3.0	3.0^	2.0	1.5	16.0	1.64
603378A	718*	1003	2.0	73	1.5	2.0^	2.0	1.5	18.0	1.52
603378B	725*	1004	2.0	66*	1.5	2.0^	2.0	1.5	18.3	1.76*
603379	711	923	2.0	83	2.5	2.0^	1.8	1.0	20.8	1.83*
603380	721*	1007	3.0	69	2.0	1.0^	2.0	1.5	16.5	1.74*
603382A	713	1001	2.0	72	2.0	1.0^	2.8	2.0*	16.8	2.03
603383	719	923	4.0	86	2.5	2.0^	2.3	1.5	16.6	1.63
603388	717	925	3.0	80	2.5	2.0^	1.8	1.5	16.3	1.66
603400	719	1008	4.0	102	3.0	2.0^	2.0	2.0*	14.6*	1.46
603408	728	1005	2.5	73*	3.0	2.0^	2.0	1.0	10.3	1.02
603422B	804	1009	5.0	122	4.0	2.0^	2.5	--	7.8	0.87
603424A	709	909	3.0	65	3.0	3.0^	2.5	1.0	14.3	1.58*
603424B	715	923	3.5	52	2.5*	2.0^	2.0	2.0*	13.4	1.86
603424C	717	1005	3.0	58	1.5	2.0^	2.0	2.0*	11.2	1.02
603424D	721	1005	5.0	127	4.5	1.0^	2.3	2.5	10.9	1.20
603426A	709	904	4.0	58	2.0	2.0^	2.3	1.0	11.1	1.17
603426B	709	908	2.0	59	2.0	5.0^	2.0	1.0	15.1	1.37
603426C	709	905	2.0	57	2.0	4.0^	2.0	1.0	17.3	1.33*
603426D	711	912	2.5	80	2.0	2.0^	2.0	1.0	15.3	1.66*
603426E	711	909	4.0	56	1.0	1.0^	2.0	1.0	9.9	1.15

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603339A	I	47.7 ^w	17.6 ^w	10.0	2.9	20.0	56.8	10.2
603339B	I	50.0 ^w	17.0 ^w	9.6	2.7	15.0	60.6	12.1
603341	I	41.6	17.9	10.2	3.3	21.6	54.5	10.3
603342	I	41.0	18.6	10.5	2.6	27.4	50.8	8.7
603344	I	41.5	19.4	10.6	2.7	26.2	51.6	8.9
603345	II	41.9	17.6	9.6	2.9	22.1	55.8	9.5
603346A	0	41.6	19.5	9.5	4.0	25.2	53.1	8.3
603346B	I	43.7 [^]	15.9 [^]	8.8	3.6	23.0	53.7	10.8
603348A	I	41.9	17.4	10.9	3.0	19.4	55.8	10.9
603348B	I	40.7	17.1	10.8	2.4	19.9	55.6	11.3
603349	I	42.2	17.5	10.7	2.3	22.4	54.6	10.0
603350	I	42.4	17.6	11.6	2.7	19.8	55.6	10.3
603351	I	41.6	18.6	10.7	3.2	24.3	52.7	9.2
603352	I	42.6	18.2	10.2	3.1	27.3	50.1	9.3
603354	I	43.8	17.1	11.0	3.1	21.3	55.0	9.6
603355	I	42.3	17.9	10.4	3.3	22.0	55.3	9.1
603356	I	42.4	17.9	10.6	3.6	19.9	55.2	10.8
603357	I	40.8	17.5	10.2	2.9	20.6	55.8	10.5
603359	I	44.1	17.5	11.1	3.0	19.0	55.4	11.6
603360	I	40.4	18.3	11.2	2.8	24.4	53.6	8.0
603361	I	41.2	17.6	10.6	2.9	24.7	51.4	10.4
603362	I	41.8	17.5	11.7	3.5	19.4	55.3	10.0
603367	I	48.7 ^w	15.9 ^w	10.0	2.6	15.3	59.4	12.8
603371	I	51.8 ^w	15.0 ^w	10.0	3.0	17.1	58.4	11.5
603373	I	50.8 ^w	17.5 ^w	8.9	2.8	21.0	58.0	9.3
603375	I	39.5	18.3	12.3	3.4	20.7	54.2	9.5
603376	I	43.8	16.7	11.0	2.8	18.1	57.6	10.6
603377	I	42.2	17.7	11.2	2.8	22.8	54.0	9.3
603378A	I	39.8	17.5	11.0	3.3	18.9	56.1	10.7
603378B	I	39.6	18.5	10.9	2.8	22.4	54.9	9.0
603379	I	41.5	18.5	9.1	3.5	30.7	49.3	7.3
603380	I	39.7	18.4	11.3	2.5	18.4	56.9	10.8
603382A	I	48.9 ^w	12.6 ^w	10.3	2.5	20.6	55.8	10.8
603383	I	42.6	17.3	11.1	3.1	23.2	53.0	9.7
603388	I	41.2	19.0	10.8	3.9	22.3	53.1	9.9
603400	I	39.5	18.3	11.6	3.1	20.0	55.1	10.3
603408	I	46.2 ^w	18.2 ^w	9.7	3.6	18.8	56.9	11.1
603422B	II	49.0 ^w	16.3 ^w	9.7	2.6	16.1	59.5	12.0
603424A	0	41.9	18.3	10.7	4.3	20.4	55.5	9.1
603424B	I	41.7 [^]	17.3 [^]	13.7	2.9	19.7	54.4	9.3
603424C	I	43.7	16.3	13.3	3.0	17.3	55.7	10.6
603424D	I	41.2	16.4	11.2	2.7	17.5	57.4	11.2
603426A	00	42.0	17.5	11.2	4.0	24.6	51.8	8.5
603426B	0	41.7	18.0	10.0	3.6	20.9	54.6	10.8
603426C	00	38.7	18.5	11.1	4.7	22.3	52.5	9.4
603426D	0	38.7	19.9	10.5	4.4	23.2	53.4	8.5
603426E	0	42.3	17.2	12.1	4.1	18.4	55.7	9.7

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
603426F	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	I
603427A	Qing dou	Nei Monggol	China	China	1998	I
603427B	(Qing dou)	Nei Monggol	China	China	1998	I
603428A	Da li hei dou	Nei Monggol	China	China	1998	I
603429A	Cha dou	Nei Monggol	China	China	1998	0
603429B	(Cha dou)	Nei Monggol	China	China	1998	0
603429C	(Cha dou)	Nei Monggol	China	China	1998	I
603430B	(Da hei qi)	Nei Monggol	China	China	1998	I
603431	Chi feng da hei qi	Nei Monggol	China	China	1998	I
603432A	Huang dou	Nei Monggol	China	China	1998	00
603432B	(Huang dou)	Nei Monggol	China	China	1998	0
603432C	(Huang dou)	Nei Monggol	China	China	1998	I
603435A	Huang dou	Nei Monggol	China	China	1998	00
603437A	Huang dou	Nei Monggol	China	China	1998	00
603437B	(Huang dou)	Nei Monggol	China	China	1998	0
603437C	(Huang dou)	Nei Monggol	China	China	1998	0
603438A	Da hei qi	Nei Monggol	China	China	1998	I
603438B	(Da hei qi)	Nei Monggol	China	China	1998	I
603439	74-2	Nei Monggol	China	China	1998	I
603440A	Nong yan da bai qi	Nei Monggol	China	China	1998	0
603440B	(Nong yan da bai qi)	Nei Monggol	China	China	1998	I
603443A	Ke qi xiao hei dou	Nei Monggol	China	China	1998	I
603443B	(Ke qi xiao hei dou)	Nei Monggol	China	China	1998	0
603444B	(Hei dou)	Nei Monggol	China	China	1998	I
603445A	Da li hei dou	Nei Monggol	China	China	1998	I
603447	Ka qi mao yan dou	Nei Monggol	China	China	1998	I
603479	Qing ba yue xian	Shandong	China	China	1998	I
603546A	Xiao hei dou	Shanxi	China	China	1998	I
603561	Huang dou	Shanxi	China	China	1998	I
603587A	Hei jin gang	Shanxi	China	China	1998	I
603594	Xia men da hong dou	Fujian	China	China	1998	II
603659	Huai hua 79-16	Hunan	China	China	1998	I
603666	Li gong gang huang dou No. 2	Hunan	China	China	1998	II
603698A	Dan yang shui bai dou	Jiangsu	China	China	1998	0
603698B	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698C	(Dan yang shui bai dou)	Jiangsu	China	China	1998	0
603698D	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698E	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698F	(Dan yang shui bai dou)	Jiangsu	China	China	1998	0
603698G	(Dan yang shui bai dou)	Jiangsu	China	China	1998	00
603698H	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698I	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698J	(Dan yang shui bai dou)	Jiangsu	China	China	1998	0
603704A	Ya que yan	Jiangxi	China	China	1998	I
603712	Zi pi dou	Sichuan	China	China	1998	0
603727	Hei da dou	Sichuan	China	China	1998	I
603750A	92-526	Sichuan	China	China	1998	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
603426F	I	D	P	T	E	N	Tn	I	Y	Br	Abh	4N
603427A	I	N	W	Lt	E	Ssp	Br	I	Gn	Bl	Gnc	4N
603427B	I	N	W	Lt	E	N	Br	I	Gn	Bl	Gnc	3N
603428A	I	N	W	T	E	N	Br	I	Bl	Bl		3N
603429A	0	N	W	Lt	E	N	Br	I	Rbr	Rbr		3N
603429B	0	N	W	T	E	N	Br	I	Rbr	Rbr		2N
603429C	I	N	W	T	E	N	Br	I	Rbr	Rbr	Dab	3N
603430B	I	N	P	T	E	N	Br	I	Y	Bl	Sabh	3N
603431	I	N	W	T	E	N	Br	I	Y	Bl	Sabh	3N
603432A	00	S	P	T	E	N	Br	D	Y	Tn		2N
603432B	0	N	P	T	E	N	Br	D	Y	Tn	Dab	3N
603432C	I	N	P	T	E	N	Br	I	Y	Y	Vhil	2N
603435A	00	D	P	G	E	N	Br	D	Y	Y		2N
603437A	00	N	W	G	E	N	Br	I	Y	Y		2N
603437B	0	S	P	G	E	Ssp	Br	S	Y	Y		2N
603437C	0	N	P	G	E	N	Br	D	Y	Y		2N
603438A	I	N	P	T	E	N	Br	I	Y	Bl		4N
603438B	I	N	P	T	E	N	Br	I	Y	Bl		4N
603439	I	N	P	G	E	N	Br	I	Y	Bf		2N
603440A	0	S	P	G	E	N	Dbr	I	Y	Y		2N
603440B	I	S	P	G	E	N	Tn	I	Y	Y		2N
603443A	I	N	P	Lt	E	N	Br	I	Bl	Bl		4F
603443B	0	S	P	Lt	Sa	N	Tn	I	Bl	Bl		4F
603444B	I	N	P	T	E	N	Br	Lb	Bl	Bl		5F
603445A	I	N	W	T	E	N	Br	I	Bl	Bl		3N
603447	I	N	P	T	E	N	Br	I	Br	Bl	Sabh,Sad	3N
603479	I	N	W	T	A	N	Br	D	Gn	Br		4N
603546A	I	D	P	T	E	N	Br	Lb	Bl	Bl		3N
603561	I	S	W	G	E	N	Br	S	Y	Y		3N
603587A	I	N	W	T	Sa	N	Dbr	I	Bl	Bl		4N
603594	II	N	W	Lt	A	N	Br	I	Rbr	Rbr		3N
603659	I	D	W	G	Va	N	Tn	I	Y	Y		2N
603666	II	N	P	G	A	N	Tn	I	Y	Bf		3N
603698A	0	N	W	G	E	N	Br	I	Y	Y	Vhil,Vsc	3N
603698B	I	N	W	G	E	N	Br	I	Lgn	Bf		3N
603698C	0	N	P	G	E	N	Br	D	Gn	Gn	Vhil,Vsc	3N
603698D	I	N	P	G	E	N	Br	I	G	G		2N
603698E	I	S	P	G	E	N	Br	I	Ggn	G		2N
603698F	0	N	P	G	E	N	Br	D	Y	Ib	Vsc	3N
603698G	00	D	P	G	E	N	Tn	I	G	G	Vhil,Vsc	3N
603698H	I	N	P	G	E	N	Br	D	Lgn	Gn	Vhil,Vsc	3N
603698I	I	N	W	G	E	N	Br	I	Y	Y		3N
603698J	0	D	W	G	E	N	Br	I	Y	Dbf		3N
603704A	I	S	P	Lt	Sa	Ssp	Br	I	Y	Brbl	Vhil	3N
603712	0	S	P	Lt	A	N	Tn	I	Br	Rbr		3N
603727	I	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		3N
603750A	I	D	P	T	A	N	Tn	I	Y	Br		3N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
603426F	721	1005	3.5	60*	1.5	3.0^	2.0	1.5	11.8	1.31
603427A	726	1008	4.0	92	3.0	2.0^	2.5	2.5	12.3	1.48
603427B	727*	1007	4.0	78*	3.0	1.0^	2.3	1.5	13.0	1.52
603428A	719	1005	3.5	101	3.0	1.0^	1.8	--	19.2	1.99
603429A	717	917*	4.0	72*	4.5	4.0^	2.0	--	15.5	1.87
603429B	717	915*	4.0	70	3.0	1.0^	2.0	--	20.4	1.97
603429C	719	923	4.0	87*	2.5	2.0^	2.0	--	13.5	1.38
603430B	727	1002	4.0	85	2.5	2.0^	1.8	1.5	17.0	1.46
603431	725	1005	2.5	84	2.5	2.0^	1.5	1.0	18.3	1.48
603432A	709	906	2.0	70	2.0	2.0^	2.3	1.0	14.9	1.69
603432B	713	911	4.5	71	3.0	2.0^	2.3	1.0	13.1	1.25
603432C	713	915	2.0	70	2.5	2.0^	2.3	1.5	15.0	1.60
603435A	707	903	1.5	51	1.0	5.0^	2.3	1.0	15.3	1.59*
603437A	709	907	3.5	70	3.0	2.0^	2.5	1.0	14.4	1.36
603437B	711	911	2.0	79	2.0	3.0^	1.8	1.0	13.7	1.76
603437C	709	911	2.5	84	3.0	2.0^	2.3	1.0	15.4	1.96*
603438A	727	929	4.0	89*	2.5	2.0^	2.0	1.0	15.1	1.72
603438B	725*	1004	4.0	86	2.5	2.0^	2.3	1.5	16.0	1.57
603439	717	1001	2.5	85	2.5	2.0^	2.0	1.0	17.4	1.88
603440A	714^	912^	2.0^	69^	2.0^	1.0^	2.5^	2.0^	17.5^	1.29^
603440B	720*	925*	3.5*	80	1.5	2.0^	1.8	1.0	16.5	2.00
603443A	802	1007	4.5	83	4.0	2.0^	2.3	--	7.7	0.98*
603443B	715	913	3.0	64*	3.5	2.0^	2.5	--	10.7	0.86
603444B	721	1007	3.5	89	3.0	2.0^	3.0	--	10.2	0.84
603445A	721	1007	3.0	73	3.0	1.0^	2.0	--	22.1*	1.58
603447	728	1007	4.0	92	3.0	2.0^	2.3	--	16.5	1.30
603479	801	1007	3.0	80*	3.5	1.0^	2.5	2.5	17.5	1.52
603546A	801	1005	2.0	69	1.5	1.0^	2.8	--	15.6	1.30
603561	713	919	1.5	73	2.0	1.0^	2.0	2.5	15.2	1.89
603587A	725*	1003	4.5	105	4.0	1.0^	2.3	--	11.1	1.63
603594	804	1011	3.0	88	3.0	2.0^	3.3*	--	15.7	1.18
603659	722^	928^	3.0^	33^	1.0^	3.0^	1.5^	1.0^	17.0^	1.39^
603666	806	1011	4.0	102	3.5	1.0^	3.0	1.5	10.5*	0.79
603698A	713	913	3.0	100	3.0	5.0^	2.3	1.5	13.6	1.73*
603698B	717	930	2.5	85	3.0	3.0^	2.3	1.0	17.4	1.45
603698C	719	917	2.0	70	2.5	5.0^	2.3	1.5	14.4	1.23*
603698D	724	1003	3.0	75*	3.0	2.0^	2.0	4.0*	13.6	1.52
603698E	726	1001	3.0	78	2.0	4.0^	2.0	3.0*	13.9	1.60
603698F	715	913	3.0	115	4.0	1.0^	2.3	1.5	15.2	1.65
603698G	707	909	2.0	54	1.0	5.0^	2.0	1.5	14.1	1.20*
603698H	721	921	2.5	71	3.0	5.0^	2.0	1.0	15.5	1.28
603698I	721	927	2.5	107*	2.5	4.0^	1.8	1.0	12.8	1.39
603698J	717	920	3.5	71	1.5	4.0^	1.5	1.0	12.5	1.28*
603704A	805	1009	4.5	68	3.0	3.0^	2.5	4.5	9.4*	0.29
603712	727	916	3.0*	64	2.0	5.0^	2.3	--	12.2	1.02
603727	804	1001	4.5	60*	2.5	2.0^	2.0	--	8.3	0.89
603750A	802	1009	3.0	71	2.0	1.0^	2.8*	1.0^	15.5	0.83

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603426F	I	43.4	16.5	13.4	2.8	17.7	55.7	10.4
603427A	I	48.7 ^w	16.8 ^w	10.1	3.4	17.8	57.4	11.4
603427B	I	48.9 ^w	16.8 ^w	9.3	3.1	18.9	57.6	11.1
603428A	I	49.9 ^w	16.9 ^w	9.3	2.9	20.9	56.5	10.4
603429A	0	51.3 ^w	17.1 ^w	10.3	3.2	15.8	58.9	11.8
603429B	0	52.8 ^w	16.7 ^w	10.5	3.9	18.3	57.8	9.5
603429C	I	41.5 ^w	16.8 ^w	10.1	3.1	16.0	59.1	11.7
603430B	I	41.7	17.8	10.6	3.5	21.2	54.5	10.2
603431	I	40.4	19.4	10.4	3.8	21.6	55.0	9.2
603432A	00	42.7	18.6	11.0	3.6	20.8	55.0	9.6
603432B	0	41.3	18.2	10.0	3.8	19.1	58.2	9.0
603432C	I	42.3	18.4	12.1	3.1	20.0	55.0	9.8
603435A	00	41.5	18.8	10.8	3.3	20.9	56.4	8.6
603437A	00	42.7	18.7	11.1	4.1	20.7	55.3	8.9
603437B	0	40.9	18.7	10.4	4.5	19.2	55.4	10.5
603437C	0	41.5	17.8	11.0	4.5	23.6	52.1	8.8
603438A	I	49.2 ^w	16.6 ^w	8.5	2.8	16.4	59.5	12.7
603438B	I	44.4	16.8	11.1	3.5	19.1	56.1	10.3
603439	I	39.8	18.0	10.4	3.4	24.1	52.0	10.1
603440A	0	40.9	17.8	10.6	3.9	24.6	52.7	8.2
603440B	I	39.9	18.5	11.4	3.7	21.2	54.6	9.1
603443A	I	49.0 ^w	14.6 ^w	10.8	2.7	14.6	59.8	12.1
603443B	0	49.3 ^w	15.9 ^w	9.9	3.1	16.3	58.5	12.2
603444B	I	48.0 ^w	15.6 ^w	9.2	2.8	17.6	58.5	11.9
603445A	I	49.1 ^w	16.4 ^w	10.4	3.4	18.9	56.0	11.3
603447	I	48.6 ^w	17.0 ^w	9.4	2.8	16.4	60.9	10.5
603479	I	45.6 ^w	17.6 ^w	9.2	3.0	21.8	55.2	10.8
603546A	I	48.5 ^w	15.6 ^w	10.2	2.7	15.0	59.2	13.0
603561	I	40.8	20.1	11.3	4.0	24.2	52.3	8.2
603587A	I	48.8 ^w	16.4 ^w	9.4	3.3	19.7	57.5	10.1
603594	II	43.7 ^w	15.3 ^w	9.7	2.8	16.3	59.5	11.8
603659	I	42.0	18.7	10.3	3.3	24.5	52.6	9.3
603666	II	48.9	12.8	9.9	2.7	16.3	57.6	13.6
603698A	0	42.7	17.5	10.3	3.4	26.7	50.8	8.7
603698B	I	42.1	17.9	11.2	2.8	20.4	54.7	11.0
603698C	0	44.2	17.3	10.3	2.8	20.8	54.1	12.0
603698D	I	50.3 ^w	15.7 ^w	9.4	2.6	17.4	57.4	13.2
603698E	I	50.1 ^w	17.5 ^w	9.4	3.0	19.3	56.6	11.6
603698F	0	41.5	18.8	9.9	3.1	21.5	54.4	11.1
603698G	00	50.9 ^w	17.2 ^w	9.5	2.8	19.4	58.4	9.9
603698H	I	44.4	17.4	11.0	2.8	23.3	52.4	10.5
603698I	I	43.8	16.4	12.1	3.3	22.8	51.1	10.7
603698J	0	45.8	15.9	9.6	2.8	19.5	57.1	11.0
603704A	I	52.5 ^w	14.1 ^w	9.5	2.9	19.9	56.7	11.0
603712	0	53.9 ^w	17.0 ^w	11.5	3.1	20.7	52.7	12.0
603727	I	49.3 ^w	16.4 ^w	9.8	3.0	16.5	59.4	11.3
603750A	I	44.3	16.9	11.4	2.8	17.1	57.8	10.9

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
603750B	(92-526)	Sichuan	China	China	1998	II
603754	Liu yue dou	Zhejiang	China	China	1998	I
603758A	Liu yue dou	Zhejiang	China	China	1998	I
603758B	(Liu yue dou)	Zhejiang	China	China	1998	I
603758C	(Liu yue dou)	Zhejiang	China	China	1998	I
612610	Musan-1	unknown	North Korea	North Korea	1998	I
612615	Bochon	unknown	North Korea	North Korea	1998	0
612617A	Kapsan	unknown	North Korea	North Korea	1998	I
612617B	(Kapsan)	unknown	North Korea	North Korea	1998	0
612705	He feng No. 9	Heilongjiang	China	China	1999	I
612706A	Bayan 32	Heilongjiang	China	China	1999	I
612706B	(Bayan 32)	Heilongjiang	China	China	1999	0
612707A	Bei 8709	Heilongjiang	China	China	1999	0
612707B	(Bei 8709)	Heilongjiang	China	China	1999	0
612708A	K 89-9081	Heilongjiang	China	China	1999	0
612708B	(K 89-9081)	Heilongjiang	China	China	1999	I
612708C	(K 89-9081)	Heilongjiang	China	China	1999	I
612708D	(K 89-9081)	Heilongjiang	China	China	1999	I
612709A	K 87-104	Heilongjiang	China	China	1999	0
612709B	(K 87-104)	Heilongjiang	China	China	1999	I
612709C	(K 87-104)	Heilongjiang	China	China	1999	I
612710	K 93-600	Heilongjiang	China	China	1999	00
612711A	K 93-89	Heilongjiang	China	China	1999	I
612711B	(K 93-89)	Heilongjiang	China	China	1999	I
612712	He feng 93-111	Heilongjiang	China	China	1999	0
612713A	He feng 910	Heilongjiang	China	China	1999	I
612713B	(He feng 910)	Heilongjiang	China	China	1999	I
612714B	(He feng 1538)	Heilongjiang	China	China	1999	I
612715	Hei nong 40	Heilongjiang	China	China	1999	I
612716	Harbin 93-6349	Heilongjiang	China	China	1999	I
612717	Harbin 94-2508	Heilongjiang	China	China	1999	I
612718	Harbin 92-1062	Heilongjiang	China	China	1999	I
612719	Harbin 91-6065	Heilongjiang	China	China	1999	I
612720A	Jilin 26	Jilin	China	China	1999	0
612720B	(Jilin 26)	Jilin	China	China	1999	I
612721A	Jilin 33	Jilin	China	China	1999	I
612721B	(Jilin 33)	Jilin	China	China	1999	0
612722	Jilin 34	Jilin	China	China	1999	I
612723	Jilin 35	Jilin	China	China	1999	I
612724	Jilin 36	Jilin	China	China	1999	I
612725	Jilin 37	Jilin	China	China	1999	I
612726	Jilin 8966-25	Jilin	China	China	1999	I
612727	Jilin 8966-35	Jilin	China	China	1999	I
612728	Jilin 8978-6	Jilin	China	China	1999	0
612732	Zhao shu 18	Beijing	China	China	1999	I
612735	Jiunong 21	Jilin	China	China	2000	I
612736	Yi No. 3	Jilin	China	China	2000	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
603750B	II	N	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603754	I	D	W	Lt	A	N	Br	I	Y	Br		3N
603758A	I	S	P	Lt	A	N	Br	I	Y	Br		3N
603758B	I	S	P	T	Sa	Ssp	Br	I	Y	Br		3N
603758C	I	S	P	T	E	Ssp	Br	I	Y	Br		3N
612610	I	N	W	T	E	N	Br	I	Br	Bl	Sad	2N
612615	0	S	P	G	E	N	Br	I	Y	Y		2N
612617A	I	N	P	Lt	E	N	Tn	I	Y	Y	Vhil	2N
612617B	0	N	P	G	E	N	Br	I	Y	Y		2N
612705	I	D	P	G	E	N	Br	I	Y	Y		2N
612706A	I	S	W	G	E	Ssp	Br	I	Y	Y		2N
612706B	0	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
612707A	0	D	P	G	E	N	Br	I	Y	Y		2N
612707B	0	D	W	G	E	Ssp	Br	I	Y	Y		2N
612708A	0	D	W	G	E	N	Br	I	Y	Y		2N
612708B	I	S	P	G	E	Ssp	Br	D	Y	Y	Na	2N
612708C	I	S	P	G	E	N	Br	D	Y	Y	Na	2N
612708D	I	N	P	G	E	N	Br	D	Y	Y	Na	2N
612709A	0	N	P	G	E	N	Br	D	Y	Y	Na	2N
612709B	I	S	P	G	E	N	Br	D	Y	Y	Na	2N
612709C	I	D	W	G	E	N	Br	D	Y	Y	Na	2N
612710	00	D	P	G	E	N	Br	D	Y	Y		2N
612711A	I	D	W	G	E	N	Tn	I	Y	Y		2N
612711B	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	2N
612712	0	D	W	G	E	N	Br	I	Y	Y	Na	2N
612713A	I	D	W	G	E	N	Br	D	Y	Bf	Na	2N
612713B	I	D	W	G	E	N	Br	D	Y	Bf	Na	2N
612714B	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
612715	I	S	P	G	E	Ssp	Br	D	Y	Y	Na	2N
612716	I	S	P	G	E	N	Br	D	Y	Y	Na	2N
612717	I	D	W	G	E	Ssp	Br	I	Y	Bf		1R
612718	I	D	W	G	E	N	Br	D	Y	Bf	Na	2N
612719	I	D	W	G	E	N	Br	D	Y	Y	Na	2N
612720A	0	N	P	G	E	Ssp	Br	I	Y	Y		2N
612720B	I	D	P	G	E	Ssp	Br	I	Y	Y		2N
612721A	I	S	W	G	E	Ssp	Br	I	Y	Y		2N
612721B	0	D	W	G	E	Ssp	Tn	I	Y	Y		2N
612722	I	S	W	G	E	Ssp	Tn	I	Y	Y	Na	2N
612723	I	D	P	G	E	N	Tn	I	Y	Y		2N
612724	I	S	P	G	E	Ssp	Tn	I	Y	Y		2N
612725	I	D	P	G	E	N	Br	I	Y	Y		2N
612726	I	S	P	G	E	N	Br	I	Y	Y		2N
612727	I	N	P	G	E	N	Br	I	Y	Tn		2N
612728	0	N	P	G	E	Ssp	Bl	D	Y	Y	Na	2N
612732	I	N	P	G	A	N	Br	I	Y	Y	Vhil	2N
612735	I	N	P	G	E	N	Br	I	Y	Y	Na	2N
612736	I	D	P	T	E	N	Br	I	Y	Bl		2N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	(score)	(score)
	(mmdd)	(mmdd)					(score)	(score)	(cg/sd)	(Mg/ha)
603750B	807^	1011	3.5	59*	3.5	2.0^	2.0^	2.0^	13.9^	0.30^
603754	801	1005	3.0	59	1.5	2.0^	2.5	2.0	15.2	1.02
603758A	801	1010	4.5	75*	3.0	2.0^	2.3	2.5	12.2	0.54
603758B	802	1003	3.5	75*	3.0*	1.0^	2.0	2.5	11.9	0.86*
603758C	729*	1006	3.0	87*	3.0	1.0^	1.8	2.0	11.8	0.87
612610	717	923	3.5	88	2.5	1.0^	2.0	--	19.5	1.86*
612615	713	913	2.0	81	2.0	2.0^	2.0	1.0	14.6	1.74
612617A	723*	1007	3.0	83	2.5	2.0^	1.5	1.0	17.1	1.77*
612617B	713	918	2.0	70	2.5	1.0^	2.0	2.0*	14.8	1.87*
612705	711	921	1.5	42	1.0	1.0^	2.0	2.0*	18.2	1.51*
612706A	715	923	2.5	85	2.0	1.0^	2.3	1.0	15.8	1.76
612706B	713	919	1.0	68	1.5	1.0^	2.5	2.0*	16.2	1.70*
612707A	711	909	1.5	53	1.0	5.0^	2.0	1.0	16.3*	1.24*
612707B	709	909	1.0	51	1.0	3.0^	2.5	1.0	15.9	0.65*
612708A	713	919	2.5	78	1.0	3.0^	2.0	1.0	15.0	1.59*
612708B	713	921	1.0	63	2.0	1.0^	1.5	1.0	16.5	1.88*
612708C	711	921	1.0	64	2.0	1.0^	1.8	1.0	16.7	3.25*
612708D	717	924	1.0	57	1.5	2.0^	2.0	1.0	18.3	1.68*
612709A	711	917	2.5	84	2.5	1.0^	1.8	1.5	15.8	2.01
612709B	713	921	2.0	64	2.0	2.0^	1.8	1.0	17.0	1.88*
612709C	715	930	1.5	54	1.0	1.0^	2.0	1.5	15.9	1.12
612710	711	909	2.5	55	1.0	3.0^	3.0	1.0	17.4*	1.19
612711A	711	923	2.0	81	1.0	1.0^	2.0	1.0	14.2	1.80*
612711B	717	1002	1.5	52	1.0	2.0^	2.3	1.5	15.1	1.30*
612712	711	915	1.5	80*	1.5	1.0^	1.8	2.0*	14.2	1.54*
612713A	713	925	1.5	70	1.0	2.0^	2.0	1.0	16.0	2.11
612713B	713	927	1.5	71	1.0	2.0^	2.0	1.0	16.2	2.01
612714B	717	930	3.0*	73	1.5	1.0^	2.5	1.5	13.7	1.54
612715	715	929	1.5	78	2.0	2.0^	2.3	1.0	19.8	2.59*
612716	717	1001	1.5	76	2.0	2.0^	2.0	1.0	18.2	2.19
612717	713	1003	1.5	64	1.0	1.0^	1.8	1.0	20.1	2.58
612718	711	923	2.0	79	1.0	1.0^	1.5	1.0	19.3*	2.10*
612719	711	923	1.5	73	1.0	1.0^	1.8	1.5	17.5	2.19*
612720A	713	915	2.5	91	3.0	2.0^	1.8	1.0	18.1	1.99
612720B	713	922	2.0	90	1.5	1.0^	2.0	1.0	20.8*	1.98*
612721A	713	922	2.5	86	2.0	2.0^	2.3	1.0	17.2	1.82
612721B	713	917	2.0	86	1.5	1.0^	2.0	1.0	15.1	1.97*
612722	719	1006	2.5	85	2.0	1.0^	1.8	1.0	16.8	2.31
612723	715	1004	2.0	68*	1.0	3.0^	1.5	1.0	15.5	2.31
612724	718	1005^	2.0	86	2.0	2.0^	1.8	1.0	16.3	2.58
612725	719	1002	2.5	83*	1.5	2.0^	2.0	1.0	16.1	2.06
612726	717	1003	2.0	87*	2.0	1.0^	2.0^	1.0^	20.6^	2.53^
612727	713	923	3.0*	88	2.5	2.0^	2.0	1.5	13.2	1.73*
612728	711	919	2.0	94	2.5	2.0^	1.8	1.0	17.0*	2.24*
612732	722	1003	2.5	48	2.5	1.0^	2.0	1.0	18.8	1.43*
612735	713	1003	2.0	76	2.5	1.0^	1.8	1.0	17.4	2.66
612736	715	1001	2.0	69	1.0	1.0^	1.8	1.0	14.9	2.53

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603750B	II	44.0 ^{w^}	15.0 ^{w^}	9.1	3.0	19.7	56.7	11.4
603754	I	44.7	15.9	11.0	2.9	19.6	55.0	11.5
603758A	I	45.8	15.1	12.1	3.0	17.3	55.5	12.1
603758B	I	46.6	14.6	11.5	3.6	19.0	52.5	13.3
603758C	I	46.2	14.4	11.1	3.4	20.8	52.2	12.5
612610	I	53.0 ^w	17.5 ^w	9.6	2.8	18.3	58.5	10.8
612615	0	41.6	18.9	11.1	3.8	24.8	51.5	8.8
612617A	I	43.5	17.5	11.0	3.2	20.8	55.7	9.3
612617B	0	43.0	18.0	10.8	3.0	24.5	52.5	9.1
612705	I	41.7	17.6	11.3	3.4	20.5	55.4	9.4
612706A	I	40.0	18.3	10.7	3.3	20.9	54.3	10.9
612706B	0	42.9	17.4	11.2	3.1	20.2	55.9	9.6
612707A	0	42.9	17.9	11.7	3.2	18.7	56.4	10.0
612707B	0	40.7	19.6	11.6	3.4	19.7	56.0	9.2
612708A	0	39.6	19.5	10.7	4.0	23.5	53.2	8.6
612708B	I	42.1	18.5	12.7	4.0	19.9	53.4	10.1
612708C	I	41.0	18.6	12.9	4.0	18.8	53.9	10.4
612708D	I	42.5	18.2	13.2	4.0	19.1	53.5	10.4
612709A	0	41.4	17.7	11.5	3.4	22.0	53.5	9.6
612709B	I	41.5	18.4	13.0	4.0	21.9	51.5	9.5
612709C	I	43.2	16.3	11.6	3.0	22.2	54.0	9.2
612710	00	43.6	18.6	12.6	4.3	22.6	52.5	7.9
612711A	I	40.5	17.9	11.3	4.1	22.7	51.7	10.2
612711B	I	43.6	16.9	12.1	3.2	19.1	55.5	10.1
612712	0	40.9	18.5	11.0	3.6	22.3	54.3	8.8
612713A	I	42.6	17.6	12.1	3.5	20.6	54.4	9.5
612713B	I	44.6	17.6	12.7	3.3	19.3	55.1	9.6
612714B	I	41.4	17.3	10.8	3.2	19.7	56.2	10.1
612715	I	41.6	18.5	11.5	3.3	20.9	55.3	8.9
612716	I	39.9	17.7	12.0	2.9	16.7	57.9	10.4
612717	I	39.1	19.3	10.8	3.0	22.9	54.6	8.6
612718	I	40.3	18.6	11.6	3.8	22.5	53.4	8.6
612719	I	40.4	18.9	11.5	3.2	21.6	55.0	8.7
612720A	0	44.1	17.9	11.1	3.1	22.3	52.8	10.8
612720B	I	42.0	17.9	11.4	3.3	24.4	52.1	8.8
612721A	I	39.8	18.3	10.8	3.0	20.5	54.8	10.9
612721B	0	40.4	19.1	10.5	2.9	23.8	54.0	8.7
612722	I	39.2	17.9	11.5	3.0	24.4	51.8	9.3
612723	I	39.1	19.3	12.2	3.5	20.2	54.2	9.8
612724	I	39.2	18.5	11.3	3.4	22.8	53.5	8.9
612725	I	39.7	18.5	11.9	3.7	21.4	54.0	9.0
612726	I	41.9 [^]	18.3 [^]	12.5	3.2	24.2	52.4	7.7
612727	I	41.7	17.6	10.2	3.0	18.0	57.9	10.8
612728	0	42.6	19.1	10.9	3.7	33.7	44.5	7.1
612732	I	41.2	17.9	11.5	3.8	20.2	55.7	8.9
612735	I	39.0	17.9	11.3	3.7	21.1	54.3	9.6
612736	I	41.5	18.4	10.4	3.6	19.5	56.9	9.5

Table 1.1 Identification and origin information for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B 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
612737	Hefeng 21	Jilin	China	China	2000	I
612738	67803	Jilin	China	China	2000	I
612740	CM048	Jilin	China	China	2000	0
612743	Bianjing	Jilin	China	China	2000	I
612744	89445	Jilin	China	China	2000	I
612745	Bonwand	Jilin	China	China	2000	0
612746	Fushuali	Jilin	China	China	2000	I
612751	Hegi 342	Jilin	China	China	2000	0
612752		unknown	China	China	1999	I
612753A		unknown	China	China	1999	0
612753B		unknown	China	China	1999	I
612754		unknown	China	China	1999	I
612756		unknown	China	China	1999	0
612757		unknown	China	China	1999	0
612758A		unknown	China	China	1999	0
612759A		unknown	China	China	1999	0
612759B		unknown	China	China	1999	0
612759C		unknown	China	China	1999	I
612760	50392	unknown	China	China	1999	I
612761A	50131	unknown	China	China	1999	0
612761B	(50131)	unknown	China	China	1999	I

Table 2.1. Descriptive data for USDA soybean germplasm in maturity groups 000 through I PI 578371 to PI 612761B 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			
612737	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	3N
612738	I	N	P	T	E	N	Tn	D	Y	Bl		2N
612740	0	N	P	G	E	N	Br	I	Y	G		2N
612743	I	S	P	G	E	N	Br	I	Y	Y	Na	2N
612744	I	S	P	G	E	N	Br	I	Y	Lg	Vhil	2N
612745	0	S	P	T	E	N	Br	D	Y	Br		3N
612746	I	D	P	G	E	N	Br	D	Y	Ib		2N
612751	0	D	W	G	E	N	Br	I	Y	Y		2N
612752	I	N	P	T	E	Sp	Br	Lb	Br	Rbr	Sw	4N
612753A	0	N	P	T	Sa	Ssp	Bl	I	Gnbr	Gnbr	Sw	4N
612753B	I	N	P	Lt	E	N	Bl	I	Gn	Br	Sw	3N
612754	I	N	P	T	E	N	Bl	I	Y	Br	Sw	3N
612756	0	N	P	T	A	Ssp	Br	D	Br	Rbr	Sw	4N
612757	0	N	P	T	A	Ssp	Br	D	Br	Rbr	Sw	4N
612758A	0	N	W	T	A	Ssp	Br	B	Bl	Bl	Flk,Sw	2N
612759A	0	N	P	T	E	Ssp	Bl	I	Bl	Bl	Flk,Sw	3N
612759B	0	N	W	T	E	Ssp	Bl	I	Bl	Bl	Sw	3N
612759C	I	N	W	T	E	Ssp	Bl	I	Bl	Bl	Sw	3N
612760	I	N	P	T	E	Ssp	Br	Lb	Br	Rbr	Sw	4N
612761A	0	N	P	T	A	Ssp	Dbr	D	Br	Rbr	Sw	4N
612761B	I	N	P	Lt	E	N	Br	I	Br	Rbr		5N

Table 3.1. Agronomic data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering	Seed			
	date	date					(score)	(cm)	termination	early
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(cg/sd)	(Mg/ha)
612737	715	920	1.5	65	1.0	1.0^	2.0^	1.0^	20.2^	1.57^
612738	713	921	3.0	94	2.5	1.0^	1.8	1.0	14.5	2.70*
612740	711	919	2.0	85	2.5	1.0^	1.8	1.0	12.8	2.60*
612743	715	1004^	3.0*	84	2.0	1.0^	1.8	1.0	18.3	2.13*
612744	715	928	1.5	67*	2.0	2.0^	2.0	1.0	14.4	2.30
612745	711	915	2.0	85	2.0	1.0^	1.8	1.0	14.1	1.68
612746	722	1005^	2.0	80	1.0	1.0^	2.0	1.0	25.5	1.95
612751	713	916	1.5	69	1.0	2.0^	1.8	1.0	14.3	2.03
612752	801	925	4.5	68	5.0	2.0^	2.5	--	5.5	0.36
612753A	724	917	5.0	78	5.0	2.0^	1.8	--	3.3	0.52
612753B	803	1004^	5.0	92*	5.0	3.0^	2.0	4.0	4.5	0.36
612754	805	925	5.0	73	5.0	5.0^	2.0	4.5	5.5	0.15
612756	717	915	4.5	56	5.0	2.0^	1.5	--	4.1	0.79
612757	719	915	4.5	51	5.0	3.0^	1.5	--	4.3	0.91
612758A	713	915	5.0	66*	5.0	5.0^	2.3	--	4.2	0.47
612759A	719	917	5.0	69	5.0	5.0^	2.3	--	4.1	0.29
612759B	721	917	5.0	51	5.0	3.0^	2.3	--	5.3	0.65
612759C	731	923	5.0	97*	5.0	5.0^	2.5	--	4.6	0.30
612760	804	929	5.0	71	5.0	2.0^	2.5	--	5.7	0.47
612761A	720	914	4.0	58*	5.0	5.0^	2.0	--	4.0	0.49
612761B	803	1003	4.0*	122	3.0	2.0^	2.3*	--	7.7	1.14

Table 4.1. Seed composition data for USDA soybean germplasm in maturity groups 000 through I, PI 578371 to PI 612761B plus earlier accessions not previously evaluated, grown at Rosemount, MN.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
612737	I	43.6 [^]	17.8 [^]	12.4	3.2	24.0	52.5	8.0
612738	I	39.8	19.5	10.4	3.8	21.0	56.0	8.8
612740	0	40.7	19.1	10.9	3.9	21.6	54.9	8.7
612743	I	41.7	17.4	11.6	3.7	21.4	52.9	10.4
612744	I	39.7	19.2	13.0	3.7	19.1	54.7	9.5
612745	0	41.0	19.2	9.6	3.1	24.2	54.7	8.4
612746	I	42.0	17.1	12.0	3.9	20.0	53.1	11.1
612751	0	41.0	19.6	11.1	4.2	23.7	52.1	8.9
612752	I	50.3 ^w	15.6 ^w	10.1	3.0	16.3	57.6	13.0
612753A	0	46.5 ^w	12.9 ^w	10.9	2.8	11.1	59.1	16.1
612753B	I	49.9 ^w	14.5 ^w	10.1	2.3	14.8	59.0	13.8
612754	I	49.0 ^w	15.7 ^w	9.6	2.8	15.6	58.8	13.2
612756	0	47.6 ^w	11.4 ^w	10.0	2.7	12.3	60.2	14.9
612757	0	53.0 ^w	9.7 ^w	10.1	2.7	12.3	60.4	14.4
612758A	0	54.1 ^w	11.4 ^w	11.0	3.1	15.7	58.2	12.0
612759A	0	50.9 ^w	12.4 ^w	11.8	3.3	17.4	54.3	13.2
612759B	0	55.2 ^w	13.2 ^w	11.4	3.3	17.9	55.7	11.7
612759C	I	53.6 ^w	12.9 ^w	10.8	2.7	15.1	57.6	13.8
612760	I	46.1 ^w	15.0 ^w	10.4	2.8	14.7	59.0	13.1
612761A	0	53.2 ^w	11.7 ^w	10.8	2.8	13.1	59.1	14.2
612761B	I	50.6 ^w	14.2 ^w	9.7	2.7	14.8	58.7	14.1

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
	7499	Kentucky	United States	United States	2000	IV
	Alpha	Minnesota	United States	United States	1992	I
	Ancor 89	Ohio	United States	United States	1989	II
	Apollo	Michigan	United States	United States	1998	II
	Athow	Indiana	United States	United States	1996	III
	Bronson	Indiana	United States	United States	1993	IV
	Calhoun	Kentucky	United States	United States	1993	IV
	CF 461	Kentucky	United States	United States	1995	IV
	CF 492	Kentucky	United States	United States	1995	IV
	Chesapeake	Virginia	United States	United States	1994	IV
	Cisne	Illinois	United States	United States	1995	IV
	Colfax	Nebraska	United States	United States	1993	II
	Croton 3.9	Ohio	United States	United States	2000	III
	Darby	Ohio	United States	United States	2000	III
	Defiance	Ohio	United States	United States	1996	III
	Delsoy 4900	Missouri	United States	United States	1989	IV
	Dwight	Illinois	United States	United States	1997	II
	Faribault	Minnesota	United States	United States	1994	I
	Flint	Ohio	United States	United States	1996	II
	Freeborn	Minnesota	United States	United States	1995	I
	General	Ohio	United States	United States	1979	III
	GR8836	Ohio	United States	United States	1987	III
	GR8936	Ohio	United States	United States	1988	III
	Granite	Minnesota	United States	United States	1995	I
	Harlon	Ontario	Canada	Canada	1974	I
	HF93-035	Ohio	United States	United States	2000	III
	HF93-083	Ohio	United States	United States	2000	II
	Holladay	North Carolina	United States	United States	1993	V
	Holt	Nebraska	United States	United States	1992	II
	HS93-4118	Ohio	United States	United States	2000	IV
	Ina	Illinois	United States	United States	1998	IV
	Iroquois	Illinois	United States	United States	1995	III
	Kato	Minnesota	United States	United States	1989	I
	Kottman	Ohio	United States	United States	2000	III
	KS3494	Kansas	United States	United States	1993	III
	KS4694	Kansas	United States	United States	1993	IV
	KS4895	Kansas	United States	United States	1995	IV
	LN92-7369	Illinois	United States	United States	1999	II
	Loda	Illinois	United States	United States	2000	II
	LS90-1920	Illinois	United States	United States	1998	IV
	Macon	Illinois	United States	United States	1995	III
	Manokin	Maryland	United States	United States	1991	IV
	Maverick	Missouri	United States	United States	1996	III
	Mercury	Nebraska	United States	United States	1994	III
	MN0901	Minnesota	United States	United States	2000	0
	MN1301	Minnesota	United States	United States	1998	I
	MN1302	Minnesota	United States	United States	2001	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
7499	IV	N	P	T	E	N	Tn	I	Y	Bl		3N
Alpha	I	N	P	T	E	N	Tn	I	Y	Y		2N
Amcors 89	II	N	P	G	E	N	Br	S	Y	Y		2N
Apollo	II	N	P	G	E	N	Br	I	Y	Y		3N
Athow	III	N	P	T	E	N	Tn	D	Y	Bl		2N
Bronson	IV	N	W	T	E	N	Tn	I	Y	Bl		3N
Calhoun	IV	D	P	G	E	N	Tn	I	Y	Bf		2N
CF 461	IV	N	W	T	E	N	Tn	I	Y	Bl		2N
CF 492	IV	D	W	G	Sa	N	Tn	D	Y	Bf		2N
Chesapeake	IV	N	W	G	E	N	Tn	D	Y	Bf		3N
Cisne	IV	N	P	T	E	N	Tn	D	Y	Bl		3N
Colfax	II	D	W	G	E	N	Tn	D	Y	Bf		3N
Croton 3.9	III	N	P	T	E	N	Tn	D	Y	Bl		3N
Darby	III	N	W	T	E	N	Tn	D	Y	Bl		2N
Defiance	III	N	P	G	E	N	Br	D	Y	Ib		2N
Delsoy 4900	IV	D	P	T	E	N	Tn	D	Y	Lbr		2N
Dwight	II	N	P	T	E	N	Tn	D	Y	Bl		3N
Faribault	I	N	W	G	E	N	Tn	D	Y	Bf		2N
Flint	II	N	P	T	E	N	Br	D	Y	Bl		3N
Freeborn	I	N	W	T	E	N	Br	D	Y	Bl		2N
General	III	N	P	Lt	E	N	H	D	Y	Bl		3N
GR8836	III	N	P	T	E	N	Tn	D	Y	Bl		3N
GR8936	III	N	W	T	E	N	Tn	D	Y	Bl		3N
Granite	I	N	P	G	E	N	Br	D	Y	G		2N
Harlon	I	N	W	G	E	N	Br	D	Y	Y		2N
HF93-035	III	N	P	G	E	N	Br	I	Y	G		3N
HF93-083	II	N	P	G	E	N	Br	I	Y	Ib		3N
Holladay	V	D	P	G	E	N	Tn	I	Y	Ib		2N
Holt	II	N	W	G	E	N	Br	D	Y	Bf		2N
HS93-4118	IV	N	W	Lt	E	N	Br	D	Y	Bl		3N
Ina	IV	N	W	G	E	N	Br	D	Y	Bf		3N
Iroquois	III	N	P	G	E	N	Br	I	Y	Ib		3N
Kato	I	N	P	T	E	N	Br	S	Y	Bl		2N
Kottman	III	N	W	Lt	E	N	Tn	D	Y	Bl		2N
KS3494	III	N	P	T	E	N	Br	I	Y	Bl		3N
KS4694	IV	N	W	G	E	Sdn	Br	I	Y	Bf		3N
KS4895	IV	N	P	G	E	N	Tn	I	Y	Bf		3N
LN92-7369	II	N	P	T	E	N	Br	I	Y	Bl		3N
Loda	II	N	P	G	E	N	Br	D	Y	G		3N
LS90-1920	IV	D	P	T	E	N	Tn	I	Y	Br		2N
Macon	III	N	W	T	E	N	Br	I	Y	Bl		3N
Manokin	IV	D	W	T	E	N	Tn	I	Y	Bl		3N
Maverick	III	N	P	G	E	N	Br	D	Y	Bf		2N
Mercury	III	D	P	G	E	N	Tn	D	Y	Y		3N
MN0901	0	N	W	G	E	N	Br	I	Y	Y		3N
MN1301	I	N	W	G	E	N	Br	D	Y	Y		3N
MN1302	I	N	P	G	E	N	Br	I	Y	Bf		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				term.	early	late	Quality		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg sd ⁻¹)	(Mg ha ⁻¹)
7499	710*	1020	1.8	105	3.0	1.0	1.0	3.0	2.5	15.8	3.19
Alpha	621	827^	1.5^	65	3.0^	1.0^	-	2.5^	2.0	13.0^	-
Amcor 89	701	917	2.0	100	3.0	1.0	1.0	3.0	2.0	13.7	2.97
Apollo	630	913	1.3	86	3.0	1.0	1.0	2.8	2.0	15.4	3.12
Athow	703	919	1.5	79	3.0	1.0	1.0	2.8	1.0	14.8	3.72
Bronson	711	1008	2.5	108	3.0	1.0	1.0	3.3	2.5	16.4	3.48
Calhoun	717	1005	1.3	66	1.0	1.0	1.0	2.5	2.0	16.2	3.59
CF 461	704	1007	1.8	102*	3.0	1.0	1.0	3.0	1.5	14.7	3.85^
CF 492	727	1015	1.5	64*	1.0	1.0	1.0	2.3	1.0	13.4	3.84^
Chesapeake	719	1015	2.0	92*	3.0	1.0	1.0	2.8	2.0	15.2	3.38
Cisne	709	1002	1.8	84	3.0	1.0	1.0	3.5	1.5	19.6	3.62
Colfax	629	914	1.0	62*	3.0	1.0	1.0	3.0	1.0	16.2	3.16
Croton 3.9	701*	925	1.8	99	3.0	1.0	1.0	3.5	2.5	14.3	3.36
Darby	702	924	1.5	85	3.0	1.0	1.0	3.3	1.0	14.4	3.19
Defiance	705	924	1.8	85	3.0	1.0	1.0	3.3	1.0	18.5	3.52
Delsoy 4900	727	1019	2.5	95	1.0	1.0	1.0	3.0	2.0	18.6	2.94
Dwight	703	915	1.3	69*	3.0	1.0	1.0	3.0	1.5	13.2	2.99*
Faribault	627	825^	1.5^	67	3.0^	1.0^	1.0^	2.0^	1.0	12.7^	3.17^
Flint	629	918	1.5	94	3.0	1.0	1.0	3.5	2.5	13.4	2.75
Freeborn	623	825^	1.5^	65	3.0^	1.0^	1.0^	2.0^	1.0	15.0^	2.88^
General	706	929	1.3	89	3.0	1.0	1.0	2.8	2.0	17.9	3.97*
GR8836	629*	927	1.5	86	3.0	1.0	1.0	3.0	1.5	14.1	3.94
GR8936	629*	927	1.8	91	3.0	1.0	1.0	3.0	1.0	16.6	3.55
Granite	623	826^	1.5^	69	3.0^	1.0^	2.0^	1.5^	1.0	15.4^	2.99^
Harlon	621	821	1.0^	66*	3.0^	1.0^	2.0^	2.0^	1.0	13.1^	1.90^
HF93-035	703	921	2.0	84	3.0	1.0	1.0	3.5	3.5	19.0	2.70
HF93-083	703	920	2.0	104	3.0	1.0	1.0	3.8	1.5	17.5	2.86
Holladay	727	1018	1.8	89	1.0	1.0	1.0	1.8	1.0	13.0	4.38
Holt	627*	904	1.0	70*	3.0	1.0	1.0	2.3	1.0	14.5	3.04*
HS93-4118	703	929	1.3	89	3.0	1.0	1.0	3.3	2.0	15.5	3.79
Ina	703	1007	2.3	112	3.0	1.0	1.0	3.0	2.5	13.8	3.24
Iroquois	629*	924	1.5	86	3.0	1.0	1.0	3.3	1.5	15.4	3.53
Kato	622	822	1.0^	58*	3.0^	1.0^	1.0^	2.0^	1.0	16.7^	2.98^
Kottman	703	924	1.3	81*	3.0	1.0	1.0	3.0	2.0	16.0	3.83
KS3494	704	925	1.3	77	3.0	1.0	1.0	2.8	3.0	15.5	3.04
KS4694	711	1018	1.8	100	3.0	1.0	1.0	2.8	1.5	16.9	3.32
KS4895	727	1021	1.5	91	3.0	1.0	1.0	2.3	2.0	13.3	2.88*
LN92-7369	703	915	1.3	74*	3.0	1.0	1.5	2.5	1.5	16.6	3.18
Loda	701	909	1.3	86*	3.0	1.0	1.5	3.5	2.0*	15.9	3.45
LS90-1920	723	1015	1.8	96	1.0	1.0	1.0	2.0	2.5	12.8	3.28
Macon	701	929	1.3	86	3.0	1.0	1.0	3.0	2.0*	18.0	4.00*
Manokin	729	1024	2.8	95	1.0	1.0	1.0	2.8	3.0	13.2	2.88
Maverick	630*	1001	2.0	96	3.0	1.0	1.0	3.3	1.5	15.0	4.16
Mercury	715	917	1.3	65	1.0	1.0	1.0	2.0	2.0	8.3	2.98
MN0901	620	820	1.0^	51*	3.0^	1.0^	1.0^	2.0^	1.0	12.4^	2.11^
MN1301	621	825	1.0^	61*	3.0^	1.0^	2.0^	2.0^	1.0	14.3^	2.70^
MN1302	623	822^	1.5^	62*	3.0^	1.0^	2.0^	2.5^	1.0	17.5^	3.81^

