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Evaluation of the USDA Soybean Germplasm Collection: Maturity Groups 000 to IV (PI 427.136 to PI 445.845)

ABSTRACT

Randall L. Nelson, Paul J. Amdor, James H. Urf, and James F. Cavins. 1988. Evaluation of the USDA Soybean Germplasm Collection: Maturity Groups 000 to IV (PI 427.136 to PI 445.845). U.S. Department of Agriculture Technical Bulletin No. 1726, 188 p.

This publication contains data on the origin, descriptive characteristics, agronomic performance, and seed composition of over 1,800 accessions from the USDA Soybean Germplasm Collection in maturity groups 000 to IV. These accessions were introduced into the United States from 1978 to 1980. Selected publicly released cultivars from the United States and Canada were also tested. A maximum of 35 categories of data is presented for each entry. These accessions were evaluated in five tests based on maturity, with each maturity group grown in a latitude to which it was adapted.

KEYWORDS: agronomic characteristics, evaluation, fatty acids, Glycine max, soybean, soybean germplasm, soybean oil, soybean protein, yield

ACKNOWLEDGMENTS

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EVALUATION OF THE USDA SOYBEAN GERMPLASM COLLECTION: MATURITY GROUPS 000 TO IV (PI 427.136 TO PI 445.845)

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This publication contains information on the origin, descriptive characteristics, agronomic performance, and seed composition of soybean (*Glycine max* (L.) Merrill) germplasm accessions for PI 427.136 to PI 445.845 in maturity groups 000 through IV. (The evaluation of accessions in these maturity groups between PI 273.483 and PI 427.107 is reported in USDA Technical Bulletin 1718. Accessions with PI numbers up to PI 266.807 have been evaluated by R.L. Bernard, C.R. Cremeens, and J.W. Lambert and the evaluations published by the U.S. Regional Soybean Laboratory in 1965, 1966, and 1969.²)

The accessions were divided into five tests, based on maturity groups, and grown as follows:

Maturity groups 000 and 00: Seeds in this test were planted on May 22, 1982, and May 26, 1983, at the University of Minnesota, St. Paul (45° 0' N. lat.).

Maturity group 0: Seeds in this test were planted on May 22, 1982, and May 11, 1983, at the University of Minnesota, St. Paul.

Maturity group I: Seeds in this test were planted on May 18, 1982, and May 12, 1983, on the Agronomy-Plant Pathology South Farm, University of Illinois, Urbana (40° 8' N. lat.).

Maturity group II: Seeds in this test were planted on May 17, 1982, and May 9, 1984, on the Agronomy-Plant Pathology South Farm, University of Illinois. Seeds were also planted in 1983 but the resulting crop was severely damaged by heavy rains and was not harvested.

Maturity groups III and IV: Seeds in this test were planted on May 17, 1982, and May 12, 1983, on the Agronomy-Plant Pathology South Farm, University of Illinois.

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²The technical bulletin and three regional laboratory publications are available from the Curator, USDA Soybean Germplasm Collection, USDA-ARS, University of Illinois, 1102 South Goodwin, Urbana, IL 61801.

All tests were replicated once per year. The plots were four rows wide and 3 m long, with 75 cm between rows. The center two rows were end trimmed to 2.4 m after flowering was completed, and all data were collected on those two rows. In those tests involving more than one maturity group, the tests were blocked by the maturity group in the field, but the data are reported in PI-number order.

Only accession means are reported. An asterisk (*) following a mean indicates that the difference between the values for the two replications exceeded a specified limit. The limits for the traits were as follows:

Flowering	>7 days	Maturity	>7 days
Lodging	>1 unit	Height	>15 cm
Stem termination	>1 unit	Shattering	>1 unit
Seed quality	>1 unit	Mottling	>1 unit
Seed weight	>3.0 cg/seed	Yield	>0.7 Mg/ha

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

To obtain oil and protein percentages of an accession, approximately 7 g of seeds was placed in a beaker and dried in a forced air oven for 3 hours at 130°C. The seeds were then transferred to a 50-g bottle, sealed, and allowed to cool for 1 hour. A sample was then ground in a Varco model MX-228 electric dry-food grinder and returned to the 50-g bottle. The ground meal was analyzed by near-infrared reflectance in a Neotec model 51A grain-quality analyzer. The analyzer had previously been calibrated with 40 soybean samples having a protein range of 33 to 50 percent and an oil range of 12 to 24 percent.