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
7499	IV	40.7	18.5	9.4	4.3	23.2	55.8	7.2
Alpha	I	40.9 [^]	20.1 [^]	11.0 [^]	3.9 [^]	23.5 [^]	54.6 [^]	7.0 [^]
Ancor 89	II	37.9	20.3	10.1	3.6	27.5	51.8	7.0
Apollo	II	38.1	21.6	10.9	4.2	28.2	50.8	6.0
Athow	III	42.1	19.5	10.9	4.7	23.0	54.4	6.9
Bronson	IV	42.9	17.9	8.6	4.6	26.8	53.2	6.8
Calhoun	IV	40.7	18.7	9.9	3.7	21.2	57.0	8.3
CF 461	IV	40.4	18.5	8.9	4.2	22.8	56.6	7.4
CF 492	IV	39.9	18.8	8.3	4.0	19.5	60.1	8.2
Chesapeake	IV	42.4	17.3	8.5	4.6	23.5	56.5	7.0
Cisne	IV	43.5	18.2	8.6	4.9	27.8	52.1	6.6
Colfax	II	40.1	20.3	10.9	4.4	25.8	52.7	6.1
Croton 3.9	III	43.9	18.2	10.6	5.2	25.6	52.3	6.2
Darby	III	42.3	19.4	9.7	3.8	27.4	52.6	6.5
Defiance	III	41.4	20.7	11.1	4.7	28.2	50.1	5.9
Delsoy 4900	IV	42.6 ^w	19.1 ^w	11.5	3.6	22.9	54.9	7.1
Dwight	II	38.2	19.5	12.7	5.0	24.2	51.5	6.5
Faribault	I	35.2 [^]	22.3 [^]	11.1 [^]	4.3 [^]	28.1 [^]	50.7 [^]	5.8 [^]
Flint	II	39.3	19.8	10.6	4.0	24.5	53.7	7.1
Freeborn	I	41.4 [^]	21.2 [^]	10.2 [^]	3.9 [^]	28.6 [^]	51.4 [^]	5.9 [^]
General	III	41.9	18.8	10.4	4.6	26.9	51.6	6.5
GR8836	III	41.9	19.3	10.7	4.4	22.6	55.3	7.0
GR8936	III	43.2	18.6	10.0	4.2	25.5	53.8	6.4
Granite	I	38.6 [^]	21.2 [^]	10.3 [^]	4.8 [^]	24.8 [^]	53.4 [^]	6.8 [^]
Harlon	I	38.1 [^]	22.5 [^]	12.6 [^]	3.4 [^]	24.9 [^]	52.8 [^]	6.3 [^]
HF93-035	III	41.2 ^w	20.7 ^w	10.7	3.7	27.1	52.4	6.1
HF93-083	II	39.3	20.1	10.2	3.8	23.6	56.2	6.2
Holladay	V	38.6	18.1	11.7	3.6	17.7	57.9	9.1
Holt	II	39.2	21.1	10.5	3.9	24.1	55.2	6.3
HS93-4118	IV	38.3	18.9	8.7	4.3	27.7	53.1	6.2
Ina	IV	40.2	18.7	8.4	4.6	27.1	54.0	5.9
Iroquois	III	42.5	19.2	10.8	4.2	25.7	53.5	5.8
Kato	I	41.2 [^]	20.7 [^]	11.4 [^]	3.7 [^]	23.2 [^]	55.2 [^]	6.6 [^]
Kottman	III	41.8	19.6	10.9	4.5	28.2	50.0	6.4
KS3494	III	39.7	18.1	10.2	4.9	29.6	49.5	5.8
KS4694	IV	41.8	18.3	9.1	3.9	25.0	54.6	7.3
KS4895	IV	43.8	17.4	9.6	3.8	21.9	57.1	7.6
LN92-7369	II	42.1	18.6	10.3	3.5	26.5	53.3	6.3
Loda	II	40.3	21.5	10.2	4.9	27.3	51.7	5.9
LS90-1920	IV	41.3 ^w	17.0 ^w	11.5	3.3	19.2	58.9	7.2
Macon	III	40.2	19.4	10.4	4.8	29.2	49.8	5.7
Manokin	IV	42.1 ^w	18.8 ^w	12.1	3.7	22.3	54.8	7.0
Maverick	III	41.7	18.7	10.9	4.8	27.1	50.9	6.2
Mercury	III	39.8	19.8	10.5	3.9	22.8	55.8	7.0
MN0901	0	37.3 [^]	23.3 [^]	11.3 [^]	3.9 [^]	20.6 [^]	56.8 [^]	7.3 [^]
MN1301	I	37.8 [^]	20.7 [^]	11.3 [^]	4.4 [^]	24.2 [^]	54.0 [^]	6.1 [^]
MN1302	I	37.1 [^]	22.1 [^]	10.0 [^]	3.6 [^]	24.6 [^]	55.4 [^]	6.4 [^]

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
	MN1401	Minnesota	United States	United States	2000	I
	MN1801	Minnesota	United States	United States	2000	I
	Mustang	Missouri	United States	United States	1995	IV
	NE1900	Nebraska	United States	United States	2000	I
	NE3297	Nebraska	United States	United States	1999	III
	NE3399	Nebraska	United States	United States	1999	III
	NE3400	Nebraska	United States	United States	2000	III
	Nemaha	Nebraska	United States	United States	1996	III
	Odell	Nebraska	United States	United States	1996	III
	Ohio FG1	Ohio	United States	United States	1994	III
	Ohio FG2	Ohio	United States	United States	1994	III
	Olympus	Michigan	United States	United States	1998	II
	Omaha	Illinois	United States	United States	1996	IV
	Pana	Illinois	United States	United States	1997	III
	Probst	Indiana	United States	United States	1994	III
	Rend	Illinois	United States	United States	1998	IV
	Saline	Illinois	United States	United States	1993	III
	Saturn	Nebraska	United States	United States	1994	III
	Savoy	Illinois	United States	United States	1996	II
	Stout	Ohio	United States	United States	2000	III
	Stressland	Ohio	United States	United States	1994	IV
	Stride	South Dakota	United States	United States	1997	I
	Strong	Ohio	United States	United States	2000	IV
	Surge	South Dakota	United States	United States	1997	0
	Tiffin	Ohio	United States	United States	2000	II
	Titan	Michigan	United States	United States	1999	I
	TN 4-94	Tennessee	United States	United States	1997	IV
	Troll	Ohio	United States	United States	1998	IV
	Yale	Illinois	United States	United States	1994	III
424005		Kyonggi	South Korea	South Korea	1978	III
468907		Jilin	China	China	1982	I
468919		Liaoning	China	China	1982	III
483459		Jilin	China	China	1984	I
504480	Tainan tsai lai chung	unknown	Taiwan	Taiwan	1986	IV
504481	Fengshan lu tsao shen	unknown	Taiwan	Taiwan	1986	III
504482		unknown	Taiwan	Taiwan	1986	IV
504484	Hua yen	unknown	Taiwan	Taiwan	1986	I
504485	Ho ko tao (Mikawshima)	unknown	Japan	Taiwan	1986	I
504486	KS 469 (N)	unknown	Taiwan	Taiwan	1986	II
504487	Yao tou	unknown	Taiwan	Taiwan	1986	III
504488	Lu tsao shen	unknown	Taiwan	Taiwan	1986	III
504489	Ou yuan tsao shen	unknown	Taiwan	Taiwan	1986	I
504490	Pai niao chi tou	unknown	Taiwan	Taiwan	1986	II
504493	Hua yen	unknown	Taiwan	Taiwan	1986	I
504494	Shan ho tao	unknown	Taiwan	Taiwan	1986	I
504496	Ta li chung	unknown	Taiwan	Taiwan	1986	II
504497	La po wu	unknown	Taiwan	Taiwan	1986	II

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
MN1401	I	N	P	T	E	N	Tn	D	Y	Bl		3N
MN1801	I	N	P	G	E	N	Br	I	Y	Bf		2N
Mustang	IV	N	W	G	E	N	Tn	I	Y	Bf		3N
NE1900	I	N	W	G	E	N	Br	D	Y	Y		2N
NE3297	III	N	W	T	E	N	Br	D	Y	Br		2N
NE3399	III	N	W	T	E	N	Br	D	Y	Bl		2N
NE3400	III	N	P	G	E	N	Tn	I	Y	Bf		3N
Nemaha	III	N	W	G	E	N	Tn	D	Y	Bf		2N
Odell	III	N	P	G	E	N	Tn	I	Y	Bf		2N
Ohio FG1	III	N	P	G	E	N	Br	D	Y	Y		3N
Ohio FG2	III	N	P	G	E	N	Br	D	G	G		3N
Olympus	II	N	P	T	E	N	H	D	Y	Bl		3N
Omaha	IV	N	P	T	E	N	Tn	D	Y	Bl		3N
Pana	III	N	P	G	E	N	Br	D	Y	Bf		2N
Probst	III	N	P	T	E	N	Tn	I	Y	Bl		3N
Rend	IV	N	W	G	E	N	Br	D	Y	Bf		2N
Saline	III	N	W	G	E	N	Tn	I	Y	Bf		3N
Saturn	III	D	W	G	E	H	Tn	I	Y	Y		3N
Savoy	II	N	P	T	E	N	Tn	D	Y	Bl		2N
Stout	III	D	W	T	E	N	Tn	I	Y	Bl		2N
Stressland	IV	N	P	T	E	N	Tn	D	Y	Bl		3N
Stride	I	N	P	G	E	N	Br	I	Y	Ib		3N
Strong	IV	D	W	T	E	N	Tn	D	Y	Bl		3N
Surge	0	N	P	G	E	N	Br	I	Y	Ib		3N
Tiffin	II	N	P	G	E	N	Br	I	Y	Ib		3N
Titan	I	N	P	T	E	N	Br	D	Y	Bl		3N
TN 4-94	IV	N	P	G	E	N	Br	I	Y	Bf		3N
Troll	IV	D	W	T	E	N	Br	D	Y	Bl		3N
Yale	III	N	W	G	E	N	Tn	I	Y	Bf		3N
424005	III	N	W	T	A	N	Bl	I	Gn	Brbl	Vhil, Sw	4N
468907	I	N	W	T	Sa	N	Br	B	Bl	Bl	Flk, Sw, 4sd	2N
468919	III	N	P	T	Sa	N	Bl	S	Bl	Bl	Flk, Sw	4N
483459	I	N	P	T	A	Sp	Br	I	Bl	Bl	Flk, Sw	4N
504480	IV	D	P	G	A	N	Br	I	Y	Bf		3N
504481	III	D	P	G	E	N	Br	I	Y	Y		3N
504482	IV	D	P	T	E	N	Tn	I	Y	Br		3N
504484	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504485	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504486	II	N	P	G	E	N	Br	I	Y	Bf		3N
504487	III	D	P	G	A	Ssp	Br	I	Y	Bf		2N
504488	III	D	P	G	A	Ssp	Br	I	Y	Bf		2N
504489	I	D	P	T	Sa	Ssp	Br	I	Y	Br		3N
504490	II	D	P	T	Sa	Ssp	Br	I	Gn	Bl		2N
504493	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504494	I	D	W	G	A	N	Tn	I	Y	Bf		2N
504496	II	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
504497	II	D	P	T	E	Ssp	Br	I	Gn	Bl		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
MN1401	623	821 [^]	1.0 [^]	70	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	16.1 [^]	3.03 [^]
MN1801	625	826 [^]	1.5 [^]	73	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	13.0 [^]	3.29 [^]
Mustang	713	1011	1.8	100	3.0	1.0	1.0	3.0	1.5	15.4	3.18
NE1900	626	901	1.5 [^]	70*	3.0 [^]	1.0 [^]	2.0 [^]	2.0 [^]	1.0	13.8 [^]	-
NE3297	703	924	1.5	97	3.0	1.0	1.0	3.0	1.5	16.9	3.70*
NE3399	703	929	1.5	99	3.0	1.0	1.0	2.8	2.0	15.5	4.15
NE3400	703	929	1.5	88	3.0	1.0	1.0	3.8	2.5	17.7	3.18
Nemaha	705	928	1.5	81	3.0	1.0	1.0	3.5	1.0	16.2	3.39*
Odell	705	929	2.0	91	3.0	1.0	1.0	3.3	2.5	16.5	3.69
Ohio FG1	701*	923	1.3	74	3.0	1.0	1.0	3.3	2.0	21.0	2.89
Ohio FG2	704	925	1.8	86*	3.0	1.0	1.5	3.0	2.0	23.1	3.17
Olympus	701	904	1.3	68	3.0	1.0	1.0	2.3	1.5	13.8	2.98*
Omaha	705	1004	1.8	87	3.0	1.0	1.0	3.5	1.5	15.6	3.60
Pana	701*	929	2.0	108	3.0	1.0	1.5	3.3	1.0	15.6	4.48
Probst	630*	926	1.3	88	3.0	1.0	1.0	3.3	2.5	14.9	3.57*
Rend	703	1003	2.0	102	3.0	1.0	1.0	3.3	2.5	14.4	3.62
Saline	708	1006	2.3	103*	3.0	1.0	1.0	3.3	2.0	15.8	4.26 [^]
Saturn	707	927	1.5	64	1.0	1.0	1.0	2.8	1.0	27.1	2.64*
Savoy	703	915	1.3	65	3.0	1.0	1.0	2.3	1.5	15.3	3.22*
Stout	706	927	1.3	61	1.0	1.0	1.0	2.5	1.0	16.7	3.45
Stressland	711	1005	1.8	96	3.0	1.0	1.0	3.0	2.5	14.2	3.84
Stride	623	822 [^]	1.0 [^]	49	3.0 [^]	1.0 [^]	1.0 [^]	1.5 [^]	1.0	14.3 [^]	2.68 [^]
Strong	707	1003	1.3	58	1.0	1.0	1.0	2.8	1.0	19.0	3.51
Surge	622	825	1.5 [^]	54	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	15.7 [^]	-
Tiffin	628*	913	2.3	85	3.0	1.0	1.0	3.5	1.5	14.5	2.86
Titan	625	829 [^]	1.5 [^]	65	3.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	15.4 [^]	2.50 [^]
TN 4-94	715	1023	1.8	113	3.0	1.0	1.0	2.5	1.0	14.4	2.94
Troll	709	1002	1.3	60	1.0	1.0	1.0	2.5	1.0	19.2	3.92
Yale	706*	929	1.3	85	3.0	1.0	1.0	3.8	3.0	16.4	3.44 [^]
424005	731	927	5.0	42*	5.0	2.5	3.5*	3.0	3.0	3.5	0.44 [^]
468907	717	907 [^]	5.0 [^]	103	5.0 [^]	1.0 [^]	3.0 [^]	2.5 [^]	--	3.2 [^]	1.15 [^]
468919	727	921	5.0	100	5.0	3.0	4.5	2.0	--	2.6	0.37
483459	630	827 [^]	2.5 [^]	37*	4.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	--	4.4 [^]	0.84 [^]
504480	804	1009	3.5	88	1.0	2.0*	3.0*	2.3	1.5	14.5	1.52*
504481	721	923	2.0	66	1.0	1.5	4.0*	2.0	3.0	16.8	2.19
504482	725	1005	2.5	85	1.0	2.0	3.5	3.0	3.5	12.9	1.54
504484	703	823	1.0 [^]	37	1.0 [^]	1.0 [^]	3.0 [^]	2.0 [^]	1.0	21.6 [^]	1.32 [^]
504485	703	822	1.0 [^]	29	1.0 [^]	1.0 [^]	-	1.5 [^]	1.0	19.0 [^]	-
504486	629*	905	1.8	79	3.0	1.0	1.0	2.8	1.0	13.4	2.88*
504487	717	917	1.8	59	1.0	3.0*	5.0	2.8*	1.0	12.7	1.48
504488	721	917	2.3	60*	1.0	3.5	5.0	2.8*	1.5	13.2	1.47*
504489	627	824*	1.0	30	1.0	3.0	5.0	2.8	1.0	22.3	1.09
504490	701	905	1.0	42	1.0	3.0	5.0	2.5	1.0	21.6*	1.60
504493	707	828	2.0	60*	1.5	3.5	5.0	2.3	1.0	20.1	0.89
504494	701	822	1.0 [^]	36	1.0 [^]	1.0 [^]	2.0 [^]	2.0 [^]	1.0	18.6 [^]	1.24 [^]
504496	701	901	1.0	34	1.0	3.5	5.0	2.0	1.0	19.3	1.42 [^]
504497	629	901*	1.0	37	1.0	3.0	5.0	2.3	1.0	22.2	1.56

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
MN1401	I	39.8 [^]	21.2 [^]	10.7 [^]	3.9 [^]	22.0 [^]	56.2 [^]	7.0 [^]
MN1801	I	38.8 [^]	22.4 [^]	11.6 [^]	4.4 [^]	24.6 [^]	53.4 [^]	6.0 [^]
Mustang	IV	42.8	17.3	9.6	4.6	23.6	55.0	7.2
NE1900	I	36.8 [^]	21.9 [^]	11.3 [^]	4.9 [^]	27.6 [^]	50.3 [^]	5.8 [^]
NE3297	III	41.3	19.9	11.1	4.6	28.6	49.8	5.9
NE3399	III	42.4	18.7	11.3	3.7	23.9	54.4	6.8
NE3400	III	44.3	18.6	9.9	4.2	31.7	48.7	5.4
Nemaha	III	40.5	20.6	11.4	4.4	24.9	52.9	6.5
Odell	III	41.5	19.6	10.9	4.2	26.8	51.9	6.2
Ohio FG1	III	43.1	18.4	10.7	3.9	27.1	52.0	6.3
Ohio FG2	III	43.5 ^w	20.3 ^w	13.9	3.9	25.7	49.0	7.5
Olympus	II	37.9	21.1	10.2	3.9	26.2	53.5	6.2
Omaha	IV	42.3	19.3	8.9	5.1	26.5	52.7	6.8
Pana	III	41.1	19.4	9.9	4.8	24.8	54.5	6.0
Probst	III	41.7	18.6	10.1	5.6	28.9	49.2	6.2
Rend	IV	42.4	18.0	9.1	3.9	23.5	56.5	6.9
Saline	III	41.8	19.6	10.5	4.4	23.7	54.3	7.2
Saturn	III	41.8	18.5	9.3	4.0	35.0	46.0	5.7
Savoy	II	38.5	20.6	10.2	3.8	23.7	55.1	7.1
Stout	III	40.1	20.2	10.0	3.9	27.9	52.5	5.7
Stressland	IV	44.0	18.2	9.3	4.4	22.4	56.3	7.6
Stride	I	35.3 [^]	24.0 [^]	11.7 [^]	5.3 [^]	25.8 [^]	51.1 [^]	6.0 [^]
Strong	IV	40.5	20.3	8.6	4.1	23.1	57.9	6.2
Surge	0	38.8 [^]	22.9 [^]	10.9 [^]	3.9 [^]	25.8 [^]	53.4 [^]	5.9 [^]
Tiffin	II	40.5	19.7	10.4	3.9	26.4	52.9	6.4
Titan	I	35.5 [^]	21.7 [^]	12.1 [^]	4.6 [^]	25.7 [^]	51.9 [^]	5.8 [^]
TN 4-94	IV	39.9	18.7	9.2	4.6	25.9	53.7	6.6
Troll	IV	39.8	21.3	9.0	4.3	27.4	53.5	5.8
Yale	III	41.0	17.3	11.1	4.3	25.3	53.5	5.9
424005	III	48.8 ^w	10.2 ^w	15.0	4.0	16.4	54.1	10.6
468907	I	49.5 ^{w^}	10.7 ^{w^}	14.0 [^]	4.7 [^]	16.3 [^]	54.2 [^]	10.7 [^]
468919	III	45.3 ^w	12.3 ^w	12.6	3.7	27.2	49.7	6.7
483459	I	51.4 ^{w^}	13.2 ^{w^}	13.4 [^]	4.0 [^]	20.2 [^]	53.3 [^]	9.2 [^]
504480	IV	46.0	14.5	8.6	4.0	25.3	53.0	9.2
504481	III	43.9	17.9	10.2	3.8	27.9	51.3	6.8
504482	IV	44.5 ^w	16.7 ^w	9.7	3.9	22.2	55.6	8.5
504484	I	43.7 [^]	19.0 [^]	12.4 [^]	3.4 [^]	29.6 [^]	48.5 [^]	6.1 [^]
504485	I	44.4 [^]	18.5 [^]	11.8 [^]	3.2 [^]	29.0 [^]	50.0 [^]	6.0 [^]
504486	II	42.3	19.1	10.8	3.8	26.6	51.4	7.3
504487	III	41.5	18.0	10.5	3.4	23.6	54.2	8.3
504488	III	41.3	16.9	10.9	3.2	21.6	54.5	9.9
504489	I	44.7	19.0	10.7	2.9	38.8	43.2	4.4
504490	II	43.4 ^w	19.1 ^w	14.9	4.0	29.1	45.5	6.5
504493	I	44.6	17.0	11.5	3.2	28.6	50.2	6.5
504494	I	42.8 [^]	18.8 [^]	12.2 [^]	3.5 [^]	25.7 [^]	51.6 [^]	7.0 [^]
504496	II	42.8 ^w	20.4 ^w	12.1	2.8	27.3	51.4	6.4
504497	II	44.7 ^w	19.9 ^w	11.6	2.9	31.8	47.9	5.8

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
504498	Lu ta hsiu	unknown	Taiwan	Taiwan	1986	II
504500	Kaohsiung No. 1	unknown	Taiwan	Taiwan	1986	II
504501	Kaohsiung No. 3	unknown	Taiwan	Taiwan	1986	II
504502	Ou yuan tsao shen	unknown	Taiwan	Taiwan	1986	I
504503	Tainung 15	unknown	Taiwan	Taiwan	1986	IV
504504	Sundar No. 1	unknown	Taiwan	Taiwan	1986	III
504508	Yukimame	unknown	Japan	Taiwan	1986	III
504509	Kaohsiung yu 1034	unknown	Taiwan	Taiwan	1986	IV
506420	Tankyongkong	Kyonggi	South Korea	South Korea	1986	IV
506590E	(Bansei ao daizu)	Tohoku	Japan	Japan	1986	IV
506838A	Kantou 7	Kanto	Japan	Japan	1986	III
506838B	(Kantou 7)	Kanto	Japan	Japan	1986	III
507174	Rikuu 10	Kanto	Japan	Japan	1986	II
507196	Saikai 10	Kyushu	Japan	Japan	1986	II
507268	Shiro higo	Tohoku	Japan	Japan	1986	IV
549045A		Shaanxi	China	China	1990	IV
561233A		Beijing	China	China	1991	I
561233B		Beijing	China	China	1991	II
561233C		Beijing	China	China	1991	II
567344A	Mi qiao lu dou	Gansu	China	China	1992	IV
567723	Fu yang (47)	Anhui	China	China	1992	IV
578360	Guan nan chun hei dou	unknown	China	China	1992	II
578362	Chun hei dou	unknown	China	China	1992	I
578363	Wu chun liu yue bao	unknown	China	China	1992	II
578364	Wu yue huang	unknown	China	China	1992	II
578365	Tian men niu mao hong	unknown	China	China	1992	II
578366	Hong hu liu yue bao	unknown	China	China	1992	III
578367	164-4-19	Liaoning	China	China	1993	III
578368	164-4-32	Liaoning	China	China	1993	III
578369	274-2	Liaoning	China	China	1993	II
578370	6-5	Liaoning	China	China	1993	III
578374	Aan tu bai hua lu da dou	Jilin	China	China	1993	I
578375B	(Aan tu dang di hei dou)	Jilin	China	China	1993	I
578376	Aantu hei se da dou	Jilin	China	China	1993	II
578378	Bai pi dou	Liaoning	China	China	1993	II
578379	Bai pi zi	Liaoning	China	China	1993	IV
578380A	Bai qi	Heilongjiang	China	China	1993	I
578380B	(Bai qi)	Heilongjiang	China	China	1993	II
578382	Bai qi xiao jin huang	Heilongjiang	China	China	1993	I
578383	Bai tie jia	Liaoning	China	China	1993	IV
578384	Bai tie jia qing	Liaoning	China	China	1993	I
578385	Bao qing xiao jin huang	Heilongjiang	China	China	1993	I
578388B	(Bei man 217)	Heilongjiang	China	China	1993	I
578390	Beng pi	Jilin	China	China	1993	II
578392A	Cai zhong pu	Jilin	China	China	1993	I
578392B	(Cai zhong pu)	Jilin	China	China	1993	II
578399	Fu ding zhu	Liaoning	China	China	1993	II

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
504498	II	D	P	T	E	Ssp	Br	I	Gn	Bl		2N
504500	II	N	P	G	E	N	Tn	D	Y	Y		3N
504501	II	N	P	G	E	N	Tn	I	Y	Y	Sdef	2N
504502	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
504503	IV	D	P	G	A	N	Br	I	Y	Bf		3N
504504	III	D	P	G	A	Ssp	Br	I	Y	Bf		2N
504508	III	D	W	G	E	Ssp	Br	I	Gn	Gn		3N
504509	IV	D	P	T	A	Ssp	Br	I	Y	Br	Vhil	3N
506420	IV	D	W	T	E	N	Tn	I	Y	Tn	Vhil	3N
506590E	IV	D	P	T	E	N	Br	I	Gn	Bl	Gnc	3N
506838A	III	D	W	T	A	Ssp	Tn	D	Y	Br		2N
506838B	III	D	W	T	A	Ssp	Tn	I	Y	Tn		2N
507174	II	D	W	G	E	N	Tn	I	Y	Bf		3N
507196	II	D	P	G	A	Ssp	Br	I	Y	Y	Vhil	2N
507268	IV	D	W	G	A	N	Tn	D	Y	Bf		3N
549045A	IV	N	P	T	A	N	Bl	B	Bl	Bl	Flk, Sw	5N
561233A	I	N	W	G	E	Ssp	Br	I	Y	Y		1N
561233B	II	N	W	G	E	N	Br	D	Y	Y		3N
561233C	II	N	W	G	E	N	Br	I	Y	Y		2N
567344A	IV	S	P	G	E	N	Bl	D	Gn	Bf		3N
567723	IV	D	W	G	A	N	Br	D	Y	Bf		3N
578360	II	D	W	T	A	N	Tn	I	Bl	Bl		3N
578362	I	D	P	Lt	A	N	Br	I	Bl	Bl		4N
578363	II	N	P	G	A	N	Tn	I	Lgn	Bf		3N
578364	II	S	P	G	Sa	N	Br	I	Y	Bf		3N
578365	II	D	W	T	Sa	N	Tn	I	Y	Br		3N
578366	III	S	W	G	E	N	Br	I	Y	Bf		4N
578367	III	D	W	G	E	N	Br	I	Y	Y		3N
578368	III	D	W	G	E	Ssp	Br	D	Y	Y		3N
578369	II	N	P	G	E	N	Tn	D	Y	Y		3N
578370	III	D	W	T	E	N	Br	I	Y	Br		3N
578374	I	D	W	T	E	Ssp	Bl	I	Gn	Tn	Gnc	2N
578375B	I	N	P	T	E	Ssp	Br	I	Bl	Bl		3N
578376	II	N	W	T	E	Ssp	Br	I	Bl	Bl		3N
578378	II	D	P	G	E	Ssp	Tn	I	Y	Y		3N
578379	IV	D	W	G	E	N	Br	D	Y	Bf		3N
578380A	I	N	W	G	E	N	Br	I	Y	Y		2N
578380B	II	N	W	G	E	N	Br	I	Y	Y		3N
578382	I	D	P	G	E	N	Tn	I	Y	Y		2N
578383	IV	N	W	Lt	E	N	Tn	D	Gn	Br		3N
578384	I	D	W	G	E	Ssp	Dbr	I	Y	Y		2N
578385	I	N	P	T	E	N	Bl	I	Y	Br		2N
578388B	I	N	P	G	E	N	Br	I	Y	Y		2N
578390	II	S	W	G	E	N	Br	I	Y	Y	Vhil	2N
578392A	I	N	W	G	E	Ssp	Br	S	Y	Y		2N
578392B	II	S	W	G	E	N	Br	S	Y	Bf		4N
578399	II	S	P	T	E	N	Tn	I	Y	Tn		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				term.	early	late	Quality		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg sd ⁻¹)	(Mg ha ⁻¹)
504498	701	901	1.0	39	1.0	2.5	5.0	2.5	1.0	19.6	1.68
504500	701	905	2.3	80*	2.5	1.0	2.0	3.0	1.5	21.7	2.24 [^]
504501	702	905	1.3	76	2.5	1.0	1.0	3.3	1.5	19.5	2.38
504502	621	820	1.0 [^]	36	1.0 [^]	3.0 [^]	5.0 [^]	3.0 [^]	1.0	25.0 [^]	1.36 [^]
504503	804	1007	3.5	69	1.0	2.5	3.5	2.3	1.5	14.3	1.45*
504504	721	925	2.0	70*	1.0	3.0	4.0*	2.3	1.0	15.0	1.56
504508	713	928	1.8	60	1.0	1.0	2.5	3.0	2.5	28.9	2.00 [^]
504509	719	1005	2.0	64	1.0	3.5	4.0	3.0	1.5	20.1	1.22
506420	705	930	1.3	56	1.0	1.0	2.0	2.3	1.0	18.9	2.64
506590E	721	1012	2.0	64	1.0	3.0	3.5	3.3	1.0	24.2	1.47
506838A	720	921	2.0	62	1.0	3.5	5.0	2.3	1.5	16.8	1.94
506838B	721	925	2.0	66	1.0	3.0	4.5	2.3	2.5	17.2	1.92
507174	719	913	2.8	70	1.0	2.0	4.0	2.8	3.0	11.5	2.01
507196	717	909	2.3	50	1.0	2.5	5.0	1.8	1.0	12.0	1.50
507268	723	1003	2.3	71	1.0	2.5	4.0*	3.0	1.0	20.7	1.66
549045A	821	1016	5.0	34	5.0	2.0	4.0 [^]	3.0	--	2.0	0.13 [^]
561233A	628	827 [^]	2.0 [^]	66*	3.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	23.0 [^]	2.53 [^]
561233B	629*	907	2.3	83	3.0	1.0	2.0	3.5	1.5	17.8	2.64
561233C	703	913	2.5	85	3.0	1.0	1.0	3.0	1.5	18.4	2.74
567344A	728	1014	3.5	78	2.0	1.0	1.5	2.8	3.0	9.4	1.28
567723	727	1007	4.0	79	1.0	1.5	2.0	2.8	3.0	9.4	1.73
578360	712	903	2.3	71*	1.5	3.5*	5.0	2.0	--	14.9	1.73
578362	719	830	2.5	85*	1.5	1.0	2.0	2.3*	--	9.3	1.55
578363	721	906	2.3	67*	2.5	3.5	5.0	2.5	3.0*	11.5	0.87
578364	726	913	3.0	85	2.0	3.0*	5.0	2.8	3.0*	10.9	1.05
578365	715	913	2.5	83	1.5	1.0	2.5	2.5	2.5	12.1	1.58
578366	724	923	3.0	91*	2.0	3.0	4.5	2.5	3.0	10.9	1.00
578367	713	916	2.5	75	1.0	1.0	2.0	3.5	2.5	20.8	2.41
578368	713	921	2.0	68	1.0	1.0	1.0	2.8	2.0	21.3	2.55
578369	709*	913	2.5	86	3.0	1.0	1.0	3.5	2.0	16.8	2.47
578370	717	923 [^]	2.5	77*	1.0	2.5	4.0	3.0	1.5	16.3	2.38
578374	629	830 [^]	1.0 [^]	34	1.0 [^]	1.0 [^]	2.0 [^]	2.0 [^]	3.0	19.2 [^]	1.97 [^]
578375B	623	824 [^]	2.0 [^]	63*	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	--	10.3 [^]	2.80 [^]
578376	629	911	2.0	103*	3.5	1.0	1.0	3.0	--	9.3	2.14
578378	629*	903	2.8	66*	1.0	1.0	1.0	2.8	1.5	10.7	2.11
578379	722	929	2.3	82	1.0	1.0	2.5	2.5	1.0	15.7	2.26
578380A	630	824 [^]	4.0 [^]	64*	3.0 [^]	1.0 [^]	1.0 [^]	3.5 [^]	2.0	14.2 [^]	2.73 [^]
578380B	703	905	3.5	102	3.0	1.0	3.0	3.5	1.5	13.9	2.18
578382	701	827	1.5 [^]	41	1.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	17.5 [^]	2.65 [^]
578383	715*	929	3.0	100*	4.0	1.0	2.5	3.0	2.5	14.4	2.10*
578384	701	829	1.0 [^]	37	1.0 [^]	1.0 [^]	1.0 [^]	1.5 [^]	1.0	17.0 [^]	2.13 [^]
578385	623	826 [^]	2.0 [^]	69	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	3.0	10.7 [^]	2.14 [^]
578388B	627	824	1.5 [^]	51*	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	15.3 [^]	2.04 [^]
578390	703	907	2.0	95*	2.0	1.0	1.5	3.0	1.0	14.3	2.48
578392A	627	830	1.5 [^]	60*	3.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	15.2 [^]	-
578392B	630*	903	2.0	76	2.0	1.0	2.5	2.8	1.0	12.5	2.49
578399	709*	913	2.0	75	2.0	1.0	1.0	2.8	3.0*	12.5	2.52

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
504498	II	42.7 ^w	19.8 ^w	12.1	2.9	27.3	51.4	6.3
504500	II	42.3	19.4	11.1	3.7	35.9	43.5	5.9
504501	II	40.1	19.2	9.8	3.2	25.4	54.4	7.2
504502	I	42.9 [^]	19.1 [^]	10.6 [^]	2.7 [^]	42.7 [^]	39.8 [^]	4.2 [^]
504503	IV	46.0	14.0	8.6	3.8	23.9	53.7	10.0
504504	III	41.5	17.0	10.6	3.3	22.5	54.7	9.0
504508	III	45.4 ^w	18.6 ^w	12.3	3.5	30.4	47.9	6.0
504509	IV	43.8	17.3	9.4	3.9	25.1	54.5	7.1
506420	IV	41.4	18.5	9.5	4.0	22.4	56.7	7.3
506590E	IV	44.7 ^w	18.0 ^w	12.4	3.8	25.3	52.0	6.5
506838A	III	39.6	18.1	10.9	3.5	29.4	49.1	7.2
506838B	III	40.7	17.4	11.5	3.6	28.3	49.3	7.2
507174	II	45.8	14.3	12.7	3.5	21.6	52.5	9.7
507196	II	46.0	15.3	10.4	3.6	18.6	57.2	10.2
507268	IV	42.2	17.7	9.8	4.1	25.2	53.7	7.2
549045A	IV	50.6 ^w	8.2 ^w	12.2	3.2	14.6	55.4	14.6
561233A	I	40.3 [^]	18.7 [^]	10.5 [^]	4.5 [^]	32.9 [^]	46.1 [^]	6.1 [^]
561233B	II	44.2	19.0	12.0	4.8	28.7	47.9	6.7
561233C	II	40.9	18.7	11.4	3.9	26.9	51.0	6.7
567344A	IV	43.1 ^w	15.5 ^w	12.7	3.3	22.6	52.8	8.5
567723	IV	46.2	15.6	9.1	4.2	27.4	52.3	7.1
578360	II	44.8 ^w	17.4 ^w	12.5	3.2	25.3	51.2	7.9
578362	I	46.4 ^w	14.1 ^w	12.2	3.8	23.8	52.1	8.1
578363	II	48.0 ^w	14.8 ^w	12.6	3.8	29.7	46.4	7.6
578364	II	46.1 ^w	15.4 ^w	10.4	3.8	30.0	48.7	7.2
578365	II	43.3	16.7	11.3	4.2	31.3	47.4	5.8
578366	III	45.4	15.8	9.1	4.5	30.6	49.0	6.8
578367	III	43.8	18.5	9.8	4.6	27.0	50.9	7.7
578368	III	43.7	17.6	9.7	4.1	22.9	55.4	7.9
578369	II	45.1	18.1	12.1	4.0	30.4	47.7	5.8
578370	III	41.8	19.0	10.1	3.9	29.0	50.5	6.5
578374	I	48.6 ^{w^}	19.1 ^{w^}	13.1 [^]	3.5 [^]	26.3 [^]	52.0 [^]	5.1 [^]
578375B	I	51.2 ^{w^}	15.8 ^{w^}	12.8 [^]	3.8 [^]	23.3 [^]	53.5 [^]	6.6 [^]
578376	II	41.4 ^w	18.0 ^w	12.5	3.8	23.0	54.2	6.5
578378	II	40.9	18.7	12.8	4.0	24.8	51.2	7.3
578379	IV	40.9	18.9	10.4	4.1	23.3	54.3	7.8
578380A	I	38.7 [^]	22.0 [^]	11.7 [^]	4.5 [^]	33.0 [^]	45.8 [^]	4.9 [^]
578380B	II	40.7	19.7	12.5	4.5	24.9	51.8	6.3
578382	I	43.6 [^]	18.9 [^]	11.2 [^]	3.1 [^]	28.2 [^]	52.0 [^]	5.5 [^]
578383	IV	47.2 ^w	16.8 ^w	12.9	3.4	25.0	51.6	7.1
578384	I	41.2 [^]	20.5 [^]	11.8 [^]	4.3 [^]	25.2 [^]	52.9 [^]	5.9 [^]
578385	I	38.6 [^]	20.2 [^]	10.1 [^]	3.6 [^]	22.0 [^]	56.2 [^]	8.0 [^]
578388B	I	45.6 [^]	17.9 [^]	10.8 [^]	3.5 [^]	25.2 [^]	53.1 [^]	7.5 [^]
578390	II	41.8	18.8	12.1	4.2	26.8	50.5	6.4
578392A	I	41.6 [^]	19.7 [^]	12.2 [^]	3.2 [^]	24.8 [^]	53.5 [^]	6.3 [^]
578392B	II	42.1	19.3	11.2	4.4	28.0	50.0	6.4
578399	II	40.7 ^w	18.8 ^w	12.6	3.9	26.3	50.9	6.4

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
578400	Fu dou	Jilin	China	China	1993	I
578401A	Fu shou	Liaoning	China	China	1993	I
578401B	(Fu shou)	Liaoning	China	China	1993	I
578401C	(Fu shou)	Liaoning	China	China	1993	I
578401D	(Fu shou)	Liaoning	China	China	1993	II
578402	Gong jiao 5201-18	Jilin	China	China	1993	II
578403	Gong jiao 5202-4	Jilin	China	China	1993	II
578405	Gong jiao 5603-2	Jilin	China	China	1993	II
578406	Gong jiao 5610-1	Jilin	China	China	1993	II
578407	Gong jiao 5610-2	Jilin	China	China	1993	I
578408	Gong jiao 5610-3	Jilin	China	China	1993	I
578409A	Gong jiao 5919-1	Jilin	China	China	1993	I
578409B	(Gong jiao 5919-1)	Jilin	China	China	1993	II
578410	Gong jiao 6005-2	Jilin	China	China	1993	II
578411	Gong jiao 6005-3	Jilin	China	China	1993	II
578412	Gong jiao 6308-1	Jilin	China	China	1993	II
578413	Gong jiao 6309-1	Jilin	China	China	1993	II
578414	Gong jiao 6309-2	Jilin	China	China	1993	II
578416	Guo yu 98	Jilin	China	China	1993	II
578417B	(Guo yu B4)	Jilin	China	China	1993	I
578418	Guo yu B5	Jilin	China	China	1993	I
578419A	Guo yu B6	Jilin	China	China	1993	II
578419B	(Guo yu B6)	Jilin	China	China	1993	II
578420	Ha No. 1	Jilin	China	China	1993	I
578421	Ha No. 3	Jilin	China	China	1993	I
578425	He feng No. 6	Heilongjiang	China	China	1993	I
578431	He jiao No. 6	Heilongjiang	China	China	1993	I
578432B	(He jiao No. 8)	Heilongjiang	China	China	1993	I
578439	Coc hong phuong a	(north)	Vietnam	Vietnam	1993	III
578440	Cuc luc ngan	(north)	Vietnam	Vietnam	1993	IV
578473A	Tai Lake Yellow	unknown	China	China	1993	III
578473B	(Tai Lake Yellow)	unknown	China	China	1993	IV
578477A	Huai 810	unknown	China	China	1993	IV
578477B	(Huai 810)	unknown	China	China	1993	IV
578477C	(Huai 810)	unknown	China	China	1993	IV
578478A	Huai 823	unknown	China	China	1993	IV
578479	Huai 833	unknown	China	China	1993	III
578481	Nizhen No. 1	unknown	China	China	1993	I
578486	Local variety	Uttar Pradesh	India	India	1993	III
578490	He nan zao feng No. 1	Henan	China	China	1994	IV
578492	Hui chun dou	Jilin	China	China	1994	II
578493	Huang bao zhu	Jilin	China	China	1994	II
578494A	Jin dou No. 1	Shanxi	China	China	1994	IV
578494B	(Jin dou No. 1)	Shanxi	China	China	1994	III
578495	Jin dou No. 4	Shanxi	China	China	1994	IV
578497A	Jin yuan	Jilin	China	China	1994	III
578497B	(Jin yuan)	Jilin	China	China	1994	III

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
578400	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
578401A	I	N	P	G	E	N	Tn	I	Y	Y		2N
578401B	I	N	W	G	E	N	Br	I	Y	Y		2N
578401C	I	N	P	G	E	N	Br	I	Y	Y		2N
578401D	II	N	P	G	E	N	Br	I	Y	Y		3N
578402	II	N	W	G	E	N	Tn	I	Y	Bf	Na, Vhil	2N
578403	II	N	W	G	E	N	Br	I	Y	Lbf		3N
578405	II	N	W	G	E	N	Br	I	Y	Bf		3N
578406	II	N	W	G	E	N	Br	I	Y	Bf		3N
578407	I	N	W	G	E	N	Br	I	Y	Bf		2N
578408	I	N	W	G	E	N	Br	I	Y	Bf		2N
578409A	I	N	W	G	E	N	Br	I	Y	Lbf	Na	2N
578409B	II	N	W	G	E	Ssp	Br	I	Y	Bf	Vhil	3N
578410	II	D	W	G	E	N	Br	I	Y	Bf		3N
578411	II	D	W	G	E	N	Br	I	Y	Bf		3N
578412	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	3N
578413	II	D	W	G	E	N	Br	I	Y	Y	Vhil	3N
578414	II	D	W	G	E	N	Br	I	Y	Y		3N
578416	II	D	W	G	E	N	Br	I	Y	Y	Na	3N
578417B	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578418	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578419A	II	N	W	G	E	Ssp	Tn	I	Y	Y		3N
578419B	II	N	W	G	E	N	Br	I	Y	Bf		3N
578420	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
578421	I	N	W	G	E	N	Br	I	Y	Y	Vhil	1N
578425	I	N	P	G	E	N	Br	I	Y	Y		2N
578431	I	N	W	G	E	N	Br	I	Y	Y	Vhil	1R
578432B	I	N	P	G	E	N	Br	I	Y	Y		2N
578439	III	S	P	T	A	N	Tn	I	Y	Bl		3N
578440	IV	D	P	G	A	N	Tn	I	Y	Dbf		3N
578473A	III	N	P	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
578473B	IV	D	P	G	Va	N	Tn	D	Y	Bf	Vhil	3N
578477A	IV	D	P	G	A	Ssp	Tn	D	Y	Bf		3N
578477B	IV	D	P	T	A	N	Tn	D	Y	Br		3N
578477C	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
578478A	IV	N	W	G	Sa	N	Br	I	Y	Y		3N
578479	III	N	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
578481	I	D	P	T	Sa	N	Br	I	Y	Bl		3N
578486	III	D	P	G	E	Ssp	Br	D	Y	Y	Def	3N
578490	IV	D	W	G	E	N	Br	I	Y	Bf		3N
578492	II	S	W	G	E	N	Br	S	Y	Lbf		3N
578493	II	N	W	G	E	N	Br	I	Y	Bf		3N
578494A	IV	N	W	T	E	Ssp	Br	I	Y	Bl		3N
578494B	III	N	P	T	A	N	Tn	I	Y	Tn		3N
578495	IV	N	W	T	E	Ssp	Br	I	Y	Bl		3N
578497A	III	D	W	G	E	Ssp	Br	I	Y	Y		3N
578497B	III	D	W	G	E	N	Br	I	Y	Bf		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
578400	627	831	1.0^	36	1.0^	3.0^	5.0^	2.0^	1.0	19.9^	-
578401A	625	825^	2.0^	73*	3.0^	1.0^	1.0^	1.5^	1.0	14.1^	2.45^
578401B	629	825^	1.0^	55*	3.0^	1.0^	1.0^	1.5^	1.0	16.7^	2.48^
578401C	624	824^	3.0^	79*	3.0^	1.0^	2.0^	2.0^	1.0	15.8^	2.63^
578401D	703	907	1.8	94	3.0	1.0	1.5	2.8	2.5	13.8	2.55
578402	707*	911	2.3	87	3.0	1.0	1.0	2.3	1.5	11.7	2.54
578403	628	903	2.3	94	3.0	1.0	1.5	3.0	1.0	14.1	2.30
578405	630*	909	2.8	82*	3.0	1.0	1.0	3.0	2.0	13.2	2.30
578406	629	904	2.8	91	3.0	1.0	2.0	2.5	1.0	16.5	2.44
578407	621	824	2.0^	69	3.0^	1.0^	2.0^	3.0^	1.0	13.1^	2.15^
578408	626	826	2.0^	74*	3.0^	1.0^	1.0^	3.0^	1.0	14.5^	2.21^
578409A	622	827^	2.5^	75	3.0^	1.0^	1.0^	2.0^	1.0	17.5^	2.52^
578409B	703	905	3.0	80	3.0	1.0	1.0	2.8	1.0	17.2	2.28
578410	701*	904	2.0	60*	1.0	1.0	1.0	2.8	1.5	12.2	2.25
578411	701*	907	2.0	63	1.0	1.0	2.5	2.5	1.5	12.6	2.43
578412	628	911	2.3	78	3.0	1.0	1.0	3.0	2.5	12.5	2.07
578413	629*	903	2.0	66	1.0	1.0	3.5	3.3	2.0	12.8	2.25^
578414	629	902	1.5	57	1.0	1.0	1.5	2.8	1.5	13.0	2.43
578416	704	903	1.3	50	1.0	1.0	1.0	2.5	1.0	12.1	2.45^
578417B	625	823^	3.0^	86*	3.0^	1.0^	1.0^	3.0^	1.0	14.7^	2.54^
578418	624	824	1.5^	59*	3.0^	1.0^	1.0^	2.5^	1.0	15.9^	2.11^
578419A	707*	915	3.3	127	4.0	1.0	1.0	3.3	2.5	15.1	2.22
578419B	629*	914	3.0	91	3.0	1.0	1.0	3.0	1.5	14.4	2.70
578420	621	828	2.0^	64	3.0^	1.0^	1.0^	2.5^	1.0	16.2^	-
578421	623	823	1.5^	68*	3.0^	1.0^	1.0^	2.0^	1.0	17.0^	2.41^
578425	623	823	1.0^	58*	3.0^	1.0^	1.0^	2.5^	1.0	18.3^	2.71^
578431	623	819	1.5^	58*	3.0^	1.0^	1.0^	4.0^	1.0	17.6^	2.21^
578432B	624	824	1.0^	57*	3.0^	1.0^	1.0^	2.0^	1.0	17.0^	2.82^
578439	803	927	4.3	63	2.0	2.0	3.0*	3.0	2.5	8.7	0.45
578440	729	929	3.0	68	1.0	4.0*	4.5	2.8	3.0	8.3	0.28
578473A	723	922	2.8	106*	4.0	4.0*	5.0	3.5	3.0	12.7	0.83
578473B	723	1001	1.8*	31*	1.0	2.0*	3.0	2.5	1.0	19.6	0.44
578477A	722	1001	2.5	70*	1.0	1.0	1.5	3.0	1.0	22.9	1.25*
578477B	727	1001	2.3	69	1.0	1.0	1.5	2.3	3.0	12.5	1.29
578477C	728	1003	2.8	81	1.0	1.0	1.0	2.3	2.0	11.2	1.88
578478A	711*	1011	2.3	99	3.0	1.0	1.0	2.8	1.5	18.2	2.22
578479	723	926	3.0	64*	3.0	2.0	3.5	2.8	1.0	18.7	1.00*
578481	706	826	1.0^	34	1.0^	1.0^	1.0^	1.5^	1.0	16.6^	1.73^
578486	719	930	1.5	63	1.0	1.0	1.0	4.0	3.0	25.4*	1.58
578490	728	1005	3.0	89*	1.0	1.5	2.0*	1.8	1.5	10.6	2.11
578492	701	904	2.0	74*	2.0	1.0	1.0	2.3	2.0*	11.6	2.33
578493	705	905	3.3	100	3.0	1.0	2.0	3.0	1.0	14.7	2.32
578494A	718	1003	2.0	99	3.0	1.0	1.0	2.0	2.5	17.9	2.40
578494B	721	927	2.5	71	3.0	1.0	1.0	2.5	2.5	16.4	1.79
578495	719	1009	2.0	108	3.0	1.0	1.0	2.0	2.0	18.3	2.17
578497A	719	920	2.0	69	1.0	1.0	1.0	3.0	2.5	14.7	2.20
578497B	713	922	2.3	61	1.0	1.0	2.0	2.5	1.0	17.9	2.95

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
578400	I	41.5 [^]	22.1 [^]	10.7 [^]	3.2 [^]	37.8 [^]	43.9 [^]	4.4 [^]
578401A	I	39.8 [^]	19.9 [^]	12.2 [^]	4.0 [^]	21.5 [^]	54.9 [^]	7.4 [^]
578401B	I	43.4 [^]	19.0 [^]	11.9 [^]	3.7 [^]	27.2 [^]	50.6 [^]	6.7 [^]
578401C	I	41.3 [^]	19.3 [^]	11.5 [^]	3.5 [^]	29.4 [^]	49.5 [^]	6.1 [^]
578401D	II	41.6	17.9	12.0	3.7	26.1	51.1	7.1
578402	II	39.1	20.1	12.4	4.1	24.0	53.7	5.9
578403	II	41.8	19.3	11.1	4.5	30.8	48.0	5.6
578405	II	43.0	18.7	11.1	4.3	27.1	51.5	6.0
578406	II	41.1	20.7	11.0	4.6	31.1	47.5	5.8
578407	I	38.5 [^]	23.4 [^]	11.5 [^]	4.6 [^]	29.1 [^]	48.4 [^]	6.4 [^]
578408	I	38.3 [^]	23.1 [^]	11.2 [^]	4.8 [^]	34.6 [^]	44.3 [^]	5.1 [^]
578409A	I	40.4 [^]	20.1 [^]	11.4 [^]	4.4 [^]	27.0 [^]	51.3 [^]	5.9 [^]
578409B	II	42.5	19.4	11.8	4.6	32.2	45.6	5.7
578410	II	40.5	20.8	12.3	4.1	28.1	49.6	5.9
578411	II	40.2	19.6	14.1	5.0	29.3	46.3	5.3
578412	II	41.5	18.7	14.9	4.0	26.6	49.0	5.6
578413	II	39.7	21.2	12.1	4.7	32.0	45.7	5.5
578414	II	40.0	21.3	11.9	4.6	31.8	46.1	5.5
578416	II	38.1	20.6	10.9	4.3	26.0	52.3	6.6
578417B	I	40.4 [^]	21.0 [^]	10.8 [^]	4.6 [^]	30.3 [^]	49.2 [^]	5.1 [^]
578418	I	40.2 [^]	19.9 [^]	11.3 [^]	3.8 [^]	29.2 [^]	49.8 [^]	5.9 [^]
578419A	II	43.7	17.8	12.3	3.8	25.0	52.6	6.3
578419B	II	43.3	18.4	11.0	3.9	29.1	50.1	5.9
578420	I	38.6 [^]	21.8 [^]	11.2 [^]	4.6 [^]	27.1 [^]	51.2 [^]	5.9 [^]
578421	I	39.6 [^]	22.0 [^]	11.1 [^]	4.1 [^]	27.1 [^]	51.8 [^]	5.9 [^]
578425	I	41.7 [^]	20.5 [^]	11.9 [^]	4.2 [^]	29.5 [^]	48.8 [^]	5.6 [^]
578431	I	40.6 [^]	22.3 [^]	11.0 [^]	4.2 [^]	34.0 [^]	45.9 [^]	4.9 [^]
578432B	I	41.8 [^]	20.4 [^]	11.9 [^]	4.2 [^]	27.6 [^]	49.9 [^]	6.3 [^]
578439	III	47.1	15.2	10.0	5.3	26.9	50.1	7.8
578440	IV	42.4	17.0	10.7	4.3	29.9	47.2	7.8
578473A	III	46.7	15.1	12.0	3.9	27.8	49.7	6.5
578473B	IV	43.5	16.9	9.8	3.4	26.9	53.2	6.7
578477A	IV	43.6	16.4	8.8	4.0	30.0	51.3	5.8
578477B	IV	43.0	17.8	9.3	3.8	24.9	54.5	7.4
578477C	IV	41.7	17.1	9.1	3.7	23.3	56.2	7.6
578478A	IV	46.6	15.3	10.6	3.6	20.4	56.3	9.1
578479	III	42.5	18.2	10.6	3.9	30.1	49.7	5.6
578481	I	41.3 [^]	19.5 [^]	11.4 [^]	4.5 [^]	25.6 [^]	52.0 [^]	6.5 [^]
578486	III	46.0	16.9	9.2	3.5	26.2	53.9	7.2
578490	IV	44.7	17.3	10.0	4.0	21.1	57.0	7.9
578492	II	40.7	18.8	11.4	4.3	28.0	50.3	6.1
578493	II	41.8	21.0	10.8	5.0	33.4	45.2	5.6
578494A	IV	41.7	18.5	10.1	4.9	28.9	51.0	5.1
578494B	III	43.9	18.3	9.2	4.3	25.7	54.6	6.2
578495	IV	42.3	18.3	9.7	5.4	25.7	53.7	5.4
578497A	III	42.2	17.6	10.4	4.3	20.7	56.4	8.1
578497B	III	41.4	19.6	10.2	3.9	26.5	52.7	6.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
578498A	Ju xuan 23	Shandong	China	China	1994	III
578499A	Lu yue bai	unknown	China	China	1994	II
578499B	(Lu yue bai)	unknown	China	China	1994	II
578499C	(Lu yue bai)	unknown	China	China	1994	II
578500	Qun xuan No. 1	Jilin	China	China	1994	II
578502	Tie 5621	Liaoning	China	China	1994	II
578503	Tie jia si li huang	Jilin	China	China	1994	I
578504	Xiang dou No. 3	Hunan	China	China	1994	II
578505	Xiao jin huang No. 1	Jilin	China	China	1994	II
587576	Wu xian gui yuan huang	Jiangsu	China	China	1994	IV
587607A	Hai men bai mao jia	Jiangsu	China	China	1994	IV
587636	Wu jin xi zi wan dou	Jiangsu	China	China	1994	IV
587637	Jiang yin hei dou	Jiangsu	China	China	1994	III
587804	Jing 789	Hubei	China	China	1994	IV
587845	Hei huang dou	Hubei	China	China	1994	IV
587967	Liu yue bao	Sichuan	China	China	1994	IV
587976A	Huang dou	Sichuan	China	China	1994	IV
587977	Xiao huang dou	Sichuan	China	China	1994	III
587980A	Liu yue huang No. 1	Sichuan	China	China	1994	IV
587980B	(Liu yue huang No. 1)	Sichuan	China	China	1994	III
587980C	(Liu yue huang No. 1)	Sichuan	China	China	1994	IV
587981	Da huang dou	Sichuan	China	China	1994	III
587982A	Huang mao bai shui dou	Sichuan	China	China	1994	III
587982B	(Huang mao bai shui dou)	Sichuan	China	China	1994	IV
587983A	Zhuang zhuang dou	Sichuan	China	China	1994	IV
587983B	(Zhuang zhuang dou)	Sichuan	China	China	1994	IV
587987A	Da li dong dou	Sichuan	China	China	1994	IV
587989B	(Shuang hua huang jiao dou)	Sichuan	China	China	1994	IV
587991	Liu yue huang	Sichuan	China	China	1994	III
587998H	(Cheng guan ba yue huang)	Sichuan	China	China	1994	IV
587999A	Liu yue huang	Sichuan	China	China	1994	IV
587999B	(Liu yue huang)	Sichuan	China	China	1994	IV
587999C	(Liu yue huang)	Sichuan	China	China	1994	IV
587999D	(Liu yue huang)	Sichuan	China	China	1994	IV
588008A	Bai mao zi	Sichuan	China	China	1994	III
588008B	(Bai mao zi)	Sichuan	China	China	1994	IV
588008C	(Bai mao zi)	Sichuan	China	China	1994	IV
588016	Liang shan ba yue huang	Sichuan	China	China	1994	IV
588026A	Luo xi	Sichuan	China	China	1994	IV
588026B	(Luo xi)	Sichuan	China	China	1994	IV
588026C	(Luo xi)	Sichuan	China	China	1994	IV
588028	Mei zao dou	Sichuan	China	China	1994	IV
588033A	Xiao bai dou No. 1	Sichuan	China	China	1994	IV
588033B	(Xiao bai dou No. 1)	Sichuan	China	China	1994	IV
588033C	(Xiao bai dou No. 1)	Sichuan	China	China	1994	IV
588033D	(Xiao bai dou No. 1)	Sichuan	China	China	1994	IV
588050A	Da li huang	Guangdong	China	China	1994	III

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
578498A	III	D	W	G	Sa	N	Tn	I	Y	Bf		3N
578499A	II	D	P	T	A	Ssp	Br	D	Gn	Br		3N
578499B	II	D	P	T	A	N	Br	I	Gn	Br		3N
578499C	II	D	P	T	A	N	Br	I	Gn	Br		3N
578500	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	2N
578502	II	D	P	G	E	N	Bl	I	Y	Y		2N
578503	I	N	W	G	E	Ssp	Bl	I	Y	Lbf	Na	1N
578504	II	N	P	G	Sa	N	Tn	I	Y	Ib	Vhil	3N
578505	II	D	W	G	E	N	Br	I	Y	Bf		3N
587576	IV	D	W	G	A	N	Tn	I	Y	Bf	Sabh	3N
587607A	IV	D	W	G	Va	N	Tn	I	Y	Bf		3N
587636	IV	D	P	T	A	N	Br	I	Bl	Bl		3N
587637	III	D	P	T	A	N	Br	Lb	Bl	Bl		3N
587804	IV	N	P	G	Sa	N	Tn	I	Y	Bf		3N
587845	IV	S	W	Lt	A	N	Br	I	Bl	Bl		3N
587967	IV	D	W	G	A	N	Br	I	Y	Bf		3N
587976A	IV	S	P	T	A	N	Tn	I	Y	Br		3N
587977	III	S	P	T	A	N	Tn	I	Y	Br		3N
587980A	IV	S	P	T	Sa	N	Tn	I	Y	Bl		3N
587980B	III	S	P	T	A	N	Tn	I	Y	Br		3N
587980C	IV	D	W	T	A	N	Tn	I	Y	Br		3N
587981	III	S	P	T	A	N	Tn	I	Y	Br		3N
587982A	III	S	W	G	A	N	Br	I	Y	Bf		2N
587982B	IV	D	P	Lt	Sa	N	Br	I	Y	Brbl	Vhil	3N
587983A	IV	S	W	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
587983B	IV	S	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
587987A	IV	D	P	G	A	N	Tn	I	Y	Bf		3N
587989B	IV	S	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
587991	III	D	P	G	A	N	Tn	I	Y	Ib		3N
587998H	IV	D	W	T	A	N	Br	I	Y	Rbr		3N
587999A	IV	D	P	G	A	N	Br	I	Y	Ib		3N
587999B	IV	D	P	G	A	N	Br	I	Y	Bf		3N
587999C	IV	D	W	G	A	N	Br	I	Y	Bf		3N
587999D	IV	S	W	T	A	N	Br	I	Y	Br		3N
588008A	III	S	P	T	A	N	Tn	I	Y	Br		3N
588008B	IV	D	P	G	A	N	Tn	I	Y	Bf		3N
588008C	IV	S	P	G	Sa	N	Tn	I	Y	Bf		3N
588016	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
588026A	IV	D	P	Lt	Sa	Ssp	Br	D	Y	Bl		3N
588026B	IV	D	W	Lt	E	N	Br	I	Y	Br		3N
588026C	IV	D	W	T	Sa	N	Tn	I	Y	Br		3N
588028	IV	S	W	G	E	N	Br	I	Lgn	Dib		3N
588033A	IV	D	W	G	A	N	Br	I	Y	Bf		3N
588033B	IV	S	P	G	Sa	N	Br	I	Y	Ib	Vhil	3N
588033C	IV	D	P	G	E	N	Br	I	Y	Bf		3N
588033D	IV	S	P	G	Sa	N	Bl	I	Lgn	Bf		3N
588050A	III	D	P	T	Va	N	Tn	I	Y	Bl		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				term.	early	late	Quality		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg sd ⁻¹)	(Mg ha ⁻¹)
578498A	720	924	3.5	72*	1.0	1.0	1.5	2.8	2.0	15.0	2.53*
578499A	721	915	2.5	68*	1.0	2.5	4.5	3.0	2.0	12.9	1.03
578499B	721	915	2.5	59*	1.0	2.0	4.5	2.8	2.5	12.6	0.81
578499C	717	913	1.8	53*	1.0	3.5	5.0	2.8	2.5	11.2	0.73
578500	629	907	2.3	86	3.0	1.0	2.0	3.0	2.5	13.5	2.10
578502	708	917	1.5	62*	1.0	1.5	3.0	3.0	2.5	11.3	2.34
578503	626	827^	2.5^	71*	3.0^	1.0^	2.0^	2.5^	2.0	10.4^	2.17^
578504	729	911	3.5	60	4.0	2.0	3.5	2.8	1.0	8.9	0.60
578505	703	907	2.3	68	1.5	1.0	2.5	2.8	1.0	12.2	2.45
587576	731	1009	2.8	81	1.0	1.0	2.5	2.8	3.5	13.3	1.47
587607A	724	1002	2.0	67	1.0	1.0	1.0	1.8	1.0	13.0	1.80
587636	722	930	2.5	85*	1.0	2.0	3.5	2.3	--	19.4	1.61
587637	725	925	2.8	93*	1.5	2.0	4.0	2.3	--	13.6	1.55
587804	726	929	3.3	103	4.0	1.0	1.0	2.8	3.5	9.9	1.64
587845	804	1003	4.3	76	2.0	1.0	1.5	2.5	--	10.0	1.48*
587967	731	1003	3.5	68*	1.0	1.0	1.0	2.3	2.0	11.0	1.60
587976A	806	929	3.8	63	2.0	2.5	3.0*	2.5	2.0	11.5	0.34
587977	802	925	4.0	61	2.0	2.5	4.0	2.5	2.5	11.7	0.55
587980A	729	1017	3.3	100	2.0	1.0	1.0	2.8	3.0	13.6	1.38
587980B	804	925	3.8	53	2.0	2.5	3.5	2.8	3.0	11.3	0.36
587980C	727	1001	3.8	85*	1.5	1.0	2.0*	2.8	2.5	11.4	1.24
587981	729	928	4.0	78*	2.0	2.5	3.0	2.5	2.5	12.5	0.50
587982A	727	925	3.3	77*	2.0	1.0	2.5	2.0	1.5	7.8	1.14
587982B	725	929	3.8	75	1.5	1.5	3.0*	3.0	4.5	10.5	1.29
587983A	806	1017	2.5	105	2.0	1.0	2.0	2.5	2.0	11.7	1.27
587983B	806	1018	2.5	104	2.0	1.0	1.0	2.5	2.0	11.0	1.40
587987A	723	929	3.5	69*	1.0	1.5	3.5	2.3	1.0	15.9	1.08*
587989B	802	1009	3.3	141*	2.0	1.0	1.5	2.8	2.0	14.3	1.75
587991	802	928	3.3	73	1.0	1.0	2.0	3.0	1.5	10.6	0.87
587998H	726	1001	4.0	89*	1.0	1.0	2.0*	2.3	4.5	10.6	1.62
587999A	729	1002	3.8	91	1.0	1.0	1.5	2.5	1.0	8.6	1.28
587999B	802	1011	3.0	77*	1.0	1.0	1.5	1.8	1.5	8.5	1.28
587999C	809	1006	3.0	80*	1.0	1.0	1.0	2.0	1.5	9.9	1.04
587999D	808	1012	3.5	85	2.0	1.0	1.5	2.8	3.5	9.4	0.98
588008A	731	927	4.0	86*	2.0	1.0	2.5	2.5	2.0	12.1	0.84
588008B	804	1005	3.3	78	1.0	1.0	2.5	2.3	2.0	12.4	0.93
588008C	802	1007	3.8	92*	2.0	1.5	2.0	2.8	2.0*	13.5	0.80
588016	725	1001	2.5	74	1.0	1.0	3.0*	3.0	1.0	13.6	1.13
588026A	727	1003	2.5	68	1.0	1.0	2.5	2.8	2.5	13.9	1.22
588026B	725	1016	1.5	67	1.0	1.0	2.0	3.0	2.0	14.2	1.26
588026C	725	1017	2.3	80*	1.0	1.0	1.5	2.8	3.0	10.5	1.61
588028	810	1019	3.0	91*	2.0	1.0	1.0	2.3	3.0	8.1	1.04
588033A	727	1009	2.8	101	1.5	1.0	1.0	2.0	2.5	9.3	1.12
588033B	728	1007	3.0	90*	2.0	1.0	1.0	2.0	2.0	8.7	1.62
588033C	729	1007	3.0	97	1.5	1.5	1.5	2.3	2.5	9.4	1.61*
588033D	802	1007	2.5	92*	2.0	1.5	2.0	2.5	3.0	9.0	1.26
588050A	727	926	3.8	65	1.0	1.0	1.5	2.8	2.5	16.5	1.16

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
578498A	III	43.6	18.0	10.0	4.1	26.2	52.8	6.9
578499A	II	46.2 ^w	16.7 ^w	13.4	3.8	26.4	49.0	7.5
578499B	II	44.6 ^w	16.7 ^w	13.7	3.6	27.1	48.6	6.9
578499C	II	41.7 ^w	17.4 ^w	13.2	3.8	26.1	49.6	7.4
578500	II	41.4	17.7	12.5	4.3	22.6	52.9	7.8
578502	II	39.8	19.1	11.0	3.3	25.3	53.6	6.8
578503	I	40.4 [^]	18.4 [^]	12.2 [^]	4.0 [^]	21.7 [^]	55.3 [^]	6.8 [^]
578504	II	43.6	17.0	12.4	4.1	28.6	48.8	6.1
578505	II	39.9	20.3	11.0	4.3	29.4	49.6	5.8
587576	IV	44.5 ^w	17.6 ^w	10.0	3.4	26.5	52.8	7.3
587607A	IV	42.5	18.9	9.3	5.0	27.6	52.0	6.1
587636	IV	45.7 ^w	16.7 ^w	11.8	3.1	23.5	54.6	6.9
587637	III	43.4 ^w	18.6 ^w	13.2	3.3	25.8	51.0	6.7
587804	IV	42.5	15.3	11.1	4.2	23.9	52.5	8.4
587845	IV	45.4 ^w	15.2 ^w	12.7	4.0	22.9	51.7	8.7
587967	IV	43.9	15.8	9.5	4.2	22.0	56.1	8.3
587976A	IV	45.3	15.4	10.0	4.0	28.0	51.3	6.7
587977	III	45.5	15.7	10.2	3.9	26.5	52.2	7.2
587980A	IV	45.1	14.7	9.4	4.2	24.2	55.6	6.6
587980B	III	45.8	15.6	10.0	4.2	25.7	52.8	7.3
587980C	IV	46.6	15.0	10.5	4.0	24.2	53.2	8.2
587981	III	46.0	15.4	9.7	3.8	24.5	54.3	7.7
587982A	III	41.4	17.3	10.8	4.2	27.1	49.9	7.9
587982B	IV	45.6 ^w	15.2 ^w	12.7	3.3	30.6	47.0	6.4
587983A	IV	43.2	15.3	9.4	4.0	23.5	55.1	8.1
587983B	IV	43.5	15.6	9.3	4.3	23.0	55.4	7.9
587987A	IV	43.9	17.3	10.8	4.7	28.0	50.3	6.2
587989B	IV	42.1	16.5	9.5	4.5	26.4	52.8	6.9
587991	III	44.1	14.1	9.1	3.5	24.2	56.4	6.9
587998H	IV	44.0 ^w	17.6 ^w	12.6	3.1	20.5	56.2	7.7
587999A	IV	42.3	16.3	10.4	4.2	26.0	51.8	7.5
587999B	IV	45.5	14.0	10.2	4.0	19.7	57.5	8.6
587999C	IV	45.2	14.1	9.7	3.3	22.1	56.2	8.7
587999D	IV	49.5 ^w	14.3 ^w	9.9	4.0	23.6	54.0	8.5
588008A	III	43.1	15.6	9.6	5.1	33.4	45.9	6.0
588008B	IV	43.6	15.1	10.0	4.3	27.2	51.3	7.2
588008C	IV	44.2	15.1	10.2	4.0	25.5	52.5	7.7
588016	IV	46.3	15.1	9.5	4.9	32.1	47.1	6.3
588026A	IV	43.9	15.5	10.5	5.4	25.2	52.6	6.3
588026B	IV	45.8	15.0	10.4	3.7	25.4	52.7	7.8
588026C	IV	44.4	14.9	15.0	3.9	19.1	57.4	4.6
588028	IV	46.1 ^w	15.4 ^w	12.1	3.5	23.9	52.6	7.9
588033A	IV	44.2	16.0	10.7	3.9	24.0	53.4	8.0
588033B	IV	41.9	16.5	12.1	3.6	22.5	53.7	8.0
588033C	IV	41.4	15.8	10.8	4.0	22.8	53.8	8.5
588033D	IV	45.0 ^w	16.4 ^w	12.3	3.1	22.2	53.6	8.8
588050A	III	42.8	16.8	9.8	4.4	24.8	54.3	6.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
588052A	Yue dou No. 1	Guangdong	China	China	1994	IV
592899		Beijing	China	China	1991	I
592901		Beijing	China	China	1991	II
592905	Kitami nagaha	unknown	Japan	Japan	1994	I
592907A		unknown	Russia	Russia	1993	I
592907B		unknown	Russia	Russia	1993	I
592907C		unknown	Russia	Russia	1993	I
592907D		unknown	Russia	Russia	1993	I
592908		unknown	Russia	Russia	1993	II
592910		unknown	Russia	Russia	1993	II
592911A		unknown	Russia	Russia	1993	I
592911B		unknown	Russia	Russia	1993	I
592912A		unknown	Russia	Russia	1993	I
592912B		unknown	Russia	Russia	1993	I
592913		unknown	Russia	Russia	1993	II
592921	Hei nong 37	Heilongjiang	China	China	1994	I
592926	Tong nong No. 8	Jilin	China	China	1994	I
592927	Chen dou No. 4	unknown	China	China	1994	II
592928	Gong dou No. 4	unknown	China	China	1994	II
592929	Guan dou No. 1	Jiangsu	China	China	1994	IV
592930	Xiang chun dou 12	Hunan	China	China	1994	II
592932	Zao shu No. 9	Beijing	China	China	1994	II
592933	Zao shu 14	Beijing	China	China	1994	II
592934	Zhe chun No. 2	Zhejiang	China	China	1994	II
592935	Fu dou No. 1	Fujian	China	China	1994	III
592936	Ji dou No. 7	Hebei	China	China	1994	II
592937	Jin dou 14	Sichuan	China	China	1994	IV
592938	Jin dou 15	Sichuan	China	China	1994	II
592939	Jin dou 16	Sichuan	China	China	1994	IV
592940	Jin dou 17	Sichuan	China	China	1994	IV
592941	Liao dou No. 10	Liaoning	China	China	1994	II
592942	7605	Shandong	China	China	1994	III
592944	Tie feng 22	Liaoning	China	China	1994	II
592945	Zhong huang No. 1	unknown	China	China	1994	III
592946	Ji dou No. 4	Hebei	China	China	1994	IV
592947	Jin yi No. 9	Sichuan	China	China	1994	IV
592948	Jin yi No. 10	Sichuan	China	China	1994	IV
592949	Yu dou No. 8	Henan	China	China	1994	IV
592950	Yu dou 11	Henan	China	China	1994	III
592951	Zheng 133	Henan	China	China	1994	IV
592952	Zheng 77249	Henan	China	China	1994	III
592953	Zhong dou 19	Hubei	China	China	1994	IV
592954	Nin zhen No. 1	Jiangsu	China	China	1994	II
592956A		Jiangsu	China	China	1994	II
592956B		Jiangsu	China	China	1994	II
592956C		Jiangsu	China	China	1994	II
592957	Chang nong No. 5	Jilin	China	China	1994	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
588052A	IV	D	P	Lt	Va	N	Tn	I	Y	Bl		3N
592899	I	N	P	T	E	Ssp	Br	I	Y	G		2N
592901	II	D	W	G	E	Ssp	Br	S	Y	Y		2N
592905	I	D	P	T	E	Ssp	Br	I	Y	Br	Na	1N
592907A	I	N	W	G	E	N	Br	D	Y	Y		2N
592907B	I	N	P	T	E	N	Br	I	Y	Tn		2N
592907C	I	N	W	G	E	N	Br	D	Y	Y	Vhil	2N
592907D	I	N	W	G	E	N	Br	I	Y	Y		2N
592908	II	N	P	Lt	E	N	Bl	I	Br	Br		4N
592910	II	D	W	G	E	N	Br	I	Y	Y	Sdef	2N
592911A	I	N	P	T	E	N	Br	I	Y	Bl		2N
592911B	I	N	P	T	E	N	Br	D	Y	Bl		4N
592912A	I	S	P	T	E	N	Br	I	Y	Tn	Vhil	2N
592912B	I	S	P	T	E	N	Br	I	Y	Tn	Vhil	2N
592913	II	D	W	G	E	N	Br	I	Y	Y	Sdef	2N
592921	I	D	W	G	E	N	Br	D	Y	Y		3N
592926	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
592927	II	D	W	G	E	N	Br	I	Lgn	Lgn		3N
592928	II	D	P	G	A	N	Br	I	Y	Y		3N
592929	IV	D	P	G	A	N	Tn	I	Y	Bf		3N
592930	II	D	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
592932	II	D	W	G	Sa	N	Br	I	Y	Bf	Vhil	3N
592933	II	S	W	G	Sa	Ssp	Tn	I	Y	Bf	Na	2N
592934	II	D	W	Lt	E	N	Tn	I	Y	Brbl	Vhil	4N
592935	III	D	W	T	Sa	N	Br	I	Y	Bl		3N
592936	II	S	P	Lt	E	N	Tn	I	Y	Tn		2N
592937	IV	N	P	G	E	N	Br	I	Y	Y		5N
592938	II	N	P	T	E	Ssp	Br	D	Y	Br		2N
592939	IV	N	P	T	Sa	N	Br	D	Y	Tn		2N
592940	IV	N	P	T	Sa	N	Dbr	I	Y	Tn	Vhil	2N
592941	II	N	P	G	E	N	Tn	I	Y	Y		3N
592942	III	D	W	G	Sa	Ssp	Br	I	Y	Y	Na, Vhil	2N
592944	II	D	W	G	E	N	Br	I	Y	Y		2N
592945	III	N	W	T	Sa	Ssp	Br	I	Y	Brbl		3N
592946	IV	N	P	T	E	N	Br	I	Y	Brbl	Na, Sdef, Vhil	3N
592947	IV	D	P	G	E	Ssp	Br	I	Y	Bf		3N
592948	IV	N	P	G	E	Ssp	Br	D	Y	Y	Sdef	3N
592949	IV	D	W	G	E	N	Tn	I	Y	Bf	Na	2N
592950	III	D	P	G	A	N	Tn	S	Y	Ib	Vhil	3N
592951	IV	D	P	T	A	Sp	Br	I	Y	Br	Vhil	3N
592952	III	D	P	G	Sa	N	Tn	I	Y	Bf		3N
592953	IV	D	P	T	A	Ssp	Br	I	Y	Br		3N
592954	II	D	P	T	Sa	N	Br	I	Y	Bl		3N
592956A	II	N	W	T	E	N	Br	I	Bl	Bl	Def	3N
592956B	II	D	W	T	E	Ssp	Br	I	Bl	Bl		3N
592956C	II	N	W	T	E	Ssp	Br	I	Bl	Bl	Def	3N
592957	I	D	P	G	E	N	Br	I	Y	Y	Na	2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				(score)	(cm)	term.	early		
	(mmdd)	(mmdd)			(score)	(score)	(score)	(score)	(score)		
588052A	729	929	3.0	78	1.0	1.0	1.5	2.5	2.0	16.8	1.20
592899	625	823	1.5^	63	3.0^	1.0^	1.0^	3.5^	1.0	16.2^	1.60^
592901	707	911	1.8	67	1.0	1.0	2.0*	3.0	1.5	18.5	2.75
592905	701	902^	1.0^	39*	1.0^	3.0^	5.0^	2.0^	2.0	14.2^	-
592907A	624	830	1.5^	70*	3.0^	1.0^	2.0^	3.0^	1.0	11.6^	-
592907B	627	830	2.5^	67*	3.0^	1.0^	1.0^	4.0^	2.0	14.2^	-
592907C	626	902^	2.0^	85*	3.0^	1.0^	2.0^	2.0^	2.0	14.9^	2.43^
592907D	625	829^	2.5^	76*	3.0^	1.0^	1.0^	3.0^	1.0	18.2^	2.51^
592908	630	909	2.5	72	3.5	1.0	3.0	2.8	--	8.9	1.23*
592910	630	909	1.0	43	1.0	1.0	1.0	3.8	1.5	15.8	1.90^
592911A	629	904	2.5^	79*	3.0^	1.0^	1.0^	3.5^	1.0	13.0^	-
592911B	701	905^	3.0^	90	4.0^	1.0^	1.0^	3.0^	3.0	10.3^	1.57^
592912A	624	830	1.5^	74*	2.0^	1.0^	1.0^	4.0^	2.0	16.9^	-
592912B	623	821^	2.0^	66*	3.0^	1.0^	1.0^	2.5^	1.0	15.8^	2.19^
592913	701	909	1.0	27	1.0	1.0	1.0	3.5	1.5	16.5	-
592921	627	827^	1.0^	52*	1.0^	1.0^	3.0^	2.0^	1.0	17.2^	2.79^
592926	623	823	1.5^	67*	3.0^	1.0^	1.0^	2.5^	1.0	16.5^	2.13^
592927	705*	904	1.8	70	1.0	3.0	5.0	2.3	1.0	13.5	1.99
592928	721	917	2.8	59*	1.0	1.0	1.0	2.8	3.0*	16.3*	1.22*
592929	722	1001	2.5	63	1.0	1.5	3.0*	2.8	1.0	20.0	1.65*
592930	714	908	2.3	58*	1.5	2.5	4.5	2.3	1.0	12.9	0.90
592932	715	917	2.0	58*	1.0	1.0	1.5	3.3	1.0	17.4	1.79
592933	703	904	3.5	63	2.0	1.0	2.0	2.5	1.0	15.1	1.93
592934	715	909	2.0	69	1.5	3.5	5.0	2.5	2.0	11.1	1.81
592935	727	1001	3.0	79	1.0	2.0	3.5	2.3	2.0	14.8	1.94
592936	703	909	2.3	79	2.0	1.0	2.0	2.3	2.0	14.2	2.93
592937	726	1012	2.8	110	3.0	1.0	1.0	2.3	1.0	12.2	2.29
592938	703	903	2.8	75	3.0	1.0	1.0	3.3	1.5	15.1	2.55
592939	713	1006	2.8	114	3.0	1.0	1.0	2.3	3.0	16.4	1.80^
592940	713	1009	2.8	112	3.0	1.0	1.0	2.5	3.0	16.7	2.87*
592941	703	918	1.5	86*	3.0	1.0	1.0	3.0	1.5	18.4	2.59
592942	711	921	2.5	74	1.0	1.0	1.0	1.8	1.0	11.7	2.76*
592944	713	917	2.5	70	1.0	1.0	1.0	2.8	1.5	15.3	2.96
592945	715	917	1.5	72	3.0	2.0*	4.0	2.5	2.0	15.0	2.43
592946	711	929	2.3	87	3.0	1.0	1.0	3.3	1.0	17.7	2.73*
592947	715	1005	1.8	68	1.0	1.0	1.5	2.8	2.5	15.9	3.60*
592948	719	1003	2.0	96*	3.0	1.0	1.0	3.3	4.0	21.1	2.20*
592949	722	1003	3.3*	83	1.0	2.0	4.0*	2.8	1.0	19.8	2.59*
592950	721	925	2.3	57	1.0	1.0	1.0	2.8	1.0	17.3	1.97*
592951	721	1009	1.5	50	1.0	1.0	1.5	2.5	1.0	17.7	0.95
592952	717	925	2.3	71	1.0	1.0	1.5	2.8	2.0	17.1	2.43
592953	727	930	2.5	57*	1.0	1.0	1.5	3.0	2.0	17.6	1.45*
592954	710	901	1.5	54	1.0	1.0	1.0	1.5	1.0	14.1	1.76
592956A	702	917	2.0	86	3.0	1.0	3.0	3.3	--	16.8	2.71
592956B	711	916	1.0	65	1.0	2.5	4.5	2.5	--	16.4	1.99
592956C	702	919	1.8	92	3.0	1.0	1.5	3.3	--	16.4	2.40
592957	623	903	2.0^	63	1.0^	1.0^	1.0^	2.5^	2.0	13.7^	-

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
588052A	IV	42.7	16.9	9.7	4.4	25.5	53.5	6.9
592899	I	41.8 [^]	21.2 [^]	11.0 [^]	3.9 [^]	32.8 [^]	46.9 [^]	5.4 [^]
592901	II	41.3	19.2	9.6	3.9	28.6	51.7	6.3
592905	I	41.7 [^]	18.6 [^]	12.2 [^]	4.7 [^]	25.8 [^]	51.3 [^]	6.0 [^]
592907A	I	35.5 [^]	23.2 [^]	12.8 [^]	3.7 [^]	23.3 [^]	53.5 [^]	6.7 [^]
592907B	I	41.2 [^]	19.6 [^]	12.2 [^]	4.3 [^]	22.9 [^]	53.5 [^]	7.2 [^]
592907C	I	39.7 [^]	19.8 [^]	11.1 [^]	3.7 [^]	21.2 [^]	56.8 [^]	7.2 [^]
592907D	I	39.8 [^]	19.9 [^]	11.2 [^]	4.3 [^]	25.0 [^]	53.1 [^]	6.4 [^]
592908	II	40.2 ^w	18.1 ^w	12.5	3.5	26.5	50.6	7.0
592910	II	40.8	20.2	11.9	3.6	23.4	54.5	6.5
592911A	I	44.3 [^]	19.1 [^]	11.7 [^]	5.0 [^]	22.9 [^]	53.9 [^]	6.6 [^]
592911B	I	39.5 [^]	19.0 [^]	11.2 [^]	3.6 [^]	23.1 [^]	54.9 [^]	7.2 [^]
592912A	I	43.1 [^]	18.1 [^]	12.4 [^]	4.5 [^]	22.2 [^]	54.4 [^]	6.5 [^]
592912B	I	39.6 [^]	21.4 [^]	11.6 [^]	4.5 [^]	26.6 [^]	51.6 [^]	5.8 [^]
592913	II	40.8	20.4	12.0	3.7	23.6	54.8	5.9
592921	I	39.4 [^]	21.0 [^]	10.6 [^]	5.0 [^]	27.9 [^]	50.8 [^]	5.7 [^]
592926	I	45.3 [^]	20.2 [^]	11.6 [^]	3.8 [^]	29.0 [^]	50.6 [^]	5.0 [^]
592927	II	44.9 ^w	17.1 ^w	12.1	3.1	25.6	51.7	7.5
592928	II	43.4 ^w	18.7 ^w	11.9	4.5	29.8	48.2	5.5
592929	IV	45.1	16.4	10.8	4.1	27.7	50.6	6.8
592930	II	41.4	19.7	11.6	3.3	27.6	51.0	6.6
592932	II	42.1	17.4	11.9	3.4	22.1	54.7	7.9
592933	II	41.3	19.0	12.0	4.0	29.7	48.7	5.6
592934	II	42.4	17.2	12.5	3.9	25.1	50.5	8.0
592935	III	41.7	17.9	10.2	5.4	27.9	49.9	6.5
592936	II	42.8	18.6	11.3	3.4	33.2	46.6	5.5
592937	IV	42.5	16.9	10.6	3.9	19.4	58.4	7.7
592938	II	41.5	18.7	12.1	3.3	28.3	50.2	6.2
592939	IV	42.7	18.0	10.7	4.8	22.6	55.4	6.4
592940	IV	42.7	17.6	10.9	4.4	20.5	57.2	7.1
592941	II	43.2	18.4	11.6	4.4	33.1	45.2	5.8
592942	III	44.2	16.5	10.1	4.0	24.5	53.3	8.0
592944	II	40.3	20.8	11.0	3.9	27.9	50.5	6.7
592945	III	42.4	17.7	9.8	4.6	27.0	51.2	7.4
592946	IV	44.1	18.7	10.2	6.2	23.6	53.6	6.5
592947	IV	39.0	18.1	10.3	4.8	23.7	54.7	6.5
592948	IV	44.9 ^w	18.6 ^w	12.9	4.2	27.0	48.7	7.2
592949	IV	45.0	17.4	9.2	4.5	26.0	53.8	6.6
592950	III	40.2	18.6	10.0	3.3	23.9	56.1	6.8
592951	IV	44.3	17.2	8.6	3.7	24.4	56.5	6.9
592952	III	42.0	18.0	9.9	3.4	28.7	51.7	6.2
592953	IV	41.2	15.8	10.1	4.2	27.8	51.6	6.3
592954	II	40.3	19.1	12.4	4.0	25.0	51.6	7.0
592956A	II	43.8 ^w	17.5 ^w	12.1	4.6	28.0	48.8	6.6
592956B	II	44.1 ^w	18.7 ^w	11.9	4.1	31.1	46.7	6.2
592956C	II	47.6 ^w	15.3 ^w	12.2	4.0	26.4	50.8	6.6
592957	I	38.7 [^]	21.1 [^]	12.0 [^]	4.1 [^]	24.9 [^]	52.7 [^]	6.2 [^]

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
592958	Chang nong No. 6	Jilin	China	China	1994	I
592959	Chang nong No. 7	Jilin	China	China	1994	II
592960	Dong nong 38	Heilongjiang	China	China	1994	I
592967	Hei nong 36	Heilongjiang	China	China	1994	I
592968	Jilin 25	Jilin	China	China	1994	II
592969	Jilin 28	Jilin	China	China	1994	II
592970	Jilin 29	Jilin	China	China	1994	I
592971	Jin dou 35	Liaoning	China	China	1994	III
592972	Kaiyu No. 9	Liaoning	China	China	1994	II
592973	Kaiyu No. 10	Liaoning	China	China	1994	II
592974	Liao dou No. 10	Liaoning	China	China	1994	III
592977	Sui nong No. 9	Heilongjiang	China	China	1994	I
592978	Tie feng 24	Liaoning	China	China	1994	III
592979	Tie feng 25	Liaoning	China	China	1994	II
592980	Tie feng 26	Liaoning	China	China	1994	IV
592981	Tie feng 27	Liaoning	China	China	1994	III
593942	He feng 9388	Heilongjiang	China	China	1994	0
593943	He feng 88851	Heilongjiang	China	China	1994	I
593949A	Ken 83-2922	Heilongjiang	China	China	1995	I
593949B	(Ken 83-2922)	Heilongjiang	China	China	1995	II
593953	Sui nong No. 10	Heilongjiang	China	China	1995	I
593956A	NEAC 190	Heilongjiang	China	China	1995	I
593956B	(NEAC 190)	Heilongjiang	China	China	1995	II
593956C	(NEAC 190)	Heilongjiang	China	China	1995	II
593956D	(NEAC 190)	Heilongjiang	China	China	1995	II
593956E	(NEAC 190)	Heilongjiang	China	China	1995	I
593957	NEAC 593	Heilongjiang	China	China	1995	I
593958	Jilin 30	Jilin	China	China	1995	II
593959	Jilin 31	Jilin	China	China	1995	II
593960	Jilin 32	Jilin	China	China	1995	II
593961	GD 369	Jilin	China	China	1995	I
593962	GD 1596	Jilin	China	China	1995	II
593963	GD 2828	Jilin	China	China	1995	II
593964	GD 3009	Jilin	China	China	1995	II
593966	GD 3106	Jilin	China	China	1995	II
593967	GD 3184	Jilin	China	China	1995	I
593968	GD 3245	Jilin	China	China	1995	I
593969	GD 3325	Jilin	China	China	1995	I
593970	Oosodeno mai	Hokkaido	Japan	Japan	1995	I
593971	Kariyutaka	Hokkaido	Japan	Japan	1995	I
593972	Suzumaru	Hokkaido	Japan	Japan	1995	I
593973	Toyokomachi	Hokkaido	Japan	Japan	1995	I
593975	Tsurumusume	Hokkaido	Japan	Japan	1995	I
593997		Kyongsang Nam	South Korea	South Korea	1995	0
594001		Kyongsang Puk	South Korea	South Korea	1995	V
594010	Jekpaunmok daedu	unknown	South Korea	South Korea	1995	IV
594011	Josaeng heukchensuk	unknown	South Korea	South Korea	1995	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
592958	I	D	W	G	E	N	Br	I	Y	Y		2N
592959	II	D	W	G	E	Ssp	Dbr	I	Y	Y	Na	2N
592960	I	N	P	G	E	N	Br	I	Y	Y		2N
592967	I	N	W	G	E	N	Br	D	Y	Bf	Na	2N
592968	II	D	P	G	E	Ssp	Br	I	Y	Y		3N
592969	II	N	W	G	E	N	Br	I	Y	Y	Na, Sdef	2N
592970	I	S	W	G	E	N	Br	I	Y	Y	Na	2N
592971	III	D	W	G	E	N	Br	I	Y	Y		3N
592972	II	D	P	G	E	N	Br	I	Y	Y		3N
592973	II	D	P	G	E	N	Br	I	Y	Y		2N
592974	III	N	P	G	E	N	Tn	I	Y	Y		3N
592977	I	S	P	G	E	N	Tn	I	Y	Y	Na	2N
592978	III	D	W	G	E	N	Br	I	Y	Y		3N
592979	II	D	P	G	E	N	Br	I	Y	Y	Na	3N
592980	IV	D	W	G	E	N	Br	I	Y	Y		2N
592981	III	D	P	T	E	Ssp	Br	I	Y	Tn		3N
593942	0	D	P	G	E	N	Br	I	Y	Y	Na	2N
593943	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
593949A	I	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
593949B	II	D	P	G	Sa	Ssp	Br	D	Y	Y		2N
593953	I	N	W	G	E	Ssp	Tn	D	Y	Y	Na	2N
593956A	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
593956B	II	D	P	G	E	N	Br	I	Y	Y	Na	3N
593956C	II	D	W	G	E	N	Br	I	Y	Bf		4N
593956D	II	D	W	G	E	N	Br	I	Y	Bf		4N
593956E	I	D	P	G	E	N	Br	I	Y	Y		4N
593957	I	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N
593958	II	S	W	G	E	N	Br	D	Y	Y	Na	3N
593959	II	N	P	G	E	N	Br	I	Y	Bf		3N
593960	II	D	W	G	E	N	Br	I	Y	Y		3N
593961	I	N	P	T	E	N	Br	I	Y	Bl		3N
593962	II	D	W	G	E	N	Br	I	Y	Y		3N
593963	II	N	P	G	E	N	Br	I	Y	Bf		3N
593964	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	2N
593966	II	D	W	G	E	Ssp	Br	I	Y	Y		2N
593967	I	N	W	G	E	N	Br	I	Y	Bf		2N
593968	I	D	W	G	E	Ssp	Br	I	Y	Y		2N
593969	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	2N
593970	I	D	W	G	Sa	Ssp	Br	D	Gn	Gn		2N
593971	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
593972	I	D	P	G	E	Ssp	Br	I	Y	Y	Na	1N
593973	I	D	P	G	E	Ssp	Br	I	Y	Y		2N
593975	I	D	W	G	E	N	Br	I	Y	Y		2N
593997	0	D	P	T	E	Sp	Br	I	Bl	Bl		1N
594001	V	D	P	T	E	N	Bl	I	Gn	Gn	Gnc, Vhil	2N
594010	IV	D	P	T	E	N	Tn	I	Rbr	Rbr		2N
594011	IV	D	W	T	Sa	N	Bl	Lb	Bl	Bl	Gnc	2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
592958	629	830 [^]	1.5 [^]	73	1.0 [^]	1.0 [^]	1.0 [^]	3.5 [^]	1.0	14.0 [^]	2.16 [^]
592959	627*	905	1.5	71	1.5	1.0	1.0	2.5	1.0	15.8	2.39
592960	627	822 [^]	1.5 [^]	60*	3.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	13.9 [^]	2.42 [^]
592967	622	826	1.5 [^]	61	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	15.7 [^]	1.76 [^]
592968	627*	905	1.8	61	1.0	1.0	2.5	3.0	1.0	17.6	2.44
592969	701	906	2.3	86	3.0	1.0	2.5	3.5	1.5	12.7	2.18 [^]
592970	625	831 [^]	1.5 [^]	69*	2.0 [^]	1.0 [^]	2.0 [^]	1.5 [^]	1.0	11.4 [^]	2.18 [^]
592971	713	922	2.0	63*	1.0	1.0	1.0	2.8	1.5	17.5	3.31
592972	713	912	2.0	75*	1.0	1.0	1.5	3.8*	1.0	16.9	2.82
592973	709*	915	1.8	62	1.0	1.0	1.0	2.8	1.0	16.6	2.88
592974	706*	918	2.0	85	3.0	1.0	1.5	3.3	1.5	17.9	3.24
592977	625	826	1.0 [^]	52*	3.0 [^]	1.0 [^]	1.0 [^]	2.5 [^]	1.0	11.3 [^]	-
592978	718	927	1.3	72	1.0	1.0	2.0*	2.8	2.0	18.9	2.78
592979	709*	914	1.8	64	1.0	1.0	1.0	2.5	1.0	18.3	3.37
592980	719	1002	1.8	80	1.0	1.0	1.0	2.3	2.0	17.8	3.64*
592981	715	929	1.5	72	1.0	1.0	1.5	3.0	1.5	19.6	2.81
593942	621	819	1.0 [^]	43	1.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	14.3 [^]	1.86 [^]
593943	621	819 [^]	1.5 [^]	51	1.0 [^]	1.0 [^]	2.0 [^]	2.5 [^]	1.0	14.7 [^]	1.99 [^]
593949A	625	826 [^]	1.0 [^]	33	1.0 [^]	2.0 [^]	4.0 [^]	2.0 [^]	1.0	24.2 [^]	1.32 [^]
593949B	701	908	1.0	43	1.0	2.5	5.0	2.8	1.5	26.3	1.39
593953	621	825	1.0 [^]	44*	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	15.0 [^]	2.60 [^]
593956A	621	819 [^]	1.5 [^]	55*	2.0 [^]	1.0 [^]	1.0 [^]	3.0 [^]	1.0	14.3 [^]	2.35 [^]
593956B	629	902	1.5	61	1.0	1.0	1.5	3.0	1.0	14.6	1.74 [^]
593956C	627	901	1.5	69*	1.0	1.0	1.0	4.0	1.0	13.8	1.93
593956D	628	901	1.5	70	1.5	1.0	1.0	3.8	1.0	14.5	2.02
593956E	627*	831	2.5	74	1.0	1.0	1.5	3.5	1.0	16.5	2.63
593957	621	820	1.5 [^]	38	2.0 [^]	1.0 [^]	2.0 [^]	4.5 [^]	1.0	14.8 [^]	1.68 [^]
593958	629*	907	1.0	70	2.0	1.0	3.0	2.5	1.0	13.0	2.65
593959	629*	905	2.5	82	2.5	1.0	1.0	3.0	1.0	17.5	3.07
593960	627	903	2.3	66	1.5	1.0	1.0	3.0	1.5	17.6	2.43
593961	627	827	3.5 [^]	93*	3.0 [^]	1.0 [^]	2.0 [^]	4.0 [^]	1.0	13.1 [^]	2.24 [^]
593962	628	901	2.0	72*	1.5	1.0	1.5	3.8	2.0	15.7	2.33
593963	705	919	3.5	102	4.0	1.0	1.0	3.3	2.5	13.0	2.31
593964	629	905	2.5	78	3.0	1.0	2.0	3.0	1.5	15.7	2.48
593966	709*	910	2.0	70*	1.0	1.0	1.0	2.8	1.5	14.3	2.32
593967	627	826 [^]	2.5 [^]	70*	3.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	14.9 [^]	2.58 [^]
593968	623	826	1.0 [^]	39	1.0 [^]	1.0 [^]	1.0 [^]	2.0 [^]	1.0	16.2 [^]	2.31 [^]
593969	621	824	2.5 [^]	43*	3.0 [^]	1.0 [^]	5.0 [^]	3.5 [^]	1.0	16.7 [^]	-
593970	625	901	1.0 [^]	27	1.0 [^]	3.0 [^]	5.0 [^]	2.0 [^]	1.0	19.1 [^]	0.99 [^]
593971	625	826 [^]	1.0 [^]	37	1.0 [^]	1.0 [^]	2.0 [^]	2.5 [^]	1.0	18.7 [^]	1.49 [^]
593972	630	826 [^]	1.0 [^]	38*	1.0 [^]	1.0 [^]	2.0 [^]	2.0 [^]	1.0	7.7 [^]	2.02 [^]
593973	625	821 [^]	1.0 [^]	38	1.0 [^]	2.0 [^]	5.0 [^]	2.5 [^]	1.0	20.9 [^]	1.60 [^]
593975	625	825	1.0 [^]	28	1.0 [^]	1.0 [^]	4.0 [^]	1.5 [^]	1.0	23.9 [^]	-
593997	624	819	1.0 [^]	33	1.0 [^]	2.0 [^]	3.0 [^]	1.5 [^]	--	17.6 [^]	1.44 [^]
594001	813	1027	3.0	95	1.0	1.0	1.0	2.0	4.5	7.9	1.71
594010	725	1011	2.0	65	1.0	1.0	1.0	2.0	--	8.8	1.65 [^]
594011	721	1005	1.8	56	1.0	1.0	1.5	2.5	--	8.0	0.96 [^]

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
592958	I	36.0 [^]	22.4 [^]	11.2 [^]	4.8 [^]	34.1 [^]	45.1 [^]	4.9 [^]
592959	II	40.1	20.2	12.2	3.8	28.9	49.3	5.8
592960	I	38.5 [^]	22.2 [^]	13.4 [^]	3.8 [^]	30.4 [^]	47.2 [^]	5.2 [^]
592967	I	37.7 [^]	22.0 [^]	11.4 [^]	4.5 [^]	26.5 [^]	51.8 [^]	5.8 [^]
592968	II	40.3	20.5	12.0	4.3	28.0	49.6	6.1
592969	II	38.8	19.6	12.1	4.6	23.2	52.9	7.2
592970	I	37.6 [^]	20.9 [^]	11.4 [^]	5.2 [^]	23.6 [^]	53.6 [^]	6.2 [^]
592971	III	39.9	20.2	9.8	3.6	22.3	56.5	7.7
592972	II	39.4	20.1	11.5	3.8	25.6	52.8	6.2
592973	II	40.8	20.2	11.8	4.2	25.0	52.3	6.7
592974	III	42.5	18.7	9.6	4.4	37.0	42.9	6.2
592977	I	37.7 [^]	20.6 [^]	11.4 [^]	4.3 [^]	21.0 [^]	55.0 [^]	8.3 [^]
592978	III	42.0	18.1	10.8	4.2	24.0	53.2	7.8
592979	II	38.8	20.4	11.9	3.4	24.1	54.3	6.2
592980	IV	41.3	18.3	10.2	4.1	26.9	51.9	6.9
592981	III	42.2	18.2	9.4	3.9	28.2	51.8	6.7
593942	0	39.9 [^]	20.6 [^]	12.2 [^]	3.6 [^]	27.0 [^]	51.5 [^]	5.6 [^]
593943	I	40.4 [^]	20.3 [^]	11.6 [^]	3.9 [^]	32.4 [^]	47.3 [^]	4.8 [^]
593949A	I	41.2 [^]	19.3 [^]	20.4 [^]	6.7 [^]	34.6 [^]	35.7 [^]	2.7 [^]
593949B	II	40.8	18.5	11.0	3.4	29.0	50.0	6.6
593953	I	38.4 [^]	20.2 [^]	14.6 [^]	3.9 [^]	21.1 [^]	54.7 [^]	5.6 [^]
593956A	I	38.0 [^]	21.7 [^]	11.5 [^]	4.3 [^]	27.9 [^]	50.4 [^]	5.8 [^]
593956B	II	42.1	18.7	11.6	4.3	26.9	50.2	7.0
593956C	II	43.4	20.0	11.8	4.1	31.2	47.1	5.8
593956D	II	44.5	20.7	11.8	4.6	32.8	44.7	6.0
593956E	I	40.7	19.2	11.6	4.4	31.0	46.6	6.4
593957	I	41.8 [^]	18.8 [^]	12.0 [^]	3.8 [^]	29.3 [^]	49.0 [^]	5.8 [^]
593958	II	41.3	19.9	12.0	4.2	27.1	50.7	6.0
593959	II	40.2	20.1	12.2	4.7	29.7	47.1	6.3
593960	II	37.8	20.0	12.7	4.4	25.2	51.5	6.2
593961	I	43.2 [^]	20.1 [^]	11.8 [^]	4.3 [^]	32.9 [^]	45.6 [^]	5.4 [^]
593962	II	43.7	18.5	11.2	3.5	31.5	48.4	5.5
593963	II	40.5	18.3	11.8	4.3	25.4	52.2	6.3
593964	II	40.7	18.3	12.4	4.2	22.8	53.1	7.5
593966	II	42.1	18.6	12.8	4.2	21.3	53.8	7.8
593967	I	39.9 [^]	20.9 [^]	12.2 [^]	4.8 [^]	29.5 [^]	48.5 [^]	5.1 [^]
593968	I	45.1 [^]	18.3 [^]	12.0 [^]	3.8 [^]	23.3 [^]	53.5 [^]	7.4 [^]
593969	I	41.8 [^]	20.5 [^]	13.0 [^]	4.9 [^]	25.2 [^]	50.8 [^]	6.1 [^]
593970	I	47.6 ^{w^}	20.7 ^{w^}	13.0 [^]	3.5 [^]	24.9 [^]	52.9 [^]	5.7 [^]
593971	I	39.4 [^]	21.5 [^]	12.6 [^]	4.1 [^]	28.0 [^]	49.4 [^]	5.8 [^]
593972	I	39.0 [^]	19.3 [^]	12.4 [^]	3.9 [^]	25.2 [^]	52.2 [^]	6.2 [^]
593973	I	42.3 [^]	20.0 [^]	11.8 [^]	2.5 [^]	27.8 [^]	52.4 [^]	5.5 [^]
593975	I	41.6 [^]	20.5 [^]	13.4 [^]	4.1 [^]	28.1 [^]	49.0 [^]	5.5 [^]
593997	0	48.1 ^{w^}	19.8 ^{w^}	12.7 [^]	3.1 [^]	33.7 [^]	44.6 [^]	5.9 [^]
594001	V	47.0 ^w	14.8 ^w	12.2	3.5	24.3	51.7	8.2
594010	IV	47.8 ^w	14.6 ^w	13.2	3.9	21.7	53.6	7.5
594011	IV	42.9 ^w	17.5 ^w	11.3	3.4	27.6	51.6	6.2

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594016	Keun daedu	unknown	South Korea	South Korea	1995	I
594018	Jangdancha	unknown	South Korea	South Korea	1995	IV
594019	Haman daedu	unknown	South Korea	South Korea	1995	IV
594020	Samnamkong	Kyongsang Nam	South Korea	South Korea	1995	IV
594022	Duyoukong	Kyongsang Nam	South Korea	South Korea	1995	IV
594146	Ani	Akita	Japan	Japan	1996	IV
594148	Aso masari	Kumamoto	Japan	Japan	1996	II
594153	Chizuka Ibaraki 1	Ibaraki	Japan	Japan	1996	III
594156	Chuusei hadaka	Hokkaido	Japan	Japan	1996	III
594158	Chuusei hikarikuro	Hokkaido	Japan	Japan	1996	II
594160	Dewa musume	Akita	Japan	Japan	1996	IV
594164	Fujimijiro	unknown	Japan	Japan	1996	IV
594166	Fukunagaha	unknown	Japan	Japan	1996	III
594167	Fukushirome (Touhoku 41)	Akita	Japan	Japan	1996	III
594170A	Geden shirazu	Akita	Japan	Japan	1996	I
594170B	(Geden shirazu)	Akita	Japan	Japan	1996	I
594178	Himeyutaka	Hokkaido	Japan	Japan	1996	I
594188	Iwate yagi 1	Iwate	Japan	Japan	1996	IV
594196	Kinshu	unknown	Japan	Japan	1996	I
594198	Kitakomachi	Hokkaido	Japan	Japan	1996	I
594200	Kitami shiro	Hokkaido	Japan	Japan	1996	I
594208	Kosuzu	Akita	Japan	Japan	1996	IV
594215	Matsuura	Saga	Japan	Japan	1996	II
594227A	Nanbu shirome	Akita	Japan	Japan	1996	III
594227B	(Nanbu shirome)	Akita	Japan	Japan	1996	III
594233A	Nourin 1	Ibaraki	Japan	Japan	1996	IV
594233B	(Nourin 1)	Ibaraki	Japan	Japan	1996	IV
594235	Nourin 2	unknown	Japan	Japan	1996	IV
594238	Nourin 4	Akita	Japan	Japan	1996	IV
594247	Oodate 1 (Take 16)	Akita	Japan	Japan	1996	II
594250	Ootsuru	unknown	Japan	Japan	1996	IV
594252A	Orihime	Kumamoto	Japan	Japan	1996	II
594252B	(Orihime)	Kumamoto	Japan	Japan	1996	II
594254	Ouhoushu	unknown	Japan	Japan	1996	II
594255	Ouu 13	Akita	Japan	Japan	1996	IV
594268A	Shiro higo	Miyagi	Japan	Japan	1996	IV
594268B	(Shiro higo)	Miyagi	Japan	Japan	1996	IV
594276	Shirosaya 1	Kumamoto	Japan	Japan	1996	I
594280A	Shoufuku	Nagano	Japan	Japan	1996	III
594280B	(Shoufuku)	Nagano	Japan	Japan	1996	IV
594280C	(Shoufuku)	Nagano	Japan	Japan	1996	IV
594280D	(Shoufuku)	Nagano	Japan	Japan	1996	IV
594280E	(Shoufuku)	Nagano	Japan	Japan	1996	IV
594282	Suzuhime	Hokkaido	Japan	Japan	1996	III
594283	Suzukari	Akita	Japan	Japan	1996	IV
594286	Tachikogane	Akita	Japan	Japan	1996	IV
594288	Tachi suzunari	Ibaraki	Japan	Japan	1996	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594016	I	S	W	T	A	N	Br	D	Y	Br		2N
594018	IV	N	P	T	E	Ssp	Br	D	Y	Br		2N
594019	IV	D	P	G	E	Ssp	Br	I	Y	Y	Vhil	3N
594020	IV	D	W	G	E	N	Br	I	Y	Bf	Sdef	2N
594022	IV	D	W	T	E	N	Br	D	Y	Br		2N
594146	IV	D	P	T	A	Ssp	Br	I	Lgn	Br		2N
594148	II	D	W	T	E	Ssp	Br	I	Y	Br		2N
594153	III	D	W	T	E	Ssp	Br	I	Gn	Gn	Gnc, Na	3N
594156	III	D	P	-	-	G	Bl	I	Y	Tn	Vhil	3N
594158	II	D	W	T	E	Ssp	Br	S	Bl	Bl		2F
594160	IV	N	P	G	E	N	Br	D	Y	Y	Vhil	3N
594164	IV	D	P	G	A	Ssp	Tn	I	Y	Y	Vhil	2N
594166	III	D	W	G	E	Ssp	Br	D	Y	Y	Na	3N
594167	III	D	P	G	E	Ssp	Br	I	Y	Y		3N
594170A	I	D	P	G	E	Ssp	Br	I	Y	Y	Na	2N
594170B	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
594178	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
594188	IV	D	P	T	A	Ssp	Br	I	Y	Br		2N
594196	I	D	W	T	E	Ssp	Br	D	Gn	Bl	Vhil	2N
594198	I	D	Dp	G	E	Ssp	Br	D	Y	Y		2N
594200	I	D	P	T	E	Ssp	Br	D	Y	Br		2N
594208	IV	D	P	G	E	N	Tn	D	Y	Y		2N
594215	II	D	W	G	E	N	Tn	D	Y	Bf		3N
594227A	III	D	P	G	A	Ssp	Br	D	Y	Y	Lft5, Na	2N
594227B	III	D	P	G	A	Ssp	Br	Lb	Bf	Bf	Lft5, Na	2N
594233A	IV	D	W	T	A	Ssp	Tn	I	Y	Br		2N
594233B	IV	D	W	T	A	Ssp	Br	I	Y	Br		3N
594235	IV	D	W	T	A	Ssp	Br	I	Lgn	Bl		3N
594238	IV	D	W	G	A	N	Br	I	Y	Bf		2N
594247	II	D	P	T	A	Ssp	Br	I	Y	Br		3N
594250	IV	D	P	G	Sa	N	Br	I	Y	Y		3N
594252A	II	D	B	G	E	Ssp	Br	I	Y	Bf		2N
594252B	II	D	P	G	E	Ssp	Br	I	Y	Bf		2N
594254	II	N	W	G	E	N	Br	I	Y	Y		2N
594255	IV	D	P	T	A	Ssp	Br	I	Y	Br		2N
594268A	IV	D	W	G	A	N	Tn	I	Y	Y		2N
594268B	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
594276	I	D	P	G	A	N	Tn	D	Y	Bf		2N
594280A	III	D	W	G	E	Ssp	Br	I	Y	Y		2N
594280B	IV	D	W	G	Sa	Ssp	Br	I	Y	Y		2N
594280C	IV	D	W	G	E	Ssp	Br	I	Gn	Gn	Na	2N
594280D	IV	D	W	Lt	Sa	Ssp	Br	I	Gn	Tn	Na, Vhil	1N
594280E	IV	D	W	G	E	Ssp	Br	I	Gn	Gn		1N
594282	III	D	Dp	G	Sa	Ssp	Br	I	Y	Y		3N
594283	IV	D	Dp	G	A	N	Br	D	Y	Y		3N
594286	IV	D	Dp	G	A	Ssp	Br	D	Y	Y		2N
594288	IV	D	W	T	A	Ssp	Br	I	Y	Br		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				term.	early	late	Quality		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg sd ⁻¹)	(Mg ha ⁻¹)
594016	711	827 [^]	2.5 [^]	58	2.0 [^]	1.0 [^]	4.0 [^]	1.5 [^]	1.0	8.6 [^]	1.89 [^]
594018	721	1013	3.8	99	3.0	1.0	1.0	2.0	1.5	22.1	2.74*
594019	725	1008	1.8	68	1.0	1.0	2.0	2.8	3.0	21.4	2.30*
594020	722	1007	1.8	79	1.0	1.0	1.0	2.8	2.0	17.3	3.31*
594022	715	1007	1.5	59	1.0	1.0	1.0	2.0	2.0	14.6	2.81
594146	730	1010	1.8	67	1.0	2.0*	2.5	2.0	2.0	16.7	1.88*
594148	720	917	1.3	58*	1.0	4.5	5.0	2.5	2.5	13.2	0.87
594153	718	923	2.0	70	1.0	1.0	1.5	2.8	4.0*	13.8	2.37
594156	715	921	1.0	28	1.0	2.5	4.0*	2.8	3.0	13.4*	0.37
594158	702	906	1.0	44	1.0	3.0	5.0	2.8	--	24.9	1.19
594160	721	1003	2.0	105*	4.0	1.0	2.0	3.3	3.5	18.7	2.59*
594164	730	1017	2.3	95	1.0	1.0	2.5	2.5	2.5	20.5	1.45 [^]
594166	707	927	2.0	69	1.0	2.0	3.5	2.5	2.5	24.8	2.11
594167	716	921	1.3	50	1.0	3.5	4.0*	2.5	2.0	19.4	1.75
594170A	628	825 [^]	1.0 [^]	35	1.0 [^]	1.0 [^]	5.0 [^]	1.5 [^]	1.0	9.9 [^]	1.39 [^]
594170B	813*	826 [^]	1.0 [^]	45	1.0 [^]	2.0 [^]	5.0 [^]	1.5 [^]	1.0	8.8 [^]	1.66 [^]
594178	625	821 [^]	1.0 [^]	32	1.0 [^]	1.0 [^]	5.0 [^]	2.0 [^]	1.0	20.6 [^]	0.79 [^]
594188	729	1012	1.8	74	1.0	2.0*	3.5	2.5	1.5	17.1	1.70*
594196	627	823 [^]	1.0 [^]	28	1.0 [^]	1.0 [^]	3.0 [^]	2.0 [^]	1.0	22.6 [^]	1.90 [^]
594198	623	819 [^]	1.0 [^]	39	1.0 [^]	1.0 [^]	5.0 [^]	2.0 [^]	1.0	19.9 [^]	1.92 [^]
594200	630	830 [^]	1.0 [^]	51*	1.0 [^]	2.0 [^]	5.0 [^]	1.5 [^]	2.0	15.2 [^]	1.35 [^]
594208	726	1005	2.5	89	1.0	1.0	2.5	2.0	4.5	8.4	2.72*
594215	715	909	2.3	75	1.0	1.5	5.0	2.5	2.0*	11.2	1.98
594227A	713	927	2.3	68	1.0	2.5	4.0*	2.3	2.0	15.9	2.06
594227B	711*	927	2.5	69	1.0	1.5	4.5	2.0	--	15.8	1.88
594233A	727	1001	2.8	90*	1.0	2.0	4.0*	2.5	2.0	14.5	2.26*
594233B	730	1001	3.3	89*	1.0	1.5	3.5*	2.5	2.0	15.8	2.53*
594235	723	1001	1.8	70	1.0	3.0	4.5	2.5	2.0	20.5	2.07
594238	727	1012	1.5	66	1.0	1.5	2.0	2.8	2.0	18.4	1.91
594247	717	915	2.0	65*	1.0	4.5	5.0	3.0	1.5	15.8	0.55
594250	727	1017	2.0	79	1.0	1.0	2.0	2.3	2.0	26.6*	2.48*
594252A	719	910	2.0	64	1.0	3.0	4.5	2.5	1.0	12.2	1.67
594252B	718	908	2.0	70	1.5	3.5	5.0	2.3	1.0	12.4	1.93
594254	628	904	2.3	79	3.0	1.0	1.0	2.8	2.0	17.8	2.90
594255	724	929	2.0	72	1.0	3.0	4.5	2.8	1.0	19.0	1.35*
594268A	725	1011	2.3	73	1.0	2.0*	3.5	2.5	2.5	21.4	2.09*
594268B	727	1015	2.3	85*	1.0	2.0*	3.0	2.3	1.0	20.6	2.70*
594276	709	826	2.0 [^]	53*	1.0 [^]	1.0 [^]	4.0 [^]	1.5 [^]	1.0	11.3 [^]	1.27 [^]
594280A	715	927	1.5	59	1.0	1.0	1.0	2.3	2.0	19.2	2.35
594280B	727	1009	1.8	76	1.0	1.0	1.0	2.3	2.5	16.0	2.52*
594280C	721	1009	1.8	69	1.0	1.0	1.0	2.3	2.0	16.6	2.69*
594280D	726	1012	1.8	74	1.0	1.0	1.0	2.3	3.0	18.3	2.80*
594280E	723	1013	2.0	79	1.0	1.0	1.0	2.3	2.5	17.5	2.65*
594282	718	921	2.0	57	1.0	1.0	3.5	2.8	2.0	19.5	2.10
594283	718	929	1.5	51	1.0	2.0	4.0*	2.3	1.0	19.0	2.27*
594286	719	930	2.3	66	1.0	2.0	4.0*	2.3	2.5	16.6	2.26*
594288	727	1006	1.8	75	1.0	1.5	3.5	2.3	1.5	16.9	2.11*