Fatty acid composition was obtained by gas-liquid chromatography of the methyl esters. Seeds were ground in a small food grinder and stored at -20°C until analyzed. Approximately 200 mg was placed in a 25-mL vial, and 5 mL of sodium methoxide was added in two 2.5-mL aliquots with an automatic syringe in such a way as to ensure mixing. The sodium methoxide solution was prepared daily by adding 1 g of sodium metal to 100 mL of reagent grade methanol. The suspension of ground sample in sodium methoxide was allowed to stand for 45 minutes, after which 1 mL of 10-percent acetic acid solution was added followed immediately by 10 mL of heptane. The sample was completely mixed after each reagent addition and then allowed to stand for several minutes so that the layers could separate. The heptane layer was analyzed with a Varian model 3700 gas chromatograph equipped with two model 8000 autoinjectors and flame detectors. Columns were 2 m by 2 mm and packed with 100/120 mesh Gas-Chrom Q coated with 5 percent LAC-2R-446. Analysis was made isothermally at 180°C, with the injector at 230°C and the detector at 240°C. Gas flow rates for helium, hydrogen, and air were 25, 25, and 250 mL per minute, respectively. The autoinjectors were set

to inject 0.5 μ L. Total analysis time per injection was 10 minutes. Integration, peak identification, data storage, and report printing were all done by computer.

Explanations of the data categories and abbreviations used are as follows:

Table 1:

PI number: Serial numbers assigned by the Plant Introduction Office, Germplasm Introduction and Evaluation Laboratory, USDA-ARS, Beltsville, MD.

Accession name and foreign collection number: All accession names and identification numbers from other germplasm collections are reported as received. No attempt was made to change transliterations or translations done by others. Sublines, isolated whenever evident among the plants grown from an original seed sample, are reported with the PI number of that sample, along with a single-letter suffix (A, B, C, and so forth) that distinguishes among the sublines. Included with this PI number is any name or number, or both, that had been given to the original sample, this inclusion being enclosed in parentheses for all but the subline designated "A".

Primary seed source: This is the source of the actual seeds that were received in the collection.

Origin of genotype: This is the best information available on the origin of the line. In some cases the primary supplier indicated the original source of the material. If no information was available, this would be the same as the primary seed source.

Year of introduction or release: This is the year in which cultivars from the United States or Canada were officially released, or, in the case of introductions, it is the year in which they were assigned PI numbers.

Maturity group: Classification of relative maturity based on data collected at Urbana, IL.

Table 2:

Flower color: P = purple, Dp = dark purple, Lp = light purple, Pth = purple throat (all petals are white except for the base of the standard), W = white.

Pubescence color: T = tawny, Lt = light tawny, G = gray, Ng = near gray.

Pubescence form:

A = appressed on leaf surface
 C = curly (twisted and appressed)
 E = erect on leaf surface
 I = irregular (slightly curly or twisted)
 Sa = semiappressed on leaf surface

Pubescence density:

Dn = dense
 G = glabrous (no pubescence)
 N = normal density
 Sdn = semidense
 Sp = sparse
 Ssp = semispars (slightly reduced density, most noticeable on the pulvinus)

Pod color: Bl = black, Br = brown, Dbr = dark brown, Lbr = light brown, Tn = tan.

Seedcoat luster: B = bloom, D = dull, I = intermediate (between shiny and dull), S = shiny.

Seedcoat and hilum color:

Bf = buff	Gn = green
Bl = black	Gnbr = greenish brown
Blbr = black hilum with brown brown outer ring	Ib = imperfect black
Br = brown	Rbr = reddish brown
G = gray	Tn = tan
	Y = yellow

Dark or light shades of these colors are indicated by prefixing the abbreviations with D or L.