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594016	I	43.0 [^]	15.4 [^]	13.2 [^]	3.5 [^]	24.9 [^]	50.4 [^]	8.0 [^]
594018	IV	43.5	17.7	9.8	3.8	24.3	55.0	7.1
594019	IV	46.0	15.8	8.8	3.0	24.9	55.8	7.5
594020	IV	43.2	17.5	9.2	3.9	25.9	53.8	7.2
594022	IV	38.3	18.1	9.7	3.5	17.0	61.3	8.5
594146	IV	42.5 ^w	17.4 ^w	12.2	3.1	22.3	53.6	8.8
594148	II	46.0	16.1	12.8	3.3	26.4	51.2	6.2
594153	III	44.4 ^w	18.6 ^w	12.3	3.8	24.6	51.9	7.5
594156	III	49.0	14.7	10.5	4.0	22.8	55.1	7.6
594158	II	44.7 ^w	18.5 ^w	11.9	3.5	35.7	43.4	5.5
594160	IV	43.3 ^w	17.8 ^w	11.4	3.4	24.1	53.5	7.6
594164	IV	41.4	17.0	11.3	3.3	19.3	57.6	8.5
594166	III	42.2	17.3	8.8	3.6	27.2	53.8	6.6
594167	III	42.9	15.8	8.8	3.6	24.3	55.0	8.4
594170A	I	38.4 [^]	20.0 [^]	12.6 [^]	4.4 [^]	23.8 [^]	53.3 [^]	6.0 [^]
594170B	I	37.7 [^]	19.9 [^]	12.4 [^]	3.9 [^]	22.2 [^]	54.8 [^]	6.6 [^]
594178	I	42.1 [^]	21.1 [^]	13.0 [^]	3.0 [^]	27.7 [^]	50.4 [^]	5.8 [^]
594188	IV	41.7	16.6	9.5	3.7	22.8	55.6	8.4
594196	I	46.8 ^{w^}	20.6 ^{w^}	12.4 [^]	3.3 [^]	31.5 [^]	47.0 [^]	5.8 [^]
594198	I	41.8 [^]	21.0 [^]	13.4 [^]	3.5 [^]	23.4 [^]	53.4 [^]	6.4 [^]
594200	I	39.2 [^]	19.1 [^]	12.7 [^]	4.2 [^]	26.4 [^]	51.0 [^]	5.7 [^]
594208	IV	46.1 ^w	15.2 ^w	12.0	2.9	19.5	56.5	9.1
594215	II	44.8	14.0	12.9	3.2	22.3	52.5	9.1
594227A	III	42.3	17.5	10.2	5.0	24.2	52.7	7.9
594227B	III	44.9 ^w	16.7 ^w	12.7	3.4	21.5	53.1	9.3
594233A	IV	43.3	14.9	9.4	3.9	27.1	51.5	8.1
594233B	IV	44.1	13.9	9.5	3.5	21.1	57.2	8.7
594235	IV	47.9 ^w	16.5 ^w	12.7	3.1	24.7	51.9	7.5
594238	IV	40.0	17.6	8.9	3.8	24.4	55.3	7.6
594247	II	43.6	16.6	9.8	3.7	21.1	57.1	8.2
594250	IV	42.8	16.8	8.6	3.3	24.2	56.7	7.2
594252A	II	42.1	16.3	13.1	3.6	23.1	52.0	8.2
594252B	II	46.3	14.3	12.5	3.5	25.7	50.0	8.4
594254	II	41.3	18.3	11.3	3.9	25.1	53.0	6.7
594255	IV	42.7	16.6	9.7	3.7	23.8	55.3	7.4
594268A	IV	41.7	16.4	9.4	3.6	23.7	55.3	8.0
594268B	IV	39.7	16.7	9.3	3.7	23.7	54.9	8.4
594276	I	44.0 [^]	15.2 [^]	13.9 [^]	3.9 [^]	25.0 [^]	50.3 [^]	7.0 [^]
594280A	III	39.7	17.5	9.7	4.1	25.7	53.2	7.2
594280B	IV	39.7	15.7	9.2	4.1	21.2	56.0	9.6
594280C	IV	41.6 ^w	18.1 ^w	12.9	3.1	23.2	52.9	7.8
594280D	IV	43.6 ^w	17.7 ^w	12.6	3.0	19.7	56.1	8.6
594280E	IV	41.4 ^w	18.1 ^w	12.5	3.1	22.4	54.0	8.0
594282	III	42.4	18.4	10.3	4.1	23.1	54.2	8.3
594283	IV	41.2	18.2	9.8	3.1	21.7	56.5	9.0
594286	IV	39.2	18.2	8.9	3.1	22.1	57.5	8.3
594288	IV	42.0	15.9	9.0	3.4	25.8	53.5	8.3

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594289	Tachiyutaka	Akita	Japan	Japan	1996	IV
594295	Tanrei	Nagano	Japan	Japan	1996	IV
594296	Tokachi kuro	Hokkaido	Japan	Japan	1996	I
594297	Tokachi nagaha	Hokkaido	Japan	Japan	1996	II
594298	Tokachi shiro	Hokkaido	Japan	Japan	1996	II
594301	Toyomusume	Hokkaido	Japan	Japan	1996	I
594304A	Tsurukogane	Hokkaido	Japan	Japan	1996	I
594304B	(Tsurukogane)	Hokkaido	Japan	Japan	1996	II
594308	Ugo daizu	Akita	Japan	Japan	1996	IV
594314	Wase suzunari	Akita	Japan	Japan	1996	I
594319	Yuuhime	Hokkaido	Japan	Japan	1996	I
594393	Shui niu pi	Anhui	China	China	1996	IV
594394	1012 Yuan huang	Anhui	China	China	1996	III
594398A	87-32	Anhui	China	China	1996	IV
594398B	(87-32)	Anhui	China	China	1996	IV
594399A	85-23-9	Anhui	China	China	1996	IV
594399C	(85-23-9)	Anhui	China	China	1996	IV
594401A	88-35	Anhui	China	China	1996	III
594401B	(88-35)	Anhui	China	China	1996	III
594401C	(88-35)	Anhui	China	China	1996	III
594401D	(88-35)	Anhui	China	China	1996	III
594401E	(88-35)	Anhui	China	China	1996	IV
594402	87-72-1	Anhui	China	China	1996	III
594403	85-125-1	Anhui	China	China	1996	IV
594404	85-57	Anhui	China	China	1996	III
594405	86-36	Anhui	China	China	1996	III
594406	25-1	Anhui	China	China	1996	IV
594407	32-25	Anhui	China	China	1996	III
594408	He yin yi hao	Anhui	China	China	1996	III
594409A	86-8-39	Anhui	China	China	1996	IV
594409B	(86-8-39)	Anhui	China	China	1996	III
594410	Liu yue zha	Anhui	China	China	1996	IV
594411	Wan dou yuan	Anhui	China	China	1996	IV
594412	Shi dian huang dou	Anhui	China	China	1996	IV
594413	Ba yue bai	Anhui	China	China	1996	IV
594415A	Jiu yue xiao dou	Anhui	China	China	1996	IV
594419	Cha zhuang huang dou	Anhui	China	China	1996	IV
594420	Niu mao huang	Anhui	China	China	1996	IV
594430A	Guang qian qing dou	Anhui	China	China	1996	IV
594430B	(Guang qian qing dou)	Anhui	China	China	1996	IV
594438	Tong jiang huang dou	Sichuan	China	China	1996	II
594439A	Guang han liu yue huang	Sichuan	China	China	1996	IV
594439B	(Guang han liu yue huang)	Sichuan	China	China	1996	IV
594440	Chong qing qi yue huang	Sichuan	China	China	1996	IV
594441	Qiong lai huang mao zi	Sichuan	China	China	1996	IV
594442A	Han yuan hong hua chi dou zi	Sichuan	China	China	1996	IV
594442B	(Han yuan hong hua chi dou zi)	Sichuan	China	China	1996	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594289	IV	D	P	G	E	N	Br	I	Y	Y		2N
594295	IV	D	P	G	A	Ssp	Br	I	Y	Y		2N
594296	I	D	P	T	E	Ssp	Br	I	Bl	Bl		2F
594297	II	D	P	T	E	Ssp	Br	D	Y	Br	Na	2N
594298	II	D	B	T	E	Ssp	Br	I	Y	Tn	Vhil	2N
594301	I	D	P	G	E	Ssp	Br	D	Y	Y		2N
594304A	I	N	W	G	E	Ssp	Br	I	Y	Y	Vhil	2N
594304B	II	N	W	G	E	Ssp	Br	I	Y	Lbf		2N
594308	IV	D	Dp	T	A	Ssp	Br	I	Y	Br		2N
594314	I	D	P	G	A	Ssp	Br	D	Y	Y		2N
594319	I	D	P	G	Sa	Ssp	Br	I	Y	Y		2N
594393	IV	N	W	G	Sa	Ssp	Br	I	Y	Bf		3N
594394	III	N	W	G	A	N	Dbr	I	Y	Bf		3N
594398A	IV	D	W	G	A	N	Tn	I	Y	Y	Vhil	3N
594398B	IV	D	P	G	A	N	Tn	I	Y	Y	Vhil	4N
594399A	IV	D	W	G	A	N	Br	I	Y	Y	Vhil	3N
594399C	IV	D	W	G	E	N	Br	I	Y	Bf	Sdef	2N
594401A	III	D	W	G	Sa	N	Tn	I	Y	Bf	Vhil	3N
594401B	III	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
594401C	III	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
594401D	III	D	P	G	Sa	N	Tn	I	Y	Ib	Vhil	3N
594401E	IV	D	P	G	A	N	Br	I	Y	Ib	Vhil	3N
594402	III	D	P	G	A	Ssp	Br	I	Y	Lbf	Vhil	3N
594403	IV	D	P	G	A	N	Br	I	Y	Bf		3N
594404	III	D	P	G	A	N	Br	I	Y	Bf	Sdef, Vhil	2N
594405	III	D	W	G	A	N	Br	I	Y	Bf	Vhil	3N
594406	IV	D	P	G	E	N	Br	I	Y	Bf	Vhil	3N
594407	III	D	W	G	Sa	Ssp	Tn	I	Y	Bf		3N
594408	III	D	P	G	A	N	Tn	I	Y	Ib	Vhil	3N
594409A	IV	D	W	T	Sa	N	Br	I	Y	Brbl	Vhil	2N
594409B	III	D	W	T	A	N	Br	I	Lgn	Brbl	Vhil	2N
594410	IV	D	P	G	Sa	Ssp	Tn	I	Y	Bf	Vhil	3N
594411	IV	D	P	T	A	N	Tn	I	Y	Br		3N
594412	IV	N	P	G	A	N	Br	I	Y	Lbf		2N
594413	IV	D	W	G	E	Ssp	Br	I	Y	Bf		3N
594415A	IV	D	P	G	A	N	Tn	I	Y	Bf		2N
594419	IV	S	W	G	A	N	Br	I	Y	Bf		3N
594420	IV	D	W	G	A	Ssp	Br	I	Y	Bf		4N
594430A	IV	D	P	T	A	Ssp	Tn	I	Y	Brbl	Vhil	3N
594430B	IV	D	P	T	A	Ssp	Br	I	Lgn	Br		3N
594438	II	D	P	G	A	N	Br	I	Y	Bf	Vhil	2N
594439A	IV	D	W	T	A	N	Tn	I	Y	Bl		3N
594439B	IV	D	W	T	A	N	Br	I	Y	Br		3N
594440	IV	D	W	T	A	N	Br	I	Y	Bl		3N
594441	IV	D	W	T	Sa	Ssp	Br	I	Lgn	Bl		3N
594442A	IV	D	W	G	A	N	Br	I	Y	Bf		2N
594442B	IV	D	W	Lt	Sa	N	Br	I	Y	Br		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging	Height	Stem	Shattering		Seed		Weight	Yield
	date	date				term.	early	late	Quality		
	(mmdd)	(mmdd)	(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg sd ⁻¹)	(Mg ha ⁻¹)
594289	719	1007	1.3	62*	1.0	1.0	2.0	2.0	2.0	19.7	3.00*
594295	725	1008	1.3	67*	1.0	2.0*	3.5	2.0	2.5	19.8	1.78*
594296	629	831	1.0^	33	1.0^	1.0^	5.0^	2.5^	--	18.1^	-
594297	704	904	1.0	51	1.0	3.0	5.0	2.5	1.5	12.9	1.79
594298	715	911	2.3	53	1.0	3.0	5.0	2.3	1.0	13.0	1.70
594301	625	830^	1.0^	38	1.0^	2.0^	4.0^	1.5^	1.0	20.4^	1.86^
594304A	625	903^	1.5^	60*	3.0^	1.0^	1.0^	2.0^	1.0	22.2^	2.63^
594304B	705^	917^	1.0^	66^	3.0^	1.0^	1.0^	3.5^	1.0	21.2^	1.39^
594308	723	929	2.3	70*	1.0	3.0	4.5	2.3	1.0	16.8*	1.71*
594314	629	827^	1.0^	31	1.0^	1.0^	2.0^	1.5^	1.0	14.2^	1.29^
594319	628	825^	1.0^	29	1.0^	1.0^	4.0^	2.0^	1.0	25.5^	1.19^
594393	728	1004	2.5	71	3.5	1.0	3.0	2.5	1.5	13.6	2.15*
594394	715	919	3.0	104	4.0	1.0	2.0*	2.8	1.0	18.0	2.61*
594398A	725	1013	1.8	73*	1.0	1.0	1.0	2.3	1.0	16.6	2.14*
594398B	722	1003	1.8	69	1.0	1.0	2.0*	2.8	1.0	18.0	2.33*
594399A	721	1006	2.3	53	1.0	1.5	3.0*	2.8	1.0	17.3	1.84*
594399C	724	1013	2.5	63	1.0	1.0	1.0	2.8	1.0	16.5	2.79
594401A	720	925	2.5	72*	1.0	1.0	1.5	2.0	1.0	16.3	2.27
594401B	726	925	3.0	69	1.5	2.5	3.0*	2.3	1.0	14.6	1.65*
594401C	721	925	2.5	71	1.0	1.0	1.5	2.5	1.5	17.3	1.24
594401D	723	927	3.0	79	1.5	2.0	3.5	2.5	1.0	16.6	2.10
594401E	723	1001	2.3	70	1.0	1.0	3.0*	2.5	1.0	16.5	1.39^
594402	720	929	1.8	69	1.0	1.5	1.5	3.0	1.0	17.2*	2.08
594403	727	1003	2.8	63	1.0	1.0	2.0	2.5	1.0	14.0	1.44^
594404	721	927	2.3	72*	1.0	1.5	2.0*	2.8	1.0	20.2*	1.73
594405	721	925	3.3	70	1.0	1.0	2.0	2.5	1.0	14.4	2.40*
594406	723	1001	1.5	86	1.0	1.5	3.5	2.5	1.0	19.7	2.99
594407	719	927	1.8	69	1.0	2.0*	4.5	2.5	1.0	19.9	2.67
594408	719	919	2.5	49*	1.0	3.0	5.0	3.3	1.0	20.7	0.92*
594409A	723	1005	2.8	98	1.0	1.0	3.0	2.0	1.0	13.5	2.44*
594409B	719	926	2.5	86*	1.0	1.0	1.5	2.0	1.0	13.3	2.21*
594410	723	1003	1.5	76	1.0	1.0	2.0*	2.8	1.0	18.4	3.18*
594411	727	929	3.8	61*	1.0	1.0	1.0	2.3	2.5	14.7	1.19*
594412	723	1001	2.0	74*	3.0	1.0	2.0*	2.8	1.0	20.0	1.72*
594413	725	1011	2.8	79*	1.0	1.0	1.5	2.0	1.0	15.4	2.32*
594415A	814	1016	3.3	94	1.0	1.5	2.0	2.3	2.0	10.9	1.06
594419	807	1001	4.3	87*	2.0	2.5	4.0*	2.3	2.0	10.1	0.98*
594420	808	1017	2.3	77*	1.0	1.0	2.0	2.5	2.0	14.8	1.66*
594430A	808	1005	3.3	91*	1.5	1.0	2.5	2.3	1.0	12.2	1.28*
594430B	811	1018	3.5	74*	1.5	1.0	1.0	2.3	1.5	14.4	1.02
594438	729	915	2.8	57*	1.5	1.0	2.5	2.8	1.5	9.9	1.02
594439A	802	1007	3.3	90*	1.0	1.0	2.5	2.3	2.0	8.6	1.85*
594439B	803	1005	3.0	81	1.0	1.5	3.5	2.5	3.0	9.2	1.89*
594440	727	1015	3.3	113*	1.5	1.0	1.0	2.0	2.0	13.7	1.37
594441	725	1008	2.5	62	1.0	2.0	4.5	2.8	2.5	15.4	1.49
594442A	802	1009	2.5	98	1.0	1.0	2.5	2.0	1.5	8.8	1.50
594442B	806	1017*	2.8	94	1.0	1.0	1.5	2.5	3.5	10.2	1.12

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594289	IV	42.7	17.8	8.8	3.6	25.5	54.3	7.8
594295	IV	43.2	16.6	9.6	3.0	22.8	56.5	8.1
594296	I	45.4 ^{w^}	20.4 ^{w^}	11.4 [^]	3.3 [^]	29.6 [^]	50.2 [^]	5.5 [^]
594297	II	44.3	16.4	12.1	3.7	20.8	55.9	7.5
594298	II	40.8	18.5	13.5	3.2	22.9	52.7	7.7
594301	I	42.0 [^]	19.7 [^]	12.7 [^]	3.3 [^]	26.1 [^]	52.1 [^]	5.8 [^]
594304A	I	42.0 [^]	18.6 [^]	12.2 [^]	4.3 [^]	27.1 [^]	50.7 [^]	5.7 [^]
594304B	II	41.5 [^]	17.7 [^]	11.2 [^]	3.6 [^]	27.6 [^]	51.9 [^]	5.7 [^]
594308	IV	43.7	15.2	9.6	2.8	22.1	55.8	9.8
594314	I	37.9 [^]	21.5 [^]	12.9 [^]	3.5 [^]	23.5 [^]	53.9 [^]	6.2 [^]
594319	I	37.8 [^]	19.7 [^]	12.7 [^]	3.7 [^]	27.6 [^]	49.8 [^]	6.2 [^]
594393	IV	42.3	17.9	11.3	3.5	23.9	52.5	8.8
594394	III	41.6	18.6	11.0	3.5	26.3	51.4	7.8
594398A	IV	39.3	18.0	9.6	3.5	24.6	54.4	7.8
594398B	IV	40.4	17.9	9.6	3.7	26.1	53.4	7.2
594399A	IV	39.4	18.6	9.0	3.5	26.4	53.9	7.2
594399C	IV	45.6	14.5	9.3	3.5	23.6	55.6	8.0
594401A	III	44.3	16.1	9.1	3.7	28.5	50.8	7.9
594401B	III	45.3	16.1	9.8	4.0	27.8	51.3	7.2
594401C	III	45.0	16.1	9.0	3.9	26.5	53.5	7.2
594401D	III	43.7	17.2	9.4	3.4	26.5	53.5	7.2
594401E	IV	45.8	14.8	8.8	2.9	23.7	56.0	8.7
594402	III	43.9	17.1	9.5	4.4	25.4	53.7	7.0
594403	IV	41.0	18.0	9.5	3.4	22.9	56.3	7.9
594404	III	41.9	18.2	9.8	3.7	31.0	49.2	6.3
594405	III	42.2	17.7	9.8	3.7	27.7	51.9	6.8
594406	IV	42.0	17.9	9.8	3.2	23.6	55.8	7.6
594407	III	41.1	18.4	9.9	3.0	21.0	58.6	7.5
594408	III	44.3	17.1	9.6	4.2	28.7	50.6	6.9
594409A	IV	39.6	17.0	10.2	3.6	21.9	54.1	10.1
594409B	III	43.0 ^w	17.2 ^w	12.6	3.1	21.6	53.2	9.4
594410	IV	41.3	17.5	9.6	3.3	22.3	57.5	7.3
594411	IV	43.8	17.3	10.3	3.8	23.3	55.0	7.6
594412	IV	42.1	18.4	9.8	3.6	24.8	54.5	7.2
594413	IV	41.3	17.0	9.3	3.3	22.6	57.4	7.4
594415A	IV	43.8	16.2	8.6	3.7	24.1	54.2	9.5
594419	IV	43.5	15.3	9.6	3.9	24.0	53.8	8.8
594420	IV	42.4	16.5	9.3	3.5	21.9	56.5	8.8
594430A	IV	44.6	14.0	9.3	3.0	26.1	53.1	8.5
594430B	IV	45.4 ^w	14.8 ^w	12.3	2.9	22.5	53.4	8.9
594438	II	40.9	14.6	10.1	3.6	27.4	50.6	8.3
594439A	IV	40.0	17.0	9.9	4.1	19.1	58.0	9.0
594439B	IV	42.0	16.5	9.9	3.7	21.7	55.4	9.3
594440	IV	43.1	16.0	8.8	3.2	22.3	57.5	8.2
594441	IV	46.0 ^w	16.2 ^w	12.4	3.5	23.4	54.4	6.4
594442A	IV	45.7	14.5	9.2	3.4	21.6	57.0	8.8
594442B	IV	43.6 ^w	15.6 ^w	9.4	4.2	22.9	55.4	8.1

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594443	Wan yuan tian kan dou	Sichuan	China	China	1996	IV
594444A	Shi fang ba jiao qi yue huang	Sichuan	China	China	1996	III
594444B	(Shi fang ba jiao qi yue huang)	Sichuan	China	China	1996	III
594445	Han yuan qian jin qing pi dou	Sichuan	China	China	1996	III
594446	Mei shan lu pi dou	Sichuan	China	China	1996	IV
594448A	Guang han hei dou	Sichuan	China	China	1996	IV
594448B	(Guang han hei dou)	Sichuan	China	China	1996	IV
594451	Liu yue bao	Sichuan	China	China	1996	III
594452	Huang dou	Sichuan	China	China	1996	IV
594453	Liu yue huang	Sichuan	China	China	1996	IV
594454A	Da huang dou	Sichuan	China	China	1996	II
594454B	(Da huang dou)	Sichuan	China	China	1996	III
594455A	Bao ji mu dou	Sichuan	China	China	1996	I
594455B	(Bao ji mu dou)	Sichuan	China	China	1996	II
594456A	Xiao jin huang	Sichuan	China	China	1996	III
594456B	(Xiao jin huang)	Sichuan	China	China	1996	II
594457A	Liu yue zao	Sichuan	China	China	1996	III
594457B	(Liu yue zao)	Sichuan	China	China	1996	IV
594459	Zao dou zi	Sichuan	China	China	1996	IV
594460	Liu yue huang	Sichuan	China	China	1996	III
594461A	Da bai shui dou	Sichuan	China	China	1996	IV
594461B	(Da bai shui dou)	Sichuan	China	China	1996	IV
594462	He dong huang dou	Sichuan	China	China	1996	IV
594463A	Ba jiao qi yue huang	Sichuan	China	China	1996	IV
594463B	(Ba jiao qi yue huang)	Sichuan	China	China	1996	IV
594464	Chun huang dou No. 2	Sichuan	China	China	1996	II
594466	Hua qiao hei dou	Sichuan	China	China	1996	II
594467	Zi pi dou	Sichuan	China	China	1996	III
594469A	Huang ke zi	Sichuan	China	China	1996	III
594469B	(Huang ke zi)	Sichuan	China	China	1996	III
594471A	Da bai dou	Sichuan	China	China	1996	III
594471B	(Da bai dou)	Sichuan	China	China	1996	IV
594476	Xiao bai mao zao	Sichuan	China	China	1996	IV
594478	Zao huang dou No. 2	Sichuan	China	China	1996	IV
594479	Lu lan zi No. 1	Sichuan	China	China	1996	IV
594480A	Lu dou	Sichuan	China	China	1996	V
594482	Qing pi dou No. 1	Sichuan	China	China	1996	IV
594483	Qing pi dou	Sichuan	China	China	1996	IV
594484	Lu lan zi No. 1	Sichuan	China	China	1996	IV
594486A	Lu lan zi No. 2	Sichuan	China	China	1996	IV
594486B	(Lu lan zi No. 2)	Sichuan	China	China	1996	IV
594488	Qing pi dou	Sichuan	China	China	1996	IV
594489	Xiao bai shui dou No. 1	Sichuan	China	China	1996	IV
594496	Xiao hei dou	Sichuan	China	China	1996	IV
594501A	Hei dou zi	Sichuan	China	China	1996	IV
594507	Jiang se dou	Sichuan	China	China	1996	IV
594508	Jiang se dou	Sichuan	China	China	1996	III

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594443	IV	D	P	T	A	N	Br	I	Gn	Br		3N
594444A	III	D	W	T	A	N	Br	I	Gn	Brbl	Vhil	3N
594444B	III	D	W	T	Sa	N	Br	I	Gn	Br		2N
594445	III	D	P	Lt	A	N	Br	D	Gn	Bl		2N
594446	IV	D	W	G	A	N	Br	I	Gn	Bf		2N
594448A	IV	S	W	T	A	N	Br	I	Bl	Bl	Flk, Sdef	3N
594448B	IV	S	W	T	A	N	Br	I	Bl	Bl		3N
594451	III	S	W	G	A	N	Br	I	Y	Bf		3N
594452	IV	S	W	G	A	N	Br	I	Y	Bf	Vhil	3N
594453	IV	D	P	G	Sa	N	Tn	I	Y	Bf		2N
594454A	II	D	W	G	Sa	N	Br	I	Y	Lbf		3N
594454B	III	S	W	G	E	Ssp	Br	I	Y	Bf	Vhil	3N
594455A	I	D	W	Lt	A	N	Br	I	Y	Br		3N
594455B	II	N	P	G	Sa	N	Tn	I	Y	Bf		3N
594456A	III	S	P	G	A	N	Tn	D	Y	Bf		3N
594456B	II	S	P	G	A	N	Tn	I	Y	Bf		3N
594457A	III	D	P	G	Sa	Ssp	Br	I	Gn	Bf		4N
594457B	IV	D	P	G	Sa	Ssp	Br	I	Gn	Bf		3F
594459	IV	D	W	T	A	N	Br	I	Y	Bl		2N
594460	III	D	W	T	A	N	Br	I	Y	Br		2N
594461A	IV	D	P	T	Sa	N	Br	I	Y	Bl		3N
594461B	IV	D	W	T	E	N	Tn	I	Y	Br		2N
594462	IV	D	W	T	Sa	N	Lbr	I	Y	Brbl	Vhil	3N
594463A	IV	D	P	T	Sa	N	Br	D	Y	Bl		3N
594463B	IV	D	P	T	A	N	Br	I	Y	Br		2N
594464	II	D	P	T	Sa	Ssp	Br	I	Gn	Br		3N
594466	II	D	P	Lt	Sa	N	Lbr	I	Bl	Bl		3N
594467	III	D	W	T	A	N	Tn	I	Rbr	Rbr	Sdef	3N
594469A	III	D	P	T	A	N	Tn	I	Y	Br		3N
594469B	III	D	P	T	A	N	Br	I	Y	Br		2N
594471A	III	D	P	T	E	Ssp	Br	I	Gn	Bl		3N
594471B	IV	S	P	T	E	Ssp	Br	I	Lgn	Br		3N
594476	IV	S	P	G	A	N	Br	I	Y	Ib	Vhil	3N
594478	IV	S	P	T	A	N	Br	I	Gn	Br		3N
594479	IV	S	P	T	A	N	Br	I	Gn	Br		2N
594480A	V	N	P	T	A	N	Br	I	Gn	Bl		3N
594482	IV	S	P	T	A	N	Br	I	Gn	Br		2N
594483	IV	S	P	T	A	N	Br	I	Gn	Br		2N
594484	IV	D	P	T	A	N	Br	I	Gn	Br		2N
594486A	IV	S	P	T	A	N	Br	I	Gn	Br		2N
594486B	IV	D	W	T	A	N	Br	I	Gn	Bl		3N
594488	IV	S	W	T	A	N	Br	I	Gn	Bl		3N
594489	IV	S	W	T	A	N	Br	I	Gn	Bl		3N
594496	IV	D	W	T	A	N	Bl	Lb	Bl	Bl		4F
594501A	IV	D	W	T	E	Ssp	Br	I	Bl	Bl	Sflk	3N
594507	IV	S	P	T	E	Ssp	Bl	I	Br	Rbr		3N
594508	III	D	W	T	A	N	Tn	I	Rbr	Rbr	Sdef	3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
594443	728	1011	2.3	71	1.0	2.0*	3.5	1.8	2.0	14.9	1.20*
594444A	726	925	3.5	79*	1.0	2.0	3.5	2.0	2.0	8.8	1.22*
594444B	726	918	2.3	78	1.0	2.0	3.0*	2.3	3.0	8.9	1.25
594445	723	919	2.8	72*	1.5	1.0	2.5	2.8	2.5	10.6	0.95
594446	727	1013	2.0	70	1.0	1.0	1.0	1.5	2.0	8.9	1.62
594448A	731	1012	2.8	92*	2.0	1.0	2.0	2.0	--	11.7	1.66*
594448B	804	1016	2.5	92*	2.0	1.0	1.0	2.5	--	16.3	1.66
594451	730	925	3.3	90	2.0	2.5	3.5	2.0	2.0	7.2	1.27
594452	804	1011	2.5	100*	2.0	1.0	1.0	2.0	2.0	11.8	1.15
594453	805	1012	2.8	80	1.0	1.0	1.0	2.0	1.0	11.3	1.66*
594454A	708*	903	1.8	57	1.5	2.0*	4.5	2.0	2.0	14.4	1.66
594454B	720	919	2.8	78	2.0	1.5	2.5	2.5	3.5	13.0	1.37
594455A	713	830	2.0	36	1.0	2.5	5.0	2.0	1.0	11.6	0.82
594455B	722	906	2.5	95*	3.0	3.0*	5.0	2.5	3.0	11.8	1.18
594456A	729	917	3.3	99*	2.0	1.0	1.0	2.0	4.0	8.7	1.04
594456B	721	915	3.0	83*	2.0	1.0	3.5	2.5	2.0	10.3*	1.15
594457A	727	929	2.3	68	1.0	2.5	4.5	3.5	3.0	20.6*	1.18
594457B	802	1007	1.8	82*	1.5	2.0*	4.0*	2.8	2.5	18.2	1.11
594459	731	1009	2.8	98	1.5	1.0	2.0	2.0	1.5	9.8	1.23*
594460	728	927	2.8	105*	1.0	1.5	2.5	2.3	2.0	8.9	1.42*
594461A	802	1009	2.8	110	1.5	1.5	2.0	2.3	2.0	12.2	1.62
594461B	805	1019	3.0	88*	1.5	1.0	1.0	2.5	2.0	11.9	1.78
594462	728	1007	3.3	94	1.0	1.0	1.0	2.5	2.0	9.8	2.09*
594463A	805	1013	3.3	93	1.0	1.0	2.0	2.8	2.0	9.2	1.50
594463B	804	1006	3.3	93	1.0	1.0	3.0	2.5	3.5	9.4	1.53
594464	719	904	2.5	60	1.5	2.0*	5.0	2.0	3.0	8.2	1.05
594466	715	905	2.5	66	1.5	1.5	5.0	2.8	--	9.8	1.22
594467	719	920	2.3	64	1.0	2.5	4.5	2.8	--	11.9	1.72
594469A	723	923	3.0	64	1.0	3.0	5.0	2.5	2.0	11.0	0.62
594469B	725	925	4.0	96*	1.5	4.5	5.0	2.0	2.5	10.6	0.76
594471A	729	928	3.5	74	1.5	1.0	1.5	3.0	4.5	7.8	0.72
594471B	802	1015	2.5	123*	2.0	1.5	2.0	2.3	2.5	10.0	1.37
594476	804	1003	3.8	111	2.0	1.0	1.5	2.0	1.0	8.9	1.34*
594478	806	1012	3.3	85	2.0	1.0	2.0	2.0	2.0	13.6*	0.95
594479	811	1013*	3.5	94*	2.0	1.0	1.0	2.3	2.0	14.8*	0.88
594480A	812	1024	3.3	76	3.0*	1.0	1.0	2.5	2.0	15.5	1.00
594482	810	1013*	3.3	84*	2.0	1.0	1.5	2.3	2.0	14.8*	0.96*
594483	810	1013*	3.0	78*	2.0	1.0	1.5	1.8	2.0	13.5*	0.94
594484	806	1012*	3.3*	66*	1.5	1.0	1.0	2.3	2.0	13.9	0.66
594486A	809	1014*	3.5	84	2.0	1.0	1.0	2.3	2.0	14.1*	0.76
594486B	806	1017	3.0	73*	1.5	1.0	1.5	2.0	1.0	16.2*	1.34*
594488	804	1014	3.5	76*	2.0	1.0	1.5	2.3	1.0	15.7*	1.30*
594489	805	1017*	4.3	101*	2.0	1.0	1.5	2.0	1.0	17.8*	1.24*
594496	725	929	3.3	79	1.0	1.0	2.0*	2.3	--	9.3	1.25
594501A	801	1013	3.0	110	1.0	1.0	1.0	2.5	--	9.5	1.26
594507	723	1011	3.0	113*	2.0	1.0	2.5	2.3	--	12.6	1.59*
594508	719	921	2.3	63	1.0	2.0*	4.5	2.8	--	12.7	1.71

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594443	IV	44.7 ^w	16.0 ^w	12.1	3.5	23.1	54.4	6.9
594444A	III	47.2 ^w	15.8 ^w	12.6	3.7	25.1	50.5	8.2
594444B	III	46.8 ^w	14.3 ^w	13.9	3.7	26.7	48.6	7.0
594445	III	47.5 ^w	15.0 ^w	13.4	3.9	26.7	48.6	7.4
594446	IV	42.0 ^w	16.4 ^w	12.0	3.0	21.4	55.5	8.1
594448A	IV	43.8 ^w	15.0 ^w	12.4	3.2	21.7	54.1	8.5
594448B	IV	41.8 ^w	16.3 ^w	11.2	3.4	24.7	53.0	7.7
594451	III	46.0 ^w	15.2 ^w	11.3	3.8	23.5	53.5	7.9
594452	IV	42.6	15.1	9.7	3.3	20.1	58.1	8.9
594453	IV	44.6	14.4	9.7	3.0	23.2	55.8	8.3
594454A	II	41.2	16.6	11.3	3.5	28.3	49.7	7.2
594454B	III	47.2 ^w	15.0 ^w	11.0	3.1	24.3	53.8	7.7
594455A	I	41.7	18.4	12.1	3.3	22.9	53.3	8.3
594455B	II	48.1	14.4	10.7	3.7	23.5	54.2	7.9
594456A	III	46.0 ^w	16.5 ^w	13.2	3.0	25.5	51.5	6.7
594456B	II	43.0	16.8	10.3	4.1	31.4	45.7	8.5
594457A	III	49.8 ^w	15.1 ^w	13.3	3.9	27.5	48.7	6.6
594457B	IV	48.1 ^w	15.7 ^w	13.8	3.0	22.6	53.9	6.8
594459	IV	41.7	15.3	9.8	4.4	24.9	52.8	8.0
594460	III	43.4	16.5	9.7	3.2	27.1	51.5	8.5
594461A	IV	46.7	14.4	9.6	4.0	24.0	54.5	7.9
594461B	IV	44.4	14.7	9.7	3.5	21.2	57.9	7.7
594462	IV	41.3	16.1	9.9	4.0	19.6	57.3	9.2
594463A	IV	41.5	16.1	10.1	3.9	22.5	55.3	8.2
594463B	IV	41.8 ^w	16.5 ^w	9.9	3.4	19.9	58.3	8.5
594464	II	47.2 ^w	15.3 ^w	12.5	3.8	23.5	50.7	9.5
594466	II	46.4 ^w	14.9 ^w	13.0	4.0	23.5	52.0	7.4
594467	III	44.1 ^w	17.0 ^w	13.4	3.9	28.6	47.9	6.3
594469A	III	41.6	15.7	10.0	5.0	27.8	49.4	7.7
594469B	III	40.8	17.3	9.5	3.2	25.0	54.7	7.7
594471A	III	48.8 ^w	13.6 ^w	13.3	4.0	24.0	51.4	7.3
594471B	IV	47.1 ^w	16.1 ^w	12.7	3.6	22.0	53.0	8.8
594476	IV	42.1	16.6	8.9	3.7	24.8	54.7	8.0
594478	IV	43.9 ^w	15.5 ^w	12.5	3.6	25.0	51.8	7.1
594479	IV	44.7 ^w	16.1 ^w	11.8	3.5	25.0	52.2	7.4
594480A	V	49.6 ^w	14.1 ^w	11.2	3.5	27.3	51.3	6.6
594482	IV	45.3 ^w	16.7 ^w	12.0	3.7	25.5	52.0	6.9
594483	IV	43.3 ^w	16.4 ^w	12.0	3.3	24.1	53.2	7.4
594484	IV	46.4 ^w	15.7 ^w	12.1	3.5	25.4	52.1	6.9
594486A	IV	46.8 ^w	15.2 ^w	11.7	3.3	24.1	53.0	7.9
594486B	IV	43.5 ^w	16.4 ^w	12.6	3.2	23.4	52.5	8.2
594488	IV	42.0 ^w	17.0 ^w	12.8	3.5	23.9	52.3	7.6
594489	IV	44.9 ^w	16.8 ^w	12.9	3.8	23.9	52.2	7.2
594496	IV	44.5 ^w	15.7 ^w	12.3	3.1	21.0	56.4	7.2
594501A	IV	46.2 ^w	14.2 ^w	12.3	3.8	21.1	54.2	8.6
594507	IV	45.5 ^w	16.7 ^w	12.6	3.8	20.8	54.7	8.2
594508	III	46.1 ^w	16.3 ^w	13.6	4.0	27.9	48.3	6.3

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594550	Jiu yue huang	Jiangxi	China	China	1996	II
594576	Cha dou	Jiangxi	China	China	1996	IV
594578	Li xian bai huang dou	Hunan	China	China	1996	IV
594580	Chang de xiao huang dou	Hunan	China	China	1996	IV
594581	Jiang ba liu yue huang	Hunan	China	China	1996	IV
594582	Shi men da bai li	Hunan	China	China	1996	IV
594583	Shi men xiao bai li	Hunan	China	China	1996	IV
594584	An hua yun yi zao	Hunan	China	China	1996	IV
594587	Yong shun da bai li	Hunan	China	China	1996	IV
594593	Zhen shang huang dou	Hunan	China	China	1996	IV
594599	Chang de chun hei dou	Hunan	China	China	1996	IV
594600	Shi men hei huang dou	Hunan	China	China	1996	IV
594601	Tao jiang hong dou	Hunan	China	China	1996	IV
594603A	Long shan cha huang dou	Hunan	China	China	1996	IV
594603B	(Long shan cha huang dou)	Hunan	China	China	1996	IV
594604	Niu mao dou	Guizhou	China	China	1996	IV
594606	Feng ding dou	Guizhou	China	China	1996	IV
594607	Huang ke dou	Guizhou	China	China	1996	IV
594608A	Bie huang dou	Guizhou	China	China	1996	IV
594608B	(Bie huang dou)	Guizhou	China	China	1996	IV
594609	Ba yue huang	Guizhou	China	China	1996	IV
594611	Xiao huang dou	Guizhou	China	China	1996	IV
594612	Hei ke bai dou	Guizhou	China	China	1996	IV
594614A	Ba yue huang	Guizhou	China	China	1996	IV
594614B	(Ba yue huang)	Guizhou	China	China	1996	V
594615	Liu yue zao	Guizhou	China	China	1996	IV
594616	Liu yue zao	Guizhou	China	China	1996	III
594618A	Qi yue dou	Guizhou	China	China	1996	III
594618B	(Qi yue dou)	Guizhou	China	China	1996	III
594618C	(Qi yue dou)	Guizhou	China	China	1996	IV
594618D	(Qi yue dou)	Guizhou	China	China	1996	IV
594619	Sheng lian zao	Guizhou	China	China	1996	IV
594620	Da bai shui dou	Guizhou	China	China	1996	IV
594624	Zong zi dou	Guizhou	China	China	1996	IV
594625	Leng sha dou	Guizhou	China	China	1996	IV
594626	Liu yue huang No. 1	Guizhou	China	China	1996	IV
594628	Lu pi dou No. 1	Guizhou	China	China	1996	IV
594632	Yan he huang dou	Guizhou	China	China	1996	IV
594633	Yan he huang dou No. 1	Guizhou	China	China	1996	IV
594634	Qing huang za dou No. 5	Guizhou	China	China	1996	IV
594635A	Qing huang za dou No. 6	Guizhou	China	China	1996	IV
594635B	(Qing huang za dou No. 6)	Guizhou	China	China	1996	IV
594637	Huang ke dou No. 8	Guizhou	China	China	1996	IV
594638A	Huang ke dou 13	Guizhou	China	China	1996	IV
594638B	(Huang ke dou 13)	Guizhou	China	China	1996	IV
594644A	Qi yue dou	Guizhou	China	China	1996	IV
594644B	(Qi yue dou)	Guizhou	China	China	1996	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594550	II	D	P	T	E	Ssp	Br	I	Gnbl	Bl		3N
594576	IV	S	P	T	Sa	Ssp	Tn	I	Br	Rbr	Def	3N
594578	IV	S	P	G	A	N	Br	I	Y	Bf		3N
594580	IV	D	P	T	A	Ssp	Br	I	Y	Br		2N
594581	IV	S	P	T	A	Ssp	Br	I	Y	Br		2N
594582	IV	D	P	T	A	Ssp	Br	I	Y	Br		2N
594583	IV	S	P	T	A	Ssp	Br	I	Y	Br		2N
594584	IV	S	P	T	A	Ssp	Br	I	Y	Br		2N
594587	IV	D	W	G	A	N	Br	I	Y	Bf	Sdef	2N
594593	IV	D	P	T	A	Ssp	Br	I	Y	Br		2N
594599	IV	S	P	T	A	Ssp	Tn	Lb	Bl	Bl		3N
594600	IV	S	W	T	Sa	N	Br	I	Bl	Bl		3N
594601	IV	S	W	T	A	N	Tn	I	Rbr	Rbr		2N
594603A	IV	D	P	T	A	N	Br	I	Rbr	Rbr		3N
594603B	IV	D	P	T	A	N	Br	I	Rbr	Rbr		3N
594604	IV	D	W	T	A	N	Br	I	Lgn	Bl		3N
594606	IV	D	W	Lt	A	N	Br	I	Y	Br		2N
594607	IV	D	W	T	A	N	Br	I	Y	Br		2N
594608A	IV	D	W	T	A	N	Br	I	Y	Br		2N
594608B	IV	D	W	T	A	N	Br	I	Y	Br		2N
594609	IV	D	W	Lt	A	N	Br	I	Y	Br		2N
594611	IV	D	W	T	E	N	Br	I	Y	Brbl	Vhil	3N
594612	IV	D	W	Ng	A	N	Tn	I	Y	Brbl	Vhil	3N
594614A	IV	D	P	Lt	A	N	Tn	I	Y	Br	Vhil	2N
594614B	V	D	W	T	A	Ssp	Tn	I	Y	Br	Vhil	2N
594615	IV	S	P	T	A	Ssp	Br	I	Y	Br		3N
594616	III	S	P	T	A	Ssp	Br	I	Y	Br		3N
594618A	III	D	P	T	A	N	Tn	D	Y	Br		3N
594618B	III	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594618C	IV	S	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594618D	IV	D	P	T	Sa	N	Br	I	Y	Br		4N
594619	IV	S	W	T	A	N	Br	I	Y	Br		3N
594620	IV	S	W	G	Sa	N	Br	I	Y	Bf		3N
594624	IV	D	W	T	E	Ssp	Br	Lb	Br	Rbr	Sdef	4N
594625	IV	D	W	G	A	Ssp	Bl	I	Gn	Bf		2N
594626	IV	D	W	Lt	A	N	Tn	I	Y	Bl		2N
594628	IV	S	P	G	A	N	Br	I	Y	Bf	Vhil	2N
594632	IV	D	W	G	A	N	Br	I	Y	Bf		2N
594633	IV	D	P	G	A	N	Br	I	Lgn	Bf		2N
594634	IV	D	P	G	A	N	Tn	I	Y	Bf		3N
594635A	IV	D	P	G	A	N	Tn	I	Y	Bf	Vhil	3N
594635B	IV	D	P	G	A	N	Tn	I	Y	Bf		3N
594637	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594638A	IV	D	P	Lt	A	N	Br	I	Y	Br		3N
594638B	IV	D	P	Lt	A	N	Br	I	Y	Br		3N
594644A	IV	S	P	G	A	N	Br	I	Y	Bf		3N
594644B	IV	S	W	G	A	N	Br	I	Y	Bf		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
594550	711	903	1.5	49	1.0	2.0*	4.5	2.3	--	14.8	1.45*
594576	727	1009	3.8	115*	2.0	1.5	3.0	3.0	--	14.0	0.87
594578	811	1013*	3.5	84	2.0	1.0	1.5	2.3	2.0	11.9	0.73
594580	806	1001	4.0	73*	1.0	1.0	2.0*	2.3	2.5	7.3	1.32
594581	810	1007	4.3	90*	2.0	1.0	1.5	2.3	2.0	7.2	1.28*
594582	808	1009	4.0	88*	1.0	1.0	1.5	2.0	2.0	8.8	1.42*
594583	808	1003	4.3	72	2.0	1.0	1.0	1.8	2.0	7.5	1.25*
594584	806	1005	4.0	80*	2.0	1.0	1.0	2.3	2.0	8.0	1.47*
594587	804	1011	2.5	67	1.0	1.0	1.0	2.3	2.0	11.9	1.31
594593	808	1003	2.5*	73	1.0	1.0	2.0	2.3	2.0	7.6	1.51*
594599	729	929	3.3*	59*	2.0	1.0	1.0	2.3	--	10.1	0.66
594600	811	1022	2.5	94*	2.0	1.0	1.0	2.5	--	10.3	1.30
594601	803	1009	3.8	67*	2.0	1.0	1.0	1.8	--	12.0	1.45*
594603A	730	1016	3.0	67	1.0	1.0	1.0	2.5	--	12.8	1.07
594603B	802	1014	2.5	79	1.0	1.0	1.0	2.5	--	12.9	1.33
594604	804	1013	3.5	92	1.0	1.5	2.5	2.5	3.5	8.1	1.42
594606	802	1020	2.3	78*	1.0	1.0	1.0	2.0	3.0	14.3	1.21
594607	803	1010	2.5	81	1.0	1.0	1.0	2.3	2.5	14.1	1.58
594608A	802	1005	2.0	72	1.5	1.0	1.0	2.8	3.0	13.8	1.54
594608B	731	1011	2.5	71	1.0	1.0	1.0	2.3	3.0	14.8	1.24
594609	802	1020	2.3	67	1.0	1.0	1.0	2.0	2.0	14.0	0.67 [^]
594611	807	1009	3.0	107	1.5	1.0	2.0	2.0	1.0	8.6	1.92
594612	806	1022	2.5	93	1.0	1.0	1.0	2.5	1.0	14.2	1.39
594614A	727	1010	3.3	85	1.0	1.0	1.0	2.0	1.0	10.7	1.41*
594614B	729	1023	3.0	86	1.0	1.0	1.0	2.0	2.0	11.2	1.10
594615	806	1007	4.0	101*	2.0	1.0	2.0	2.5	2.0	9.3	0.77
594616	805	1001	3.8	100*	2.0	1.0	2.0	2.0	2.0	9.8	1.32
594618A	804	1001	2.5	84	1.0	2.0	3.5*	2.8	2.5	10.5	1.54
594618B	803	926	2.8	68*	1.0	2.0	3.5	2.5	2.0	10.0	0.93
594618C	806	1014	3.3	111	2.0	2.0*	3.5*	2.5	2.5	10.3	1.32*
594618D	805	1017	3.3	103*	1.5	2.5*	4.5	2.3	2.5	11.8	1.34*
594619	803	1003*	2.5	80	2.0	1.0	1.5	2.5	2.5	10.5	0.82
594620	808	1021	2.5	94	2.0	1.0	1.0	2.0	2.0	12.3	1.21
594624	802	1015	3.5	97*	1.0	1.5	2.5	2.8	--	14.5	1.37
594625	808	1021	3.0	101	1.0	1.0	1.0	2.0	3.0	8.6	1.89
594626	804	1015	2.5	87	1.0	1.0	1.5	2.0	3.0	9.2	1.29*
594628	812	1018	2.8	88	2.0	1.0	1.0	1.8	2.0	11.6	0.99
594632	802	1003	3.0	90	1.0	1.0	2.0	2.3	2.0	8.8	1.59
594633	802	1015	2.5	88*	1.0	1.0	1.5	1.8	1.0	11.2	1.30
594634	810	1009	3.0	98	1.0	1.0	1.5	2.0	1.0	8.5	1.29*
594635A	810	1014	2.5	87	1.0	1.0	1.0	2.0	1.0	8.4	1.26*
594635B	804	1019	2.5	81*	1.0	1.0	1.0	2.0	1.0	9.9	1.26*
594637	802	1016	2.5	86	1.0	1.5	1.5	2.0	2.0	10.7	0.91
594638A	811	1019	2.8	107*	1.5	1.0	1.0	2.0	2.0	10.1	1.35*
594638B	812	1021	2.8*	116*	1.5	1.0	1.0	2.0	2.0	10.8	1.33*
594644A	809	1018	2.8	90	2.0	1.0	1.5	2.0	2.0	9.5	0.93*
594644B	808	1021	3.5	91	2.0	1.0	1.0	2.0	2.0	12.2	0.99

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594550	II	44.9 ^w	16.6 ^w	13.4	4.0	34.6	41.9	6.0
594576	IV	46.2 ^w	15.4 ^w	12.1	3.6	24.5	51.8	8.0
594578	IV	43.4	13.8	9.0	3.7	22.5	56.2	8.5
594580	IV	39.6	16.6	9.8	3.4	20.9	56.9	9.0
594581	IV	41.2	16.2	9.8	3.3	20.4	57.1	9.3
594582	IV	41.7	16.6	10.1	3.3	20.2	56.5	9.8
594583	IV	39.6	16.9	9.6	3.4	19.7	57.5	9.8
594584	IV	40.7	16.0	9.5	3.7	22.5	55.6	8.7
594587	IV	42.5	15.2	9.2	3.4	25.1	54.3	8.0
594593	IV	40.1	16.8	10.4	3.6	21.3	55.7	9.0
594599	IV	44.7 ^w	14.7 ^w	13.3	4.0	23.7	50.1	8.9
594600	IV	45.4 ^w	14.8 ^w	11.7	3.3	21.7	53.9	9.4
594601	IV	41.4 ^w	17.0 ^w	11.6	3.4	24.5	54.4	6.1
594603A	IV	44.4 ^w	16.1 ^w	11.5	3.5	24.5	52.7	7.7
594603B	IV	44.4 ^w	16.4 ^w	11.6	3.3	24.6	52.6	7.9
594604	IV	47.3 ^w	15.5 ^w	12.9	3.1	19.9	55.3	8.7
594606	IV	42.8	16.2	9.6	3.7	21.8	56.4	8.5
594607	IV	44.0	16.2	10.1	3.5	22.2	56.5	7.6
594608A	IV	45.9	14.7	10.6	4.0	21.8	55.3	8.3
594608B	IV	46.2	15.6	9.5	3.8	22.9	56.2	7.6
594609	IV	42.0	16.6	9.3	3.7	23.2	56.3	7.5
594611	IV	44.6	13.7	9.1	3.8	19.2	58.4	9.5
594612	IV	44.2	14.9	9.2	3.7	23.4	55.1	8.5
594614A	IV	42.9	14.9	9.2	3.9	24.9	53.9	8.2
594614B	V	45.4	14.4	9.2	3.3	19.5	58.1	9.9
594615	IV	47.1	14.3	11.0	3.8	27.0	50.7	7.5
594616	III	47.1 ^w	14.5 ^w	11.4	3.9	27.2	50.3	7.2
594618A	III	44.1	16.9	9.8	3.8	25.5	54.1	6.8
594618B	III	46.3	16.7	10.2	4.2	26.0	52.9	6.8
594618C	IV	42.9	16.3	9.3	3.2	22.0	56.9	8.6
594618D	IV	46.2	15.2	9.5	3.5	23.1	56.3	7.6
594619	IV	47.5	15.8	10.2	4.0	23.3	55.3	7.2
594620	IV	43.4	15.8	8.6	3.1	23.2	56.1	9.1
594624	IV	47.9 ^w	15.4 ^w	11.7	3.0	23.0	55.2	7.1
594625	IV	47.8 ^w	15.1 ^w	11.3	3.3	18.7	56.6	10.2
594626	IV	43.8	14.0	9.7	3.6	21.7	57.1	7.8
594628	IV	45.0	15.7	8.8	3.8	22.5	56.2	8.7
594632	IV	43.5	14.8	8.6	3.7	24.2	54.8	8.7
594633	IV	44.7 ^w	16.0 ^w	11.7	3.6	22.9	53.9	7.9
594634	IV	41.3	15.5	9.3	3.7	21.0	56.8	9.2
594635A	IV	43.5	14.3	9.4	3.7	21.4	56.5	9.0
594635B	IV	44.3 ^w	15.9 ^w	9.7	3.7	22.7	55.4	8.5
594637	IV	46.9	14.2	9.3	3.9	21.2	57.1	8.5
594638A	IV	43.1	15.9	9.6	4.5	21.6	55.7	8.7
594638B	IV	43.9	15.8	9.2	4.6	22.8	54.7	8.7
594644A	IV	43.1	16.2	8.6	3.3	23.9	56.1	8.1
594644B	IV	46.2	15.4	8.9	3.8	25.4	54.5	7.3

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594646	Wu zui zao dou No. 1	Guizhou	China	China	1996	IV
594648A	Wu zui zao dou No. 6	Guizhou	China	China	1996	IV
594648B	(Wu zui zao dou No. 6)	Guizhou	China	China	1996	IV
594649	Wu zui zao dou 11	Guizhou	China	China	1996	IV
594650A	Wu zui zao dou 12	Guizhou	China	China	1996	IV
594650B	(Wu zui zao dou 12)	Guizhou	China	China	1996	V
594651	Wu zui zao dou 14	Guizhou	China	China	1996	V
594670A	Huang dou No. 2	Guizhou	China	China	1996	IV
594670B	(Huang dou No. 2)	Guizhou	China	China	1996	IV
594676	Huang dou No. 4	Guizhou	China	China	1996	IV
594682A	Liu yue ba	Guizhou	China	China	1996	IV
594685A	Zao huang dou No. 1	Guizhou	China	China	1996	III
594685B	(Zao huang dou No. 1)	Guizhou	China	China	1996	IV
594687	Liu yue dou	Guizhou	China	China	1996	IV
594689	Za dou No. 1	Guizhou	China	China	1996	III
594690A	Za dou No. 2	Guizhou	China	China	1996	IV
594691	Niu mao dou No. 10	Guizhou	China	China	1996	IV
594692	Zao dou zi No. 3	Guizhou	China	China	1996	IV
594693A	Zao dou zi No. 5	Guizhou	China	China	1996	IV
594693B	(Zao dou zi No. 5)	Guizhou	China	China	1996	IV
594695	Niu mao dou No. 4	Guizhou	China	China	1996	IV
594696A	Hua mian dou	Guizhou	China	China	1996	IV
594696B	(Hua mian dou)	Guizhou	China	China	1996	IV
594708A	Liu yue bao No. 8	Guizhou	China	China	1996	IV
594708B	(Liu yue bao No. 8)	Guizhou	China	China	1996	IV
594710	Zong zi dou	Guizhou	China	China	1996	IV
594712	Liu yue dou 17	Guizhou	China	China	1996	IV
594713	Huang dou 12	Guizhou	China	China	1996	IV
594714	Ni ba dou	Guizhou	China	China	1996	III
594777	Liu yue huang	Yunnan	China	China	1996	IV
594778	Zao dou zi	Yunnan	China	China	1996	III
594779	Zao bai dou	Yunnan	China	China	1996	IV
594780	Zao bai dou	Yunnan	China	China	1996	IV
594790A	Hua lian dou	Yunnan	China	China	1996	IV
594791	Hua pi dou	Yunnan	China	China	1996	IV
594792A	Xiao lu dou	Yunnan	China	China	1996	V
594795	Yao ren bai dou	Yunnan	China	China	1996	IV
594798	Huang dou	Yunnan	China	China	1996	IV
594799A	Huang dou	Yunnan	China	China	1996	IV
594799B	(Huang dou)	Yunnan	China	China	1996	III
594800	Tuo liang huang dou	Yunnan	China	China	1996	IV
594801A	Er huang zao dou	Yunnan	China	China	1996	IV
594801B	(Er huang zao dou)	Yunnan	China	China	1996	IV
594802A	Da huang zao dou	Yunnan	China	China	1996	IV
594802B	(Da huang zao dou)	Yunnan	China	China	1996	IV
594804	Xi bai dou	Yunnan	China	China	1996	IV
594807A	Huang dou	Yunnan	China	China	1996	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594646	IV	D	P	Lt	A	N	Br	I	Y	Brbl	Vhil	3N
594648A	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
594648B	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
594649	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594650A	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594650B	V	D	W	T	A	N	Br	I	Y	Br		2N
594651	V	D	W	G	A	N	Tn	I	Y	Bf		2N
594670A	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
594670B	IV	S	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
594676	IV	D	P	G	A	Ssp	Tn	I	Y	Bf		2N
594682A	IV	D	W	G	A	N	Br	I	Lgn	Bf		2N
594685A	III	D	W	G	A	N	Br	I	Y	Bf		2N
594685B	IV	D	W	Lt	Sa	N	Br	I	Bl	Bl	Flk, Sdef	2N
594687	IV	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
594689	III	D	W	G	A	N	Br	I	Lgn	Bf		2N
594690A	IV	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
594691	IV	S	W	T	A	Ssp	Br	I	Y	Br		2N
594692	IV	S	P	G	A	N	Br	I	Y	Bf		3N
594693A	IV	D	W	T	A	N	Br	I	Y	Br	Sdef, Vhil	2N
594693B	IV	D	P	T	A	N	Br	I	Y	Br		2N
594695	IV	D	P	T	A	N	Tn	I	Y	Br		3N
594696A	IV	D	W	T	A	Ssp	Br	I	Gn	Bl	Sad	3N
594696B	IV	D	W	T	A	N	Br	I	Gn	Bl	Sad	3N
594708A	IV	D	W	Lt	A	N	Lbr	I	Bl	Bl	Flk	3N
594708B	IV	D	W	Lt	Sa	N	Br	I	Bl	Bl	Flk	3N
594710	IV	D	W	Lt	A	N	Br	I	Rbr	Rbr		3N
594712	IV	D	W	T	A	N	Br	I	Br	Rbr		3N
594713	IV	D	W	T	A	N	Br	I	Bl	Bl	Flk	3N
594714	III	S	W	T	A	Ssp	Br	I	Y	Bl		3N
594777	IV	D	W	T	A	N	Br	I	Y	Br		3N
594778	III	D	W	T	Sa	N	Br	I	Y	Bl		3N
594779	IV	D	W	T	Sa	Ssp	Br	I	Y	Br		3N
594780	IV	D	W	T	E	Ssp	Br	I	Y	Br		3N
594790A	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
594791	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
594792A	V	S	P	T	Sa	N	Br	I	Y	Brbl	Vhil	3N
594795	IV	S	W	T	Sa	N	Br	I	Y	Br	Sph	3N
594798	IV	D	W	G	A	N	Tn	I	Y	Bf		3N
594799A	IV	D	W	T	E	N	Br	D	Y	Br		3N
594799B	III	D	P	T	E	N	Br	I	Y	Br		4N
594800	IV	S	P	T	A	N	Br	I	Y	Bl		4F
594801A	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
594801B	IV	S	W	T	A	N	Br	I	Y	Bl	Vhil	3N
594802A	IV	D	P	T	E	N	Br	I	Y	Br		3N
594802B	IV	D	W	G	A	N	Tn	I	Y	Bf		2N
594804	IV	D	P	Lt	A	N	Br	D	Y	Br		3N
594807A	IV	D	W	T	Sa	N	Br	I	Y	Br		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Stem Height (cm)	term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
594646	812	1017	3.5	98*	1.0	1.0	1.0	2.0	3.0	8.5	1.43 [^]
594648A	810	1014	2.5	82	1.0	2.0*	2.5	2.0	4.0	7.8	1.19*
594648B	810	1015	3.3	86	1.0	1.5	2.0	2.0	3.0	8.5	1.60
594649	812	1019*	3.5	86	1.0	1.0	1.0	2.3	2.0	9.2	1.51*
594650A	812	1021	3.3	86	1.0	1.0	1.0	2.0	2.0	9.8	1.43
594650B	812	1023	3.0	94	1.0	1.0	1.0	2.0	2.0	12.1	1.21
594651	816	1023	2.5	94	1.0	1.0	1.0	1.8	2.0	10.9	1.38
594670A	806	1011	3.5	79*	1.0	2.5	4.0*	2.3	3.0	10.6	1.21*
594670B	813	1021	3.0	92	2.0	1.0	1.0	2.0	2.5	10.3	0.81
594676	804	1008	2.5	75	1.0	1.0	1.0	2.0	1.0	8.1	1.30
594682A	802	1002	3.0	69	1.0	1.0	1.0	2.3	2.5	10.0	1.33
594685A	802	928	2.5	77	1.0	1.5	2.5	2.3	2.0	7.3	1.48
594685B	804	1011	2.5	98	1.0	1.5	2.0	2.8	--	9.4	1.46*
594687	810	1009	2.5	69	1.0	1.0	1.5	2.0	1.0	8.5	1.15
594689	802	1001	3.3	72	1.0	1.0	1.0	1.8	2.0	7.9	1.35
594690A	808	1009	2.0	75	1.0	1.0	2.5	2.3	1.0	9.8	0.82
594691	728	1009	3.5	114	2.0	1.0	2.0	2.5	3.0	10.6	1.07
594692	802	1011	3.0	80	2.0	1.0	1.0	2.3	2.0	12.6	1.25
594693A	805	1013	2.3	94	1.5	1.0	1.0	2.3	1.0	10.1	0.97*
594693B	804	1013	2.8	107*	1.0	1.0	1.0	2.0	3.0	11.7	1.33
594695	801	1008	3.0	70*	1.5	1.0	1.0	2.3	2.0	12.6	1.06*
594696A	807	1019	1.8	71*	1.0	1.0	1.0	2.3	--	9.9	0.71
594696B	807	1015	1.5	68*	1.5	1.0	1.0	2.0	--	10.2	0.60
594708A	805	1004	2.8	79	1.0	1.0	2.5	2.8	--	8.3	1.32*
594708B	804	1011	2.8	97	1.5	1.5	2.5	2.8	--	9.4	1.66*
594710	804	1001	3.5	87*	1.0	1.0	2.5	2.5	--	9.4	1.44*
594712	804	1005	4.0	74*	1.0	1.0	2.0	2.3	--	8.9	1.60*
594713	804	1005	3.3	77	1.0	1.5	2.5*	3.0	--	8.2	1.38*
594714	801	921	3.3	75	2.0	2.0	5.0	2.0	3.5	9.7	1.17
594777	802	930	3.0	100*	1.0	2.0	3.5	2.0	1.5	8.7	0.54 [^]
594778	725	923	2.3	75	1.0	1.0	1.0	2.3	3.5	9.7	1.01
594779	804	1015	1.8	84	1.0	1.0	1.0	2.3	3.0	12.1	1.30
594780	727	1011	3.3	90	1.0	1.0	1.0	2.3	2.5	12.8	1.53*
594790A	803	1017	3.0	80	1.0	1.5	2.5	2.0	2.0	11.2	1.23
594791	804	1017	3.0	87	1.0	1.5	2.0	2.0	2.0	11.6	1.55*
594792A	812	1024	3.0	117	2.0	1.0	1.5	3.0	2.0	18.5	1.21
594795	804	1013	2.8	99*	2.0	1.5	2.5	2.0	3.0	10.1	1.40
594798	804	1015	3.3	97	1.5	2.0*	3.0	2.0	2.0	12.1	1.21*
594799A	728	1005	3.0	84	1.0	1.0	1.5	2.8	3.0	12.6	1.51
594799B	720	926	2.8	78*	1.0	3.0	5.0	3.3	2.5	18.1	1.02 [^]
594800	731	1019	2.5	98	2.0	1.0	1.0	3.0	2.5	16.9	1.24 [^]
594801A	806	1017	3.0	78	1.5	1.0	1.0	2.3	1.5	10.0	1.12
594801B	806	1017	2.8	110*	2.0	1.0	1.5	2.3	2.0	8.7	1.13
594802A	802	1015*	2.3	102	1.0	1.0	1.0	2.5	3.0	14.2	1.39
594802B	803	1017	3.5	87	1.5	2.0*	2.5	2.3	2.0	11.2	1.21
594804	804	1013	2.8	100	1.5	1.0	1.5	2.0	3.0	10.1	1.13
594807A	802	1006	3.3	102*	1.0	1.5	2.5	2.5	3.0	10.5	1.87*

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594646	IV	45.4	14.1	9.4	4.2	19.6	57.2	9.6
594648A	IV	44.6 ^w	14.4 ^w	12.2	3.2	20.9	56.2	7.4
594648B	IV	43.6	14.4	10.1	3.7	21.8	57.3	7.0
594649	IV	43.4	15.0	10.0	4.5	20.2	56.5	8.8
594650A	IV	43.8	14.9	9.5	4.9	22.7	54.5	8.1
594650B	V	43.3	14.3	8.9	3.5	19.3	59.3	9.0
594651	V	44.7	14.2	8.6	3.6	19.8	58.4	9.6
594670A	IV	44.5	15.2	10.2	4.4	22.4	54.9	8.0
594670B	IV	44.3	14.6	9.4	4.0	24.8	53.1	8.7
594676	IV	43.3	14.7	10.0	3.7	20.2	56.6	9.5
594682A	IV	47.5 ^w	15.6 ^w	11.3	3.8	24.6	53.8	6.6
594685A	III	46.2	13.9	10.4	4.4	19.7	56.5	8.9
594685B	IV	47.5 ^w	13.6 ^w	12.3	3.6	20.7	54.2	9.0
594687	IV	42.2	15.1	9.9	4.0	23.0	54.8	8.3
594689	III	44.6 ^w	14.9 ^w	9.5	3.9	22.8	55.9	7.9
594690A	IV	43.1	15.2	11.0	3.9	22.0	53.7	9.4
594691	IV	45.0	14.6	11.4	3.8	26.1	51.7	7.0
594692	IV	43.8	16.8	10.6	3.6	25.5	53.7	6.6
594693A	IV	45.5	14.3	10.4	3.9	23.4	54.5	7.8
594693B	IV	42.7	15.0	10.2	3.6	22.3	54.8	9.0
594695	IV	43.8	15.9	10.8	3.8	25.5	53.0	6.9
594696A	IV	45.9 ^w	14.1 ^w	12.9	3.8	22.9	52.5	7.9
594696B	IV	46.0 ^w	13.8 ^w	12.5	3.7	24.2	51.8	7.8
594708A	IV	46.6 ^w	13.1 ^w	12.7	3.8	20.4	53.7	9.4
594708B	IV	46.0 ^w	14.1 ^w	12.3	3.7	21.2	53.8	8.9
594710	IV	41.2 ^w	15.9 ^w	11.3	3.1	22.0	55.7	7.9
594712	IV	42.5 ^w	14.8 ^w	10.9	3.4	20.4	56.9	8.4
594713	IV	47.0 ^w	13.1 ^w	12.5	3.7	19.6	54.4	9.8
594714	III	45.1 ^w	17.1 ^w	10.6	3.7	30.4	48.4	6.9
594777	IV	42.0	16.7	10.4	3.0	25.3	52.3	9.0
594778	III	47.1 ^w	15.9 ^w	11.1	3.8	21.8	55.1	8.4
594779	IV	43.2	15.1	11.2	2.7	18.6	59.3	8.3
594780	IV	45.8	15.9	10.2	2.7	22.1	57.4	7.5
594790A	IV	42.3	16.5	10.2	3.7	29.6	49.7	6.8
594791	IV	43.1	16.9	10.0	3.7	27.2	51.5	7.6
594792A	V	43.8 ^w	15.8 ^w	11.2	4.0	21.2	53.8	9.8
594795	IV	45.1	14.5	11.1	3.3	18.7	58.0	9.0
594798	IV	44.1	16.9	9.8	4.0	29.7	50.0	6.4
594799A	IV	42.3	16.3	10.2	4.2	22.6	56.2	6.7
594799B	III	44.7	16.8	10.9	3.7	23.2	55.2	7.0
594800	IV	46.2	14.1	11.4	3.4	21.5	55.0	8.7
594801A	IV	45.3 ^w	14.8 ^w	10.3	3.8	22.1	54.5	9.3
594801B	IV	45.0 ^w	14.6 ^w	11.3	3.6	21.8	54.3	9.0
594802A	IV	43.8	16.2	9.5	3.7	27.4	52.2	7.1
594802B	IV	42.2	17.6	10.1	3.8	26.8	52.2	7.1
594804	IV	44.0	15.2	10.0	3.9	23.0	56.0	7.1
594807A	IV	41.7	15.9	10.3	4.2	21.6	55.8	8.1

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
594807B	(Huang dou)	Yunnan	China	China	1996	IV
594817	Liu yue huang	Yunnan	China	China	1996	III
594818	Bai mao zi qi yue huang	Yunnan	China	China	1996	III
594819	Qi yue huang	Yunnan	China	China	1996	IV
594821A	Xi la dou	Yunnan	China	China	1996	IV
594821B	(Xi la dou)	Yunnan	China	China	1996	IV
594823	Bai huang dou	Yunnan	China	China	1996	IV
594845	Xiao hei dou	Yunnan	China	China	1996	IV
594853	Song zi dou	Yunnan	China	China	1996	IV
594859	Zao huang dou	Yunnan	China	China	1996	IV
594861	Da lu dou	Yunnan	China	China	1996	III
594871	Hou zi dou	Yunnan	China	China	1996	III
594872	Bao shan da dou	Yunnan	China	China	1996	IV
594873	Hu pi huang dou	Yunnan	China	China	1996	IV
594878	Xiao hong dou	Yunnan	China	China	1996	III
594882A	Hei da dou	Yunnan	China	China	1996	III
594882B	(Hei da dou)	Yunnan	China	China	1996	IV
594883	De hong xuan No. 8	Yunnan	China	China	1996	IV
594885A	Song zi dou	Yunnan	China	China	1996	V
594886	Zao huang dou	Yunnan	China	China	1996	IV
594889	Yang dou	Yunnan	China	China	1996	IV
594899A	Tia jia bai qi	Liaoning	China	China	1996	III
594899B	(Tia jia bai qi)	Liaoning	China	China	1996	III
594900A	Pei xian hong mao you	Jiangsu	China	China	1996	III
594900B	(Pei xian hong mao you)	Jiangsu	China	China	1996	IV
594901	Pei xian da bai jiao	Jiangsu	China	China	1996	IV
594902	Wu xi liu yue ku	Jiangsu	China	China	1996	I
597397A	Lan'	Krasnodar	Russia	Ukraine	1996	I
597397B	(Lan')	Krasnodar	Russia	Ukraine	1996	I
597404	Krasnodar 568-89	Krasnodar	Russia	Ukraine	1996	I
597405B	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597405C	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597405D	(Zaporozhie 46-96)	Zaporizhzhya	Ukraine	Ukraine	1996	I
597406	502	Sichuan	China	China	1996	I
597407A	Hefen 22	Sichuan	China	China	1996	I
597407B	(Hefen 22)	Sichuan	China	China	1996	I
597408	Heilong No. 2	Heilongjiang	China	China	1996	II
597409	Helong 26	Heilongjiang	China	China	1996	I
597411A	Jilin 26	Jilin	China	China	1996	I
597411B	(Jilin 26)	Jilin	China	China	1996	II
597412	L3-1	Sichuan	China	China	1996	II
597413	L3-2	Sichuan	China	China	1996	II
597415	Dong nong 42	Heilongjiang	China	China	1995	I
597419	He feng 871004	Heilongjiang	China	China	1995	I
597420	He feng 91239	Heilongjiang	China	China	1995	I
597421	He feng 91342	Heilongjiang	China	China	1995	I
597427A	Gang 84-62-19	Heilongjiang	China	China	1995	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
594807B	IV	D	W	Lt	Sa	Ssp	Tn	I	Y	Br		3N
594817	III	D	W	T	E	N	Br	I	Y	Br		3N
594818	III	D	W	T	E	N	Br	I	Y	Br		4N
594819	IV	D	P	T	A	Ssp	Br	I	Y	Bl	Vhil	2N
594821A	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
594821B	IV	D	W	T	A	N	Tn	I	Y	Brbl	Vhil	3N
594823	IV	D	W	T	E	N	Br	I	Y	Brbl	Vhil	3N
594845	IV	D	P	T	A	N	Bl	I	Bl	Bl		3N
594853	IV	D	W	T	E	Ssp	Br	Lb	Br	Rbr	Sdef	3N
594859	IV	D	W	T	E	Ssp	Br	Lb	Br	Rbr	Sdef	4N
594861	III	D	W	T	E	Ssp	Br	Lb	Br	Rbr		3N
594871	III	D	P	T	A	N	Br	Lb	Gnbr	Rbr		2N
594872	IV	S	P	T	E	Ssp	Br	I	Br	Rbr		4N
594873	IV	S	P	T	Sa	N	Br	I	Rbr	Rbr	Sdef	3N
594878	III	D	W	T	A	N	Br	I	Rbr	Rbr		2N
594882A	III	S	W	T	E	N	Br	Lb	Br	Rbr		3N
594882B	IV	D	W	T	E	Ssp	Br	Lb	Br	Rbr		4N
594883	IV	S	P	T	Sa	N	Br	I	Rbr	Rbr	Sdef	3N
594885A	V	D	W	T	Sa	N	Bl	I	Rbr	Rbr		3N
594886	IV	D	P	T	A	N	Br	I	Gnbr	Rbr	St	3F
594889	IV	D	P	T	E	N	Br	D	Br	Rbr	St	3F
594899A	III	D	W	T	E	N	Br	I	Y	Br		3N
594899B	III	D	W	T	E	N	Br	I	Y	Br	Vhil	3N
594900A	III	N	P	T	A	N	Tn	I	Y	Br		3N
594900B	IV	N	P	G	Sa	N	Tn	I	Y	Bf		3N
594901	IV	N	W	G	A	N	Tn	D	Y	Bf	Sabh	3N
594902	I	D	P	G	Sa	N	Br	I	Gn	Bf		3F
597397A	I	N	W	G	E	N	Tn	D	Y	Y		2N
597397B	I	S	P	G	E	N	Tn	I	Y	Bf		2N
597404	I	N	W	T	E	N	Tn	I	Y	Br		2N
597405B	I	N	P	T	E	N	Dbr	I	Y	Br		2N
597405C	I	N	W	T	E	N	Tn	D	Y	Br		2N
597405D	I	N	P	T	E	N	Br	I	Y	Dbr	Abh	3N
597406	I	N	P	T	E	N	Br	I	Gnbr	Rbr		5F
597407A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	1N
597407B	I	N	W	G	E	Ssp	Br	I	Y	Y		2N
597408	II	D	P	G	E	N	Br	I	Y	Y	Sdef	2N
597409	I	S	W	G	E	N	Br	I	Y	Y	Na	2N
597411A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	1N
597411B	II	N	P	G	E	Ssp	Tn	I	Y	Y		3N
597412	II	N	P	G	E	N	Tn	I	Y	Y		2N
597413	II	N	P	G	E	N	Tn	I	Y	Y		2N
597415	I	N	P	G	E	Ssp	Tn	I	Y	Y		3N
597419	I	S	W	G	E	Ssp	Br	D	Y	Y	Na	2N
597420	I	D	W	G	E	Ssp	Br	D	Y	Y		2N
597421	I	D	W	G	E	N	Br	I	Y	Y		3N
597427A	I	D	W	G	E	Ssp	Br	D	Y	Y	Na	2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
594807B	729	1007	2.5	96	1.0	1.5	2.5	2.5	3.5	11.4	1.66
594817	723	927	2.0	73*	1.0	1.5	1.5	2.3	3.0*	16.8	2.07
594818	719	927	1.3	82*	1.0	1.0	2.5	2.3	3.0*	17.3	1.81
594819	804	1009	2.3	109	1.0	1.0	2.0	2.5	2.0	9.8	1.56
594821A	804	1006	3.0	83	1.0	1.0	1.0	2.5	2.5	8.4	1.52
594821B	804	1003	2.3	83	1.0	1.0	1.5	2.3	2.0	6.7	0.99
594823	806	1017	3.3	102	1.5	1.0	1.0	2.3	2.0	9.2	1.31
594845	802	1015	3.0	74*	1.0	1.0	1.5	2.5	--	9.5	1.20
594853	727	1010	2.8	80	1.0	1.5	3.0*	2.8	--	14.0	1.39*
594859	727	1011	3.0	97*	1.0	1.5	3.0*	2.8	--	14.8	1.34
594861	725	1001	3.0	75*	1.0	2.0	4.5	3.0	--	13.9	1.69
594871	728	929	3.0	93	1.0	1.5	1.5	3.0	--	15.5	1.57
594872	805	1010	3.5	124*	2.0	1.0	2.0	2.8	--	12.8	1.70*
594873	808	1017	3.3	119*	2.0	1.0	2.0	2.8	--	14.3	0.86*
594878	725	1001	3.0	65	1.0	1.0	1.5	3.0	--	16.3*	1.19*
594882A	729	929	2.8	78	2.0	2.5	3.5	3.0	--	11.6	0.59
594882B	725	1015	3.0	88	1.0	2.0*	2.5	3.0	--	14.1	1.31*
594883	808	1015	3.0	104*	2.0	1.0	1.5	2.5	--	14.9	0.98*
594885A	805	1028	3.3	102*	1.0	1.0	1.5	2.5	--	9.3	1.35
594886	729	1009	1.8	72	1.0	1.0	1.5	2.8	--	10.8	1.31
594889	802	1011	2.8	94*	1.5	1.0	1.5	3.0	--	9.8	1.04
594899A	717	918	1.8	65	1.0	1.0	1.5	2.8	1.5	15.1	2.47
594899B	719	927	2.3	80	1.0	1.5	3.5	2.8	2.0	16.5	2.23*
594900A	721	917	3.0	101*	3.0	1.0	3.5	2.3	2.0	11.3	2.01*
594900B	727	1001	2.3	113	3.0	2.0	4.5	2.3	2.5	12.5	2.20
594901	804	1001	3.5	104	3.0	1.0	1.0	2.5	2.5	13.4	1.93
594902	715	830	2.3	49	1.0	2.0*	5.0	2.0	1.0	16.6	1.59
597397A	619	820	1.0^	59*	3.0^	1.0^	1.0^	1.5^	1.0	13.3^	2.76^
597397B	625	825	2.0^	70*	3.0^	1.0^	1.0^	2.0^	1.0	11.9^	3.06^
597404	622	821	2.0^	64*	3.0^	1.0^	1.0^	2.0^	1.0	11.2^	2.55^
597405B	623	822	3.5^	62*	3.0^	1.0^	2.0^	2.0^	1.0	12.9^	3.11^
597405C	623	828	2.0^	76*	3.0^	1.0^	1.0^	2.0^	1.0	11.7^	3.03^
597405D	623	820	3.0^	67*	3.0^	1.0^	1.0^	3.0^	1.0	10.8^	2.23^
597406	709*	907^	3.5^	113	4.0^	1.0^	2.0^	2.5^	--	9.2^	1.84^
597407A	627	831^	1.0^	63*	3.0^	1.0^	1.0^	3.5^	1.0	13.4^	2.16^
597407B	624	901^	2.0^	89*	3.0^	1.0^	2.0^	2.0^	1.0	13.9^	2.56^
597408	709*	915	1.8	62	1.0	1.0	3.0	2.5	1.0	19.6	2.45^
597409	621	822	1.5^	61*	3.0^	1.0^	2.0^	3.0^	1.0	13.0^	2.36^
597411A	625	829^	1.5^	67*	3.0^	1.0^	1.0^	3.5^	1.0	14.2^	2.31^
597411B	701*	905	1.3	77	3.0	1.0	2.0*	3.0	1.5	15.6	2.65
597412	701	913	2.0	76	3.0	1.0	1.0	3.0	2.0*	13.6	2.71
597413	630	911	1.5	79	3.0	1.0	1.0	2.8	2.0	12.9	2.34
597415	623	821^	2.5^	69	3.0^	1.0^	1.0^	2.5^	1.0	11.2^	2.46^
597419	622	827^	1.5^	55*	2.0^	1.0^	1.0^	3.5^	1.0	14.5^	2.32^
597420	623	821	1.5^	41	1.0^	1.0^	2.0^	3.0^	1.0	14.6^	2.42^
597421	627	825	1.0^	51*	1.0^	1.0^	2.0^	2.0^	1.0	14.0^	2.07^
597427A	623	827	1.0^	39	1.0^	1.0^	1.0^	2.5^	1.0	14.4^	2.09^

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
594807B	IV	47.3 ^w	15.5 ^w	9.7	3.2	19.3	59.8	7.9
594817	III	46.3 ^w	18.1 ^w	11.1	3.6	25.5	53.4	6.4
594818	III	47.0 ^w	17.6 ^w	11.7	3.6	25.8	52.9	6.0
594819	IV	42.5	15.6	10.5	3.4	21.0	57.5	7.6
594821A	IV	40.0	15.2	9.8	4.4	25.4	53.5	6.9
594821B	IV	41.4	13.9	10.3	4.5	21.2	55.8	8.2
594823	IV	44.3	13.5	11.2	4.0	20.1	56.2	8.5
594845	IV	46.3 ^w	16.9 ^w	11.5	3.7	21.6	55.9	7.3
594853	IV	49.2 ^w	16.3 ^w	11.9	3.2	24.9	53.8	6.2
594859	IV	48.7 ^w	15.3 ^w	12.2	3.1	24.0	54.5	6.2
594861	III	47.9 ^w	16.9 ^w	12.5	3.3	24.0	53.7	6.5
594871	III	47.1 ^w	15.7 ^w	13.1	4.3	28.0	48.0	6.6
594872	IV	47.2 ^w	16.5 ^w	14.0	3.4	23.4	52.7	6.5
594873	IV	49.7 ^w	13.3 ^w	11.4	3.4	21.7	55.2	8.4
594878	III	47.5 ^w	16.9 ^w	13.3	4.3	27.6	48.6	6.2
594882A	III	48.9 ^w	15.1 ^w	13.2	3.4	22.9	52.8	7.6
594882B	IV	49.0 ^w	15.2 ^w	12.1	3.0	23.5	54.8	6.6
594883	IV	48.6 ^w	14.4 ^w	11.6	3.4	21.8	54.8	8.3
594885A	V	45.7 ^w	16.5 ^w	11.7	3.2	19.7	56.7	8.7
594886	IV	45.2 ^w	13.6 ^w	12.9	3.1	18.4	56.7	8.9
594889	IV	44.2 ^w	16.0 ^w	11.2	3.3	22.9	57.7	4.9
594899A	III	40.9	19.1	10.6	4.3	25.7	52.0	7.4
594899B	III	42.5	18.0	11.6	4.6	25.6	51.1	7.1
594900A	III	43.9	17.5	9.6	4.9	28.7	50.2	6.6
594900B	IV	42.5	16.2	9.9	4.3	27.3	50.5	8.1
594901	IV	42.4	17.8	9.3	4.2	28.7	51.4	6.4
594902	I	46.4 ^w	16.4 ^w	13.7	4.3	28.7	46.9	6.3
597397A	I	37.4 [^]	23.0 [^]	12.1 [^]	3.7 [^]	24.9 [^]	53.2 [^]	6.0 [^]
597397B	I	39.5 [^]	21.7 [^]	13.2 [^]	3.9 [^]	28.6 [^]	48.8 [^]	5.5 [^]
597404	I	39.4 [^]	20.8 [^]	13.4 [^]	3.9 [^]	22.2 [^]	54.0 [^]	6.5 [^]
597405B	I	40.2 [^]	22.6 [^]	13.4 [^]	4.0 [^]	30.9 [^]	46.8 [^]	4.9 [^]
597405C	I	39.5 [^]	21.9 [^]	13.3 [^]	4.6 [^]	27.4 [^]	50.0 [^]	4.8 [^]
597405D	I	41.2 [^]	22.9 [^]	12.5 [^]	4.5 [^]	29.5 [^]	47.7 [^]	5.8 [^]
597406	I	49.9 ^{w^}	16.5 ^{w^}	12.9 [^]	3.6 [^]	21.5 [^]	54.5 [^]	7.5 [^]
597407A	I	39.4 [^]	21.0 [^]	11.4 [^]	4.7 [^]	33.9 [^]	45.3 [^]	4.7 [^]
597407B	I	40.6 [^]	18.8 [^]	11.6 [^]	4.6 [^]	28.6 [^]	49.2 [^]	6.0 [^]
597408	II	40.8	19.5	12.7	3.6	27.5	49.5	6.7
597409	I	40.1 [^]	20.6 [^]	12.2 [^]	5.2 [^]	26.6 [^]	49.6 [^]	6.4 [^]
597411A	I	39.9 [^]	19.3 [^]	11.7 [^]	5.4 [^]	30.5 [^]	47.2 [^]	5.3 [^]
597411B	II	42.9	17.4	12.8	4.2	25.4	50.4	7.1
597412	II	41.3	19.0	12.6	4.7	28.0	47.1	7.6
597413	II	41.0	19.7	12.6	4.8	32.5	43.6	6.5
597415	I	39.0 [^]	21.0 [^]	11.4 [^]	3.7 [^]	24.7 [^]	53.8 [^]	6.4 [^]
597419	I	39.1 [^]	21.1 [^]	12.2 [^]	3.7 [^]	31.2 [^]	47.6 [^]	5.2 [^]
597420	I	40.3 [^]	21.0 [^]	13.0 [^]	3.7 [^]	26.0 [^]	51.1 [^]	6.2 [^]
597421	I	40.9 [^]	21.1 [^]	11.8 [^]	4.8 [^]	24.1 [^]	52.7 [^]	6.6 [^]
597427A	I	40.3 [^]	21.0 [^]	12.2 [^]	3.9 [^]	26.4 [^]	51.2 [^]	6.3 [^]

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
597427B	(Gang 84-62-19)	Heilongjiang	China	China	1995	I
597429	Gang 8827-4	Heilongjiang	China	China	1995	I
597432	Gang 8819-3-16	Heilongjiang	China	China	1995	I
597439	Hei nong 38	Heilongjiang	China	China	1995	I
597440A	Hei nong 39	Heilongjiang	China	China	1995	I
597440B	(Hei nong 39)	Heilongjiang	China	China	1995	I
597440C	(Hei nong 39)	Heilongjiang	China	China	1995	I
597441	NEAU 40727	Heilongjiang	China	China	1995	II
597442	NEAU 785	Heilongjiang	China	China	1995	0
597443	NEAU 9142	Heilongjiang	China	China	1995	I
597444	NEAU 91212	Heilongjiang	China	China	1995	I
597445	NEAU 9243	Heilongjiang	China	China	1995	I
597446	DN 104	Heilongjiang	China	China	1995	I
597464	Zhe chun No. 3	Zhejiang	China	China	1996	II
597474	Hwanggeumkong	unknown	South Korea	South Korea	1997	IV
597475A	Namcheonkong	unknown	South Korea	South Korea	1997	IV
597475B	(Namcheonkong)	unknown	South Korea	South Korea	1997	IV
597477	Baegunkong	unknown	South Korea	South Korea	1997	IV
597478A	Paldalkong	unknown	South Korea	South Korea	1997	III
597478B	(Paldalkong)	unknown	South Korea	South Korea	1997	III
597479	Bokwangkong	unknown	South Korea	South Korea	1997	IV
597480A	Namhaekong	unknown	South Korea	South Korea	1997	IV
597480B	(Namhaekong)	unknown	South Korea	South Korea	1997	IV
597481	Jangsukong	unknown	South Korea	South Korea	1997	IV
597482	Sinpaldalkong	unknown	South Korea	South Korea	1997	III
597483	Keunolkong	unknown	South Korea	South Korea	1997	IV
597484	Bukwangkong	unknown	South Korea	South Korea	1997	IV
597485	Keomjeongkong 1	unknown	South Korea	South Korea	1997	IV
597486	Kwangankong	unknown	South Korea	South Korea	1997	IV
597487	Hwaseongputkong	Kyonggi	South Korea	South Korea	1997	I
599509		Xinjiang	China	China	1995	III
602490	Liao dou No. 9	Liaoning	China	China	1997	II
602491	Liao dou 11	Liaoning	China	China	1997	III
602492	Liao dou 12	Liaoning	China	China	1997	III
602497A	Ke shan si li jia	Heilongjiang	China	China	1996	I
602498	Xiao jin huang	Jilin	China	China	1996	I
602499	Tie jia huang	Shandong	China	China	1996	III
602500A	Tong shan tian er dan	Jiangsu	China	China	1996	IV
602500B	(Tong shan tian er dan)	Jiangsu	China	China	1996	IV
602501	Tong shan tian er dan	Jiangsu	China	China	1996	IV
602502A	Xiong yue xiao huang dou	unknown	China	China	1996	III
602502B	(Xiong yue xiao huang dou)	unknown	China	China	1996	IV
602993	Pi xian ruan tiao zhi	Jiangsu	China	China	1998	IV
603148	Oh won No. 1	unknown	North Korea	North Korea	1997	I
603155		unknown	North Korea	North Korea	1997	IV
603156		unknown	North Korea	North Korea	1997	IV
603157		unknown	North Korea	North Korea	1997	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
597427B	I	S	P	G	E	N	Br	D	Y	Bf	Na, Vhil	2N
597429	I	D	P	G	E	Ssp	Br	D	Y	Y	Na	2N
597432	I	D	P	G	E	N	Br	I	Y	Y		3N
597439	I	D	W	G	E	N	Br	D	Y	Y		3N
597440A	I	D	W	G	E	Ssp	Br	I	Y	Y		3N
597440B	I	D	P	G	E	N	Br	I	Y	Y		2N
597440C	I	D	W	G	E	N	Br	I	Y	Y		3N
597441	II	S	P	G	E	N	Br	I	Y	Y	Na	3N
597442	0	D	W	G	E	N	Br	D	Y	Bf	Na	2R
597443	I	N	P	G	E	Ssp	Br	D	Y	Y	Na	2N
597444	I	D	W	G	E	Ssp	Br	I	Y	Y		3N
597445	I	D	W	G	E	Ssp	Br	D	Y	Y		2N
597446	I	S	P	G	E	N	Tn	I	Y	Y	Na	2N
597464	II	D	W	Lt	Sa	N	Br	I	Y	Bl		4N
597474	IV	D	P	G	Sa	N	Dbr	I	Y	Y		2N
597475A	IV	D	P	G	A	Ssp	Br	I	Y	Bf		3N
597475B	IV	D	P	G	A	Ssp	Br	I	Y	Bf		2N
597477	IV	D	P	G	E	N	Br	D	Y	Bf		2N
597478A	III	D	P	T	Sa	N	Br	I	Lgn	Bl		4N
597478B	III	D	P	T	Sa	N	Tn	I	G	Bl		4N
597479	IV	D	P	G	E	N	Br	I	Y	Y	Na	2N
597480A	IV	D	W	T	Sa	N	Tn	D	Y	Br		2N
597480B	IV	D	W	T	Sa	N	Tn	D	Y	Brbl	Vhil	2N
597481	IV	N	P	G	E	N	Tn	I	Y	Bf		3N
597482	III	D	W	T	E	N	Tn	I	Y	Bl		3N
597483	IV	D	P	G	E	Ssp	Br	I	Y	Y		2N
597484	IV	D	W	G	Sa	N	Br	D	Y	Bf		2N
597485	IV	D	W	Lt	E	N	Br	I	Bl	Bl		2N
597486	IV	D	P	G	Sa	N	Tn	I	Y	Ib		3N
597487	I	D	W	G	A	N	Tn	I	Y	Bf		2N
599509	III	N	P	G	E	Ssp	Tn	D	Y	Bf		4N
602490	II	D	W	Lt	E	N	Br	S	Y	Y		3N
602491	III	N	P	G	E	Ssp	Tn	I	Y	Y	Sdef	3N
602492	III	N	P	G	E	N	Tn	I	Y	Ib	Sdef	3N
602497A	I	N	P	G	E	Ssp	Br	I	Y	Y	Na	2N
602498	I	N	W	G	E	N	Dbr	I	Y	Y	Vhil	2N
602499	III	D	P	G	A	N	Br	I	Y	Bf		3N
602500A	IV	N	P	G	Sa	N	Br	D	Y	Ib	Vhil	3N
602500B	IV	N	P	G	E	N	Br	D	Y	Ib	Vhil	3N
602501	IV	N	P	G	Sa	N	Br	I	Y	Bf		3N
602502A	III	D	W	G	E	N	Bl	D	Y	Y		2N
602502B	IV	N	P	G	E	N	Bl	D	Y	Y		2N
602993	IV	N	W	G	Sa	Ssp	Br	I	Y	Bf	Vhil	4N
603148	I	D	P	T	E	Ssp	Br	I	Y	Br		2N
603155	IV	N	W	T	E	Ssp	Bl	D	Gn	Br		3N
603156	IV	D	W	G	Sa	Ssp	Bl	D	Gn	Bf		3N
603157	IV	D	W	T	Sa	Ssp	Bl	I	Gn	Br		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
597427B	623	826	1.5^	59	2.0^	1.0^	2.0^	2.0^	1.0	12.9^	-
597429	623	825	1.0^	33	1.0^	1.0^	1.0^	3.5^	1.0	14.2^	2.06^
597432	623	820^	1.0^	37*	1.0^	1.0^	1.0^	2.0^	1.0	14.1^	2.22^
597439	627	825^	1.0^	41*	1.0^	1.0^	4.0^	3.0^	1.0	12.4^	1.41^
597440A	623	822	2.0^	59*	2.0^	1.0^	1.0^	3.5^	1.0	13.8^	2.32^
597440B	623	825^	2.0^	67*	2.0^	1.0^	1.0^	3.5^	1.0	14.5^	3.04^
597440C	626	827^	1.0^	43*	2.0^	1.0^	2.0^	2.5^	1.0	15.0^	2.80^
597441	626*	903	1.5	61	2.0	1.0	1.0	3.3	1.0	17.6	2.08
597442	621	819	1.5^	47*	1.0^	1.0^	1.0^	2.0^	1.0	15.3^	2.35^
597443	621	825	1.0^	63	3.0^	1.0^	1.0^	3.5^	1.0	17.7^	2.51^
597444	623	822^	1.5^	62	2.0^	1.0^	2.0^	2.0^	1.0	16.4^	2.81^
597445	623	825^	1.0^	46*	1.0^	1.0^	1.0^	2.0^	1.0	15.4^	2.54^
597446	623	825^	1.0^	47	1.0^	1.0^	1.0^	2.0^	1.0	13.5^	2.63^
597464	717	906	1.8	46*	1.0	1.0	4.0	2.5	1.0	13.5	1.02*
597474	720	1004	2.3	62	1.0	1.0	1.0	2.3	2.0	22.2	3.26
597475A	719	929	2.0	57	1.0	2.0	3.5	2.3	1.0	14.5	2.03
597475B	719	1005	2.0	56	1.0	1.0	2.0*	2.0	1.0	14.1	2.30
597477	726	1017	1.8	82	1.0	1.0	1.0	2.0	1.0	16.9	2.95
597478A	711	924	1.3	52	1.0	1.0	1.5	2.3	2.0	12.2	2.44*
597478B	711	926	1.0	50	1.0	1.0	1.0	2.0	2.5	12.0	3.23*
597479	724	1003	1.8	62	1.0	2.0	3.5	2.5	3.0	22.7	1.84^
597480A	725	1002	2.0	80	1.0	1.0	1.0	2.8	1.5	12.4	2.89*
597480B	725	1003	1.8	76*	1.0	1.0	1.0	2.8	1.5	12.2	2.53
597481	724	1015	2.0	111	3.0	1.0	1.5	2.5	1.0	20.6	2.76
597482	709	927	1.0	54	1.0	1.0	1.0	2.5	1.0	16.0	3.26*
597483	725	1011	1.3	60	1.0	1.0	1.0	2.0	2.5	18.3	2.84*
597484	727	1005	1.8	67	1.0	1.0	1.0	2.8	1.0	11.9	2.45*
597485	723	1012	3.3	70	1.0	1.5	2.5	2.3	--	23.9	2.46*
597486	728	1015	2.0	85	1.0	1.0	1.0	2.5	1.5	11.4	3.05
597487	702	823^	1.0^	39	1.0^	1.0^	5.0^	2.0^	1.0	20.1^	1.69^
599509	720	917	3.3*	109*	4.0	1.0	1.0	2.5	3.0	8.8	1.62*
602490	711	919	1.3	55	1.0	1.5	3.5	2.8	1.0	20.8	3.07
602491	705	925	2.3	98	3.0	1.0	1.5	3.0	3.5	19.8	2.30
602492	709*	919	2.0	87	3.0	1.0	1.5	3.8	1.0	19.4	2.88
602497A	623	820^	2.0^	44*	3.0^	1.0^	4.0^	3.0^	1.0	17.8^	2.21^
602498	625	827^	2.0^	68*	3.0^	1.0^	1.0^	2.0^	1.0	15.2^	2.52^
602499	726	926	4.0	108*	1.0	1.0	1.0	2.8	3.0*	13.4	1.81
602500A	802	1007	3.3	102	4.0	1.5	3.5	2.5	1.0	19.4	2.06
602500B	804	1009	3.5	106	4.0	1.5	2.5	3.0	1.0	19.1	1.86
602501	725	1013	3.0	90	3.0*	1.5	2.0	3.0	2.0	14.2	2.44
602502A	723	929	2.5	97*	1.0	1.0	1.5	2.8	4.0*	11.3	2.10
602502B	723	1002	2.3	97	3.0	1.5	2.5	3.0	3.0	12.1	2.06
602993	725	1005	3.8	136	4.0	1.0	2.5	3.0	2.0	11.7	1.93
603148	627	822^	1.0^	46	1.0^	1.0^	5.0^	2.0^	1.0	22.7^	1.75^
603155	721	1019	2.3	108	3.5	1.0	1.5	2.5	3.0	14.1	1.74
603156	731	1017	2.3	86	1.0	1.0	1.0	2.3	3.0	11.3	2.44
603157	729	1018	2.8	110*	1.5	1.0	1.0	2.5	3.0	10.1	2.11

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
597427B	I	43.2 [^]	19.0 [^]	13.0 [^]	4.4 [^]	23.3 [^]	53.0 [^]	6.3 [^]
597429	I	38.1 [^]	21.2 [^]	11.6 [^]	3.6 [^]	29.0 [^]	50.8 [^]	5.1 [^]
597432	I	38.3 [^]	23.1 [^]	10.8 [^]	4.1 [^]	31.3 [^]	49.0 [^]	4.9 [^]
597439	I	37.2 [^]	23.2 [^]	11.7 [^]	4.2 [^]	27.5 [^]	50.9 [^]	5.7 [^]
597440A	I	41.2 [^]	22.6 [^]	11.3 [^]	4.6 [^]	31.6 [^]	47.6 [^]	4.9 [^]
597440B	I	40.3 [^]	19.2 [^]	11.9 [^]	4.1 [^]	31.7 [^]	45.1 [^]	7.2 [^]
597440C	I	37.0 [^]	23.1 [^]	10.5 [^]	4.5 [^]	30.9 [^]	49.3 [^]	4.8 [^]
597441	II	42.2	19.2	11.0	4.0	31.9	47.1	6.0
597442	0	40.2 [^]	22.9 [^]	13.0 [^]	5.0 [^]	23.6 [^]	52.5 [^]	5.9 [^]
597443	I	40.7 [^]	20.4 [^]	12.6 [^]	4.3 [^]	25.3 [^]	51.1 [^]	6.6 [^]
597444	I	38.5 [^]	22.5 [^]	12.7 [^]	4.5 [^]	27.0 [^]	50.3 [^]	5.6 [^]
597445	I	40.1 [^]	22.4 [^]	12.8 [^]	3.8 [^]	28.1 [^]	49.9 [^]	5.5 [^]
597446	I	37.6 [^]	22.1 [^]	13.1 [^]	4.6 [^]	25.5 [^]	50.3 [^]	6.5 [^]
597464	II	44.9	16.9	12.5	4.3	23.0	53.3	6.9
597474	IV	40.5	18.2	9.1	3.0	21.7	57.6	8.7
597475A	IV	42.0	16.9	9.1	3.7	25.7	54.2	7.2
597475B	IV	41.8	16.3	9.3	3.4	24.0	54.8	8.5
597477	IV	42.9 ^w	17.5 ^w	11.9	3.6	20.7	56.7	7.2
597478A	III	43.7 ^w	17.0 ^w	13.3	5.0	24.4	50.3	6.9
597478B	III	42.6 ^w	16.9 ^w	11.4	3.6	23.6	54.4	7.0
597479	IV	40.6	17.2	9.7	4.0	25.3	54.2	6.7
597480A	IV	44.2	17.4	10.9	4.2	21.1	56.1	7.6
597480B	IV	44.7	17.5	11.0	4.7	21.6	55.1	7.6
597481	IV	44.1	17.6	10.2	3.3	23.0	56.8	6.7
597482	III	39.6	20.9	9.6	3.7	23.9	56.8	6.1
597483	IV	41.6	17.5	8.8	3.7	25.3	54.8	7.4
597484	IV	43.5	17.2	11.4	3.5	19.8	57.2	8.1
597485	IV	45.7 ^w	17.9 ^w	12.7	3.5	23.3	53.0	7.4
597486	IV	48.3	15.3	11.3	4.7	29.6	46.1	8.2
597487	I	44.8 [^]	18.8 [^]	13.9 [^]	3.2 [^]	30.2 [^]	47.5 [^]	5.2 [^]
599509	III	44.2	15.7	11.0	4.6	25.8	51.5	7.1
602490	II	41.9	18.7	10.4	4.6	31.7	47.2	6.0
602491	III	43.6 ^w	18.8 ^w	12.6	4.2	33.9	43.0	6.3
602492	III	41.7	18.5	10.6	4.4	25.6	52.2	7.1
602497A	I	43.2 [^]	20.6 [^]	12.2 [^]	4.2 [^]	28.1 [^]	49.9 [^]	5.7 [^]
602498	I	40.7 [^]	21.3 [^]	11.3 [^]	4.7 [^]	32.3 [^]	46.0 [^]	5.7 [^]
602499	III	48.9 ^w	16.0 ^w	10.4	3.8	25.6	53.3	6.9
602500A	IV	42.4	17.0	10.4	3.3	25.6	53.7	7.0
602500B	IV	42.9	16.7	10.2	3.9	27.1	51.7	7.1
602501	IV	42.2	17.3	11.6	3.3	22.7	55.2	7.2
602502A	III	47.2 ^w	17.3 ^w	10.6	3.8	24.4	54.3	6.8
602502B	IV	46.3	16.5	11.7	4.4	22.4	54.8	6.6
602993	IV	45.7	15.3	10.7	3.8	21.3	56.0	8.3
603148	I	42.4 [^]	20.6 [^]	11.4 [^]	2.9 [^]	35.5 [^]	44.9 [^]	5.3 [^]
603155	IV	51.5 ^w	14.7 ^w	12.6	3.5	23.5	52.3	8.1
603156	IV	51.1 ^w	14.1 ^w	11.5	3.1	18.7	57.2	9.4
603157	IV	49.6 ^w	15.4 ^w	13.9	3.7	21.8	52.7	7.9

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603158		unknown	North Korea	North Korea	1997	IV
603159		unknown	North Korea	North Korea	1997	IV
603160		unknown	North Korea	North Korea	1997	IV
603162		unknown	North Korea	North Korea	1997	IV
603165A		unknown	North Korea	North Korea	1997	IV
603165B		unknown	North Korea	North Korea	1997	IV
603166		unknown	North Korea	North Korea	1997	IV
603167		unknown	North Korea	North Korea	1997	III
603168		unknown	North Korea	North Korea	1997	V
603170		unknown	North Korea	North Korea	1997	IV
603171		unknown	North Korea	North Korea	1997	IV
603172		unknown	North Korea	North Korea	1997	IV
603174A		unknown	North Korea	North Korea	1997	IV
603174B		unknown	North Korea	North Korea	1997	IV
603175		unknown	North Korea	North Korea	1997	IV
603176A		unknown	North Korea	North Korea	1997	IV
603290	Zao shu 18	Beijing	China	China	1998	I
603293A	Zhao dong 50	Heilongjiang	China	China	1998	I
603293B	(Zhao dong 50)	Heilongjiang	China	China	1998	I
603298	Tang yuan hou ding kui	Heilongjiang	China	China	1998	I
603302	Si li huang	Heilongjiang	China	China	1998	I
603303	Hua dian si li huang	Heilongjiang	China	China	1998	II
603304	Tang yuan tu jia zi	Heilongjiang	China	China	1998	I
603305	Niu moa huang	Heilongjiang	China	China	1998	I
603306	Xun ke xiao yang dou	Heilongjiang	China	China	1998	0
603307	Fu jin si li huang	Heilongjiang	China	China	1998	I
603308A	Niu xin hong	Heilongjiang	China	China	1998	I
603308B	(Niu xin hong)	Heilongjiang	China	China	1998	I
603309	Ning an xiao hei qi	Heilongjiang	China	China	1998	I
603310	Si li huang (Nong 16)	Heilongjiang	China	China	1998	I
603311	Fang zheng bai lu dou	Heilongjiang	China	China	1998	I
603312	Zao dou	Heilongjiang	China	China	1998	I
603315	Si li huang (Nong 27)	Heilongjiang	China	China	1998	I
603321	Xiao hong qi	Heilongjiang	China	China	1998	I
603323	Kui wu dou a	Heilongjiang	China	China	1998	I
603324B	(Da jin huang)	Heilongjiang	China	China	1998	I
603325	Si li huang	Heilongjiang	China	China	1998	I
603327	Xiao huang qi	Heilongjiang	China	China	1998	I
603329	Yi wo feng D	Heilongjiang	China	China	1998	I
603330	Ping ding xiang B	Heilongjiang	China	China	1998	I
603331	Xiao hui qi	Heilongjiang	China	China	1998	I
603332	Xiao he qi No. 2	Heilongjiang	China	China	1998	I
603333	Man di jin	Heilongjiang	China	China	1998	II
603335B	(Hei jin yuan)	Heilongjiang	China	China	1998	II
603336	Qing pi si li huang	Heilongjiang	China	China	1998	II
603337A	Yan shou chang li hei	Heilongjiang	China	China	1998	I
603338	Cha se dou B	Heilongjiang	China	China	1998	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603158	IV	N	P	Lt	Sa	Ssp	Tn	I	Rbr	Rbr	Sdef	3N
603159	IV	D	P	G	E	N	Tn	I	Y	Bf		3N
603160	IV	D	P	G	E	N	Tn	I	Y	Bf		3N
603162	IV	N	W	Lt	E	Ssp	Tn	I	Bl	Bl		4N
603165A	IV	D	W	G	E	Ssp	Tn	D	Y	Y	Vhil	2N
603165B	IV	D	P	G	E	Ssp	Br	I	Y	Y		2N
603166	IV	D	W	G	E	Ssp	Tn	D	Y	Bf		3N
603167	III	D	P	G	E	Ssp	Br	D	Gn	Bf		2N
603168	V	N	P	T	E	Ssp	Tn	I	Bl	Bl		4N
603170	IV	D	P	T	E	Ssp	Tn	I	Rbr	Rbr		2N
603171	IV	N	P	T	Sa	Ssp	Tn	I	Br	Rbr		4F
603172	IV	N	P	T	E	Ssp	Bl	D	Gn	Br		3N
603174A	IV	N	W	Lt	E	N	Tn	I	Bl	Bl		4N
603174B	IV	S	W	T	A	Ssp	Tn	Lb	Bl	Bl		3N
603175	IV	D	P	T	E	N	Br	I	Rbr	Rbr		2N
603176A	IV	N	P	T	Sa	N	Br	Lb	Bl	Bl		4N
603290	I	N	P	G	A	N	Br	D	Y	Y	Vhil	2N
603293A	I	N	W	G	E	N	Br	I	Y	Lbf	Sabh	2N
603293B	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603298	I	D	P	G	E	N	Br	I	Y	G		2N
603302	I	N	W	G	E	N	Br	I	Y	Y	Vhil	3N
603303	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	2N
603304	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603305	I	N	P	T	E	Ssp	Tn	I	Y	Tn		2N
603306	0	N	P	G	E	N	Br	I	Y	Y		3N
603307	I	N	P	T	E	N	Br	I	Y	G		3N
603308A	I	N	P	G	E	N	Br	I	Y	Y		2N
603308B	I	N	P	G	E	N	Br	I	Y	Y		2N
603309	I	S	P	G	E	Ssp	Br	I	Y	Y	Na	2N
603310	I	D	W	G	E	N	Br	I	Y	Y	Na, Vhil	1N
603311	I	S	P	G	E	N	Br	I	Y	Ib		3N
603312	I	S	W	G	E	N	Br	I	Y	Y	Vhil	2N
603315	I	N	W	G	E	N	Br	I	Y	Bf		4N
603321	I	N	W	T	E	N	Br	I	Y	Br		2N
603323	I	D	P	G	E	N	Br	I	Y	Y		3N
603324B	I	N	W	G	E	N	Dbr	I	Y	Y	Sabh, Vhil	2N
603325	I	N	W	G	E	N	Dbr	I	Y	Bf		3N
603327	I	S	P	G	E	N	Dbr	I	Y	Y		3N
603329	I	D	P	G	E	N	Br	I	Y	Y		3N
603330	I	D	P	G	E	N	Br	I	Y	Y		2N
603331	I	D	P	G	E	Ssp	Br	I	Y	G		2N
603332	I	N	P	G	E	Ssp	Br	I	Y	G		3N
603333	II	D	W	G	E	N	Br	I	Y	Lbf		3N
603335B	II	D	W	G	E	N	Br	D	Y	Y		3N
603336	II	D	W	G	E	Ssp	Br	I	Gn	Gn	Na	3N
603337A	I	N	P	Lt	E	Ssp	Br	Lb	Bl	Bl	Flk	4F
603338	I	N	W	T	E	Ssp	Br	I	Br	Br		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
603158	728	1021	3.3	104*	4.0	1.0	1.5	2.8	--	9.9	2.00
603159	802	1017	3.0	84	1.0	1.0	1.0	2.8	2.0	17.8	2.27
603160	804	1015	3.0	84	1.0	1.0	1.0	2.5	2.0	18.1	2.32
603162	724	1015	3.8	123	4.0	1.0	1.5	2.5	--	10.7	2.45
603165A	729	1015	2.5	94	1.0	1.0	1.0	2.3	3.0	12.4	1.69
603165B	730	1015	2.3	94	1.0	1.0	1.0	2.3	3.0	15.6	2.19
603166	727	1013	3.0	80	1.0	1.5	1.5	2.0	2.0	11.8	2.65*
603167	720	923	1.8	73	1.0	1.0	1.0	2.8	2.5	19.2	1.73
603168	802	1023	2.8	111	4.0	1.0	1.0	2.5	--	11.2	2.21
603170	802	1011	2.3	65	1.0	1.0	1.0	2.5	--	8.3	1.66
603171	728	1017	3.0	115	4.0	1.5	2.0	2.0	--	12.5	2.46
603172	730	1015	3.3	129*	4.0	2.5	3.0	2.5	3.0	12.1	1.98
603174A	729	1006	2.5	116*	3.0	1.0	2.5	2.5	--	10.1	2.38
603174B	731	1013	3.5	106	2.0	1.0	1.5	2.3	--	8.8	1.86
603175	725	1002	1.8	59*	1.0	1.0	1.0	2.3	--	7.5	2.05
603176A	726	1019	3.8	126	4.0	1.0	1.5	3.3	--	15.9	1.14
603290	701	903^	1.0^	38*	3.0^	1.0^	1.0^	1.5^	1.0	13.8^	0.56^
603293A	625	827^	2.0^	80*	3.0^	1.0^	1.0^	2.5^	2.0	16.0^	2.10^
603293B	623	822^	1.5^	56*	3.0^	1.0^	2.0^	2.0^	1.0	15.9^	2.69^
603298	623	820^	1.5^	49	3.0^	1.0^	3.0^	2.5^	1.0	17.7^	2.82^
603302	628	901^	2.0^	67*	3.0^	1.0^	2.0^	2.5^	2.0	17.8^	2.60^
603303	629	903	2.8	73	3.0	1.0	2.5	2.8	1.5	13.6	2.26
603304	620	826	1.0^	58*	3.0^	1.0^	1.0^	2.0^	1.0	17.4^	2.40^
603305	625	819^	1.5^	44*	3.0^	1.0^	1.0^	2.0^	1.0	12.4^	2.00^
603306	625	818	2.0^	53	3.0^	1.0^	2.0^	3.5^	1.0	17.2^	2.07^
603307	626	822^	2.0^	64*	3.0^	1.0^	1.0^	3.0^	1.0	13.5^	2.88^
603308A	626	826	1.5^	58*	3.0^	1.0^	1.0^	2.5^	1.0	18.8^	2.96^
603308B	627	825^	3.0^	73*	3.0^	1.0^	1.0^	3.5^	1.0	14.8^	2.93^
603309	625	825^	2.0^	36*	2.0^	1.0^	3.0^	3.0^	1.0	16.8^	-
603310	621	823^	1.0^	37*	1.0^	1.0^	1.0^	2.0^	1.0	13.2^	2.34^
603311	630	826^	3.0^	47*	2.0^	1.0^	1.0^	1.5^	1.0	12.2^	2.89^
603312	623	822	1.5^	47*	2.0^	1.0^	2.0^	4.0^	2.0	16.4^	1.87^
603315	623	824	2.0^	59*	3.0^	1.0^	3.0^	2.5^	1.0	15.3^	2.18^
603321	627	827^	1.5^	69*	3.0^	1.0^	1.0^	2.0^	1.0	15.1^	2.42^
603323	625	824	1.0^	49*	2.0^	1.0^	2.0^	3.0^	1.0	13.4^	2.53^
603324B	623	822^	2.0^	59*	3.0^	1.0^	1.0^	2.5^	1.0	19.3^	3.07^
603325	627	827^	2.0^	64	3.0^	1.0^	1.0^	4.0^	1.0	15.3^	2.11^
603327	701	821^	2.0^	40*	3.0^	1.0^	1.0^	3.0^	1.0	14.0^	2.55^
603329	627	821^	1.0^	40*	1.0^	1.0^	1.0^	2.0^	1.0	12.3^	2.46^
603330	627	825^	1.0^	40*	1.0^	1.0^	2.0^	2.5^	1.0	14.7^	2.51^
603331	701	827^	1.0^	34	1.0^	1.0^	1.0^	1.5^	2.0	11.3^	1.74^
603332	627	826^	2.0^	77*	3.0^	1.0^	1.0^	2.0^	2.0	17.0^	2.06^
603333	713	917	2.0	75	1.0	1.0	1.0	3.0	1.5	18.8	2.90
603335B	627	901	1.0	56	1.0	1.0	4.0*	3.0	1.0	15.9	2.22^
603336	707	907	1.3	57	1.0	1.0	2.5	2.3	2.5	16.1	1.90
603337A	701	825^	1.0^	49*	3.0^	1.0^	4.0^	1.5^	--	8.0^	1.48^
603338	623	826^	1.5^	78*	3.0^	1.0^	1.0^	2.0^	--	13.6^	2.02^