Other traits, seed:

Abh = imperfect abscission of hilum
 Def = defective seedcoat (irregular splitting of the seedcoat)
 Fleck = brown flecks on black seedcoat
 Gncot = green cotyledon
 Net = splitting of the seedcoat, which produces a netted appearance on the sides of the seeds
 Saddle = saddle-shaped dark pigment on seedcoat encompassing the hilum
 Sph = spread hilum (slight, regular extension of hilum pigment beyond hilum boundary)
 St = black stripes (rings) on seedcoat

Other traits, leaf:

5Lft = 5 leaflets
 Dab = delayed abscission of leaves
 Na = narrow leaflet
 Wa = wavy leaflet margin

Other traits, plant:

Sw = semiwild

Det = determinate stem termination (used for maturity groups 000 to 0 only; for stem termination in other maturity groups, see table 3)

Slight or some expression of any of these other traits is indicated by prefixing the abbreviation with S.

Table 3:

Flowering: 50 percent of the plants have flowered (days after May 31).

Maturity: 95 percent of the pods have reached final color (days after May 31).

Lodging: Scored 1 (erect) to 5 (prostrate).

Height: From ground to stem tip in centimeters at maturity.

Stem termination: Scored 1 (very determinate) to 5 (very indeterminate), except at St. Paul location, which provided stem termination information in the last column of table 2.

Shattering: Scored early (at harvest) and late (2 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. Shattering scores were not taken at the St. Paul location.

Seed quality: Scored 1 (good) to 5 (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 percent, 3 = 10 to 25 percent, 4 = 25 to 50 percent, 5 = > 50 percent. A dash (-) indicates that the seedcoat was too darkly pigmented for mottling to be scored.

Seed weight: Centigrams per seed based on a 200-seed sample.

Seed yield: Megagrams per hectare at 13 percent moisture.

Missing data are indicated by a period (.).

Table 4:**Seed composition:**

Oil and protein: Percentage of dry weight of seed.

Fatty acids: Percentage of total fatty acids.

Table 1.0

Identification and origin information for USDA soybean
germplasm in maturity groups 000 and 00, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
	Acme		Canada	Canada	1953	00
	Altona		Canada	Canada	1966	00
	Maple Amber		Canada	Canada	1981	00
	Maple Arrow		Canada	Canada	1976	00
	Maple Presto		Canada	Canada	1979	000
	McCall		USA	USA	1978	00
	Portage		Canada	Canada	1964	00
430.491	Chi sha		China	China	1978	00
436.613	Heh ho No. 3		China	China	1979	00
437.079A	Amurscaja 261	VIR 4872	USSR	USSR	1980	0
437.082	Amurscaja 305	VIR 5567	USSR	USSR	1980	0
437.085	Zeja 2	VIR 5819	USSR	USSR	1980	000
437.106	I-302	VIR 5301	USSR	USSR	1980	00
437.108	Zhel'taja 1038	VIR 5117	USSR	USSR	1980	00
437.134	Gibrid ASS 21	VIR 5046	USSR	USSR	1980	00
437.136	Chabarovscaja	VIR 5694	USSR	USSR	1980	00
437.137	Chabarovscaja 3	VIR 4957	USSR	USSR	1980	00
437.138	Chabarovscaja 4	VIR 4963	USSR	USSR	1980	00
437.139	Chabarovscaja 5	VIR 5258	USSR	USSR	1980	00
437.140	Dol'nevostornaja 913	VIR 5259	USSR	USSR	1980	00
437.146	I-309	VIR 4965	USSR	USSR	1980	00
437.147	Primorscaja 71	VIR 4958	USSR	USSR	1980	00
437.155	Cubanscaja 276	VIR 3974	USSR	USSR	1980	0
437.176	Bulduri	VIR 5121	USSR	USSR	1980	00
437.177	Dindone	VIR 5120	USSR	USSR	1980	00
437.178	Dindone 1	VIR 5123	USSR	USSR	1980	00
437.179	COS 53	VIR 4904	USSR	USSR	1980	00
437.181	DSS 2527	VIR 4912	USSR	USSR	1980	00
437.182	DSS 2528	VIR 4917	USSR	USSR	1980	000
437.183	DSS Juodon	VIR 4905	USSR	USSR	1980	00
437.184	M-2	VIR 4914	USSR	USSR	1980	00
437.185	M-4	VIR 4902	USSR	USSR	1980	00
437.186	M-5	VIR 4911	USSR	USSR	1980	0
437.188	Vajva	VIR 4915	USSR	USSR	1980	000
437.204	CSchi 25	VIR 5165	USSR	USSR	1980	00
437.211A	CSchi 44	VIR 5183	USSR	USSR	1980	00
437.214	CSchi 599	VIR 4716	USSR	USSR	1980	00
437.215	CSchi 608	VIR 4717	USSR	USSR	1980	0
437.218	CSchi 625	VIR 4733	USSR	USSR	1980	00
437.219	CSchi 630	VIR 4738	USSR	USSR	1980	00
437.220	CSchi 631	VIR 4739	USSR	USSR	1980	00
437.226	CSchi 678	VIR 4774	USSR	USSR	1980	00
437.237	CSchi 737	VIR 4822	USSR	USSR	1980	00
437.247	CSchi 1089	VIR 4842	USSR	USSR	1980	00
437.248	CSchi 1090	VIR 4843	USSR	USSR	1980	00
437.258	Dobruzanca 522	VIR 4970	USSR	USSR	1980	00

Table 2.0

Descriptive data for USDA soybean germplasm in maturity groups

000 and 00, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
Acme	00	P	G	E	N	Br	S	Y	Y			
Altona	00	P	T	E	N	Br	S	Y	Bl			
Maple Amber	00	P	T	E	N	Br	D	Y	Br			
Maple Arrow	00	P	T	E	N	Br	S	Y	Br			
Maple Presto	000	P	T	E	Ssp	Br	D	Y	Tn			
McCall	00	P	G	E	N	Br	D	Y	Y			
Portage	00	P	G	E	N	Br	S	Y	Y			
430.491	00	P	L†	A	N	Tn	I	Br	Br			
436.613	00	P	G	E	Ssp	Br	I	Y	Y		Na	
437.079A	0	P	T	E	N	Tn	I	Y	Y			
437.082	0	P	T	E	N	Br	I	Y	Y			
437.085	000	W	G	E	Ssp	Br	D	Y	Bf			
437.106	00	W	T	E	N	Br	S	Br	Br			
437.108	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.134	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.136	00	W	T	E	N	Br	S	Br	Br			
437.137	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.138	00	P	T	E	N	Br	I	Y	Y			
437.139	00	P	T	E	N	Tn	I	Y	Br	Abh		
437.140	00	P	G	E	N	Br	S	Y	Y	SAbh		
437.146	00	P	T	E	N	Br	S	Br	Br			
437.147	00	P	G	E	N	Br	S	Y	Y			
437.155	0	P	G	E	N	Br	I	Y	Y			
437.176	00	P	T	E	N	Br	I	Y	Y			
437.177	00	W	T	Sa	N	Br	S	Rbr	Rbr			
437.178	00	W	T	Sa	Ssp	Br	S	Rbr	Rbr			
437.179	00	W	T	E	N	Br	S	Br	Br			
437.181	00	P	G	E	N	Br	S	Y	Y			
437.182	000	W	T	E	N	Br	S	Rbr	Rbr			
437.183	00	W	T	E	Ssp	Br	I	Bl	Bl			
437.184	00	W	T	E	Ssp	Br	S	Rbr	Rbr			
437.185	00	P	G	E	N	Br	I	Y	Y			
437.186	0	P	G	E	N	Br	I	Y	Y			
437.188	000	W	T	E	N	Br	S	Br	Br	SAbh		
437.204	00	P	T	E	Ssp	Br	S	Y	Br	SAbh		
437.211A	00	P	T	E	N	Tn	I	Rbr	Rbr	Abh	Dab	
437.214	00	P	T	E	N	Tn	S	Y	Br	Abh		
437.215	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.218	00	P	T	E	N	Tn	S	Br	Br	Abh	Dab	
437.219	00	P	T	E	N	Br	S	Br	Br	Abh	Dab	
437.220	00	P	T	E	N	Br	S	Br	Br	Abh	Dab	
437.226	00	P	G	E	N	Tn	I	Y	Bf	Abh		
437.237	00	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.247	00	P	T	E	Ssp	Br	D	Y	Br	Abh		
437.248	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.258	00	P	T	E	N	Tn	S	Y	Br	Abh	Dab	