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603158	IV	48.2 ^w	14.3 ^w	13.2	3.9	19.1	56.2	7.6
603159	IV	45.3	16.6	10.3	3.7	22.5	55.9	7.7
603160	IV	46.5	15.8	10.8	3.9	22.4	55.0	7.9
603162	IV	50.2 ^w	14.5 ^w	13.8	3.9	19.0	55.7	7.7
603165A	IV	46.8	15.6	10.5	2.9	21.2	57.3	8.2
603165B	IV	44.9	17.0	9.9	2.9	21.1	58.4	7.7
603166	IV	44.6	15.4	9.8	3.5	19.8	58.0	8.9
603167	III	45.7 ^w	18.2 ^w	12.9	3.2	29.5	47.9	6.5
603168	V	48.5 ^w	14.4 ^w	12.6	3.5	20.9	54.5	8.5
603170	IV	49.6 ^w	12.8 ^w	14.7	4.4	20.6	52.7	7.7
603171	IV	47.9 ^w	13.5 ^w	13.1	3.3	18.6	56.4	8.6
603172	IV	49.8 ^w	17.0 ^w	13.0	3.6	20.9	55.3	7.2
603174A	IV	45.7 ^w	14.8 ^w	11.7	3.4	21.8	55.0	8.1
603174B	IV	47.8 ^w	14.2 ^w	13.3	3.1	18.4	56.0	9.2
603175	IV	48.2 ^w	13.6 ^w	11.8	3.9	24.1	53.0	7.2
603176A	IV	51.2 ^w	14.6 ^w	12.4	3.6	21.8	55.0	7.2
603290	I	38.7 [^]	20.6 [^]	12.4 [^]	4.1 [^]	23.7 [^]	53.3 [^]	6.5 [^]
603293A	I	41.0 [^]	19.5 [^]	12.4 [^]	3.7 [^]	33.6 [^]	45.5 [^]	4.7 [^]
603293B	I	41.5 [^]	19.4 [^]	13.7 [^]	3.9 [^]	21.6 [^]	53.8 [^]	7.0 [^]
603298	I	39.8 [^]	22.1 [^]	11.5 [^]	3.9 [^]	28.8 [^]	50.1 [^]	5.8 [^]
603302	I	42.0 [^]	19.7 [^]	11.2 [^]	4.0 [^]	28.9 [^]	50.3 [^]	5.6 [^]
603303	II	41.0	18.5	13.1	4.1	20.8	53.7	8.3
603304	I	39.1 [^]	21.3 [^]	11.2 [^]	4.5 [^]	26.6 [^]	51.7 [^]	5.9 [^]
603305	I	38.4 [^]	20.8 [^]	11.8 [^]	3.5 [^]	25.8 [^]	52.6 [^]	6.4 [^]
603306	0	42.2 [^]	18.9 [^]	14.3 [^]	3.6 [^]	25.2 [^]	51.2 [^]	5.6 [^]
603307	I	42.8 [^]	20.0 [^]	11.6 [^]	3.7 [^]	22.5 [^]	55.3 [^]	6.9 [^]
603308A	I	40.4 [^]	19.6 [^]	12.1 [^]	4.0 [^]	29.4 [^]	49.2 [^]	5.3 [^]
603308B	I	39.5 [^]	19.3 [^]	11.5 [^]	4.6 [^]	26.7 [^]	51.4 [^]	5.8 [^]
603309	I	42.7 [^]	20.6 [^]	12.2 [^]	4.2 [^]	25.8 [^]	51.6 [^]	6.3 [^]
603310	I	39.7 [^]	19.9 [^]	12.5 [^]	4.0 [^]	25.1 [^]	52.8 [^]	5.6 [^]
603311	I	37.7 [^]	21.1 [^]	12.8 [^]	3.9 [^]	24.9 [^]	51.7 [^]	6.6 [^]
603312	I	40.4 [^]	23.5 [^]	12.3 [^]	4.4 [^]	30.6 [^]	47.8 [^]	4.9 [^]
603315	I	40.0 [^]	21.7 [^]	12.1 [^]	3.8 [^]	34.4 [^]	44.4 [^]	5.3 [^]
603321	I	43.4 [^]	18.4 [^]	12.3 [^]	4.5 [^]	28.4 [^]	49.1 [^]	5.7 [^]
603323	I	40.0 [^]	19.8 [^]	11.9 [^]	4.2 [^]	30.7 [^]	47.9 [^]	5.3 [^]
603324B	I	40.5 [^]	22.1 [^]	11.6 [^]	4.0 [^]	29.6 [^]	49.2 [^]	5.5 [^]
603325	I	39.6 [^]	21.9 [^]	11.1 [^]	4.2 [^]	40.6 [^]	39.3 [^]	4.9 [^]
603327	I	39.2 [^]	22.3 [^]	12.4 [^]	4.6 [^]	37.3 [^]	41.0 [^]	4.7 [^]
603329	I	40.0 [^]	22.0 [^]	11.5 [^]	4.8 [^]	28.9 [^]	48.5 [^]	6.3 [^]
603330	I	42.0 [^]	20.5 [^]	11.0 [^]	4.7 [^]	28.9 [^]	49.2 [^]	6.2 [^]
603331	I	44.8 [^]	17.5 [^]	12.9 [^]	3.5 [^]	24.4 [^]	53.3 [^]	6.0 [^]
603332	I	40.3 [^]	20.7 [^]	12.9 [^]	3.8 [^]	27.7 [^]	49.6 [^]	6.1 [^]
603333	II	41.3	18.7	12.0	3.8	23.9	52.9	7.4
603335B	II	40.4	21.4	11.0	3.9	26.7	51.7	6.7
603336	II	46.9 ^w	15.9 ^w	13.7	3.8	21.1	53.9	7.6
603337A	I	50.3 ^{w^}	14.9 ^{w^}	13.5 [^]	4.1 [^]	24.6 [^]	50.6 [^]	7.3 [^]
603338	I	48.5 ^{w^}	20.6 ^{w^}	11.2 [^]	3.3 [^]	32.8 [^]	47.9 [^]	4.9 [^]

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603339B	(An gua dou)	Heilongjiang	China	China	1998	I
603340	Xiao jin huang No. 2	Jilin	China	China	1998	II
603341	Da bai mei	Jilin	China	China	1998	I
603342	Guo yu B5	Jilin	China	China	1998	I
603344	Ha No. 2	Jilin	China	China	1998	I
603345	Gong jiao 5603-2	Jilin	China	China	1998	II
603347	Si li huang	Jilin	China	China	1998	II
603348A	Si li huang	Jilin	China	China	1998	I
603348B	(Si li huang)	Jilin	China	China	1998	I
603348C	(Si li huang)	Jilin	China	China	1998	II
603349	Da li huang	Jilin	China	China	1998	I
603350	Da li huang	Jilin	China	China	1998	I
603351	Da li huang	Jilin	China	China	1998	I
603352	Xiao jin huang	Jilin	China	China	1998	I
603354	Xiao bai mei	Jilin	China	China	1998	I
603355	Suo yi ling	Jilin	China	China	1998	I
603356	Yi wo feng	Jilin	China	China	1998	I
603357	Du Lu Dou	Jilin	China	China	1998	I
603358A	Hei tie jia	Jilin	China	China	1998	II
603358B	(Hei tie jia)	Jilin	China	China	1998	II
603359	Xiao hei qi	Jilin	China	China	1998	I
603360	Bai lu dou	Jilin	China	China	1998	I
603361	Da bai mei	Jilin	China	China	1998	I
603362	Beng pi	Jilin	China	China	1998	I
603363A	Dong feng jin yuan	Jilin	China	China	1998	II
603363B	(Dong feng jin yuan)	Jilin	China	China	1998	II
603364	Da jin huang	Jilin	China	China	1998	II
603365	Bai hua cuo	Jilin	China	China	1998	II
603366	Huang qi dou	Jilin	China	China	1998	II
603367	Hong mao	Jilin	China	China	1998	I
603368	He mao	Jilin	China	China	1998	II
603369	Hou ding kui	Jilin	China	China	1998	II
603370	Shuang xiao jin huang	Jilin	China	China	1998	II
603371	Tie jia qing	Jilin	China	China	1998	I
603372	Hei pi qing rang	Jilin	China	China	1998	II
603373	Cha se dou	Jilin	China	China	1998	I
603374	Tu yan dou	Jilin	China	China	1998	II
603375	Qian guo jian ye he jia dou	Jilin	China	China	1998	I
603376	Shu lan da ye huang jin ta	Jilin	China	China	1998	I
603377	Jiu tai wu xian bai hua	Jilin	China	China	1998	I
603378A	Yong ji bei jing dou	Jilin	China	China	1998	I
603378B	(Yong ji bei jing dou)	Jilin	China	China	1998	I
603380	Hua dian huang bao zhu	Jilin	China	China	1998	I
603381A	Hui nan da lan qi	Jilin	China	China	1998	II
603381B	(Hui nan da lan qi)	Jilin	China	China	1998	II
603381C	(Hui nan da lan qi)	Jilin	China	China	1998	II
603382A	Hai long feng di huang	Jilin	China	China	1998	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603339B	I	N	W	T	E	N	Br	I	Br	Bl	Sad	3N
603340	II	N	W	G	E	N	Br	S	Y	Bf		4N
603341	I	D	P	G	E	N	Br	I	Y	Y		3N
603342	I	N	W	G	E	N	Br	I	Y	Y	Vhil	2N
603344	I	N	W	G	E	N	Br	I	Y	Y		2N
603345	II	S	W	G	E	N	Br	I	Y	Bf		3N
603347	II	N	W	G	E	N	Br	I	Y	Lbf		2N
603348A	I	S	W	G	E	N	Bl	D	Y	Lbf		2N
603348B	I	N	W	G	E	Ssp	Bl	D	Y	Lbf		1N
603348C	II	N	W	G	E	Ssp	Bl	S	Y	Lbf	Na	2N
603349	I	N	P	G	E	N	Br	I	Y	G		2N
603350	I	S	P	G	E	Ssp	Br	I	Y	Y		1N
603351	I	N	W	G	E	N	Dbr	I	Y	Lbf		3N
603352	I	N	W	G	E	N	Dbr	I	Y	Y	Vhil	2N
603354	I	S	P	G	E	N	Dbr	I	Y	Y		3N
603355	I	D	W	G	E	N	Br	D	Y	Bf		3N
603356	I	D	P	G	E	N	Br	I	Y	Y		3N
603357	I	D	P	G	E	Ssp	Tn	I	Y	Y		2N
603358A	II	N	W	G	E	N	Br	I	Y	Y		3N
603358B	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	3N
603359	I	S	P	G	E	N	Dbr	I	Y	Ib	Vhil	2N
603360	I	N	P	G	E	N	Br	D	Y	Y		2N
603361	I	N	P	G	E	N	Br	D	Y	Y		2N
603362	I	S	W	G	E	N	Dbr	I	Y	Lbf		2N
603363A	II	N	W	G	E	N	Tn	I	Y	Bf		3N
603363B	II	D	W	G	E	N	Dbr	I	Y	Bf		3N
603364	II	N	W	G	E	N	Br	I	Y	Bf		3N
603365	II	N	W	G	E	N	Br	I	Y	Y		2N
603366	II	D	W	G	E	N	Br	S	Y	Y		3N
603367	I	N	W	T	E	Ssp	Bl	I	Y	Tn		3N
603368	II	N	P	T	E	N	Br	I	Y	Tn		3N
603369	II	D	W	G	E	N	Br	I	Y	Bf		3N
603370	II	N	W	G	E	N	Dbr	I	Y	Lbf		3N
603371	I	N	P	T	E	N	Bl	I	Gn	Tn	Gnc	3N
603372	II	N	W	T	E	N	Br	I	Bl	Bl	Gnc, Snet	3N
603373	I	N	W	T	E	Ssp	Br	I	Br	Rbr		3N
603374	II	N	P	T	E	N	Br	I	Rbr	Rbr	Sdef, Snet	3N
603375	I	N	W	G	E	Ssp	Bl	I	Y	Lbf	Na	2N
603376	I	D	P	G	E	Ssp	Br	I	Y	Y		2N
603377	I	N	W	G	E	N	Br	I	Y	Y		2N
603378A	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	1N
603378B	I	D	W	G	E	Ssp	Br	I	Y	Y		2N
603380	I	S	W	G	E	N	Br	I	Y	Y		2N
603381A	II	N	P	G	E	Ssp	Br	I	Y	G	Na, Sdef	3N
603381B	II	N	P	G	E	Ssp	Br	I	Y	G	Def	3N
603381C	II	N	W	G	E	Ssp	Br	I	Y	Y	Na	2N
603382A	I	S	W	G	E	N	Br	I	Y	Y		3N

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603339B	I	48.0 ^{w^}	19.1 ^{w^}	12.8 [^]	4.4 [^]	28.1 [^]	48.8 [^]	5.9 [^]
603340	II	40.5	21.4	10.2	3.7	29.8	49.6	6.6
603341	I	40.8 [^]	21.1 [^]	12.0 [^]	3.5 [^]	28.0 [^]	50.1 [^]	6.3 [^]
603342	I	39.7 [^]	21.2 [^]	10.9 [^]	4.1 [^]	33.6 [^]	46.3 [^]	5.2 [^]
603344	I	39.6 [^]	21.3 [^]	11.8 [^]	3.6 [^]	32.5 [^]	46.9 [^]	5.2 [^]
603345	II	40.1 [^]	20.4 [^]	10.9 [^]	4.3 [^]	26.4 [^]	52.3 [^]	6.1 [^]
603347	II	43.3	17.1	10.2	4.0	32.4	47.3	6.2
603348A	I	40.3 [^]	19.9 [^]	13.8 [^]	3.7 [^]	24.7 [^]	51.4 [^]	6.4 [^]
603348B	I	40.1 [^]	18.2 [^]	12.6 [^]	3.6 [^]	23.5 [^]	53.3 [^]	7.1 [^]
603348C	II	40.3	17.3	9.5	4.2	28.8	51.3	6.1
603349	I	38.6 [^]	19.7 [^]	11.9 [^]	3.9 [^]	25.7 [^]	51.9 [^]	6.5 [^]
603350	I	39.8 [^]	18.6 [^]	12.7 [^]	4.0 [^]	25.6 [^]	51.5 [^]	6.2 [^]
603351	I	38.7 [^]	23.4 [^]	11.1 [^]	4.8 [^]	35.6 [^]	43.4 [^]	5.1 [^]
603352	I	42.3 [^]	20.1 [^]	12.5 [^]	4.8 [^]	30.2 [^]	46.9 [^]	5.6 [^]
603354	I	39.6 [^]	21.5 [^]	11.2 [^]	4.7 [^]	34.7 [^]	44.4 [^]	4.9 [^]
603355	I	40.4 [^]	21.7 [^]	12.0 [^]	4.5 [^]	27.4 [^]	50.5 [^]	5.6 [^]
603356	I	37.6 [^]	22.0 [^]	11.5 [^]	4.8 [^]	26.6 [^]	50.5 [^]	6.5 [^]
603357	I	39.8 [^]	20.2 [^]	12.4 [^]	3.1 [^]	27.5 [^]	51.3 [^]	5.8 [^]
603358A	II	41.0	20.4	9.8	4.9	25.3	53.3	6.8
603358B	II	43.5	18.7	10.5	4.1	26.9	50.9	7.6
603359	I	43.1 [^]	18.7 [^]	12.1 [^]	3.9 [^]	30.4 [^]	47.5 [^]	6.0 [^]
603360	I	41.7 [^]	20.5 [^]	11.2 [^]	3.5 [^]	35.5 [^]	44.7 [^]	5.1 [^]
603361	I	41.1 [^]	20.4 [^]	11.6 [^]	5.1 [^]	33.8 [^]	43.5 [^]	6.0 [^]
603362	I	39.3 [^]	19.8 [^]	13.4 [^]	4.0 [^]	23.3 [^]	53.2 [^]	6.2 [^]
603363A	II	39.3	21.8	10.2	5.0	28.6	50.3	5.8
603363B	II	40.5	19.8	9.9	4.6	27.2	51.6	6.8
603364	II	42.2	20.0	9.6	4.6	33.1	46.8	5.8
603365	II	43.6	18.7	10.3	4.0	28.6	51.2	5.9
603366	II	39.5	19.5	9.6	3.3	28.1	52.4	6.6
603367	I	40.0 [^]	18.2 [^]	13.5 [^]	4.3 [^]	24.0 [^]	51.5 [^]	6.8 [^]
603368	II	45.8	16.5	11.3	3.9	25.0	52.8	7.1
603369	II	41.5	19.5	10.1	4.4	28.7	50.8	6.0
603370	II	40.2	20.2	9.2	4.3	27.1	52.7	6.8
603371	I	51.3 ^{w^}	17.8 ^{w^}	14.3 [^]	3.9 [^]	25.2 [^]	50.8 [^]	5.8 [^]
603372	II	44.6 ^w	18.1 ^w	13.4	3.3	29.0	48.5	5.8
603373	I	49.1 ^{w^}	17.7 ^{w^}	10.8 [^]	3.1 [^]	31.5 [^]	49.1 [^]	5.5 [^]
603374	II	42.9 ^w	17.1 ^w	11.2	3.4	27.7	51.9	5.8
603375	I	40.7 [^]	20.2 [^]	12.5 [^]	4.0 [^]	26.4 [^]	51.1 [^]	6.1 [^]
603376	I	43.9 [^]	17.8 [^]	12.4 [^]	3.2 [^]	29.2 [^]	49.3 [^]	5.8 [^]
603377	I	42.6 [^]	18.8 [^]	12.2 [^]	3.9 [^]	25.7 [^]	52.1 [^]	6.0 [^]
603378A	I	40.2 [^]	20.2 [^]	11.7 [^]	4.6 [^]	25.4 [^]	52.1 [^]	6.3 [^]
603378B	I	40.2 [^]	19.8 [^]	12.1 [^]	3.5 [^]	24.2 [^]	54.1 [^]	6.0 [^]
603380	I	37.4 [^]	21.8 [^]	12.5 [^]	3.5 [^]	25.4 [^]	52.0 [^]	6.7 [^]
603381A	II	40.7	19.8	10.5	4.2	23.0	55.5	6.8
603381B	II	41.0	19.3	10.8	4.3	21.4	56.0	7.5
603381C	II	39.8	19.6	10.8	4.3	23.5	54.9	6.4
603382A	I	43.5 [^]	18.7 [^]	11.7 [^]	3.4 [^]	33.5 [^]	46.5 [^]	4.9 [^]

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603382B	(Hai long feng di huang)	Jilin	China	China	1998	II
603383	Ke xi 209	Jilin	China	China	1998	I
603384	Ping ding xiang	Jilin	China	China	1998	III
603385	Xiao jin huang	Liaoning	China	China	1998	II
603386	Ping ding xiang	Liaoning	China	China	1998	II
603387	Da jin huang	Liaoning	China	China	1998	II
603388	Niu mao huang	Liaoning	China	China	1998	I
603389	Huang ke	Liaoning	China	China	1998	II
603390A	Man cang jin	Liaoning	China	China	1998	II
603391	Da jin huang	Liaoning	China	China	1998	II
603392	Man cang jin	Liaoning	China	China	1998	III
603393	Da li huang	Liaoning	China	China	1998	III
603394	Bai pi zi	Liaoning	China	China	1998	III
603395	Da dou No. 2	Liaoning	China	China	1998	III
603396	Suo jian dou	Liaoning	China	China	1998	III
603397	Hei qi huang da dou	Liaoning	China	China	1998	IV
603398A	Huang qi	Liaoning	China	China	1998	II
603398B	(Huang qi)	Liaoning	China	China	1998	III
603399	Xiao bai qi	Liaoning	China	China	1998	II
603400	Tian e dan	Liaoning	China	China	1998	I
603401	Yi wo hou	Liaoning	China	China	1998	IV
603402	Xiao jin huang	Liaoning	China	China	1998	III
603403	Huang mao dou	Liaoning	China	China	1998	II
603404	Xiao bai mei	Liaoning	China	China	1998	IV
603405A	Qing pi	Liaoning	China	China	1998	II
603405B	(Qing pi)	Liaoning	China	China	1998	IV
603406	Qing pi dou	Liaoning	China	China	1998	III
603407	Niu mao qing	Liaoning	China	China	1998	IV
603408	Qing dou	Liaoning	China	China	1998	I
603409	Tie jia qing	Liaoning	China	China	1998	IV
603410	Lu cha dou	Liaoning	China	China	1998	IV
603411	Qing mo shi dou	Liaoning	China	China	1998	IV
603412A	Bai mo shi dou	Liaoning	China	China	1998	II
603412B	(Bai mo shi dou)	Liaoning	China	China	1998	II
603413	Yu shi dou	Liaoning	China	China	1998	IV
603414	Tie jia jin huang dou	Liaoning	China	China	1998	II
603415	Li wai qing	Liaoning	China	China	1998	III
603416	Hei qi da dou	Liaoning	China	China	1998	IV
603417	Dan dong jin huang dou	Liaoning	China	China	1998	IV
603418A	Xiao si li huang	Liaoning	China	China	1998	III
603418B	(Xiao si li huang)	Liaoning	China	China	1998	III
603418C	(Xiao si li huang)	Liaoning	China	China	1998	III
603418D	(Xiao si li huang)	Liaoning	China	China	1998	IV
603419A	Da li qing	Liaoning	China	China	1998	II
603419B	(Da li qing)	Liaoning	China	China	1998	IV
603419C	(Da li qing)	Liaoning	China	China	1998	IV
603420	Hei dou	Nei Monggol	China	China	1998	II

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603382B	II	D	W	G	E	Ssp	Br	I	Y	Y		2N
603383	I	N	P	G	E	N	Br	D	Y	Y		3N
603384	III	D	W	G	E	N	Br	I	Y	Bf		4N
603385	II	D	P	G	E	N	Br	I	Y	Ib	Na, Vhil	4N
603386	II	N	W	G	E	N	Br	I	Y	Bf	Vhil	3N
603387	II	D	P	T	E	Ssp	Br	I	Y	Tn		2N
603388	I	N	W	T	E	N	Br	I	Y	Tn		2N
603389	II	N	W	G	E	N	Br	I	Y	Y		2N
603390A	II	N	W	G	E	N	Br	I	Y	Bf		3N
603391	II	N	W	G	E	N	Br	I	Y	Y		3N
603392	III	N	P	G	Sa	N	Br	I	Y	Ib		2N
603393	III	N	W	G	E	N	Br	D	Y	Bf	Vhil	3N
603394	III	D	W	G	E	N	Dbr	D	Y	Bf		3N
603395	III	N	W	T	E	N	Br	I	Y	Br		3N
603396	III	N	W	T	E	N	Br	I	Y	Br		3N
603397	IV	D	P	T	Sa	Ssp	Br	D	Y	Bl		3N
603398A	II	N	W	G	E	N	Br	I	Y	Bf		3N
603398B	III	N	W	G	E	N	Br	D	Y	Y	Vhil	2N
603399	II	N	W	Lt	E	N	Br	I	Y	Tn		3N
603400	I	N	W	G	E	N	Br	I	Y	Bf		2N
603401	IV	N	W	G	E	N	Br	I	Lgn	Bf		3N
603402	III	D	P	G	E	Ssp	Br	S	Y	Tn		2N
603403	II	D	P	G	E	N	Br	D	Y	Dib	Vhil	3N
603404	IV	D	P	G	E	Ssp	Br	I	Y	Y		2N
603405A	II	D	W	G	E	N	Br	I	Gn	Lbf		3N
603405B	IV	D	W	G	E	N	Br	I	Gn	Bf		3N
603406	III	D	W	G	E	Ssp	Br	I	Gn	Bf		2N
603407	IV	N	W	T	E	N	Br	I	Gn	Br	Sdef	3N
603408	I	N	W	T	E	N	Br	I	Gn	Brbl	Gnc, Vhil	3N
603409	IV	D	W	G	E	N	Br	I	Lgn	Lgn		3N
603410	IV	D	W	T	E	Ssp	Br	I	Gn	Bl	Gnc	3N
603411	IV	N	P	T	E	N	Bl	I	Gn	Br		5N
603412A	II	N	W	Lt	E	N	Tn	I	Y	Br		4F
603412B	II	N	P	Lt	E	Ssp	Bl	I	Gn	Br		5F
603413	IV	N	P	T	Sa	Ssp	Br	I	Br	Br	Def, St	3N
603414	II	N	W	G	E	N	Br	I	Y	Bf		3N
603415	III	N	W	Lt	E	N	Br	I	Gn	Brbl	Gnc, Vhil	3N
603416	IV	D	W	T	Sa	Ssp	Br	D	Y	Bl		2N
603417	IV	D	W	G	E	Ssp	Br	I	Y	Y		2N
603418A	III	D	P	G	E	N	Br	D	Y	Y	Na	3N
603418B	III	D	W	G	E	N	Br	D	Y	Y	Na	3N
603418C	III	N	P	G	E	N	Br	D	Y	Y	Na	3N
603418D	IV	N	W	G	E	N	Br	D	Y	Y	Na	3N
603419A	II	N	P	Lt	E	Ssp	Br	D	Gn	Gn	Gnc	3N
603419B	IV	N	P	T	E	Ssp	Br	D	Gn	Gn	Gnc	1R
603419C	IV	N	W	T	E	Ssp	Br	D	Gn	Gn	Gnc	1R
603420	II	N	P	T	E	N	Bl	Lb	Bl	Bl		5F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
603382B	707*	907	1.8	62	1.0	1.0	1.5	2.3	1.5	13.0	2.18
603383	625	820	2.5^	63*	3.0^	1.0^	1.0^	3.5^	1.0	12.4^	1.91^
603384	718	917	2.8	74*	1.0	1.0	2.5	2.8	2.5	14.5	2.14
603385	705*	907	2.5	72	1.0	1.0	3.5*	4.0	1.0	15.0	2.32
603386	629*	909	3.0	70	3.0	1.0	1.0	3.3	1.0	14.1	2.27
603387	715	916	1.5	54	1.0	1.0	1.0	2.8	3.0	15.8	1.07
603388	624	826	2.0^	68*	3.0^	1.0^	1.0^	2.5^	1.0	14.5^	2.08^
603389	704	911	2.5	84	3.0	1.0	1.0	3.3	2.0	13.3	2.00
603390A	703	911	2.5	89*	3.0	1.0	2.0	3.3	1.0	16.1	2.19
603391	712	917	3.0	73	3.0	1.0	1.0	3.5	2.5	14.4	2.17
603392	720	926	3.8	121	3.0	1.0	2.5	3.3	2.0	17.2	2.40
603393	719	927	3.5	117	3.0	1.0	3.0	2.8	1.0	15.0	2.35
603394	720	930	2.3	82	1.0	1.0	1.5	2.8	1.0	15.0	2.59
603395	719	925	3.0	106	3.0	1.0	1.5	3.0	3.0	13.5	2.50*
603396	715	925	3.5	91	3.0	1.0	1.0	3.0	3.0	14.2	2.08*
603397	723	1006	1.3	72	1.0	1.0	1.0	3.0	2.0	18.6	1.85
603398A	703	915	3.8	91*	4.0	1.0	1.5	2.8	2.5	13.0	2.08
603398B	717	925	2.5	119	3.0	1.0	1.5	3.0	4.0	18.0	2.31*
603399	703	917	4.0	86	4.0	1.0	1.5	3.3	2.5	14.8	2.46
603400	625	904^	3.0^	95*	3.0^	1.0^	1.0^	2.0^	1.0	13.3^	2.60^
603401	724	1007	3.0	117*	3.0	2.0*	3.5	2.8	2.0	18.4	1.78
603402	715	919	1.8	61	1.0	1.0	1.0	3.0	4.0	13.6	1.64
603403	629*	917	2.0	70	1.0	1.0	1.0	3.0	1.5	12.3	2.22
603404	731	1012	2.0	83*	1.0	1.0	1.0	2.5	4.0	16.9	2.12^
603405A	713	909	2.5	53	1.0	1.0	1.5	2.0	1.0	11.4	1.99
603405B	722	929	3.3	95	1.0	1.0	1.0	2.8	2.0	13.0	2.31
603406	717	1001	1.8	80	1.0	1.0	1.0	2.8	2.0	19.3	1.86
603407	721	1007	3.5	126	3.5	1.0	1.0	3.3	3.0	17.5	2.33
603408	702	828^	2.5^	60	3.0^	1.0^	1.0^	2.0^	1.0	11.2^	1.99^
603409	719	1007	2.3	81	1.0	1.0	2.0	3.0	3.0	18.6	1.82
603410	725	1019	2.8	72	1.0	1.0	1.0	3.0	3.0	20.2	1.51
603411	729	1001	3.5	118*	3.0	1.0	1.0	2.0	3.5	10.0	2.22*
603412A	714	913	2.8	117*	4.0	1.5	3.5	2.5	3.0	8.6	2.33
603412B	720	915	3.5	118*	4.0	1.5	3.0*	3.0	3.5	8.8	2.28
603413	721	1005	2.5	82	3.0	1.0	2.5	3.5	--	26.2	1.44
603414	707*	909	2.5	103*	3.0	1.0	1.5	3.3	1.0	12.8	2.46
603415	711*	927	2.5	89	4.0	1.0	3.0*	3.0	3.0	13.8	1.83
603416	723	1009	1.8	64	1.0	1.0	1.5	2.5	2.0	18.4	2.21
603417	719	1015	1.8	78	1.0	1.0	1.5	2.3	2.5	18.1	2.29
603418A	715	929	2.0	75	1.0	1.0	1.0	2.8	1.0	20.4	3.02*
603418B	717	928	1.8	74	1.0	1.0	1.0	2.5	1.5	20.7	3.21
603418C	720	930	3.0	115	3.0	1.0	1.5	3.3	1.5	23.0	2.67
603418D	719	1007	3.0	111	3.0	1.0	1.0	2.8	2.0	22.1	2.67*
603419A	705*	914	3.8	105*	3.0	1.0	1.0	3.3	1.5	16.3	1.59
603419B	723	1021	3.0	89	4.0	1.0	1.0	2.3	3.0	18.0	1.58
603419C	725	1019	3.5	100	3.0	1.0	1.0	2.8	2.0	18.7	1.68
603420	707*	913	4.0	116*	4.0	1.5	3.5	3.3	--	6.6	1.90

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603382B	II	42.5	17.5	11.7	4.3	19.7	56.1	8.2
603383	I	41.7 [^]	20.3 [^]	11.8 [^]	3.3 [^]	31.8 [^]	47.9 [^]	5.2 [^]
603384	III	43.9	17.3	11.0	4.5	26.2	51.1	7.3
603385	II	40.4	19.5	10.3	4.6	25.2	53.4	6.5
603386	II	40.4	20.0	9.5	3.9	25.2	54.7	6.8
603387	II	44.2	16.8	11.3	4.1	24.9	52.2	7.5
603388	I	41.6 [^]	21.0 [^]	12.0 [^]	4.5 [^]	32.7 [^]	45.3 [^]	5.6 [^]
603389	II	43.0	18.0	10.7	3.6	25.5	53.5	6.7
603390A	II	44.0	17.6	10.5	4.5	23.7	54.1	7.3
603391	II	43.5	19.2	10.3	3.9	32.2	47.9	5.7
603392	III	41.1	17.5	9.8	5.4	25.6	51.8	7.3
603393	III	41.1	18.3	11.3	4.5	25.6	51.5	7.1
603394	III	41.5	18.7	10.7	4.0	22.7	54.9	7.7
603395	III	40.8	18.1	12.4	4.5	21.1	53.7	8.4
603396	III	44.1	17.3	10.1	6.4	26.7	50.3	6.6
603397	IV	46.6	15.1	9.7	3.6	23.2	55.8	7.7
603398A	II	42.0	18.3	11.2	3.7	24.3	54.8	6.1
603398B	III	44.7 ^w	19.0 ^w	12.4	3.8	25.6	52.2	5.9
603399	II	42.7	18.5	11.0	5.0	22.1	53.6	8.3
603400	I	37.5 [^]	21.4 [^]	13.8 [^]	4.0 [^]	26.5 [^]	49.9 [^]	5.8 [^]
603401	IV	47.0 ^w	17.8 ^w	12.9	3.5	24.8	52.6	6.2
603402	III	45.5 ^w	15.8 ^w	12.2	3.9	24.8	51.8	7.4
603403	II	44.3	16.1	10.9	3.7	21.3	56.4	7.6
603404	IV	48.1 ^w	15.4 ^w	12.4	3.3	20.7	55.8	7.9
603405A	II	45.2 ^w	16.7 ^w	13.0	3.1	22.9	53.3	7.7
603405B	IV	45.5 ^w	17.9 ^w	13.2	3.4	19.8	55.3	8.3
603406	III	47.2 ^w	18.2 ^w	12.5	4.2	26.6	49.8	7.0
603407	IV	46.4 ^w	17.7 ^w	13.9	3.7	21.3	53.6	7.5
603408	I	44.6 ^{w^}	18.6 ^{w^}	13.1 [^]	5.1 [^]	27.0 [^]	48.5 [^]	6.3 [^]
603409	IV	45.6 ^w	16.6 ^w	14.0	3.7	22.9	51.4	8.1
603410	IV	47.9 ^w	16.6 ^w	13.5	3.8	23.9	51.5	7.3
603411	IV	45.6 ^w	15.9 ^w	12.5	3.5	20.9	54.9	8.2
603412A	II	42.1	16.1	11.6	3.5	29.7	47.9	7.4
603412B	II	42.5 ^w	16.0 ^w	12.8	3.2	24.5	51.6	7.9
603413	IV	48.8 ^w	17.0 ^w	13.0	3.4	23.7	53.1	6.8
603414	II	39.7	20.4	11.0	4.4	28.7	49.3	6.5
603415	III	46.6 ^w	17.1 ^w	11.4	4.3	25.9	51.7	6.7
603416	IV	43.2	17.1	9.5	4.1	28.0	51.9	6.6
603417	IV	42.1	16.8	11.9	3.9	21.2	55.1	7.9
603418A	III	41.8	18.6	10.8	4.1	28.4	50.2	6.5
603418B	III	44.1	17.8	10.9	4.2	26.5	51.9	6.5
603418C	III	42.2	17.9	10.7	4.1	29.9	49.1	6.2
603418D	IV	44.5	17.5	10.4	4.0	29.2	49.8	6.7
603419A	II	42.4 ^w	18.6 ^w	12.4	4.3	30.0	47.9	5.4
603419B	IV	43.0 ^w	17.9 ^w	12.5	4.3	23.6	53.2	6.3
603419C	IV	42.2 ^w	18.2 ^w	12.4	4.3	24.3	52.4	6.5
603420	II	42.5 ^w	16.9 ^w	12.8	3.3	22.9	52.3	8.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603421A	Da hei dou	Nei Monggol	China	China	1998	II
603421B	(Da hei dou)	Nei Monggol	China	China	1998	III
603422A	Hei dou	Nei Monggol	China	China	1998	II
603422B	(Hei dou)	Nei Monggol	China	China	1998	II
603423A	Xiao huang dou	Nei Monggol	China	China	1998	III
603423B	(Xiao huang dou)	Nei Monggol	China	China	1998	III
603424B	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603424C	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603424D	(Ben di huang dou)	Nei Monggol	China	China	1998	I
603425	Huang dou	Nei Monggol	China	China	1998	II
603426F	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	I
603426G	(Ben di yuan huang dou)	Nei Monggol	China	China	1998	II
603427A	Qing dou	Nei Monggol	China	China	1998	I
603427B	(Qing dou)	Nei Monggol	China	China	1998	I
603427C	(Qing dou)	Nei Monggol	China	China	1998	III
603428A	Da li hei dou	Nei Monggol	China	China	1998	I
603428B	(Da li hei dou)	Nei Monggol	China	China	1998	II
603428C	(Da li hei dou)	Nei Monggol	China	China	1998	III
603428D	(Da li hei dou)	Nei Monggol	China	China	1998	III
603429C	(Cha dou)	Nei Monggol	China	China	1998	I
603429D	(Cha dou)	Nei Monggol	China	China	1998	II
603430A	Da hei qi	Nei Monggol	China	China	1998	II
603430B	(Da hei qi)	Nei Monggol	China	China	1998	I
603431	Chi feng da hei qi	Nei Monggol	China	China	1998	I
603432C	(Huang dou)	Nei Monggol	China	China	1998	I
603433A	Chi 382	Nei Monggol	China	China	1998	II
603433B	(Chi 382)	Nei Monggol	China	China	1998	II
603434	A 8122	Nei Monggol	China	China	1998	III
603436A	Huang dou	Nei Monggol	China	China	1998	II
603436B	(Huang dou)	Nei Monggol	China	China	1998	II
603438A	Da hei qi	Nei Monggol	China	China	1998	I
603438B	(Da hei qi)	Nei Monggol	China	China	1998	I
603438C	(Da hei qi)	Nei Monggol	China	China	1998	II
603438D	(Da hei qi)	Nei Monggol	China	China	1998	II
603438E	(Da hei qi)	Nei Monggol	China	China	1998	III
603439	74-2	Nei Monggol	China	China	1998	I
603440B	(Nong yan da bai qi)	Nei Monggol	China	China	1998	I
603441	Qing zha dou	Nei Monggol	China	China	1998	II
603442	Ke qi xiao hei dou	Nei Monggol	China	China	1998	III
603443A	Ke qi xiao hei dou	Nei Monggol	China	China	1998	I
603443B	(Ke qi xiao hei dou)	Nei Monggol	China	China	1998	0
603443C	(Ke qi xiao hei dou)	Nei Monggol	China	China	1998	II
603444A	Hei dou	Nei Monggol	China	China	1998	II
603444B	(Hei dou)	Nei Monggol	China	China	1998	I
603444C	(Hei dou)	Nei Monggol	China	China	1998	II
603445A	Da li hei dou	Nei Monggol	China	China	1998	I
603445B	(Da li hei dou)	Nei Monggol	China	China	1998	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603421A	II	N	P	T	E	N	Bl	Lb	Bl	Bl		5F
603421B	III	N	P	T	E	N	Br	Lb	Bl	Bl		5F
603422A	II	N	W	T	E	N	Br	Lb	Bl	Bl		5F
603422B	II	N	P	T	E	N	Br	I	Bl	Bl		5F
603423A	III	N	P	T	E	Ssp	Br	I	Y	Br		5N
603423B	III	S	P	T	E	N	Br	D	Y	Br		5N
603424B	I	D	P	T	E	N	Tn	I	Y	Br	Abh	3N
603424C	I	D	P	T	E	N	Tn	I	Y	Br	Abh	3N
603424D	I	N	P	T	E	N	Br	D	Y	Br	Sw	3N
603425	II	N	P	T	E	N	Br	I	Y	Br		5N
603426F	I	D	P	T	E	N	Tn	I	Y	Br	Abh	4N
603426G	II	S	P	T	E	N	Tn	D	Y	Br		3N
603427A	I	N	W	Lt	E	Ssp	Br	I	Gn	Bl	Gnc	4N
603427B	I	N	W	Lt	E	N	Br	I	Gn	Bl	Gnc	3N
603427C	III	N	W	Lt	E	N	Br	I	Gn	Brbl	Gnc, Vhil	4N
603428A	I	N	W	T	E	N	Br	I	Bl	Bl		3N
603428B	II	N	W	T	E	N	Br	I	Bl	Bl	Sdef, Sdab	3N
603428C	III	S	W	T	E	N	Br	I	Bl	Bl		4N
603428D	III	S	P	T	Sa	N	Br	I	Bl	Bl		3N
603429C	I	N	W	T	E	N	Br	I	Rbr	Rbr	Dab	3N
603429D	II	N	P	T	E	N	Br	I	Rbr	Rbr	Sdef	4N
603430A	II	N	W	T	E	N	Br	I	Y	Bl	Sabh	3N
603430B	I	N	P	T	E	N	Br	I	Y	Bl	Sabh	3N
603431	I	N	W	T	E	N	Br	I	Y	Bl	Sabh	3N
603432C	I	N	P	T	E	N	Br	I	Y	Y	Vhil	2N
603433A	II	N	P	T	E	Ssp	Br	D	Y	Tn		4N
603433B	II	N	P	G	E	N	Dbr	I	Y	Y	Na	3N
603434	III	N	W	T	E	N	Br	I	Y	Bl		3N
603436A	II	N	W	G	E	N	Dbr	I	Y	Bf		3N
603436B	II	N	P	G	E	N	Br	D	Y	Ib	Vhil	2N
603438A	I	N	P	T	E	N	Br	I	Y	Bl		4N
603438B	I	N	P	T	E	N	Br	I	Y	Bl		4N
603438C	II	S	P	T	E	N	Br	I	Y	Brbl	Vhil	4N
603438D	II	N	W	T	E	N	Br	I	Y	Bl	Sabh	3N
603438E	III	N	P	T	E	N	Tn	I	Y	Brbl	Vhil	4N
603439	I	N	P	G	E	N	Br	I	Y	Bf		2N
603440B	I	S	P	G	E	N	Tn	I	Y	Y		2N
603441	II	N	W	T	E	N	Br	I	Gn	Brbl	Gnc, Vhil	3N
603442	III	N	P	T	E	N	Bl	B	Bl	Bl		5F
603443A	I	N	P	Lt	E	N	Br	I	Bl	Bl		4F
603443B	0	S	P	Lt	Sa	N	Tn	I	Bl	Bl		4F
603443C	II	N	P	Lt	E	N	Br	I	Bl	Bl		5F
603444A	II	N	P	T	E	Ssp	Br	Lb	Bl	Bl		5F
603444B	I	N	P	T	E	N	Br	Lb	Bl	Bl		5F
603444C	II	N	P	T	E	N	Br	I	Bl	Bl		4F
603445A	I	N	W	T	E	N	Br	I	Bl	Bl		3N
603445B	IV	N	P	T	E	N	Br	B	Bl	Bl	Dab	5F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
603421A	703	909	3.5	96*	4.0	1.0	3.5	3.3	--	6.3	1.87
603421B	705	919	4.0	92*	4.0	1.0	1.0	3.3	--	8.1	2.51
603422A	707*	920	4.3	84	4.0	1.0	1.0	3.3	--	7.5	1.93
603422B	705	909^	4.0^	107*	5.0^	1.0^	1.0^	3.0^	--	8.3^	2.08^
603423A	713	927	4.0	105*	4.0	1.0	2.5	3.0	3.5	14.2	2.53
603423B	713	927	3.8	82	2.0	1.5	3.5	3.0	4.5	12.3	2.03
603424B	623	816^	1.5^	37*	1.0^	1.0^	1.0^	2.5^	1.0	11.6^	1.48^
603424C	624	825^	1.0^	23	1.0^	1.0^	1.0^	2.5^	1.0	12.1^	1.45^
603424D	625	825^	4.5^	64	4.0^	1.0^	2.0^	3.0^	2.0	10.4^	2.21^
603425	629*	907	3.8	83	4.0	1.0	3.5	2.8	2.5	9.1	1.93
603426F	623	822^	1.0^	26	1.0^	1.0^	1.0^	3.0^	1.0	13.3^	1.53^
603426G	627	901	3.8	72	2.0	1.0	2.5	2.3	1.0	8.8	2.03
603427A	701	901^	3.0^	80*	3.0^	1.0^	2.0^	3.0^	2.0	12.6^	2.50^
603427B	701	901^	3.5^	70*	3.0^	1.0^	1.0^	2.5^	1.0	14.1^	2.68^
603427C	706*	925	3.5	102	4.0	1.0	1.5	3.0	3.0	13.3	1.81
603428A	627	828^	2.5^	72*	3.0^	1.0^	1.0^	3.5^	--	16.2^	1.99^
603428B	703	913	3.0	107*	4.0	1.0	1.0	3.3	--	12.8	1.97
603428C	707*	929	4.0	88	2.0	1.0	1.0	2.5	--	13.8	1.81
603428D	707*	1001	3.8*	89	2.0	1.0	1.0	3.5	--	12.4	1.47
603429C	623	826	2.5^	56*	3.0^	1.0^	1.0^	2.0^	--	13.7^	2.41^
603429D	707*	915	3.3	88	4.0	1.0	1.0	3.0	--	13.2	2.34
603430A	703	907	2.8	75*	3.0	1.0	2.0	2.5	2.0	17.2	2.62
603430B	629	831^	3.5^	53*	4.0^	1.0^	1.0^	2.0^	1.0	17.2^	3.10^
603431	625	831^	3.0^	57*	3.0^	1.0^	1.0^	2.0^	1.0	17.5^	3.13^
603432C	623	822	1.5^	47*	3.0^	1.0^	1.0^	2.0^	1.0	13.8^	2.12^
603433A	703	905	2.5	75	3.0	1.0	1.5	3.0	2.0	13.2	1.77
603433B	630*	905	3.0	78	3.0	1.0	1.0	3.0	3.0	14.4	1.81
603434	704	923	2.0	103	3.0	1.0	1.0	3.5	2.5	15.0	2.90
603436A	703	907	3.0	91	3.0	1.0	3.0	3.0	1.0	15.2	2.31
603436B	709	913	3.3	98*	3.0	1.0	1.5	3.3	1.5	13.9	2.23
603438A	701	827	3.0^	60*	3.0^	1.0^	5.0^	3.5^	1.0	12.0^	2.14^
603438B	629	901^	3.0^	70*	3.0^	1.0^	2.0^	2.5^	1.0	13.9^	2.40^
603438C	709*	912	3.3	95	2.0	1.5	4.0*	2.3	1.5	12.5	2.27
603438D	630*	909	2.5	86	3.0	1.0	2.5	2.3	2.0	19.3	2.66
603438E	713	927	3.5	102*	4.0	1.0	4.5	3.3	2.5	13.8	2.40
603439	627	829^	1.5^	44*	3.0^	1.0^	2.0^	2.0^	1.0	13.4^	-
603440B	628	829^	2.5^	41*	2.0^	1.0^	1.0^	1.5^	1.0	11.0^	2.43^
603441	703	914	2.8	87*	3.0	1.0	3.0	3.3	3.0	15.0	2.03
603442	701	921	3.8	99	3.0*	1.5	2.5	3.0	--	8.6	2.21
603443A	629	831^	4.5^	114	4.0^	1.0^	2.0^	2.5^	--	7.8^	2.59^
603443B	622	820	2.5^	48	2.0^	1.0^	2.0^	2.5^	--	12.0^	1.47^
603443C	630*	912	3.8	111*	4.0	1.0	2.0	3.8	--	7.1	2.24
603444A	629	907	4.3	105	3.5	1.0	3.0	3.0	--	9.5	2.18
603444B	621	831^	4.5^	81*	4.0^	1.0^	1.0^	2.5^	--	10.4^	2.68^
603444C	628*	911	4.0	98	4.0	1.0	4.0	3.3	--	9.6	2.06
603445A	624	830^	2.5^	59*	3.0^	1.0^	3.0^	2.5^	--	19.9^	2.53^
603445B	715	1005	4.5	123*	5.0	1.0	1.0	3.3	--	10.9	2.18

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603421A	II	40.9 ^w	17.2 ^w	12.8	3.3	21.8	53.0	9.1
603421B	III	42.5 ^w	16.2 ^w	14.5	3.1	20.7	54.2	7.5
603422A	II	42.7 ^w	16.3 ^w	14.5	3.7	20.8	52.3	8.6
603422B	II	47.3 ^{w^}	16.0 ^{w^}	14.0 [^]	3.9 [^]	22.6 [^]	52.7 [^]	6.7 [^]
603423A	III	46.5 ^w	18.4 ^w	11.3	3.9	23.1	54.5	7.3
603423B	III	46.3 ^w	17.2 ^w	12.7	4.3	25.3	51.2	6.6
603424B	I	43.8 [^]	18.9 [^]	13.9 [^]	3.7 [^]	31.0 [^]	45.7 [^]	5.7 [^]
603424C	I	40.9 [^]	18.5 [^]	14.4 [^]	3.5 [^]	23.5 [^]	51.8 [^]	6.8 [^]
603424D	I	39.6 [^]	18.6 [^]	12.5 [^]	3.6 [^]	21.2 [^]	55.5 [^]	7.2 [^]
603425	II	42.4	13.5	11.5	3.9	20.2	56.1	8.3
603426F	I	42.3 [^]	18.3 [^]	14.5 [^]	3.3 [^]	22.9 [^]	52.5 [^]	6.7 [^]
603426G	II	41.2	16.9	12.1	4.2	25.3	52.2	6.2
603427A	I	47.8 ^{w^}	17.3 ^{w^}	12.9 [^]	4.7 [^]	26.0 [^]	49.5 [^]	6.9 [^]
603427B	I	50.4 ^{w^}	15.9 ^{w^}	13.1 [^]	4.6 [^]	26.7 [^]	49.1 [^]	6.5 [^]
603427C	III	45.9 ^w	15.8 ^w	12.0	4.4	21.1	54.6	7.8
603428A	I	48.3 ^{w^}	17.4 ^{w^}	12.6 [^]	4.8 [^]	32.2 [^]	44.8 [^]	5.6 [^]
603428B	II	45.4 ^w	16.8 ^w	14.0	4.1	26.7	49.1	6.2
603428C	III	46.0 ^w	16.1 ^w	11.9	3.9	24.1	53.4	6.6
603428D	III	49.8 ^w	13.4 ^w	11.6	4.4	20.8	55.7	7.4
603429C	I	47.1 ^{w^}	18.7 ^{w^}	12.7 [^]	3.8 [^]	24.9 [^]	52.7 [^]	6.0 [^]
603429D	II	43.8 ^w	18.2 ^w	11.6	4.5	28.8	49.7	5.3
603430A	II	43.1	19.6	10.9	4.5	26.4	51.3	6.8
603430B	I	42.4 [^]	20.0 [^]	12.3 [^]	4.5 [^]	27.0 [^]	50.2 [^]	6.0 [^]
603431	I	39.9 [^]	20.5 [^]	11.5 [^]	4.6 [^]	25.8 [^]	52.1 [^]	5.9 [^]
603432C	I	41.3 [^]	19.8 [^]	13.2 [^]	3.3 [^]	23.6 [^]	52.8 [^]	7.2 [^]
603433A	II	44.2	17.9	10.4	3.5	23.6	54.8	7.7
603433B	II	40.3	19.4	11.4	4.9	28.3	49.0	6.3
603434	III	43.3	18.2	10.9	4.9	24.7	52.9	6.6
603436A	II	41.5	21.1	10.2	4.5	34.5	45.2	5.6
603436B	II	42.7	18.1	10.5	3.9	29.9	49.1	6.6
603438A	I	39.4 [^]	20.3 [^]	11.0 [^]	4.0 [^]	23.6 [^]	54.6 [^]	6.9 [^]
603438B	I	43.5 [^]	18.2 [^]	12.6 [^]	4.8 [^]	26.8 [^]	50.0 [^]	5.7 [^]
603438C	II	44.4	16.0	10.3	4.3	20.5	56.7	8.2
603438D	II	42.5	19.5	10.5	4.5	25.3	53.5	6.2
603438E	III	42.7	15.7	9.8	5.0	21.6	55.9	7.7
603439	I	38.8 [^]	20.5 [^]	11.9 [^]	4.6 [^]	25.9 [^]	51.4 [^]	6.2 [^]
603440B	I	39.1 [^]	20.3 [^]	12.3 [^]	4.1 [^]	28.1 [^]	49.2 [^]	6.3 [^]
603441	II	46.5 ^w	18.2 ^w	13.1	4.3	26.2	50.2	6.2
603442	III	44.7 ^w	15.0 ^w	12.7	3.8	18.2	57.0	8.2
603443A	I	43.0 ^{w^}	13.9 ^{w^}	13.4 [^]	3.9 [^]	20.7 [^]	53.9 [^]	8.2 [^]
603443B	0	48.6 ^{w^}	15.8 ^{w^}	12.7 [^]	3.6 [^]	31.0 [^]	46.8 [^]	5.9 [^]
603443C	II	43.6 ^w	13.5 ^w	13.2	3.7	21.9	52.1	9.0
603444A	II	43.1 ^w	14.4 ^w	12.7	3.3	19.0	56.5	8.5
603444B	I	42.9 ^{w^}	16.9 ^{w^}	12.3 [^]	3.9 [^]	25.2 [^]	52.4 [^]	6.2 [^]
603444C	II	43.3 ^w	15.4 ^w	12.9	4.1	18.9	56.6	7.6
603445A	I	46.1 ^{w^}	20.1 ^{w^}	11.5 [^]	5.3 [^]	30.2 [^]	47.7 [^]	5.3 [^]
603445B	IV	45.9 ^w	14.2 ^w	13.8	3.1	21.4	53.2	8.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603446	Hong huang dou	Nei Monggol	China	China	1998	II
603447	Ka qi mao yan dou	Nei Monggol	China	China	1998	I
603448	Miao lou 68-8	Shandong	China	China	1998	IV
603449	Kai guo lan	Shandong	China	China	1998	IV
603450	Gu li huang	Shandong	China	China	1998	IV
603451A	Xiao tie ke	Shandong	China	China	1998	III
603451B	(Xiao tie ke)	Shandong	China	China	1998	IV
603452	Diao si gui	Shandong	China	China	1998	III
603453	Dang nian chen	Shandong	China	China	1998	IV
603454	7672-333	Shandong	China	China	1998	IV
603455A	Mao huang dou	Shandong	China	China	1998	III
603455B	(Mao huang dou)	Shandong	China	China	1998	IV
603456	Lu shun dou	Shandong	China	China	1998	III
603457A	Mi lan dou zi	Shandong	China	China	1998	IV
603457B	(Mi lan dou zi)	Shandong	China	China	1998	IV
603457C	(Mi lan dou zi)	Shandong	China	China	1998	IV
603458A	Shui dou	Shandong	China	China	1998	IV
603458B	(Shui dou)	Shandong	China	China	1998	IV
603459	Luo ye huang	Shandong	China	China	1998	IV
603460	Shui dou	Shandong	China	China	1998	IV
603462	Bai jia zi	Shandong	China	China	1998	IV
603463	Dong jie No. 1	Shandong	China	China	1998	II
603464	Zi jie huang	Shandong	China	China	1998	II
603465B	(Qi si mi)	Shandong	China	China	1998	IV
603465C	(Qi si mi)	Shandong	China	China	1998	IV
603465D	(Qi si mi)	Shandong	China	China	1998	IV
603466A	Qi si wa	Shandong	China	China	1998	IV
603466B	(Qi si wa)	Shandong	China	China	1998	IV
603467	Pa man jiang nan qing	Shandong	China	China	1998	II
603468	Pa man qing	Shandong	China	China	1998	IV
603469	Pa man qing	Shandong	China	China	1998	IV
603470	Xiao qing dou	Shandong	China	China	1998	II
603471	Xiao hua pi	Shandong	China	China	1998	II
603472A	Qing huang dou	Shandong	China	China	1998	II
603472B	(Qing huang dou)	Shandong	China	China	1998	IV
603473	Qing huang dou	Shandong	China	China	1998	III
603474	60 Ri huan jia	Shandong	China	China	1998	II
603475	No. 1	Shandong	China	China	1998	III
603476	Lu you dou	Shandong	China	China	1998	IV
603477A	Jiang nan qing	Shandong	China	China	1998	III
603477B	(Jiang nan qing)	Shandong	China	China	1998	III
603478	Yong fu qing da dou	Shandong	China	China	1998	IV
603479	Qing ba yue xian	Shandong	China	China	1998	I
603480	Ba yue mang	Shandong	China	China	1998	II
603481	Bai yi cao da dou	Shandong	China	China	1998	II
603482	Si li qing	Shandong	China	China	1998	II
603483	Lu si li	Shandong	China	China	1998	II