Table 3.0

Agronomic data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after	May 31)						
Acme	37	100*	2.3*	67	2.8	2.0	18.4*	3.23*
Altona	36	98*	3.3*	86	2.5	2.0	14.2*	2.16*
Maple Amber	37	101	2.3*	80	2.3	2.0	13.1	2.24
Maple Arrow	37	109	2.8	84	2.0	1.5	16.4	2.56
Maple Presto	35	87	2.0	55	2.5	2.0	12.7	1.88
McCall	37	100*	2.5	82	2.3	1.5	13.1*	2.61
Portage	39	99*	2.3	80	2.5	2.5	16.6*	2.11
430.491	54	109	3.5	75	2.5	-	13.9	1.68
436.613	38	104*	3.5	70	2.5	2.0	16.5*	2.34
437.079A	48	110	4.0	68	2.8*	2.5	12.7	2.48*
437.082	40	109	3.8	79	2.8	2.0*	16.2	2.59
437.085	40	88	1.8	39	2.5	1.5	16.0	1.38
437.106	39	96	3.3	71	2.5	-	17.9*	1.71
437.108	39	100	3.5	48	2.5	1.5	16.7	1.23
437.134	42	100	3.5	71	2.3	1.5	15.9	1.73
437.136	41	101*	3.0	71	2.5	-	17.3*	1.42
437.137	41	107	3.5	66*	2.3	1.0	20.8	1.98*
437.138	41	95	3.0	67	2.5	2.5	13.3	1.60
437.139	43	99	3.0*	71	2.3	1.5	13.8	1.56*
437.140	39	106*	2.5	67	2.5	2.5	16.3*	1.67
437.146	40	96	2.3*	64	2.3	-	14.8	1.48
437.147	38	102	2.5	60	2.3	2.0	18.9	2.11*
437.155	47*	109*	3.5	78	2.3	3.0	18.8	2.01
437.176	40	94	2.3	55	2.5	3.0	11.9	1.49
437.177	42	92	3.0	53	2.3	-	14.9	1.89*
437.178	41	95	2.3	50	2.3	-	15.2	1.28
437.179	42	93	3.0	55	2.0	-	14.3	1.60
437.181	41	101*	4.0	76	2.5	1.5	19.6*	2.15
437.182	41	92	3.3	55	2.5	-	14.8	1.74
437.183	43	107*	3.3	86	2.0	-	12.3	2.39
437.184	42	96*	3.0	45*	2.3	-	15.8	0.83
437.185	37	101*	1.8	78	2.5	3.0*	19.6*	2.11
437.186	41	109*	2.5	73	2.5	3.5	18.9	1.95
437.188	43	94	2.8	48*	2.0	-	14.9	1.66
437.204	44	97	3.0	67*	1.8	1.0	14.5	1.99
437.211A	43	104	4.0	61	2.0	-	8.7	2.06
437.214	48*	103*	3.5	74	1.5	1.0	10.9	1.92
437.215	47*	108	3.5	59	1.8	1.5	10.7	2.18
437.218	45	102*	4.0	69*	1.8	-	7.9	2.00
437.219	45	103*	4.0	63*	2.0	-	9.9	2.31
437.220	44	103*	3.8*	61	2.0	-	9.2	2.03*
437.226	45	108	4.0	74	2.0	1.0	11.9	2.44
437.237	46	104*	3.8*	62	2.0	2.0	10.6	1.74*
437.247	43	95*	3.3	68*	2.0	1.0	15.5	1.58
437.248	44	100*	3.5	71	2.5	1.5	16.0	1.63
437.258	48	108*	4.0	62*	2.5	2.0	9.9	2.00