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603446	II	N	P	T	E	N	Br	I	Rbr	Rbr		4N
603447	I	N	P	T	E	N	Br	I	Br	Bl	Sabh, Sad	3N
603448	IV	D	W	G	A	N	Dbr	I	Y	Bf		3N
603449	IV	D	W	G	E	N	Br	I	Y	Bf		5N
603450	IV	D	W	G	E	Ssp	Br	I	Y	Bf		3N
603451A	III	N	W	G	E	Ssp	Bl	I	Y	Bf		4N
603451B	IV	D	W	G	E	Ssp	Dbr	I	Y	Bf	Na	4N
603452	III	N	W	G	E	Ssp	Br	I	Y	Bf		4N
603453	IV	D	P	G	E	N	Tn	I	Y	Bf		3N
603454	IV	N	W	T	E	N	Tn	I	Y	Bl		3N
603455A	III	D	P	G	A	N	Br	I	Y	Bf	Vhil	3N
603455B	IV	N	W	T	E	N	Br	D	Y	Br	Def	3N
603456	III	N	W	T	E	N	Br	D	Y	Br		3N
603457A	IV	D	P	T	E	Ssp	Br	I	Lgn	Br		3N
603457B	IV	N	W	G	E	N	Br	I	Y	Bf		3N
603457C	IV	D	W	G	E	Ssp	Br	I	Y	Bf		4N
603458A	IV	D	W	T	A	Ssp	Tn	I	Y	Br		2N
603458B	IV	D	P	T	A	Ssp	Tn	D	Y	Br		3N
603459	IV	D	W	G	E	N	Dbr	I	Y	Bf		4N
603460	IV	N	W	T	E	N	Tn	D	Y	Bl		3N
603462	IV	D	W	G	E	Ssp	Tn	I	Y	Bf		2N
603463	II	D	W	G	E	N	Tn	I	Y	Bf		3N
603464	II	D	P	G	A	N	Br	I	Y	Y	Vhil	2N
603465B	IV	D	W	T	E	Ssp	Br	D	Y	Bl		2N
603465C	IV	D	P	T	Sa	Ssp	Br	D	Y	Bl		2N
603465D	IV	D	P	T	Sa	Ssp	Br	D	Y	Bl		2N
603466A	IV	N	W	Lt	E	Ssp	Br	I	Y	Br		3N
603466B	IV	N	W	T	E	Ssp	Br	I	Y	Br	Sst	3N
603467	II	D	W	T	E	Ssp	Br	D	Gn	Br		3N
603468	IV	N	W	Lt	E	N	Br	I	Gn	Br		3N
603469	IV	S	W	Lt	E	N	Br	D	Gn	Br		3N
603470	II	N	W	T	E	Ssp	Br	D	Gn	Bl		3N
603471	II	D	W	G	E	Ssp	Dbr	D	Gn	Bf		3N
603472A	II	N	P	T	E	Ssp	Br	I	Y	Bl		4N
603472B	IV	N	P	T	E	Ssp	Br	I	G	Bl	Dab, Vsc	4N
603473	III	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603474	II	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603475	III	D	W	T	E	Ssp	Br	D	Gn	Br		3N
603476	IV	N	W	Lt	E	Ssp	Br	D	Gn	Br		3N
603477A	III	S	W	T	E	Ssp	Br	D	Gn	Br		4N
603477B	III	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603478	IV	D	W	T	E	N	Tn	D	Gn	Bl		3N
603479	I	N	W	T	A	N	Br	D	Gn	Br		4N
603480	II	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603481	II	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603482	II	D	W	G	E	Ssp	Br	D	Gn	Bf		3N
603483	II	D	W	G	E	Ssp	Br	D	Gn	Bf		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering date		Maturity		Stem term. (score)	Shattering		Seed			Yield (Mg ha ⁻¹)
	(mmdd)	(mmdd)	Lodging (score)	Height (cm)		early (score)	late (score)	Quality (score)	Mottling (score)	Weight (cg sd ⁻¹)	
603446	707*	915	3.5	90	4.0	1.0	1.0	3.0	--	11.3	2.18
603447	629	831^	3.5^	71*	3.0^	1.0^	5.0^	2.0^	--	15.9^	2.84^
603448	728	1008	3.3	93	1.0	1.0	1.0	2.3	1.0	12.8	2.30
603449	726	1003	4.0	105	1.0	1.0	1.5	2.8	2.0	11.9	2.24
603450	729	1007	3.0	77	1.0	1.0	2.0	2.5	1.0	12.4	2.19
603451A	721	927	4.0	103*	4.0	1.5	3.0*	2.8	2.0	11.8	2.18
603451B	724	1010	2.8	111	1.0	1.0	2.0	1.8	1.5	12.0	1.96^
603452	723	921	3.5	108	4.0	1.0	1.5	2.5	2.0	9.7	1.92
603453	723	1011	2.0	75	1.0	1.0	1.0	2.3	1.0	20.7	2.69
603454	704	1003	1.5	105	3.0	1.0	1.0	3.3	2.0	17.6	2.81*
603455A	722	923	1.5	42	1.0	2.0	3.5*	2.5	1.0	15.9	1.06*
603455B	715*	1009	4.5	106*	4.5	2.0	3.0	3.3	2.5	17.0	2.14
603456	725	929	3.8	71*	3.5	2.0	3.5	2.3	2.5	16.5	2.40
603457A	719	1002	2.0	72	1.0	1.5	3.0	2.3	1.5	16.1	2.45
603457B	801	1022	4.0	118	4.0	1.0	2.0	2.3	1.0	17.1	2.40
603457C	729	1017	3.8	112	1.0	1.5	2.5	2.5	2.0	13.4	2.39*
603458A	723	1016	3.3	91	1.0	1.5	2.0	2.3	1.5	12.1	2.65*
603458B	723	1015	3.0	81	1.0	1.0	1.5	2.0	2.0	13.0	2.70*
603459	729	1010	3.8	108	1.5	1.0	2.0	2.5	2.0	11.0	2.02*
603460	725	1005	3.5	115	4.0	1.5	2.5	2.5	2.0	15.0	1.88
603462	731	1017	2.5	89	1.0	1.5	1.5	2.3	2.5	14.2	2.78*
603463	704	917	1.3	65	1.0	1.0	2.5	2.3*	1.0	12.7	2.14
603464	719	909	2.0	58	1.5	2.0	5.0	2.5	1.0	13.1	1.17*
603465B	717*	1003	2.5	67*	1.0	2.5	3.0*	2.5	2.0	17.1	2.14
603465C	721	1001	2.0	68	1.0	1.0	1.0	2.5	2.0	19.9	2.50
603465D	724	1003	1.5	63	1.0	1.0	1.0	2.3	1.5	19.1	2.29
603466A	731	1015	3.8	147	4.0	1.5	2.5	2.8	4.0*	10.1	1.85
603466B	801	1017	4.0	130	4.0	1.0	2.0	2.8	4.0	10.6	1.52
603467	709	909	2.3	62	1.5	3.0*	5.0	1.5	1.0	13.2	2.07
603468	718*	1018	3.8	152*	4.0	1.0	1.5	3.3	3.0	17.2	1.87
603469	716	1013	3.8	169	2.0	1.0	1.5	3.3	3.0	15.9*	1.79
603470	709*	911	4.0	80	4.0	3.5	5.0	3.0	2.0*	12.9	1.26
603471	717	916	3.3*	75	1.0	2.5	4.5	2.5	2.0	12.6	2.04
603472A	710*	916	4.5	139	4.0	1.0	1.5	3.0	3.5	13.8	2.06
603472B	721	1003	4.5	150*	4.0	1.0	2.0	3.0	3.0	15.8	2.30
603473	723	924	3.3	76	1.0	2.0	3.0	2.3	2.5	13.4	1.83
603474	719	914	2.8	64*	1.0	1.5	4.0	2.5	2.0	12.9	1.93
603475	721	927	3.0	72	1.0	2.0	4.0	3.3	3.5	15.2	1.98
603476	715*	1017	3.5	134	4.0	1.0	2.0	3.0	3.5	16.6	1.99
603477A	715*	925	4.3	110*	2.0	1.0	1.5	2.3	5.0	12.8	2.50
603477B	719	921	2.8	73*	1.0	1.5	3.0	2.8	3.0	14.4	2.10
603478	727	1017	3.5	108	1.0	1.0	2.0*	2.8	2.5	15.1	1.65^
603479	705	830^	3.5^	61*	4.0^	1.0^	3.0^	1.5^	1.0	15.2^	1.73^
603480	717	915	2.8	65	1.0	1.5	3.0	2.8	1.5	14.2	2.06
603481	717	916	3.0	85	1.0	2.0	3.5	2.3	2.0	12.3	2.10
603482	721	919	3.0	62*	1.0	1.5	4.5	2.5	3.0	12.0	2.14
603483	717	913	3.3	61	1.0	2.5	3.0	3.0	1.5	10.7	2.09

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603446	II	42.7 ^w	16.6 ^w	12.0	3.9	21.6	55.2	7.2
603447	I	44.5 ^{w^}	18.1 ^{w^}	11.9 [^]	3.9 [^]	24.5 [^]	53.5 [^]	6.2 [^]
603448	IV	43.9	16.5	10.1	3.5	22.5	55.9	8.0
603449	IV	46.4	17.0	11.9	3.1	19.5	57.4	8.1
603450	IV	45.1	17.4	11.3	3.6	20.8	56.7	7.7
603451A	III	42.6	18.9	10.9	4.3	33.5	45.1	6.2
603451B	IV	44.1	17.0	9.6	3.8	24.6	54.1	7.6
603452	III	42.4	18.0	9.3	3.6	42.9	37.3	6.8
603453	IV	45.6	17.0	10.3	2.7	21.4	57.4	8.2
603454	IV	42.7	18.7	9.7	4.2	22.9	56.4	6.8
603455A	III	42.7	17.2	10.5	4.0	26.5	51.8	7.2
603455B	IV	42.8	18.1	9.9	4.0	26.3	52.7	7.0
603456	III	43.0	18.9	10.8	3.9	26.3	51.6	7.3
603457A	IV	46.4 ^w	17.3 ^w	11.8	3.0	26.3	51.9	6.9
603457B	IV	42.8	16.5	8.9	3.8	26.0	54.7	6.6
603457C	IV	45.3	15.1	10.1	3.5	22.6	55.3	8.5
603458A	IV	43.5	15.8	9.6	3.7	23.8	53.9	9.0
603458B	IV	43.6	16.8	11.1	3.6	22.9	54.4	8.0
603459	IV	45.7	17.0	11.8	3.8	24.2	53.6	6.6
603460	IV	45.1	15.4	9.9	3.4	30.4	49.6	6.8
603462	IV	43.8	15.5	10.4	2.9	18.2	59.5	8.9
603463	II	42.5	18.1	11.4	3.7	23.8	53.5	7.5
603464	II	43.5	16.3	10.9	3.8	28.5	48.8	8.0
603465B	IV	42.9	16.5	9.9	3.2	26.0	53.4	7.5
603465C	IV	42.9	16.7	10.2	3.5	26.4	53.0	6.9
603465D	IV	44.0	16.7	10.5	3.4	24.5	54.2	7.4
603466A	IV	48.3 ^w	14.2 ^w	11.5	2.9	18.8	57.3	9.4
603466B	IV	47.2 ^w	16.1 ^w	12.3	3.4	25.0	51.5	7.8
603467	II	41.8 ^w	18.3 ^w	13.0	3.0	25.9	51.6	6.6
603468	IV	47.5 ^w	16.3 ^w	13.4	3.2	25.0	50.9	7.5
603469	IV	44.8 ^w	17.7 ^w	13.0	3.1	24.0	52.6	7.3
603470	II	42.0 ^w	17.9 ^w	12.4	3.3	36.6	42.0	5.6
603471	II	45.1 ^w	17.7 ^w	12.8	3.3	27.1	50.5	6.4
603472A	II	43.4 ^w	17.0 ^w	12.0	4.3	27.6	49.5	6.7
603472B	IV	46.0 ^w	15.9 ^w	11.8	3.4	25.5	52.5	6.8
603473	III	47.6 ^w	17.4 ^w	13.1	2.9	23.9	52.5	7.5
603474	II	43.5 ^w	18.1 ^w	13.4	3.3	25.6	50.8	6.9
603475	III	48.2 ^w	17.3 ^w	12.4	4.2	27.6	49.4	6.4
603476	IV	45.3 ^w	17.2 ^w	13.2	3.0	24.1	52.2	7.5
603477A	III	45.4 ^w	18.0 ^w	13.0	3.3	25.9	51.1	6.7
603477B	III	47.1 ^w	16.8 ^w	13.3	3.0	25.7	50.9	7.1
603478	IV	47.7 ^w	16.5 ^w	13.9	3.0	20.9	53.6	8.6
603479	I	45.9 ^{w^}	18.2 ^{w^}	16.8 [^]	6.9 [^]	36.6 [^]	35.9 [^]	3.8 [^]
603480	II	44.7 ^w	17.3 ^w	13.3	3.3	25.8	50.2	7.5
603481	II	43.7 ^w	18.7 ^w	12.8	3.2	26.9	50.6	6.5
603482	II	42.8 ^w	18.9 ^w	14.1	3.4	26.6	48.7	7.2
603483	II	42.9 ^w	17.1 ^w	14.7	3.4	20.7	52.9	8.4

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603484	Mai li hun	Shandong	China	China	1998	II
603485	Dong fang lu dou	Shandong	China	China	1998	III
603486	Zao qing dou	Shandong	China	China	1998	III
603487A	Diao ya dou	Shandong	China	China	1998	IV
603487B	(Diao ya dou)	Shandong	China	China	1998	IV
603487C	(Diao ya dou)	Shandong	China	China	1998	IV
603488	Zao hei dou	Shandong	China	China	1998	III
603489	Da li hei dou	Shandong	China	China	1998	IV
603490	Hei you dou	Shandong	China	China	1998	IV
603491	Da hei dou	Shandong	China	China	1998	IV
603492	Qi hei dou	Shandong	China	China	1998	IV
603493	Da hei dou	Shandong	China	China	1998	IV
603494	Hai dou zi	Shandong	China	China	1998	IV
603495A	Hong mi lan dou zi	Shandong	China	China	1998	IV
603496A	Xiao hong dou	Shandong	China	China	1998	IV
603496B	(Xiao hong dou)	Shandong	China	China	1998	IV
603497	Hua dou	Shandong	China	China	1998	III
603498A	Lao shu pi	Shaanxi	China	China	1998	IV
603501	Lu pi da dou	Shaanxi	China	China	1998	IV
603502A	Da hei dou	Shaanxi	China	China	1998	III
603502B	(Da hei dou)	Shaanxi	China	China	1998	IV
603502C	(Da hei dou)	Shaanxi	China	China	1998	IV
603502D	(Da hei dou)	Shaanxi	China	China	1998	IV
603504	Hong pi da dou	Shaanxi	China	China	1998	IV
603505	Da dou	Shaanxi	China	China	1998	IV
603511A	Wan dou huang	Shaanxi	China	China	1998	IV
603511B	(Wan dou huang)	Shaanxi	China	China	1998	IV
603515	Ba yue bao	Shaanxi	China	China	1998	IV
603526	Hei you dou	Shaanxi	China	China	1998	IV
603527A	Hei liao dou	Shaanxi	China	China	1998	IV
603531A	Zao jiao hu mian dou zi	Shaanxi	China	China	1998	IV
603531B	(Zao jiao hu mian dou zi)	Shaanxi	China	China	1998	IV
603533	Hong huang dou	Shaanxi	China	China	1998	IV
603541A	Huang dou	Shanxi	China	China	1998	IV
603541B	(Huang dou)	Shanxi	China	China	1998	IV
603542	Ji yao huang dou	Shanxi	China	China	1998	IV
603543A	Lu huang dou	Shanxi	China	China	1998	IV
603543B	(Lu huang dou)	Shanxi	China	China	1998	IV
603543C	(Lu huang dou)	Shanxi	China	China	1998	IV
603544A	Lu da dou	Shanxi	China	China	1998	IV
603545A	Xiao hei dou	Shanxi	China	China	1998	IV
603545B	(Xiao hei dou)	Shanxi	China	China	1998	IV
603546A	Xiao hei dou	Shanxi	China	China	1998	I
603546B	(Xiao hei dou)	Shanxi	China	China	1998	II
603547	Xiao hei dou	Shanxi	China	China	1998	IV
603548A	Ba wang bian	Shanxi	China	China	1998	IV
603548B	(Ba wang bian)	Shanxi	China	China	1998	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603484	II	S	W	G	E	Ssp	Br	D	Gn	Bf		3N
603485	III	D	W	G	E	Ssp	Dbr	I	Gn	Bf		3N
603486	III	N	W	T	E	Ssp	Br	D	Gn	Br		4N
603487A	IV	D	P	G	E	Ssp	Br	I	Gn	Bf		3N
603487B	IV	D	P	G	A	Ssp	Br	D	Gn	Bf		3N
603487C	IV	D	P	G	A	N	Br	I	Y	Bf		3N
603488	III	D	W	T	E	N	Dbr	B	Bl	Bl		3N
603489	IV	N	W	Lt	Sa	N	Br	I	Bl	Bl		4N
603490	IV	N	W	Lt	E	N	Br	I	Bl	Bl		4N
603491	IV	N	W	Lt	E	N	Br	I	Bl	Bl		4N
603492	IV	N	W	T	E	Ssp	Br	Lb	Bl	Bl	Dab	4N
603493	IV	N	P	Lt	E	Ssp	Bl	I	Bl	Bl	Dab	5F
603494	IV	N	W	Lt	E	N	Br	Lb	Gnbr	Rbr		3N
603495A	IV	S	W	Lt	E	N	Tn	Lb	Gnbr	Rbr		5N
603496A	IV	D	P	T	E	Ssp	Br	Lb	Rbr	Rbr		4N
603496B	IV	N	W	T	E	Ssp	Br	Lb	Rbr	Rbr	Def	4N
603497	III	D	P	T	E	Ssp	Br	I	Bl	Bl		4N
603498A	IV	D	W	G	Sa	N	Br	I	Y	Bf		3N
603501	IV	N	P	Lt	E	N	Br	Lb	Gn	Bl		5N
603502A	III	N	P	Lt	Sa	N	Br	I	Bl	Bl		4N
603502B	IV	N	P	T	E	N	Br	Lb	Bl	Bl		5N
603502C	IV	N	P	Lt	Sa	N	Br	Lb	Bl	Bl		5N
603502D	IV	N	P	T	E	N	Br	Lb	Bl	Bl		5N
603504	IV	D	P	T	E	N	Br	I	Rbr	Rbr		5N
603505	IV	D	W	T	E	N	Bl	I	Gnbr	Rbr	St	4N
603511A	IV	D	W	G	Sa	Ssp	Br	I	Y	Bf		3N
603511B	IV	D	W	G	A	Ssp	Br	I	Y	Bf		3N
603515	IV	D	W	T	E	N	Bl	I	Y	Br		3N
603526	IV	N	W	T	E	N	Bl	B	Bl	Bl	Flk, Sdef	3N
603527A	IV	N	P	Lt	E	N	Bl	Lb	Bl	Bl		4F
603531A	IV	S	P	T	Sa	Ssp	Br	I	Br	Rbr	Sdef	3F
603531B	IV	S	P	T	Sa	N	Br	I	Br	Rbr	Sdef	3F
603533	IV	D	W	G	E	N	Bl	I	Rbf	Rbf	Sdef	3N
603541A	IV	N	P	G	A	N	Br	I	Y	Bf		5N
603541B	IV	N	W	G	A	N	Br	I	Y	Bf		5N
603542	IV	N	P	G	A	N	Br	I	Y	Bf		5N
603543A	IV	N	P	T	E	N	Br	I	Gn	Br		4N
603543B	IV	D	P	T	E	N	Br	I	Gn	Br		5N
603543C	IV	S	P	T	E	N	Br	D	Gn	Br	Gnc	4N
603544A	IV	N	P	G	A	N	Bl	D	Gn	Dbf		5N
603545A	IV	N	P	T	E	N	Tn	I	Bl	Bl		4N
603545B	IV	N	W	T	E	N	Tn	B	Bl	Bl		5N
603546A	I	D	P	T	E	N	Br	Lb	Bl	Bl		3N
603546B	II	N	P	T	E	N	Br	I	Bl	Bl	Def	3N
603547	IV	N	P	T	E	N	Bl	I	Bl	Bl		5F
603548A	IV	N	W	T	E	N	Br	I	Bl	Bl		4N
603548B	IV	N	W	T	E	N	Br	I	Bl	Bl	Sdef	4N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed			Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)	Weight (cg sd ⁻¹)	
603484	717	917	3.0	73	2.0	2.0*	4.0*	2.5	2.0	12.4	2.14
603485	724	925	2.3	61	1.0	1.0	2.0	2.5	2.5	12.4	2.05
603486	715	929	4.3	72*	4.0	1.0	2.0	2.3	5.0	13.4	2.70
603487A	721	1009	2.5	109	1.0	1.0	2.5	3.0	2.0	22.5	1.86
603487B	723	1016	2.8	110*	1.0	1.0	2.5	3.0	2.0	25.4	2.36*
603487C	727	1015	2.5	98	1.0	1.5	2.5	2.3	1.0	18.8	1.92*
603488	724	927	2.3	88	1.0	1.0	1.0	2.3	--	12.1	2.31
603489	729	1007	4.0	105	4.0	1.5	2.5	2.8	--	13.6	2.47*
603490	730	1005	3.8	129*	4.0	1.0	3.5	2.8	--	13.0	2.67*
603491	721*	1006	3.8	157	4.0	1.5	2.5	3.0	--	12.2	2.04*
603492	729	1013	5.0	114	5.0	1.0	1.5	2.5	--	13.0	2.18
603493	730*	1005	4.8	153*	5.0	1.0	2.0	2.5	--	8.9	2.46*
603494	801	1006	4.3	113	4.0	1.0	2.0	2.8	--	13.1	2.88
603495A	721	1018	3.3	90	2.0	1.5	2.0	3.0	--	15.9	1.41
603496A	713	929	2.3	64	1.0	1.0	3.0	3.0	--	13.4	1.96
603496B	715*	1006	3.3	147*	4.0	1.5	3.0	3.8	--	13.6	2.54
603497	723	923	3.3	54*	1.0	1.5	2.5	2.8	--	7.1	1.57
603498A	812	1013	3.0	111*	1.0	1.0	1.5	2.0	2.0	12.8	2.01
603501	711*	1013	4.0	110*	4.0	1.0	1.0	3.3	4.0	18.9	1.41
603502A	715	926	4.0	67	4.0	1.0	1.5	3.3	--	12.1	1.78
603502B	713*	1012	4.5	172*	5.0	1.0	1.0	2.8	--	12.3	1.83
603502C	709*	1015	4.3	179	5.0	1.0	1.0	3.3	--	12.9	1.98
603502D	715*	1016	4.5	181	5.0	1.0	2.0	3.0	--	15.0	2.43
603504	725	1011	3.8	127*	1.0	1.0	1.5	2.5	--	9.4	1.76*
603505	804	1018	2.8	76*	1.0	1.0	1.0	2.5	--	7.1	2.15
603511A	805	1019	2.5	109*	1.0	1.0	1.0	2.3	2.0	13.3	2.09*
603511B	804	1016	2.5	90	1.0	1.0	1.0	1.8	1.0	12.0	2.33*
603515	802	1017	2.8	113	1.0	1.0	2.0	2.3	3.0	9.6	1.32
603526	724	1017	3.5	128*	4.0	1.0	1.0	3.0	--	11.2	1.90
603527A	804	1018	3.0	105	4.0	1.0	1.5	2.8	--	6.7	2.06*
603531A	723	1009	3.3	136	2.0	1.0	2.0	3.0	--	13.4	2.04
603531B	727	1013	3.5	119	2.0	1.0	2.0	3.0	--	16.9	1.76
603533	728	1014	2.0	84*	1.0	1.0	1.0	2.5	--	14.4	1.60
603541A	725	1001	3.5	87	4.0	1.0	1.0	2.5	2.5	9.6	1.87*
603541B	721	1007	2.8	100	3.0	1.0	2.5	2.8	3.0	14.0	1.93*
603542	721	1007	3.3	88	3.0	1.0	1.5	3.0	2.0	13.7	1.94
603543A	717*	1006	2.8	95	3.0	1.0	1.5	1.5	2.5	14.3	1.60^
603543B	715*	1005	2.8	85*	1.0	1.0	1.0	2.0	2.5	14.3	2.40
603543C	729	1022	2.8	116*	2.0	1.0	1.0	2.0	2.5	12.7	1.81
603544A	725	1011	3.3	107	4.0	1.0	1.0	2.8	3.0	12.0	1.86
603545A	717	1007	3.5	99	4.0	1.0	1.5	2.8	--	12.2	1.59
603545B	720	1019	3.0	98	4.0	1.0	1.0	2.8	--	10.5	1.58
603546A	713	901^	2.0^	54*	1.0^	1.0^	3.0^	2.5^	--	14.5^	2.26^
603546B	706*	919	3.0	96*	3.0	1.0	1.0	3.5	--	17.0	2.66
603547	723	1010	3.3	103*	3.0	1.0	1.5	3.0	--	10.4	2.21
603548A	731	1007	3.5	117*	3.0	1.0	1.5	2.5	--	10.8	1.73
603548B	731	1009	3.0	114	3.0	1.0	2.0	2.5	--	9.8	1.73*

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603484	II	44.4 ^w	17.9 ^w	12.7	3.1	26.7	50.9	6.5
603485	III	47.4 ^w	17.0 ^w	13.5	3.7	24.4	51.4	7.0
603486	III	45.7 ^w	17.0 ^w	12.8	3.0	24.9	52.5	6.9
603487A	IV	52.9 ^w	16.0 ^w	11.7	3.2	24.4	53.4	7.3
603487B	IV	51.0 ^w	16.6 ^w	12.6	3.2	21.7	54.8	7.7
603487C	IV	46.0	15.4	10.3	3.8	22.7	55.3	8.0
603488	III	44.4 ^w	17.2 ^w	11.9	3.6	23.7	53.3	7.5
603489	IV	44.7 ^w	16.9 ^w	13.4	3.1	22.3	53.1	8.1
603490	IV	45.9 ^w	15.8 ^w	13.3	3.1	22.7	53.0	7.9
603491	IV	43.9 ^w	16.3 ^w	13.0	3.3	23.8	52.5	7.5
603492	IV	44.9 ^w	15.7 ^w	11.5	3.5	27.6	50.8	6.6
603493	IV	48.8 ^w	12.8 ^w	11.9	2.8	18.3	57.1	9.8
603494	IV	42.8 ^w	15.9 ^w	13.5	2.8	23.8	51.8	8.1
603495A	IV	49.5 ^w	14.8 ^w	11.7	3.8	30.2	47.0	7.4
603496A	IV	46.3 ^w	16.1 ^w	13.7	2.9	22.3	52.7	8.4
603496B	IV	47.4 ^w	16.5 ^w	13.2	2.9	24.2	52.1	7.6
603497	III	49.2 ^w	12.2 ^w	13.8	3.9	21.0	52.3	8.9
603498A	IV	45.5	14.5	10.1	3.3	24.9	54.1	7.5
603501	IV	48.0 ^w	16.9 ^w	11.0	3.3	23.6	55.5	6.6
603502A	III	47.9 ^w	16.1 ^w	12.4	3.2	18.2	56.8	9.4
603502B	IV	47.5 ^w	15.7 ^w	12.8	3.5	19.7	55.4	8.7
603502C	IV	48.1 ^w	15.4 ^w	12.9	3.1	19.5	56.2	8.3
603502D	IV	46.6 ^w	16.6 ^w	13.6	3.0	19.5	55.6	8.3
603504	IV	42.8 ^w	15.5 ^w	14.1	2.9	18.7	55.6	8.6
603505	IV	42.7 ^w	15.1 ^w	12.2	3.1	19.3	55.7	9.7
603511A	IV	44.9	16.7	10.0	4.1	19.7	57.9	8.3
603511B	IV	44.7	16.4	9.5	3.5	20.7	58.7	7.6
603515	IV	47.4	14.3	9.0	3.7	19.5	60.3	7.5
603526	IV	42.8 ^w	16.3 ^w	13.6	3.2	17.3	56.9	9.0
603527A	IV	46.8 ^w	13.8 ^w	12.1	3.1	16.5	58.7	9.6
603531A	IV	47.5 ^w	16.6 ^w	11.7	3.2	21.2	55.9	8.1
603531B	IV	48.9 ^w	15.6 ^w	12.9	3.6	23.0	52.5	8.0
603533	IV	49.9 ^w	15.2 ^w	13.1	2.9	20.9	55.4	7.7
603541A	IV	40.1	14.2	10.9	3.6	20.2	56.7	8.6
603541B	IV	42.0	16.2	11.0	4.1	23.8	53.3	7.8
603542	IV	44.4	14.3	10.9	3.2	20.4	57.3	8.2
603543A	IV	46.6 ^w	16.3 ^w	13.4	3.5	23.1	53.8	6.2
603543B	IV	46.1 ^w	17.2 ^w	13.4	3.5	21.6	54.6	6.9
603543C	IV	46.3 ^w	16.0 ^w	13.3	3.4	21.2	55.2	6.9
603544A	IV	45.2 ^w	15.7 ^w	13.0	3.4	21.5	54.6	7.5
603545A	IV	45.9 ^w	15.9 ^w	12.1	3.5	19.9	56.3	8.2
603545B	IV	48.6 ^w	13.6 ^w	12.2	3.2	21.0	54.9	8.6
603546A	I	45.8 ^{w^}	21.8 ^{w^}	14.2 [^]	3.5 [^]	25.6 [^]	49.7 [^]	7.0 [^]
603546B	II	44.5 ^w	19.9 ^w	11.5	3.5	24.4	54.6	6.0
603547	IV	45.1 ^w	14.8 ^w	13.7	2.9	19.2	55.2	9.1
603548A	IV	44.4 ^w	14.3 ^w	12.2	3.3	24.3	52.9	7.4
603548B	IV	43.4 ^w	15.9 ^w	12.4	3.2	23.3	53.5	7.7

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603549	Mei dou	Shanxi	China	China	1998	III
603550	Xiao bai dou	Shanxi	China	China	1998	III
603551A	Hei qing dou	Shanxi	China	China	1998	IV
603551B	(Hei qing dou)	Shanxi	China	China	1998	IV
603551C	(Hei qing dou)	Shanxi	China	China	1998	IV
603552	Hong xiao dou	Shanxi	China	China	1998	III
603553	Huang pi dou	Shanxi	China	China	1998	III
603554A	Ba wang bian	Shanxi	China	China	1998	IV
603554B	(Ba wang bian)	Shanxi	China	China	1998	IV
603555	Hua da hei dou	Shanxi	China	China	1998	IV
603556	Xiao huang dou	Shanxi	China	China	1998	III
603557	Er huang pi huang dou	Shanxi	China	China	1998	IV
603558	Xiao huang dou	Shanxi	China	China	1998	III
603559	Xiao huang dou	Shanxi	China	China	1998	IV
603560	Yuan huang dou	Shanxi	China	China	1998	III
603561	Huang dou	Shanxi	China	China	1998	I
603562A	Tian e dan II	Shanxi	China	China	1998	II
603562B	(Tian e dan II)	Shanxi	China	China	1998	III
603563A	Hei qi huang dou	Shanxi	China	China	1998	IV
603563B	(Hei qi huang dou)	Shanxi	China	China	1998	IV
603564A	Huang dou	Shanxi	China	China	1998	IV
603564B	(Huang dou)	Shanxi	China	China	1998	IV
603564C	(Huang dou)	Shanxi	China	China	1998	IV
603567A	Da huang dou <1>	Shanxi	China	China	1998	III
603567B	(Da huang dou <1>)	Shanxi	China	China	1998	IV
603568	Da huang dou <1>	Shanxi	China	China	1998	IV
603569A	Bai dou	Shanxi	China	China	1998	IV
603569B	(Bai dou)	Shanxi	China	China	1998	IV
603570A	Huang dou <1>	Shanxi	China	China	1998	IV
603570B	(Huang dou <1>)	Shanxi	China	China	1998	IV
603570C	(Huang dou <1>)	Shanxi	China	China	1998	IV
603571A	Da bai dou	Shanxi	China	China	1998	II
603571B	(Da bai dou)	Shanxi	China	China	1998	IV
603571C	(Da bai dou)	Shanxi	China	China	1998	IV
603573A	Jing dou	Shanxi	China	China	1998	II
603574	Huang dou	Shanxi	China	China	1998	IV
603575	Bai dou	Shanxi	China	China	1998	IV
603576A	Bai da dou	Shanxi	China	China	1998	III
603579	Xiao bai jiao dou	Shanxi	China	China	1998	IV
603582	Da lu dou <1>	Shanxi	China	China	1998	III
603583	Da qing dou	Shanxi	China	China	1998	IV
603585A	Xiao hei dou	Shanxi	China	China	1998	III
603585B	(Xiao hei dou)	Shanxi	China	China	1998	III
603586	Xiao hei dou	Shanxi	China	China	1998	IV
603587A	Hei jin gang	Shanxi	China	China	1998	I
603587B	(Hei jin gang)	Shanxi	China	China	1998	IV
603587C	(Hei jin gang)	Shanxi	China	China	1998	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603549	III	N	P	T	E	Ssp	Br	I	Bl	Bl	Sdef	3N
603550	III	N	P	Lt	E	N	Bl	I	Bl	Bl		5F
603551A	IV	N	P	T	Sa	N	Bl	I	Bl	Bl		5F
603551B	IV	N	W	T	E	N	Br	Lb	Bl	Bl		5F
603551C	IV	D	P	T	E	N	Bl	Lb	Bl	Bl		5F
603552	III	S	P	T	E	Ssp	Br	I	Rbr	Rbr		3N
603553	III	S	P	T	E	Ssp	Br	I	Rbr	Rbr		4N
603554A	IV	N	P	T	Sa	Ssp	Br	Lb	Gnbr	Rbr	St	4F
603554B	IV	N	P	Lt	E	Ssp	Br	Lb	Gnbr	Rbr	St	4N
603555	IV	N	P	T	E	N	Br	Lb	Br	Rbr	St	5F
603556	III	N	P	T	E	N	Tn	I	Y	Brbl	Vhil	5N
603557	IV	N	P	T	Sa	N	Tn	I	Y	Br		5N
603558	III	N	P	G	E	N	Tn	D	Y	Bf		5N
603559	IV	N	P	T	E	N	Br	I	Y	Br		4N
603560	III	N	P	T	E	N	Br	I	Y	Br		5N
603561	I	S	W	G	E	N	Br	S	Y	Y		3N
603562A	II	N	W	T	E	N	Br	I	Y	Brbl	Sabh, Vhil	3N
603562B	III	D	W	T	E	N	Br	I	Y	Bl		3N
603563A	IV	N	P	G	E	N	Br	I	Y	Bf		4N
603563B	IV	N	P	T	E	N	Br	I	Y	Brbl	Vhil	3N
603564A	IV	N	P	T	E	N	Bl	I	Y	Br		3N
603564B	IV	N	P	T	E	N	Br	I	Y	Br		4N
603564C	IV	S	P	T	E	N	Br	I	Y	Br		5N
603567A	III	D	W	G	E	N	Br	I	Y	Bf	Sdef	3N
603567B	IV	S	P	G	Sa	N	Br	I	Y	Bf		3N
603568	IV	N	P	T	E	N	Br	I	Y	Brbl	Vhil	4N
603569A	IV	N	P	Ng	E	N	Br	D	Y	Br		4N
603569B	IV	N	W	T	E	N	Tn	I	Y	Br		5N
603570A	IV	N	P	T	E	N	Tn	D	Y	Br		5N
603570B	IV	N	P	Ng	E	N	Br	I	Y	Br	Sabh	2N
603570C	IV	N	W	G	E	N	Br	I	Y	Y		3N
603571A	II	N	W	T	E	N	Br	I	Y	Bl		2N
603571B	IV	N	W	T	E	N	Tn	I	Y	Bl		3N
603571C	IV	N	W	T	E	N	Br	I	G	Bl		3N
603573A	II	N	W	T	E	N	Br	I	Y	Bl		2N
603574	IV	N	P	G	E	N	Bl	I	Y	Ib		3N
603575	IV	N	P	G	E	N	Bl	I	Y	Ib		3N
603576A	III	N	W	T	E	N	Br	I	Y	Brbl	Vhil	4N
603579	IV	N	W	G	A	N	Tn	I	Y	Bf		4F
603582	III	S	P	T	E	N	Bl	I	Gn	Brbl	Gnc, Vhil	4N
603583	IV	N	P	T	E	N	Br	D	Gn	Bl	Abh	3N
603585A	III	N	P	T	E	N	Bl	I	Bl	Bl	Dab	5F
603585B	III	N	P	T	E	N	Bl	I	Bl	Bl		5F
603586	IV	N	P	T	E	N	Bl	I	Bl	Bl		5F
603587A	I	N	W	T	Sa	N	Dbr	I	Bl	Bl		4N
603587B	IV	N	W	T	E	N	Bl	I	Bl	Bl		5F
603587C	IV	N	W	T	E	N	Bl	I	Bl	Bl	Dab	4F

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed			Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)	Weight (cg sd ⁻¹)	
603549	705	927	3.5	145	4.0	1.0	1.0	3.3	--	17.5	2.20
603550	725	1001	3.8	109*	4.0	1.0	1.5	2.5	--	8.8	2.43*
603551A	727	1009	3.3	104	4.0	1.0	2.0	3.0	--	11.2	1.57
603551B	807	1007	2.8	121	4.0	1.0	1.5	2.8	--	8.0	1.71
603551C	806	1015	3.3	104*	1.5	1.0	1.5	2.3	--	8.0	2.16
603552	727	927	4.0	80*	2.0	1.5	3.5	2.0	--	9.0	2.10
603553	726	929	4.0	77*	2.0	1.0	3.5	2.3	--	10.3	2.46*
603554A	723	1007	3.3	132*	4.0	1.0	1.5	3.0	--	18.0	2.36
603554B	726	1011	3.3	99	4.0	1.0	1.5	2.8	--	18.2	1.74
603555	725	1013	4.0	141	4.0	1.0	1.0	2.3	--	16.5	1.98
603556	715	927	4.5	88	4.0	1.0	1.5	3.3	4.5	10.0	1.81
603557	717	1002	4.3	69	4.0	1.0	1.0	3.5	3.5	12.7	2.17
603558	715	1001	3.8	95	4.0	1.0	3.5	3.5	4.0	13.4	2.00
603559	713*	1003	3.8	140*	4.0	1.0	2.0	2.5	3.5	10.8	1.92
603560	710*	1001	3.5	99*	4.0	1.0	1.0	3.8*	4.5	13.6*	1.55*
603561	623	820	1.5 [^]	52*	3.0 [^]	1.0 [^]	1.0 [^]	2.5 [^]	1.0	15.3 [^]	1.91 [^]
603562A	715	919	2.3	86	2.5	1.5	2.5	3.5	3.0	17.3	2.34
603562B	719	1001	2.5	90	1.5	1.5	2.0	3.3	3.0	18.8	2.11*
603563A	725	1005	3.5	120*	4.0	1.0	1.0	3.3	3.0	12.5	2.08
603563B	729	1009	2.5	110	4.0	1.0	2.5	2.5	3.5	15.0	1.99
603564A	714	1005	3.8	122*	3.5	1.0	1.5	3.3	3.5	12.3	2.07
603564B	711	1015	3.8	120	4.0	1.0	1.0	3.3	4.0	15.6*	1.62
603564C	711	1013*	3.5	113	2.0	1.0	1.0	3.0	4.0	15.2	1.55
603567A	723	930	3.5	81	1.5	1.5	2.0	3.8	3.0	16.9	2.22
603567B	729	1015	3.0	99*	2.0	1.0	1.0	3.0	2.0	13.6	1.57
603568	730*	1017	3.8	124	4.0	1.0	1.0	2.0	3.0	10.5	2.10
603569A	725	1009	3.8	105	3.0	1.0	1.0	3.0	3.0	10.9	1.73
603569B	729	1007	3.5	99	4.0	1.0	1.5	2.8	4.0	9.7	1.60
603570A	725	1004	4.0	112	4.0	1.0	1.5	3.0	5.0	13.4	1.42
603570B	721	1012	3.3	66*	4.0	1.0	1.0	2.3	3.5	13.4	2.45
603570C	725	1016	2.3	106	4.0	1.0	1.0	2.8	3.0	16.4	1.77
603571A	627*	916	2.3	108*	4.0	1.0	1.0	2.8	2.5	18.1	2.95
603571B	710	1003	2.3	102	3.0	1.0	1.0	3.3	1.5	16.7	3.05
603571C	710*	1004	3.8	115	3.0	1.0	2.0	2.5	2.5	13.0	2.40
603573A	627*	917	2.5	108*	4.0	1.0	1.0	3.0	2.0	18.0	2.81
603574	725	1010	4.3	155*	4.0	1.0	1.0	3.3	2.0	12.5	2.33
603575	725	1010	4.3	138*	3.0*	1.0	1.5	3.3	2.0	12.9	2.24
603576A	718	927	3.3	113	4.0	1.0	3.5	3.0	3.0	10.2	2.03
603579	731	1011	3.8	95	3.5	1.0	1.5	2.8	3.0	9.3	1.79
603582	705	920	3.5	67	2.0	1.0	2.0*	3.3	3.0	11.9	1.46
603583	723	1013	3.5	113	4.0	1.0	1.0	2.8	2.5	16.2	2.20*
603585A	709*	921	4.0	102*	5.0	1.0	1.0	3.0	--	7.6	1.94
603585B	709*	921	4.3*	89*	4.5	1.0	1.0	3.0	--	6.8	1.97*
603586	709*	1003	4.5	131	5.0	1.0	1.0	3.3	--	8.6	1.86
603587A	629	901 [^]	3.5 [^]	114	4.0 [^]	1.0 [^]	2.0 [^]	2.5 [^]	--	11.0 [^]	2.45 [^]
603587B	709*	1003	4.8	125*	4.5	1.0	2.5	2.8	--	9.1	2.16
603587C	731	1014	5.0	121*	5.0	1.0	1.0	2.5	--	8.7	1.78

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603549	III	44.9 ^w	19.2 ^w	11.3	3.8	24.6	53.6	6.6
603550	III	45.5 ^w	14.8 ^w	12.2	2.9	20.3	56.9	7.7
603551A	IV	46.5 ^w	16.5 ^w	11.6	3.9	24.5	52.8	7.2
603551B	IV	42.3 ^w	14.5 ^w	13.2	3.1	19.3	54.9	9.6
603551C	IV	43.9 ^w	13.7 ^w	14.0	2.9	17.4	56.3	9.4
603552	III	42.1 ^w	16.8 ^w	12.9	3.3	23.6	52.0	8.1
603553	III	42.5 ^w	16.8 ^w	13.0	3.3	24.4	51.6	7.6
603554A	IV	46.4 ^w	16.1 ^w	14.2	3.7	24.2	51.1	6.8
603554B	IV	48.1 ^w	16.1 ^w	13.5	3.5	26.2	50.1	6.7
603555	IV	45.8 ^w	17.5 ^w	13.7	3.2	20.5	55.7	6.8
603556	III	45.1 ^w	15.6 ^w	13.0	3.3	24.0	53.1	6.6
603557	IV	45.4 ^w	16.7 ^w	11.4	3.7	20.6	57.0	7.3
603558	III	46.7 ^w	15.1 ^w	13.0	3.4	20.3	55.7	7.6
603559	IV	45.6 ^w	15.8 ^w	12.0	3.4	20.8	55.2	8.7
603560	III	48.4 ^w	18.0 ^w	10.6	4.4	35.3	45.4	4.2
603561	I	39.7 [^]	23.2 [^]	12.6 [^]	4.8 [^]	29.7 [^]	47.8 [^]	5.1 [^]
603562A	II	41.2	17.4	12.4	3.4	25.0	52.2	6.9
603562B	III	41.9	17.9	10.2	4.4	27.5	51.8	6.0
603563A	IV	46.5	15.2	11.8	3.7	24.5	53.6	6.4
603563B	IV	44.7 ^w	17.7 ^w	13.7	3.6	25.4	51.2	6.2
603564A	IV	47.0 ^w	16.3 ^w	12.0	3.3	20.6	55.7	8.4
603564B	IV	47.6 ^w	15.1 ^w	13.2	3.9	25.5	50.3	7.1
603564C	IV	47.7 ^w	14.6 ^w	13.1	4.1	25.4	50.1	7.3
603567A	III	41.0	18.3	10.8	4.7	22.6	55.3	6.5
603567B	IV	46.1	15.5	10.0	3.4	20.0	58.7	8.0
603568	IV	40.2	16.0	10.8	3.2	19.2	57.8	8.9
603569A	IV	42.7	15.5	11.8	3.8	16.6	58.6	9.2
603569B	IV	45.0 ^w	15.5 ^w	13.8	3.0	20.8	53.8	8.6
603570A	IV	46.4 ^w	16.3 ^w	13.4	3.4	22.3	53.9	7.0
603570B	IV	42.5 ^w	17.3 ^w	10.8	3.3	21.8	57.3	6.9
603570C	IV	44.2	15.9	10.7	3.1	22.3	57.0	6.9
603571A	II	43.0	18.5	11.4	4.4	30.1	48.7	5.4
603571B	IV	42.5	19.1	9.6	4.4	24.9	54.7	6.4
603571C	IV	42.3 ^w	19.5 ^w	12.5	3.6	26.4	50.9	6.6
603573A	II	41.6	18.8	10.5	4.6	34.7	45.0	5.1
603574	IV	41.7	17.1	11.3	3.6	20.5	57.2	7.4
603575	IV	42.1	17.1	13.0	3.9	21.8	55.0	6.4
603576A	III	44.1	16.3	11.8	4.7	22.3	53.9	7.3
603579	IV	44.9	14.5	10.3	3.4	19.9	58.0	8.5
603582	III	45.9 ^w	15.8 ^w	12.6	3.8	26.5	50.8	6.4
603583	IV	47.1 ^w	16.8 ^w	13.2	3.7	23.0	52.8	7.3
603585A	III	44.3 ^w	15.7 ^w	13.5	3.1	18.7	56.6	8.0
603585B	III	44.1 ^w	15.9 ^w	13.7	3.4	20.2	54.2	8.5
603586	IV	44.7 ^w	15.4 ^w	14.0	3.3	18.8	55.4	8.6
603587A	I	42.0 ^{w^}	17.2 ^{w^}	12.5 [^]	4.0 [^]	23.7 [^]	53.0 [^]	6.8 [^]
603587B	IV	44.4 ^w	14.0 ^w	13.0	3.6	20.9	54.8	7.7
603587C	IV	45.1 ^w	14.2 ^w	13.7	4.2	20.7	52.9	8.4

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603589	Da huang dou	Fujian	China	China	1998	III
603592	Xia men teng zi dou	Fujian	China	China	1998	IV
603593	Tong an you zi dou	Fujian	China	China	1998	IV
603594	Xia men da hong dou	Fujian	China	China	1998	II
603596	Bai hua gu tian dou	Fujian	China	China	1998	III
603597	Pu xi 542	Fujian	China	China	1998	III
603598A	Pu dou 426	Fujian	China	China	1998	IV
603599A	Da ye huang	Fujian	China	China	1998	IV
603599B	(Da ye huang)	Fujian	China	China	1998	IV
603611A	Wu feng shai lu qing	Hubei	China	China	1998	IV
603612	Jia yu liu yue bao	Hubei	China	China	1998	III
603613	Bai mao zao	Hubei	China	China	1998	II
603614A	83-19	Hubei	China	China	1998	III
603615A	70-2	Hubei	China	China	1998	V
603620	82-6	Hubei	China	China	1998	IV
603623	Ba yue zao	Hubei	China	China	1998	IV
603645	Hei huang dou	Hubei	China	China	1998	IV
603647	Hei dou	Hubei	China	China	1998	IV
603648	Hei se da dou	Hubei	China	China	1998	IV
603653	Cha huang dou	Hubei	China	China	1998	IV
603654	Liu yue bao	Hunan	China	China	1998	II
603655	Zong yi dou	Hunan	China	China	1998	III
603656	Jiang nan he dou	Hunan	China	China	1998	II
603658	Hua rong liu yue bao yi	Hunan	China	China	1998	II
603660	Xiang xiang huang dou bing	Hunan	China	China	1998	II
603661A	85-Y-3	Hunan	China	China	1998	II
603662A	Xiang xiang qing dou	Hunan	China	China	1998	II
603662B	(Xiang xiang qing dou)	Hunan	China	China	1998	II
603663	Shao yang hei dou	Hunan	China	China	1998	II
603664	An hua he dou	Hunan	China	China	1998	II
603666	Li gong gang huang dou No. 2	Hunan	China	China	1998	II
603667A	Wen bai xiang hei dou No. 2	Hunan	China	China	1998	II
603667B	(Wen bai xiang hei dou No. 2)	Hunan	China	China	1998	II
603668A	Gao qiao he dou No. 1	Hunan	China	China	1998	II
603670	Shuang long cun da hei dou	Hunan	China	China	1998	III
603671	Tong shan huang mao	Jiangsu	China	China	1998	IV
603672A	Xin yi gua pi lan	Jiangsu	China	China	1998	II
603673A	Dong hai bai ta me jia cao	Jiangsu	China	China	1998	III
603673C	(Dong hai bai ta me jia cao)	Jiangsu	China	China	1998	IV
603673D	(Dong hai bai ta me jia cao)	Jiangsu	China	China	1998	IV
603674	Huai yin lao ba dou yi	Jiangsu	China	China	1998	III
603675	Huai yin gua dou jia	Jiangsu	China	China	1998	III
603676	Guan yun hong mao you yi No. 1	Jiangsu	China	China	1998	IV
603678A	Feng xian xiao huang dou	Jiangsu	China	China	1998	IV
603678B	(Feng xian xiao huang dou)	Jiangsu	China	China	1998	IV
603679	Feng xian bai pi	Jiangsu	China	China	1998	IV
603682	Tong shan xiao bai pi	Jiangsu	China	China	1998	III

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603589	III	D	W	T	A	N	Tn	I	Y	Br		3N
603592	IV	N	P	T	E	N	Br	I	Rbr	Rbr		3N
603593	IV	D	W	T	E	N	Br	I	Br	Rbr		4N
603594	II	N	W	Lt	A	N	Br	I	Rbr	Rbr		3N
603596	III	D	W	T	A	N	Tn	I	Y	Br		3N
603597	III	D	P	Lt	Sa	N	Tn	I	Y	Bl		3N
603598A	IV	D	W	Lt	Sa	N	Tn	I	Y	Bl		3N
603599A	IV	D	W	Lt	Sa	N	Tn	I	Y	Bl		3N
603599B	IV	N	P	T	A	N	Br	I	Y	Br	Sdef	3N
603611A	IV	S	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603612	III	D	W	G	A	Ssp	Br	I	Y	Bf		4N
603613	II	S	P	G	Sa	Ssp	Br	I	Y	Bf		3N
603614A	III	D	W	G	A	N	Br	I	Y	Bf	Na, Vhil	3N
603615A	V	D	P	T	A	N	Tn	I	Y	Br		3N
603620	IV	D	W	Lt	A	N	Tn	I	Y	Br		3F
603623	IV	S	W	T	A	N	Br	I	Y	Br		3N
603645	IV	S	W	T	A	N	Br	I	Bl	Bl	Flk, Sdef	3N
603647	IV	S	W	T	A	N	Br	I	Bl	Bl	Sdef	3N
603648	IV	S	W	T	A	N	Br	I	Bl	Bl	Flk, Sdef	3N
603653	IV	D	P	T	A	N	Br	I	Rbr	Rbr	Sdef	2N
603654	II	S	P	T	Sa	Ssp	Br	I	Bl	Bl		3N
603655	III	D	P	Lt	A	Ssp	Br	I	Br	Rbr		3N
603656	II	D	P	Lt	A	Ssp	Br	I	Br	Rbr		3N
603658	II	S	W	T	Sa	N	Tn	I	Y	Brbl	Vhil	4N
603660	II	S	P	T	A	N	Tn	I	Y	Bl		3N
603661A	II	S	W	T	A	N	Br	I	Gn	Brbl	Vhil	3N
603662A	II	D	W	Lt	A	Ssp	Br	I	Bl	Bl	Sdef	3N
603662B	II	S	W	T	A	N	Br	I	Gn	Brbl	Vhil	3N
603663	II	D	W	Lt	A	Ssp	Br	I	Bl	Bl	Sdef	3N
603664	II	D	P	T	E	Ssp	Br	I	Br	Rbr	Sdef	3N
603666	II	N	P	G	A	N	Tn	I	Y	Bf		3N
603667A	II	D	W	T	E	N	Tn	I	Bl	Bl	Sdef	3F
603667B	II	D	P	T	E	Ssp	Br	I	Bl	Bl	Sdef, Sflk	3N
603668A	II	D	P	T	E	N	Br	I	Br	Rbr		3N
603670	III	S	W	T	A	N	Tn	I	Bl	Bl	Flk	4F
603671	IV	D	P	T	Sa	N	Br	I	G	Bl		4N
603672A	II	D	P	G	A	Ssp	Tn	I	Y	Bf		3N
603673A	III	S	W	T	Sa	N	Tn	I	Y	Bl		3N
603673C	IV	S	P	T	Sa	N	Br	D	Y	Brbl	Vhil	3N
603673D	IV	S	P	G	A	Ssp	Tn	I	Y	Bf		2N
603674	III	S	P	G	Sa	Ssp	Br	I	Y	Ib	Vhil	3N
603675	III	S	P	G	Sa	N	Br	I	Y	Dib		3N
603676	IV	S	P	T	A	N	Tn	I	Y	Bl		2N
603678A	IV	S	W	G	Sa	N	Br	I	Y	Bf		3N
603678B	IV	D	P	G	Sa	N	Br	I	Y	Bf		4N
603679	IV	S	W	G	A	N	Tn	I	Y	Bf	Sabh	3N
603682	III	N	P	G	Sa	N	Tn	I	Y	Ib	Vhil	3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
603589	725	925	2.5	66	1.0	3.0	5.0	2.5	3.5	11.5	0.94
603592	727	1005	3.8	136*	4.0	1.5	3.0	2.8	--	9.0	1.12
603593	725	1001	3.8	90*	1.0	1.5	2.5	3.0	--	10.0	1.41
603594	717	907	2.0 [^]	75*	2.0 [^]	2.0 [^]	-	2.0 [^]	--	12.6 [^]	0.97 [^]
603596	725	919	3.0	64	1.0	3.0	5.0	2.3	4.5	10.4	0.79
603597	724	923	2.3	73	1.5	2.5	4.0	2.0	3.5	10.4	1.93
603598A	731	1013	2.0	60	1.0	2.5	4.0	2.5	1.0	15.2	1.81 [^]
603599A	802	1011	2.0	57	1.0	3.5*	4.5	2.3	1.0	15.2	1.40
603599B	720	1005	3.5	137*	4.0	1.0	1.5	2.8	2.0	19.0	2.68
603611A	726	1010	3.5	99*	2.0	1.0	1.5	3.0	3.0	13.0	1.12
603612	727	923	2.8	62*	1.0	1.0	1.5	2.8	5.0	9.7	1.13
603613	727	915	3.3	90*	2.0	3.0	5.0	2.8	3.0	10.4	1.25
603614A	721	925	4.0	68	1.0	2.5	4.0*	2.3	1.0	12.6	0.94
603615A	807	1024	3.0	111	1.5	1.0	2.0	2.8	3.0	12.8	1.05
603620	728	1005	2.5	85	1.0	2.0	3.5	2.5	1.0	19.1	1.72
603623	805	1011	2.8	109	2.0	1.0	1.5	2.0	4.0	9.9	1.56
603645	808	1013	3.0	92	2.0	1.0	1.0	2.8	--	9.9	1.11
603647	808	1012	3.0	122	2.0	1.0	1.5	2.8	--	10.5	1.20
603648	807	1012	4.3	109*	2.0	1.5	2.5	2.5	--	10.3	1.26
603653	804	1011	2.8	85	1.0	1.5	2.5*	2.5	--	13.9	1.50
603654	719	905	3.0	69	2.0	1.0	4.0*	2.5	--	6.8	1.43
603655	725	918	2.8	58	1.5	1.0	1.5	3.0	--	10.6	0.60
603656	721	915	2.5	52	1.5	1.5	4.0	3.0	--	11.4	0.73
603658	715	905	3.0	88	2.0	1.5	4.5	2.8	3.5	9.4	1.55
603660	726	915	2.5	31	2.0	4.5	5.0	2.5	3.0	7.7	0.24
603661A	730	913	3.3	49	2.0	2.5	4.5	2.8	2.5	8.1	0.51
603662A	719	909	2.5	45	1.0	1.0	3.5	2.8	--	11.0	0.77
603662B	731	913	3.0	47*	2.0	2.5	4.5	2.8	2.5	7.9	0.38
603663	719	909	2.3	59	1.0	1.0	3.5	2.5	--	10.9	0.82
603664	716	907	2.3	73	1.0	1.0	2.5	2.5	--	14.4	1.74
603666	721	901 [^]	2.5 [^]	76*	4.0 [^]	1.0 [^]	5.0 [^]	2.5 [^]	2.0	10.6 [^]	1.50 [^]
603667A	714	907	3.3	66	1.0	1.5	3.5*	2.5	--	11.6	1.42
603667B	719	911	3.3	75	1.5	1.5	4.5	3.3	--	13.6	1.12
603668A	714	907	2.5	77	1.0	1.5	5.0	2.8	--	15.2	1.59
603670	727	923	2.8	55	2.0	2.0	3.0*	2.5	--	14.2	1.07
603671	725	1005	3.3	76	1.0	2.0	4.5	2.8	4.0*	11.0	2.13
603672A	713	905	3.0	67	1.5	1.5	4.5	2.0	2.0	11.8	1.97
603673A	719	925	2.8	61*	2.0	1.0	2.5	2.5	3.0	13.3	1.76
603673C	719	1003	4.8	124	2.0	1.0	2.0	3.0	1.0	18.1	1.71
603673D	727	1007	3.0	104*	2.0	1.0	3.0	2.3	1.5	15.3	1.76
603674	723	919	3.8	103	2.0	3.0	5.0	3.0	4.5	11.0	1.10
603675	723	924	3.8	95	2.0	1.5	2.5	2.5	4.0	12.2	1.78
603676	726	1002	3.3	89*	2.0	2.0	4.0*	2.5	3.0*	12.4	1.50
603678A	731	1015	3.5	158*	2.0	1.0	1.5	2.3	2.5	10.3	1.85
603678B	731	1003	4.0	106	1.0	1.0	2.5	2.3	2.0	11.5	2.18
603679	803	1006	3.5	99	2.0	1.0	1.0	2.5	3.5	13.4	1.62
603682	725	919	3.3	88	3.0	1.0	2.0*	2.5	3.0	10.4	1.85