Table 4.0

Seed composition data for USDA soybean germplasm in maturity groups
000 and 00, PI 427,136 to PI 445,845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
Acme	00	20.0	40.8	12.2	2.9	32.3	46.0	6.5	0.0
Altona	00	20.0	41.1	11.6	3.0	28.2	50.8	6.3	0.0
Maple Amber	00	22.2	40.2	10.7	3.1	29.2	51.1	5.8	0.0
Maple Arrow	00	22.4	38.9	11.1	2.6	21.5	57.4	7.2	0.0
Maple Presto	000	23.1	38.6	11.2	3.0	36.7	43.5	5.5	0.0
McCall	00	20.9	38.9	12.0	3.2	21.9	55.8	7.0	0.0
Portage	00	20.7	39.1	12.5	2.6	28.8	49.1	7.0	0.0
430.491	00	17.1	43.5	12.9	3.1	24.0	50.4	9.6	0.0
436.613	00	20.6	39.5	13.4	3.5	18.3	55.9	8.8	0.0
437.079A	0	18.5	42.3	13.3	3.0	18.5	56.3	8.9	0.0
437.082	0	20.5	42.4	12.6	2.7	20.0	56.3	8.2	0.0
437.085	000	18.4	43.8	13.0	3.2	25.9	49.8	7.9	0.0
437.106	00	18.1	42.9	13.3	2.8	21.8	54.2	7.6	0.1
437.108	00	18.9	41.5	12.2	3.1	23.3	53.5	7.8	0.0
437.134	00	20.1	40.9	12.0	2.8	27.2	51.0	6.8	0.0
437.136	00	18.4	42.8	13.3	2.7	20.8	55.3	7.7	0.0
437.137	00	21.4	40.3	12.4	2.6	22.6	54.8	7.2	0.0
437.138	00	20.7	40.6	12.6	2.8	25.9	52.6	6.1	0.0
437.139	00	18.9	42.2	13.1	3.0	22.7	53.0	7.9	0.0
437.140	00	19.4	42.8	11.0	2.7	25.0	53.7	7.4	0.1
437.146	00	17.4	46.2	13.0	2.8	20.4	56.0	7.7	0.0
437.147	00	19.1	42.0	13.2	2.5	25.1	52.0	7.0	0.0
437.155	0	19.0	41.6	12.9	2.7	20.2	56.0	8.0	0.0
437.176	00	19.4	42.8	12.7	3.2	22.0	54.7	7.3	0.0
437.177	00	19.2	41.0	12.1	2.9	26.5	50.8	7.6	0.0
437.178	00	19.3	41.2	11.9	2.8	30.3	48.1	6.7	0.0
437.179	00	18.5	42.6	13.5	3.1	21.3	53.1	8.8	0.0
437.181	00	19.5	42.1	12.0	2.9	21.7	57.1	6.2	0.0
437.182	000	19.0	42.2	12.7	2.9	24.7	51.9	7.7	0.0
437.183	00	19.0	42.1	13.5	2.7	20.1	55.7	7.8	0.0
437.184	00	17.9	44.0	12.5	2.7	27.2	50.3	7.1	0.0
437.185	00	19.1	43.1	11.6	2.5	26.7	52.1	7.1	0.0
437.186	0	18.6	42.9	11.7	2.4	25.0	53.1	7.6	0.0
437.188	000	18.6	42.4	13.3	3.2	23.7	51.7	8.0	0.0
437.204	00	19.3	40.6	12.5	2.9	21.3	55.0	8.2	0.0
437.211A	00	17.3	41.3	14.3	3.2	16.8	55.5	9.9	0.0
437.214	00	18.5	41.5	14.4	2.9	20.0	54.3	8.2	0.0
437.215	0	20.2	39.0	14.3	3.1	20.8	53.7	7.9	0.0
437.218	00	17.9	40.3	13.6	3.1	17.4	56.3	9.5	0.0
437.219	00	18.3	40.6	13.8	3.3	19.9	54.5	8.3	0.0
437.220	00	18.4	41.2	14.0	2.7	19.0	55.4	8.7	0.0
437.226	00	19.2	41.5	13.1	3.1	17.7	57.3	8.8	0.0
437.237	00	18.2	40.8	13.9	3.0	19.5	55.0	8.4	0.0
437.247	00	19.4	42.2	12.5	2.9	19.9	55.9	8.6	0.0
437.248	00	19.5	39.9	12.4	2.8	19.9	55.8	8.9	0.0
437.258	00	17.5	40.3	14.0	3.1	17.3	55.5	10.0	0.0