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603589	III	45.7 ^w	14.6 ^w	10.2	3.2	26.5	52.8	7.4
603592	IV	47.6 ^w	15.5 ^w	13.7	4.1	21.1	53.5	7.6
603593	IV	49.1 ^w	15.1 ^w	13.6	4.1	26.3	49.0	7.1
603594	II	44.9 ^{w^}	16.9 ^{w^}	12.6 [^]	3.5 [^]	25.4 [^]	50.4 [^]	8.1 [^]
603596	III	47.7 ^w	14.5 ^w	12.4	3.5	26.3	50.9	7.0
603597	III	47.4 ^w	16.8 ^w	11.1	4.2	23.5	53.1	8.1
603598A	IV	44.1	15.5	10.9	4.0	25.3	52.9	6.9
603599A	IV	44.5	15.8	11.0	3.3	22.8	55.4	7.5
603599B	IV	41.1	17.3	10.3	3.8	25.3	53.5	7.2
603611A	IV	47.0	14.5	10.9	3.8	23.1	54.6	7.6
603612	III	47.6 ^w	15.4 ^w	13.2	4.3	26.2	49.0	7.3
603613	II	43.9	15.0	10.9	5.3	28.7	47.3	7.8
603614A	III	41.5	18.5	10.4	4.1	26.4	52.4	6.8
603615A	V	43.7	16.1	9.4	4.1	25.5	52.8	8.2
603620	IV	46.1 [^]	14.9 [^]	9.0	3.6	29.3	50.8	7.2
603623	IV	49.2 ^w	12.7 ^w	12.6	3.6	23.0	52.9	8.0
603645	IV	47.8 ^w	13.3 ^w	13.0	3.8	22.5	52.2	8.5
603647	IV	49.5 ^w	13.5 ^w	12.0	4.0	23.2	52.3	8.6
603648	IV	47.5 ^w	14.1 ^w	11.9	3.4	20.1	55.8	8.8
603653	IV	46.5 ^w	16.0 ^w	12.0	3.3	24.8	52.2	7.6
603654	II	45.2 ^w	14.2 ^w	12.8	3.9	21.8	52.5	8.9
603655	III	46.0 ^w	15.2 ^w	13.3	3.3	27.8	48.2	7.3
603656	II	46.3 ^w	13.9 ^w	12.8	2.8	26.9	49.3	8.1
603658	II	45.2 ^w	14.1 ^w	11.3	3.8	27.3	48.9	8.7
603660	II	43.8	15.0	11.0	4.5	22.7	52.6	9.2
603661A	II	46.3 ^w	14.7 ^w	13.0	4.2	24.1	51.0	7.6
603662A	II	47.2 ^w	15.1 ^w	12.5	4.1	27.9	47.9	7.5
603662B	II	48.9 ^w	13.6 ^w	13.2	4.1	23.9	51.1	7.7
603663	II	48.2 ^w	15.0 ^w	12.5	4.1	27.6	48.2	7.6
603664	II	42.6 ^w	16.8 ^w	12.7	3.5	33.5	44.2	6.1
603666	II	47.7 [^]	14.5 [^]	11.9 [^]	3.8 [^]	20.9 [^]	54.6 [^]	8.8 [^]
603667A	II	46.8 ^w	15.8 ^w	13.3	4.1	27.2	48.6	6.9
603667B	II	45.9 ^w	15.9 ^w	13.0	4.9	29.8	46.0	6.3
603668A	II	45.4 ^w	16.1 ^w	12.7	3.6	34.5	43.2	6.0
603670	III	46.1 ^w	15.7 ^w	12.5	4.2	29.3	47.9	6.1
603671	IV	45.8 ^w	15.4 ^w	13.2	3.7	24.4	51.8	6.9
603672A	II	42.1	18.1	10.2	3.8	27.4	50.0	8.6
603673A	III	42.6	16.6	10.7	4.3	30.5	48.5	6.0
603673C	IV	41.8	17.4	11.3	5.9	30.1	46.7	5.9
603673D	IV	43.1	17.0	10.8	4.4	24.9	52.3	7.6
603674	III	48.2 ^w	16.4 ^w	12.5	3.6	30.8	46.6	6.6
603675	III	46.9 ^w	17.0 ^w	14.8	3.5	24.8	49.6	7.3
603676	IV	46.6 ^w	15.1 ^w	10.2	4.1	28.3	50.8	6.6
603678A	IV	44.2	15.9	10.6	3.8	22.2	54.7	8.6
603678B	IV	48.5	13.8	11.6	3.8	20.7	54.8	9.1
603679	IV	46.1 ^w	17.4 ^w	11.6	4.3	27.3	50.8	6.0
603682	III	40.5	17.7	11.8	3.7	25.5	51.4	7.6

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603683	Pei xian lian mao sheng	Jiangsu	China	China	1998	IV
603684	Xin yi hei ke zi	Jiangsu	China	China	1998	IV
603686	Dong hai hei tie jia	Jiangsu	China	China	1998	IV
603687A	Dong hai bai guo	Jiangsu	China	China	1998	IV
603687B	(Dong hai bai guo)	Jiangsu	China	China	1998	IV
603690	Xu zhou ping ding wu	Jiangsu	China	China	1998	IV
603691	Su qian hong mao zi	Jiangsu	China	China	1998	IV
603692	Si hong xiao ya dou	Jiangsu	China	China	1998	IV
603694A	Lian shui bai hua qiu	Jiangsu	China	China	1998	III
603694B	(Lian shui bai hua qiu)	Jiangsu	China	China	1998	IV
603698B	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698D	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698E	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698H	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603698I	(Dan yang shui bai dou)	Jiangsu	China	China	1998	I
603704A	Ya que yan	Jiangxi	China	China	1998	I
603704B	(Ya que yan)	Jiangxi	China	China	1998	II
603705A	Liu yue huang	Jiangxi	China	China	1998	III
603706A	Huang dou	Jiangxi	China	China	1998	IV
603707	Hu kou cha dou	Jiangxi	China	China	1998	II
603711A	Hua lian ba	Sichuan	China	China	1998	IV
603715	Wen jiang san ke dou	Sichuan	China	China	1998	IV
603716	Wen jiang huang ke zi	Sichuan	China	China	1998	III
603717	Da yi er zao huang	Sichuan	China	China	1998	III
603718A	Xin jin bai mao zi	Sichuan	China	China	1998	IV
603718B	(Xin jin bai mao zi)	Sichuan	China	China	1998	IV
603719A	Eng xi liu yue huang (xiao)	Sichuan	China	China	1998	II
603719B	(Eng xi liu yue huang (xiao))	Sichuan	China	China	1998	IV
603719C	(Eng xi liu yue huang (xiao))	Sichuan	China	China	1998	III
603721	You yang qing dou	Sichuan	China	China	1998	IV
603723	Chun dou	Sichuan	China	China	1998	III
603724A	Liu yue huang	Sichuan	China	China	1998	IV
603724C	(Liu yue huang)	Sichuan	China	China	1998	IV
603725	Qiao wo huang dou	Sichuan	China	China	1998	IV
603726	Qing hu dou	Sichuan	China	China	1998	IV
603727	Hei da dou	Sichuan	China	China	1998	I
603728	Hei dou	Sichuan	China	China	1998	II
603729	Hie huang dou	Sichuan	China	China	1998	III
603735A	Lu pi dou	Sichuan	China	China	1998	IV
603735B	(Lu pi dou)	Sichuan	China	China	1998	IV
603738	Da hei dou	Sichuan	China	China	1998	IV
603742A	8601 Wei -1	Sichuan	China	China	1998	IV
603742B	(8601 Wei -1)	Sichuan	China	China	1998	IV
603742D	(8601 Wei -1)	Sichuan	China	China	1998	IV
603743A	No. 6	Sichuan	China	China	1998	IV
603743B	(No. 6)	Sichuan	China	China	1998	IV
603744	Zao huang dou	Sichuan	China	China	1998	II

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603683	IV	S	W	G	Sa	N	Br	I	Y	Bf		4N
603684	IV	S	P	G	A	N	Br	I	Y	Bf		2N
603686	IV	S	P	G	A	N	Br	I	Y	Ib		3N
603687A	IV	D	W	G	A	N	Br	I	Y	Bf	Vhil	3N
603687B	IV	S	W	G	A	Ssp	Br	I	Y	Bf		3N
603690	IV	S	P	G	A	N	Br	I	Y	Bf		3N
603691	IV	D	P	T	A	N	Br	I	Y	Bl		3N
603692	IV	D	W	T	A	Sp	Br	I	Y	Brbl	Vhil	4N
603694A	III	D	P	G	Sa	N	Tn	I	Y	Bf		4N
603694B	IV	D	W	G	A	Ssp	Br	D	Y	Bf		3N
603698B	I	N	W	G	E	N	Br	I	Lgn	Bf		3N
603698D	I	N	P	G	E	N	Br	I	G	G		2N
603698E	I	S	P	G	E	N	Br	I	Ggn	G		2N
603698H	I	N	P	G	E	N	Br	D	Lgn	Gn	Vhil, Vsc	3N
603698I	I	N	W	G	E	N	Br	I	Y	Y		3N
603704A	I	S	P	Lt	Sa	Ssp	Br	I	Y	Brbl	Vhil	3N
603704B	II	S	P	Lt	Sa	N	Br	I	Y	Brbl	Vhil	3N
603705A	III	D	P	G	A	N	Br	D	Y	Bf		3N
603706A	IV	S	W	G	A	Ssp	Tn	I	Y	Bf		3N
603707	II	S	P	T	E	Ssp	Br	I	Br	Rbr	Sdef	3N
603711A	IV	S	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603715	IV	D	P	T	Sa	N	Tn	I	Y	Br		3N
603716	III	D	P	T	A	N	Tn	I	Y	Brbl	Vhil	3N
603717	III	S	P	T	A	N	Tn	I	Y	Bl		3N
603718A	IV	S	P	G	A	N	Br	I	Y	Bf	Vhil	3N
603718B	IV	S	W	G	A	N	Dbr	I	Y	Bf		3N
603719A	II	D	P	T	E	N	Br	I	Y	Brbl	Vhil	3N
603719B	IV	D	P	T	E	Ssp	Br	I	Y	Brbl	Vhil	3N
603719C	III	D	P	G	A	Ssp	Br	I	Y	Ib	Vhil	2N
603721	IV	D	W	G	A	N	Tn	I	Lgn	Bf		2N
603723	III	D	W	G	A	N	Br	I	Y	Bf		2N
603724A	IV	D	P	T	A	N	Br	I	Y	Brbl	Vhil	3N
603724C	IV	S	W	G	Sa	N	Br	I	Y	Bf		2N
603725	IV	D	W	T	A	N	Br	I	Y	Br		3N
603726	IV	D	W	Lt	Sa	Ssp	Br	D	Gn	Bl		3N
603727	I	D	P	T	Sa	Ssp	Tn	I	Bl	Bl		3N
603728	II	D	P	Lt	Sa	N	Tn	I	Bl	Bl	Sdef	3N
603729	III	D	P	Lt	A	N	Br	Lb	Bl	Bl	Sdef	3N
603735A	IV	D	P	Lt	A	N	Br	I	Gn	Bl		2N
603735B	IV	D	W	G	A	N	Br	I	Gn	Bf		3N
603738	IV	D	W	T	A	N	Br	I	Bl	Bl		3N
603742A	IV	D	P	T	A	N	Br	I	Y	Tn		3N
603742B	IV	D	P	T	A	N	Br	I	Y	Tn		3N
603742D	IV	D	P	T	A	N	Br	I	Y	G		3N
603743A	IV	D	P	T	A	N	Br	I	Y	G		2N
603743B	IV	D	P	T	A	N	Br	I	Y	Brbl	Sdef, Vhil	3N
603744	II	D	W	G	E	N	Br	I	Lgn	Bf		3N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering date	Maturity date	Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	(mmdd)	(mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
603683	725	1005	3.5	116	2.0	1.0	1.5	2.3	1.5	12.0	1.59
603684	723	929	3.0	93	2.0	1.0	1.5	3.0	1.5	14.0	1.82
603686	725	1003	2.8	100*	2.0	1.5	4.5	3.0	2.5	11.7	1.90
603687A	731	1009	2.3	67	1.0	2.0*	4.5	2.5	1.5	13.3	2.00
603687B	816	1021	3.3	115*	2.0	1.0	1.5	2.0	1.0	10.7	1.91
603690	725	929	4.0	91	2.0	1.0	1.5	2.5	3.0*	11.9	1.76
603691	721	1009	2.0	65	1.0	1.5	3.5	2.3	4.5	14.2	1.99
603692	727	929	3.3	58	1.5	1.0	2.0	2.0	3.0	5.6	1.47*
603694A	725	929	3.3	82*	1.0	1.5	3.5	2.8	1.0	18.4	2.33
603694B	729	1005	2.5	74	1.0	1.0	4.5	2.0	1.0	14.1	2.18
603698B	626	826	1.5 [^]	64*	3.0 [^]	1.0 [^]	5.0 [^]	2.0 [^]	1.0	13.7 [^]	1.77 [^]
603698D	629	825 [^]	2.0 [^]	67*	2.5 [^]	1.0 [^]	2.0 [^]	2.0 [^]	2.0	10.7 [^]	2.55 [^]
603698E	629	825 [^]	2.0 [^]	62*	2.0 [^]	1.0 [^]	3.0 [^]	2.0 [^]	2.0	10.4 [^]	2.65 [^]
603698H	629	822	1.5 [^]	44	3.0 [^]	1.0 [^]	4.0 [^]	2.5 [^]	1.0	11.3 [^]	1.88 [^]
603698I	625	825	2.0 [^]	84*	3.0 [^]	1.0 [^]	5.0 [^]	2.0 [^]	1.0	11.1 [^]	1.67 [^]
603704A	715	830 [^]	4.0 [^]	73	2.0 [^]	1.0 [^]	3.0 [^]	1.5 [^]	2.0	7.2 [^]	1.17 [^]
603704B	719	916	3.0	87*	2.0	3.0*	5.0	3.0	3.0	8.8	1.14
603705A	725	925	2.8	42	1.0	1.0	1.0	2.0	1.0	13.6*	0.70
603706A	808	1019	3.0	106	2.0	1.0	2.0	2.3	2.0	13.5	1.09*
603707	715	910	2.5	84*	2.0	1.5	3.5	2.8	--	15.8	1.70*
603711A	726	1005	3.3	98*	2.0	1.0	1.5	2.8	2.5	11.5	1.20
603715	808	1009	2.8	91*	1.5	1.0	1.5	2.3	3.0	11.8	1.00
603716	725	1001	3.3	100	1.5	1.0	1.5	2.3	1.5	13.9	1.36
603717	727	1001	3.5	110	2.0	1.0	1.5	2.5	1.5	13.9	1.46
603718A	804	1011	3.3	113	2.0	1.0	2.0	2.3	2.0	12.0	1.53
603718B	803	1013	3.8	129	2.0	2.0*	2.5	2.0	2.0	12.7	1.54
603719A	721	915	3.0	86	1.5	1.5	3.5	2.3	3.5	9.6	1.39
603719B	804	929	2.5	82	1.0	1.0	2.0*	2.5	2.5	8.9	0.93
603719C	729	918	3.5	78	1.5	1.5	3.5	2.3	2.0	7.8	1.17
603721	804	1002	2.8	70	1.0	1.0	1.5	1.8	2.0	9.0	1.07
603723	725	927	3.3	64	1.0	1.0	1.5	2.0	2.0	9.9	1.26
603724A	804	1015*	3.5	97*	1.5	2.5*	4.0*	2.0	2.5	8.3	1.22
603724C	812	1021	4.0	103*	2.0	1.0	1.5	2.5	2.5	9.4	0.76
603725	727	1001	3.0	86*	1.0	1.5	3.5	2.0	2.5	9.5	1.22
603726	727	929	3.0	94	1.5	1.0	1.5	2.3	3.0	9.2	1.43
603727	716	901	3.0 [^]	55	1.0 [^]	1.0 [^]	2.0 [^]	2.5 [^]	--	6.9 [^]	1.71 [^]
603728	716	909	2.8	60*	1.0	1.5	5.0	2.8	--	9.6	0.94
603729	725	921	2.8	69*	1.5	1.5	3.0*	2.8	--	18.0*	0.99
603735A	729	1006	2.5	87	1.0	1.0	1.5	1.8	2.0	10.1	1.93
603735B	729	1005	2.5	68*	1.0	1.0	1.5	2.0	3.5	7.8	0.97
603738	804	1017	2.8	93	1.5	1.0	1.5	2.5	--	16.5	1.81
603742A	721	1006	2.0	57	1.0	2.0*	2.5*	2.0	2.5	22.0	1.38 [^]
603742B	721	1003	2.8	72	1.0	1.5	2.5	2.0	3.0	18.7	1.93*
603742D	721	1005	2.5	64	1.0	1.5	2.5*	2.0	2.5	21.6	2.29
603743A	721	1005	1.8	57	1.0	1.0	2.0*	2.0	2.5	21.0	2.34
603743B	725	1003	3.5	53*	1.0	1.0	1.0	2.3	1.0	14.1*	1.03*
603744	709	905	1.5	63	1.0	3.0	5.0	2.3	1.0	13.8	1.54*

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603683	IV	46.4	15.7	11.6	4.0	22.2	54.5	7.6
603684	IV	43.4	17.1	13.0	3.6	23.9	52.4	7.1
603686	IV	43.6	16.2	10.8	4.4	26.6	51.6	6.6
603687A	IV	44.8	15.9	10.6	3.4	20.7	57.3	8.0
603687B	IV	46.2	15.6	11.9	3.4	19.9	55.6	9.1
603690	IV	45.2 ^w	16.9 ^w	11.0	6.1	22.1	54.2	6.6
603691	IV	44.8 ^w	16.6 ^w	13.0	4.0	25.3	50.6	7.1
603692	IV	41.8	12.8	14.4	3.4	20.2	52.9	9.2
603694A	III	42.5	17.5	10.1	4.6	27.2	51.3	6.9
603694B	IV	41.6	18.5	12.7	3.2	23.6	53.0	7.5
603698B	I	42.8 ^{w^}	20.4 ^{w^}	12.7 [^]	3.1 [^]	25.3 [^]	50.5 [^]	8.3 [^]
603698D	I	46.8 ^{w^}	16.6 ^{w^}	11.7 [^]	3.3 [^]	26.6 [^]	50.3 [^]	8.1 [^]
603698E	I	47.3 ^{w^}	16.5 ^{w^}	12.0 [^]	3.4 [^]	26.9 [^]	50.0 [^]	7.8 [^]
603698H	I	46.6 ^{w^}	17.9 ^{w^}	12.9 [^]	3.0 [^]	24.7 [^]	50.9 [^]	8.6 [^]
603698I	I	40.1 [^]	18.9 [^]	13.6 [^]	3.6 [^]	23.3 [^]	50.3 [^]	9.2 [^]
603704A	I	42.6 [^]	16.3 [^]	12.5 [^]	3.7 [^]	24.4 [^]	52.0 [^]	7.5 [^]
603704B	II	44.7	16.1	11.9	4.4	24.8	50.4	8.4
603705A	III	46.5	15.6	13.0	4.1	25.7	50.3	6.9
603706A	IV	43.8	15.2	10.7	3.3	21.4	54.4	10.2
603707	II	43.7 ^w	17.4 ^w	11.9	3.6	35.8	42.8	5.8
603711A	IV	47.0	14.6	11.8	3.4	22.0	55.0	7.7
603715	IV	43.1	15.4	10.0	4.1	26.2	51.6	8.0
603716	III	42.0	17.1	11.0	4.4	26.6	52.0	6.0
603717	III	41.7	17.9	9.5	4.0	27.3	52.8	6.4
603718A	IV	47.9	13.8	13.3	3.3	21.6	54.6	7.3
603718B	IV	43.4	15.8	13.0	3.5	26.4	50.4	6.7
603719A	II	41.8 ^w	14.6 ^w	10.4	4.5	26.1	50.9	8.1
603719B	IV	49.2	14.0	12.1	4.8	22.8	52.4	8.0
603719C	III	46.3	15.6	9.7	4.0	21.5	55.4	9.5
603721	IV	46.2 ^w	15.0 ^w	12.4	3.7	21.1	54.2	8.6
603723	III	43.6	17.0	10.3	3.7	28.3	50.5	7.3
603724A	IV	40.8	14.7	10.1	4.0	21.9	55.1	9.0
603724C	IV	44.0	13.0	10.6	4.3	22.7	54.3	8.1
603725	IV	43.3	16.5	10.3	3.3	26.5	52.1	7.7
603726	IV	46.4 ^w	14.1 ^w	12.9	4.4	23.4	51.9	7.5
603727	I	45.8 ^{w^}	14.9 ^{w^}	13.2 [^]	3.8 [^]	21.3 [^]	53.4 [^]	8.3 [^]
603728	II	47.6 ^w	15.0 ^w	12.4	4.1	23.8	52.0	7.7
603729	III	45.8 ^w	16.4 ^w	13.2	3.5	29.0	47.2	7.2
603735A	IV	46.9 ^w	16.3 ^w	12.7	3.7	24.9	52.0	6.6
603735B	IV	49.1 ^w	14.5 ^w	12.6	3.5	23.0	53.7	7.2
603738	IV	44.9 ^w	14.7 ^w	12.3	3.3	24.7	52.3	7.4
603742A	IV	42.7	18.0	9.1	3.6	26.7	53.6	7.0
603742B	IV	44.6	16.0	11.1	4.5	28.8	49.2	6.4
603742D	IV	41.4	17.3	11.4	3.9	28.2	49.5	7.0
603743A	IV	42.6	18.7	11.4	3.5	26.4	51.4	7.2
603743B	IV	42.7	18.0	11.7	3.8	25.4	52.1	7.0
603744	II	46.7 ^w	17.8 ^w	12.0	3.2	29.1	48.9	6.9

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
603745	Ben di huang dou	Sichuan	China	China	1998	IV
603746	Bei chuan qi yue huang	Sichuan	China	China	1998	II
603747	Yi long tian kan dou No. 3	Sichuan	China	China	1998	II
603748	Guang han qi yue huang no. 2	Sichuan	China	China	1998	IV
603749	Xin jin san ke dou	Sichuan	China	China	1998	II
603750A	92-526	Sichuan	China	China	1998	I
603750B	(92-526)	Sichuan	China	China	1998	II
603751A	Liu yue dou	Zhejiang	China	China	1998	II
603751B	(Liu yue dou)	Zhejiang	China	China	1998	II
603752	Tie jiang dou	Zhejiang	China	China	1998	III
603753A	You yi dou	Zhejiang	China	China	1998	II
603753B	(You yi dou)	Zhejiang	China	China	1998	III
603754	Liu yue dou	Zhejiang	China	China	1998	I
603755A	Liu yue dou	Zhejiang	China	China	1998	II
603755B	(Liu yue dou)	Zhejiang	China	China	1998	III
603755C	(Liu yue dou)	Zhejiang	China	China	1998	III
603755D	(Liu yue dou)	Zhejiang	China	China	1998	III
603755E	(Liu yue dou)	Zhejiang	China	China	1998	IV
603756	Bai dou	Zhejiang	China	China	1998	II
603757A	Liu yue dou	Zhejiang	China	China	1998	II
603757B	(Liu yue dou)	Zhejiang	China	China	1998	II
603757C	(Liu yue dou)	Zhejiang	China	China	1998	II
603758A	Liu yue dou	Zhejiang	China	China	1998	I
603758B	(Liu yue dou)	Zhejiang	China	China	1998	I
603758C	(Liu yue dou)	Zhejiang	China	China	1998	I
603759A	Liu yue dou	Zhejiang	China	China	1998	II
603760	Jiang shui dou	Zhejiang	China	China	1998	II
603764B	(Yuan dou)	Zhejiang	China	China	1998	II
603777	Wan ning huang dou	Hainan	China	China	1998	IV
603908	Baktae	unknown	North Korea	North Korea	1998	II
603909A	Byol	unknown	North Korea	North Korea	1998	IV
603909B	(Byol)	unknown	North Korea	North Korea	1998	IV
603909C	(Byol)	unknown	North Korea	North Korea	1998	IV
603910A	Cin	unknown	North Korea	North Korea	1998	IV
603910B	(Cin)	unknown	North Korea	North Korea	1998	IV
603911B	(Jijori)	unknown	North Korea	North Korea	1998	III
603911C	(Jijori)	unknown	North Korea	North Korea	1998	IV
603912	Kange	unknown	North Korea	North Korea	1998	III
603913A	No. 1	unknown	North Korea	North Korea	1998	III
603913B	(No. 1)	unknown	North Korea	North Korea	1998	IV
603913C	(No. 1)	unknown	North Korea	North Korea	1998	IV
603914	Samsu	unknown	North Korea	North Korea	1998	IV
603915C	(Uid)	unknown	North Korea	North Korea	1998	III
603915D	(Uid)	unknown	North Korea	North Korea	1998	IV
603915E	(Uid)	unknown	North Korea	North Korea	1998	IV
603916	Unsan	unknown	North Korea	North Korea	1998	IV
603917		unknown	North Korea	North Korea	1998	IV

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
603745	IV	S	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603746	II	D	P	T	Sa	N	Tn	I	Y	Brbl	Vhil	3N
603747	II	D	P	T	A	N	Br	D	Y	Bl	Na	3N
603748	IV	D	W	T	A	N	Br	I	Y	Brbl	Vhil	3N
603749	II	D	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603750A	I	D	P	T	A	N	Tn	I	Y	Br		3N
603750B	II	N	W	Lt	A	N	Tn	I	Y	Brbl	Vhil	3N
603751A	II	D	P	T	E	Ssp	Tn	I	Y	Br	Sdef	3N
603751B	II	D	P	T	Sa	Ssp	Tn	I	Y	Br		3N
603752	III	D	P	T	A	N	Tn	D	Lgn	Br		3N
603753A	II	D	P	T	A	N	Tn	I	Lgn	Br		3N
603753B	III	D	W	Lt	A	N	Br	I	Y	Brbl	Vhil	3N
603754	I	D	W	Lt	A	N	Br	I	Y	Br		3N
603755A	II	D	P	T	E	Ssp	Tn	I	Y	Br		3N
603755B	III	D	P	T	Sa	Ssp	Tn	I	Y	Br		3N
603755C	III	S	P	T	E	Ssp	Tn	I	Y	Br		3N
603755D	III	D	W	T	E	N	Tn	I	Y	Br	Sdef	3N
603755E	IV	D	W	Lt	E	N	Tn	D	Y	Br		3N
603756	II	D	W	Lt	A	N	Br	I	Y	Br		3N
603757A	II	S	P	T	E	Ssp	Tn	I	Y	Brbl	Vhil	3N
603757B	II	D	W	Lt	A	N	Br	I	Y	Br		3N
603757C	II	D	W	G	A	N	Tn	I	Y	Bf		3N
603758A	I	S	P	Lt	A	N	Br	I	Y	Br		3N
603758B	I	S	P	T	Sa	Ssp	Br	I	Y	Br		3N
603758C	I	S	P	T	E	Ssp	Br	I	Y	Br		3N
603759A	II	D	P	T	E	Ssp	Br	I	Gn	Brbl	Vhil	3N
603760	II	D	P	T	E	Ssp	Tn	I	Br	Rbr		3N
603764B	II	D	P	G	E	N	Br	I	Gn	Ib	Vhil	3N
603777	IV	D	P	Lt	A	Ssp	Br	I	Y	Br		3N
603908	II	D	W	G	A	Ssp	Tn	I	Y	Y		2N
603909A	IV	D	W	G	Sa	N	Br	I	Y	Y		2N
603909B	IV	D	P	G	A	N	Br	I	Lgn	Lgn		2N
603909C	IV	D	P	G	E	Ssp	Br	I	Y	Y		3N
603910A	IV	N	W	T	Sa	Ssp	Tn	Lb	Bl	Bl		3N
603910B	IV	N	P	T	E	N	Tn	B	Bl	Bl	Flk, Sdef	4N
603911B	III	N	W	T	E	Ssp	Br	I	Y	Bl		3N
603911C	IV	D	W	G	E	N	Br	I	Y	Bf		1N
603912	III	D	P	G	E	Ssp	Br	I	Y	Y	Def	2N
603913A	III	D	P	G	E	N	Br	I	Y	Y	Def	3N
603913B	IV	D	P	G	E	Ssp	Br	I	Y	Y	Sdef	2N
603913C	IV	D	P	G	E	N	Br	I	Y	Y	Sdef, Vhil	3N
603914	IV	N	P	T	A	Ssp	Br	I	Gn	Br	Sdef	3N
603915C	III	D	P	T	A	Ssp	Br	I	Y	Br		3N
603915D	IV	N	W	T	E	N	Tn	I	Y	Bl		3N
603915E	IV	D	W	G	Sa	N	Br	I	Y	Y		2N
603916	IV	D	W	T	Sa	Ssp	Br	I	Y	Tn	Sdef	3N
603917	IV	D	W	G	E	N	Tn	I	Y	Bf		2N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed			Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)	Weight (cg sd ⁻¹)	
603745	804	1007	4.0	74	2.0	1.5	2.5	2.5	3.5	8.3	2.05*
603746	721	913	2.8	68	1.0	1.5	3.5	2.8	4.0*	8.0	1.30
603747	705	904	1.3	40	1.0	1.0	3.0	1.5	1.0	11.4	1.47
603748	802	1003	4.0	83	1.0	2.0	4.0*	2.3	2.5	7.6	1.65*
603749	721	913	3.0	38*	1.5	4.5	5.0	2.5	2.0	12.2	0.28
603750A	717	904 [^]	2.5 [^]	46*	1.0 [^]	2.0 [^]	5.0 [^]	2.0 [^]	1.0	14.2 [^]	1.74 [^]
603750B	723	917*	3.0 [^]	40*	2.0 [^]	1.0 [^]	5.0 [^]	2.5 [^]	1.0	10.8 [^]	0.50 [^]
603751A	719	911	2.0	75	1.0	4.0*	5.0	3.0	3.0	10.5	1.19
603751B	719	909	2.5	74	1.5	1.5	4.5	2.5	2.5	13.1	1.11
603752	725	919	2.3	63	1.0	1.0	2.0	2.5	3.0	13.2	0.95
603753A	722	914	2.5	67*	1.0	2.0	3.0*	2.5	2.5	13.8	1.24
603753B	721	919	3.0	43	1.5	2.0	3.0*	2.5	2.0	12.3	0.60
603754	717	907	1.5 [^]	34*	1.0 [^]	1.0 [^]	-	2.0 [^]	1.0	11.7 [^]	0.78 [^]
603755A	721	913	2.8	74	1.5	1.5	2.0*	2.5	1.5	12.9	1.52
603755B	723	927	3.3	77	1.0	1.5	3.5	3.3	4.0*	14.8	0.73
603755C	725	927	2.3	85	2.0	1.5	2.0*	3.0	4.0	13.4	0.87
603755D	723	927	2.8	79	1.0	2.0	2.5	2.5	3.0	11.4	1.46
603755E	723	1002	2.8	83	1.5	1.0	2.5	2.8	2.0	13.0	1.42
603756	717	909	2.0	48	1.0	4.0*	5.0	2.8	1.0	13.0	0.76
603757A	719	911	3.3	71	2.0	1.5	5.0	2.5	3.0	9.9	1.11
603757B	718	910	2.0	42*	1.0	3.5	5.0	2.8	2.0	12.6	0.71
603757C	719	913	2.8	66*	1.0	3.0*	5.0	3.0	2.5	15.3	1.07*
603758A	717	829 [^]	3.5 [^]	48*	2.0 [^]	1.0 [^]	4.0 [^]	2.0 [^]	1.0	9.7 [^]	1.19 [^]
603758B	713	903	2.0 [^]	70*	2.0 [^]	1.0 [^]	2.0 [^]	2.0 [^]	2.0	8.9 [^]	1.02 [^]
603758C	717	903 [^]	2.5 [^]	76*	2.0 [^]	1.0 [^]	3.0 [^]	2.5 [^]	2.0	9.8 [^]	1.40 [^]
603759A	720	917	3.0	73	1.0	2.5	4.5	2.8	2.5	11.7	0.85
603760	717	911	2.5	63	1.0	2.0	4.0*	3.0	--	14.6	1.27
603764B	720	919	2.3	70	1.0	1.0	4.0	3.0	2.0	14.6	1.65
603777	727	929	2.8	68*	1.0	1.0	1.0	2.8	2.0	14.5	2.10*
603908	715	918	2.3	58	1.0	5.0	5.0	3.3	2.5	21.3	1.09
603909A	725	1003	1.3	59	1.0	1.0	1.0	2.0	4.5	16.9	2.41
603909B	804	1018	2.3	74	1.0	1.0	1.0	1.8	2.0	15.2	2.27
603909C	723	1013	2.0	68	1.0	1.0	1.0	2.8	3.5	20.8	1.65 [^]
603910A	725	1009	3.3	82	4.0	2.5*	3.5	2.0	--	9.7	1.06 [^]
603910B	807	1021	2.5	86	4.0	1.0	1.0	2.5	--	13.9	2.65*
603911B	719	927	3.5	105	3.0	1.0	3.5	3.0	2.5	13.9	2.17
603911C	721	1007	1.5	71	1.0	1.0	1.0	1.5	1.0	12.8	2.46*
603912	719	927	1.8	55	1.0	1.0	1.0	3.5	3.0	24.0	2.09 [^]
603913A	711	923	2.0	62	1.0	1.0	1.0	3.0	2.5	17.2	2.33
603913B	725	1017	2.0	67	1.0	1.0	1.5	3.0	2.5	20.9	1.85 [^]
603913C	725	1020	1.8	64	1.0	1.0	1.0	3.3	4.0	19.9	1.49 [^]
603914	715	1003	2.5	116	4.0	1.0	1.0	3.0	3.0	17.6*	1.36
603915C	719	927	1.3	48	1.0	1.0	2.0	2.8	2.0	13.4	1.51
603915D	711	1003	2.0	103	3.0	1.0	1.0	3.5	1.5	17.9	3.15
603915E	725	1003	1.0	63	1.0	1.0	1.0	2.0	3.5	17.1	2.60
603916	727	1017	2.5	82	1.0	1.0	1.0	3.0	4.0*	22.6	1.32 [^]
603917	726	1013	2.8*	89*	1.0	1.0	1.0	1.5	1.0	12.0	3.15*

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
603745	IV	45.7 ^w	15.2 ^w	11.4	4.0	21.5	54.7	8.4
603746	II	45.5 ^w	14.6 ^w	11.4	3.8	26.2	50.2	8.4
603747	II	39.5	20.7	11.0	4.4	20.5	57.3	6.8
603748	IV	42.1	15.9	11.9	4.9	21.4	54.5	7.4
603749	II	41.6	16.5	10.0	4.7	31.8	47.4	6.1
603750A	I	41.5 [^]	18.6 [^]	12.4 [^]	3.3 [^]	23.3 [^]	54.1 [^]	7.0 [^]
603750B	II	41.1 [^]	17.6 [^]	12.9 [^]	3.6 [^]	25.6 [^]	50.6 [^]	7.3 [^]
603751A	II	46.1	14.8	11.3	3.6	22.3	52.6	10.2
603751B	II	46.3	14.5	11.3	3.6	26.0	49.6	9.5
603752	III	44.2 ^w	16.9 ^w	12.9	4.2	28.9	47.4	6.6
603753A	II	45.4 ^w	16.1 ^w	13.0	3.5	25.3	50.3	7.9
603753B	III	49.5	13.6	9.7	4.8	26.4	52.0	7.2
603754	I	41.3 [^]	18.4 [^]	12.6 [^]	3.3 [^]	25.0 [^]	51.3 [^]	7.8 [^]
603755A	II	43.4	16.9	10.3	4.0	27.4	49.6	8.7
603755B	III	46.0 ^w	14.7 ^w	12.0	4.0	30.5	46.9	6.7
603755C	III	48.6 ^w	14.9 ^w	12.7	3.7	26.4	48.7	8.4
603755D	III	43.1	16.2	8.7	4.2	25.4	54.1	7.5
603755E	IV	41.7	16.3	10.6	4.3	25.7	52.8	6.6
603756	II	46.4	16.3	11.9	3.9	25.4	51.4	7.3
603757A	II	42.1	15.7	10.6	4.2	26.2	49.8	9.3
603757B	II	46.7	15.3	12.2	4.1	26.9	50.0	6.9
603757C	II	44.6	16.3	10.5	3.5	33.7	46.0	6.4
603758A	I	43.2 [^]	16.9 [^]	13.6 [^]	3.9 [^]	23.2 [^]	51.5 [^]	7.8 [^]
603758B	I	42.6 [^]	15.8 [^]	12.5 [^]	4.5 [^]	22.9 [^]	50.5 [^]	9.7 [^]
603758C	I	43.3 [^]	16.0 [^]	13.1 [^]	4.5 [^]	25.8 [^]	47.9 [^]	8.7 [^]
603759A	II	50.4 ^w	14.9 ^w	12.9	3.6	28.1	48.5	6.8
603760	II	49.4 ^w	15.2 ^w	12.5	3.2	26.9	48.8	8.6
603764B	II	48.1 ^w	17.2 ^w	12.2	4.5	30.4	46.1	6.8
603777	IV	39.4	17.2	11.4	3.9	27.1	51.2	6.3
603908	II	43.1	17.3	10.6	4.3	27.5	51.1	6.5
603909A	IV	43.7 ^w	19.0 ^w	13.3	3.6	24.0	51.5	7.6
603909B	IV	44.8 ^w	16.0 ^w	13.4	3.4	21.0	54.9	7.2
603909C	IV	49.3 ^w	15.5 ^w	12.4	3.5	22.4	54.1	7.6
603910A	IV	47.6 ^w	14.6 ^w	13.6	3.7	18.5	56.1	8.2
603910B	IV	51.1 ^w	14.0 ^w	10.7	3.3	24.1	53.9	8.0
603911B	III	45.9	17.2	8.8	5.0	27.0	52.3	6.8
603911C	IV	38.9	18.2	11.9	3.3	20.1	57.1	7.7
603912	III	48.0	13.0	10.1	3.7	22.8	55.5	7.8
603913A	III	43.5	18.0	9.0	3.3	24.1	56.3	7.2
603913B	IV	46.4	16.1	10.5	3.2	22.2	57.1	7.0
603913C	IV	48.0 ^w	17.0 ^w	12.4	3.3	24.1	53.0	7.2
603914	IV	44.0 ^w	18.8 ^w	11.5	4.0	24.9	52.4	7.2
603915C	III	40.6	17.3	8.0	3.7	21.9	58.8	7.6
603915D	IV	43.0	18.2	8.6	3.7	23.4	57.5	6.8
603915E	IV	43.3 ^w	18.5 ^w	10.5	3.6	21.8	55.4	8.8
603916	IV	46.2 ^w	17.2 ^w	11.0	3.6	24.6	54.2	6.6
603917	IV	41.8	17.5	10.3	3.4	23.1	56.4	6.8

Table 1.2 Identification and origin information for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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
612611	Browngilgun	unknown	North Korea	North Korea	1998	III
612612A	Ryong song	unknown	North Korea	North Korea	1998	IV
612612B	(Ryong song)	unknown	North Korea	North Korea	1998	IV
612616	Nyong byon	unknown	North Korea	North Korea	1998	III
612617A	Kapsan	unknown	North Korea	North Korea	1998	I
612708D	(K 89-9081)	Heilongjiang	China	China	1999	I
612709C	(K 87-104)	Heilongjiang	China	China	1999	I
612711B	(K 93-89)	Heilongjiang	China	China	1999	I
612713A	He feng 910	Heilongjiang	China	China	1999	I
612713B	(He feng 910)	Heilongjiang	China	China	1999	I
612714B	(He feng 1538)	Heilongjiang	China	China	1999	I
612715	Hei nong 40	Heilongjiang	China	China	1999	I
612716	Harbin 93-6349	Heilongjiang	China	China	1999	I
612717	Harbin 94-2508	Heilongjiang	China	China	1999	I
612722	Jilin 34	Jilin	China	China	1999	I
612723	Jilin 35	Jilin	China	China	1999	I
612724	Jilin 36	Jilin	China	China	1999	I
612725	Jilin 37	Jilin	China	China	1999	I
612726	Jilin 8966-25	Jilin	China	China	1999	I
612729	Zhong huong No. 9	Beijing	China	China	1999	II
612730	Zhong huong No. 10	Beijing	China	China	1999	II
612731	Ke fong No. 6	Beijing	China	China	1999	II
612732	Zhao shu 18	Beijing	China	China	1999	I
612733	Jiqing No. 1	Jilin	China	China	2000	II
612735	Jiunong 21	Jilin	China	China	2000	I
612736	Yi No. 3	Jilin	China	China	2000	I
612737	Hefeng 21	Jilin	China	China	2000	I
612741	Jifeng No. 1	Jilin	China	China	2000	II
612742	Jifeng No. 2	Jilin	China	China	2000	II
612744	89445	Jilin	China	China	2000	I
612746	Fushuali	Jilin	China	China	2000	I
612747	Xuan No. 3	Jilin	China	China	2000	II
612748	Xuan No. 1	Jilin	China	China	2000	II
612749	Xuan No. 2	Jilin	China	China	2000	II
612750	BPR 2502	Jilin	China	China	2000	III
612752		unknown	China	China	1999	I
612753B		unknown	China	China	1999	I
612754		unknown	China	China	1999	I
612758B		unknown	China	China	1999	III
612759D		unknown	China	China	1999	III
612760	50392	unknown	China	China	1999	I
612761B	(50131)	unknown	China	China	1999	I

Table 2.2. Descriptive data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B 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			
612611	III	N	P	Lt	E	N	Bl	I	Br	Rbr		5N
612612A	IV	D	W	T	E	N	Br	D	Y	Br		3N
612612B	IV	D	P	G	E	Ssp	Tn	D	Y	Y		3N
612616	III	D	P	G	Sa	Ssp	Br	I	Gn	Bf		3N
612617A	I	N	P	Lt	E	N	Tn	I	Y	Y	Vhil	2N
612708D	I	N	P	G	E	N	Br	D	Y	Y	Na	2N
612709C	I	D	W	G	E	N	Br	D	Y	Y	Na	2N
612711B	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	2N
612713A	I	D	W	G	E	N	Br	D	Y	Bf	Na	2N
612713B	I	D	W	G	E	N	Br	D	Y	Bf	Na	2N
612714B	I	D	P	G	E	N	Br	I	Y	Y	Na	2N
612715	I	S	P	G	E	Ssp	Br	D	Y	Y	Na	2N
612716	I	S	P	G	E	N	Br	D	Y	Y	Na	2N
612717	I	D	W	G	E	Ssp	Br	I	Y	Bf		1R
612722	I	S	W	G	E	Ssp	Tn	I	Y	Y	Na	2N
612723	I	D	P	G	E	N	Tn	I	Y	Y		2N
612724	I	S	P	G	E	Ssp	Tn	I	Y	Y		2N
612725	I	D	P	G	E	N	Br	I	Y	Y		2N
612726	I	S	P	G	E	N	Br	I	Y	Y		2N
612729	II	N	P	G	E	N	Tn	D	Y	Bf		3N
612730	II	D	W	G	Sa	N	Br	D	Y	Lbf	Sdef	3N
612731	II	N	P	G	Sa	N	Tn	I	Y	Bf		3N
612732	I	N	P	G	A	N	Br	I	Y	Y	Vhil	2N
612733	II	N	W	G	E	Ssp	Dbr	I	Gn	Gn	Gnc	3N
612735	I	N	P	G	E	N	Br	I	Y	Y	Na	2N
612736	I	D	P	T	E	N	Br	I	Y	Bl		2N
612737	I	D	W	G	E	Ssp	Br	I	Y	Y	Na	3N
612741	II	D	P	G	E	N	Br	I	Y	Y		3N
612742	II	D	P	G	E	N	Br	I	Y	Y		3N
612744	I	S	P	G	E	N	Br	I	Y	Lg	Vhil	2N
612746	I	D	P	G	E	N	Br	D	Y	Ib		2N
612747	II	D	P	G	E	N	Br	I	Y	Y	Sdef	3N
612748	II	D	P	G	E	N	Br	I	Y	Y	Na, Sdef	3N
612749	II	D	P	G	E	N	Br	I	Y	Y	Na, Sdef	3N
612750	III	N	P	T	E	N	Br	D	Y	Bl	Vhil	2N
612752	I	N	P	T	E	Sp	Br	Lb	Br	Rbr	Sw	4N
612753B	I	N	P	Lt	E	N	Bl	I	Gn	Br	Sw	3N
612754	I	N	P	T	E	N	Bl	I	Y	Br	Sw	3N
612758B	III	N	W	T	Sa	Ssp	Dbr	B	Bl	Bl	Flk, Sw	4N
612759D	III	N	P	T	E	Ssp	Bl	I	Bl	Bl	Sw	3N
612760	I	N	P	T	E	Ssp	Br	Lb	Br	Rbr	Sw	4N
612761B	I	N	P	Lt	E	N	Br	I	Br	Rbr		5N

Table 3.2 Agronomic data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Stem term. (score)	Shattering		Seed		Weight (cg sd ⁻¹)	Yield (Mg ha ⁻¹)
	date (mmdd)	date (mmdd)				early (score)	late (score)	Quality (score)	Mottling (score)		
612611	714	921	3.3*	118*	3.5	1.0	1.5	3.5	--	10.7	2.58
612612A	727	1004	3.0	102	1.0	1.0	1.5	1.8	3.0	12.1	2.92*
612612B	719	1003	1.5	65	1.0	1.0	1.0	2.5	3.5	17.5	1.72
612616	719	918	2.0	48	1.0	1.0	2.0	3.0	3.0	15.0	2.44^
612617A	627	903^	2.0^	62*	3.0^	1.0^	1.0^	3.0^	2.0	12.0^	2.51^
612708D	621	824	1.0^	44*	3.0^	1.0^	1.0^	2.0^	1.0	14.6^	2.31^
612709C	623	830	1.0^	34	1.0^	1.0^	1.0^	4.0^	1.0	12.4^	1.78^
612711B	627	826^	1.5^	32*	1.0^	1.0^	-	4.5^	1.0	11.4^	1.15^
612713A	621	828	1.0^	40*	1.0^	1.0^	2.0^	2.0^	1.0	14.1^	2.03^
612713B	620	828	1.0^	33	1.0^	1.0^	2.0^	2.0^	1.0	13.5^	-
612714B	623	827	1.0^	32*	1.0^	1.0^	1.0^	4.0^	1.0	12.4^	-
612715	621	826^	1.0^	62*	3.0^	1.0^	1.0^	2.0^	1.0	17.0^	2.74^
612716	623	830	1.0^	43	1.0^	1.0^	1.0^	1.5^	1.0	15.1^	-
612717	625	826^	1.0^	42*	1.0^	1.0^	1.0^	2.0^	1.0	17.0^	2.58^
612722	623	828^	1.0^	62*	3.0^	1.0^	1.0^	1.5^	1.0	12.4^	2.69^
612723	625	901^	1.5^	51*	1.0^	1.0^	1.0^	3.0^	1.0	11.8^	2.72^
612724	625*	904^	1.5^	50*	1.0^	1.0^	1.0^	2.0^	1.0	13.9^	2.76^
612725	627	828	2.0^	62*	2.0^	1.0^	1.0^	2.5^	1.0	13.0^	2.47^
612726	624	824	1.0^	48*	2.0^	1.0^	2.0^	2.0^	1.0	17.3^	2.40^
612729	718	917	1.8	72*	3.0	1.5	2.0	3.0	1.0	18.7	2.62*
612730	716	914	1.8	66	1.0	1.0	1.0	3.0	1.0	15.2	2.13*
612731	719	915	1.8	75	3.0	1.5	2.5	3.0	1.0	17.1	2.20*
612732	701	903	1.0^	32*	4.0^	1.0^	1.0^	1.5^	1.0	12.3^	0.50^
612733	701*	908	2.3	81*	3.0	1.0	3.5	2.8	1.0	18.6	1.96
612735	624	825^	1.5^	63*	3.0^	1.0^	1.0^	2.0^	1.0	13.8^	2.79^
612736	623	828^	1.5^	57*	2.0^	1.0^	2.0^	2.0^	1.0	13.1^	3.25^
612737	621	826	1.0^	45*	1.0^	1.0^	1.0^	4.5^	1.0	14.8^	2.45^
612741	629	909	1.8	76*	1.5	1.0	1.0	2.8*	1.0	17.9	2.62
612742	629	909	1.8	70	1.5	1.0	1.0	2.5	1.0	17.5	2.36
612744	622	825^	1.0^	48*	3.0^	1.0^	1.0^	2.5^	1.0	11.5^	2.44^
612746	701	903^	1.0^	39	1.0^	1.0^	3.0^	3.5^	1.0	22.1^	1.39^
612747	629	909	1.5	72*	1.0	1.0	1.0	2.8	1.5	19.7	2.68*
612748	629*	905	1.3	69	1.5	1.0	1.0	2.5	1.0	17.2	2.34
612749	629	906	1.3	69*	1.5	1.0	1.0	2.8	2.0	17.2	2.19
612750	629*	919	1.3	90	3.0	1.0	1.0	3.5	2.0	14.0	3.37
612752	701	827^	4.0^	62*	5.0^	1.0^	5.0^	3.0^	--	4.6^	1.26^
612753B	711	903^	5.0^	64*	5.0^	1.0^	4.0^	2.5^	4.0	3.7^	1.25^
612754	703	828	5.0^	40	5.0^	2.0^	5.0^	2.0^	5.0	3.6^	0.51^
612758B	715*	923	4.3*	85	5.0	2.0	4.0	2.5	--	3.9	1.27*
612759D	727	925	5.0	80	5.0	1.5	1.5	3.0	--	3.6	0.60
612760	630	829^	4.0^	54*	5.0^	1.0^	3.0^	3.0^	--	4.5^	0.90^
612761B	705	906^	4.0^	101	4.0^	1.0^	1.0^	3.0^	--	7.1^	1.97^

Table 4.2. Seed composition data for USDA soybean germplasm in maturity groups I through IV, PI 578360 to PI 612761B plus earlier accessions not previously evaluated, grown at Urbana, IL.

Entry	Maturity group	Seed composition		Oil composition				
		Protein (%)	Oil (%)	Palmitic (%)	Stearic (%)	Oleic (%)	Linoleic (%)	Linolenic (%)
612611	III	44.6 ^w	16.9 ^w	12.7	3.0	20.8	56.9	6.6
612612A	IV	42.6	17.5	11.9	3.7	20.6	56.2	7.7
612612B	IV	44.8 ^w	19.0 ^w	11.8	4.3	27.6	50.6	5.7
612616	III	42.7 ^w	16.7 ^w	13.0	3.4	24.8	51.5	7.4
612617A	I	41.6 [^]	18.8 [^]	12.8 [^]	3.8 [^]	22.8 [^]	54.2 [^]	6.4 [^]
612708D	I	39.6 [^]	21.3 [^]	15.2 [^]	4.4 [^]	23.6 [^]	50.3 [^]	6.5 [^]
612709C	I	41.1 [^]	18.4 [^]	12.0 [^]	3.6 [^]	23.6 [^]	54.5 [^]	6.3 [^]
612711B	I	40.7 [^]	17.0 [^]	12.3 [^]	4.1 [^]	29.0 [^]	48.5 [^]	6.0 [^]
612713A	I	39.7 [^]	19.8 [^]	12.7 [^]	3.7 [^]	22.6 [^]	54.2 [^]	6.9 [^]
612713B	I	38.7 [^]	20.5 [^]	12.8 [^]	3.4 [^]	21.7 [^]	55.5 [^]	6.5 [^]
612714B	I	38.5 [^]	20.8 [^]	11.9 [^]	4.1 [^]	29.6 [^]	48.5 [^]	5.9 [^]
612715	I	39.3 [^]	21.1 [^]	11.9 [^]	3.7 [^]	22.4 [^]	55.8 [^]	6.2 [^]
612716	I	37.4 [^]	21.8 [^]	12.1 [^]	3.4 [^]	21.5 [^]	56.6 [^]	6.4 [^]
612717	I	37.9 [^]	21.6 [^]	10.1 [^]	4.0 [^]	28.7 [^]	51.3 [^]	6.0 [^]
612722	I	36.6 [^]	21.8 [^]	12.0 [^]	3.0 [^]	26.3 [^]	52.7 [^]	6.0 [^]
612723	I	36.5 [^]	21.3 [^]	12.4 [^]	4.7 [^]	26.5 [^]	49.8 [^]	6.6 [^]
612724	I	36.2 [^]	22.1 [^]	11.4 [^]	4.4 [^]	29.6 [^]	49.4 [^]	5.2 [^]
612725	I	34.5 [^]	20.2 [^]	11.7 [^]	4.3 [^]	29.5 [^]	48.9 [^]	5.6 [^]
612726	I	40.7 [^]	21.2 [^]	12.1 [^]	3.7 [^]	29.0 [^]	50.0 [^]	5.2 [^]
612729	II	45.0	17.5	11.6	3.9	23.3	53.9	7.3
612730	II	39.8	20.0	10.6	3.9	28.1	50.6	6.8
612731	II	44.8	17.5	11.9	3.6	25.3	51.9	7.3
612732	I	40.6 [^]	21.1 [^]	11.5 [^]	4.1 [^]	23.2 [^]	54.8 [^]	6.4 [^]
612733	II	43.2 ^w	20.8 ^w	13.4	4.2	28.0	49.0	5.4
612735	I	36.8 [^]	21.3 [^]	10.7 [^]	4.1 [^]	26.8 [^]	52.1 [^]	6.3 [^]
612736	I	40.1 [^]	19.2 [^]	10.4 [^]	4.3 [^]	25.7 [^]	53.4 [^]	6.2 [^]
612737	I	40.8 [^]	20.5 [^]	11.6 [^]	3.6 [^]	31.6 [^]	48.0 [^]	5.3 [^]
612741	II	41.0	18.8	8.3	3.9	31.6	50.0	6.3
612742	II	40.2	19.0	8.6	3.9	27.9	53.1	6.5
612744	I	37.8 [^]	21.4 [^]	10.6 [^]	3.5 [^]	21.8 [^]	57.0 [^]	7.1 [^]
612746	I	42.8 [^]	18.4 [^]	11.3 [^]	4.8 [^]	23.6 [^]	53.0 [^]	7.3 [^]
612747	II	42.7	19.5	11.7	4.1	27.1	51.1	5.9
612748	II	40.8	19.3	11.8	4.7	23.0	53.4	7.2
612749	II	41.0	19.1	12.1	4.6	23.4	52.8	7.1
612750	III	39.0	19.9	8.7	4.5	23.5	57.0	6.2
612752	I	48.9 ^{w^}	11.2 ^{w^}	14.2 [^]	4.1 [^]	17.4 [^]	54.5 [^]	9.7 [^]
612753B	I	42.5 ^{w^}	11.4 ^{w^}	14.0 [^]	3.5 [^]	22.9 [^]	51.0 [^]	8.6 [^]
612754	I	45.0 ^{w^}	12.2 ^{w^}	14.4 [^]	3.7 [^]	20.8 [^]	51.8 [^]	9.4 [^]
612758B	III	45.2 ^w	10.0 ^w	15.1	4.0	19.5	51.4	10.1
612759D	III	46.8 ^w	11.9 ^w	14.4	4.0	20.9	52.1	8.6
612760	I	47.2 ^{w^}	10.5 ^{w^}	14.1 [^]	4.0 [^]	17.7 [^]	54.5 [^]	9.6 [^]
612761B	I	45.0 ^{w^}	13.7 ^{w^}	13.1 [^]	3.8 [^]	21.6 [^]	53.2 [^]	8.3 [^]