Table 1.0

Identification and origin information for USDA soybean
germplasm in maturity groups 000 and 00, PI 427,136
to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.265A	Dobruzanca D	VIR 4718	USSR	USSR	1980	0
437.270A	Errj 424	VIR 4355	USSR	USSR	1980	00
437.270B	(Errj 424)	(VIR 4355)	USSR	USSR	1980	00
437.271	Moldavscaja 65	VIR 4880	USSR	USSR	1980	00
437.273A	Scorospelca 3	VIR 4844	USSR	USSR	1980	00
437.273B	(Scorospelca 3)	(VIR 4844)	USSR	USSR	1980	00
437.274	Scorospelca Ulutssennaj	VIR 5653	USSR	USSR	1980	00
437.280		VIR 4924	USSR	USSR	1980	0
437.291		VIR 4937	USSR	USSR	1980	0
437.298		VIR 4947	USSR	USSR	1980	00
437.299		VIR 4949	USSR	USSR	1980	00
437.300		VIR 4950	USSR	USSR	1980	00
437.301		VIR 4951	USSR	USSR	1980	00
437.303		VIR 4953	USSR	USSR	1980	00
437.304	Timirjzevscaja 144	VIR 5521	USSR	USSR	1980	000
437.313	Dal'nevostocnaja 370	VIR 5294	USSR	USSR	1980	000
437.315	Novosibirscaja 2	VIR 5597	USSR	USSR	1980	00
437.510		VIR 3892	USSR	USSR	1980	00
437.522		VIR 5416	USSR	USSR	1980	000
437.528	Cel'merezcaja Mestnaja	VIR 5264	USSR	USSR	1980	00
437.532	Cirovogradscaja 2	VIR 5265	USSR	USSR	1980	00
437.534	Demetscaja VU 2261	VIR 5079	USSR	USSR	1980	00
437.539	Dneprovscaja 12	VIR 5291	USSR	USSR	1980	00
437.541	Norma	VIR 4973	USSR	USSR	1980	00
437.545	Terezinscaja 2	VIR 5693	USSR	USSR	1980	00
437.548		VIR 5126	USSR	USSR	1980	00
437.596	Dun nun 47-IV	VIR 5376	USSR	China	1980	00
437.611A	DV-2783	VIR 4631	USSR	China	1980	00
437.680A	Nen tszjan da dou	VIR 5392	USSR	China	1980	00
437.796		VIR 5444	USSR	China	1980	00
437.920A	Sansindunscaja	VIR 1371	USSR	China	1980	00
437.920B	(Sansindunscaja)	(VIR 1371)	USSR	China	1980	00
438.141A		VIR 2877	USSR	China	1980	00
438.141B		(VIR 2877)	USSR	China	1980	00
438.154		VIR 3768	USSR	China	1980	00
438.273		VIR 5111	USSR	China	1980	00
438.285	Tocio	VIR 5090	USSR	Japan	1980	00
438.321	Grignon 18	VIR 5876	USSR	Algeria	1980	0
438.322	Grignon 21	VIR 5879	USSR	Algeria	1980	00
438.331A	Ronest 13/A12	VIR 5868	USSR	Algeria	1980	00
438.352	Pavliceni 1	VIR 5781	USSR	Bulgaria	1980	00
438.353	Pavliceni 502	VIR 5784	USSR	Bulgaria	1980	00
438.360A	VU-5828	VIR 5100	USSR	Bulgaria	1980	00
438.365	Monitoba	VIR 4906	USSR	Canada	1980	00
438.367	Dacota N3338	VIR 5722	USSR	Czechoslovakia	1980	00
438.368	Jihomeravska Zluta Drobnosna	VIR 5733	USSR	Czechoslovakia	1980	00

Table 2.0

Descriptive data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.265A	0	P	T	E	N	Br	S	Y	Br	Abh	Dab	
437.270A	00	P	T	E	N	Tn	I	Y	Y	Abh		
437.270B	00	P	T	E	N	Tn	I	Y	Br	Abh		
437.271	00	P	T	E	Ssp	Tn	D	Y	Br	Abh		
437.273A	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.273B	00	P	T	E	Ssp	Br	I	Y	Br	Abh		
437.274	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.280	0	P	G	E	N	Dbr	I	Y	Bf	Abh		
437.291	0	P	T	E	N	Tn	I	Rbr	Rbr	Abh	Dab	
437.298	00	P	T	E	N	Tn	I	Br	Br	Abh	Dab	
437.299	00	P	T	E	Ssp	Br	D	Y	Br	Abh		
437.300	00	P	T	E	Ssp	Tn	I	Y	Br	SAbh		
437.301	00	P	T	E	Ssp	Tn	D	Y	Br	Abh		
437.303	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.304	000	W	T	E	N	Br	S	Rbr	Rbr			
437.313	000	P	T	E	N	Br	I	Br	Br			
437.315	00	P	G	E	N	Br	S	Y	Bf			
437.510	00	P	G	E	N	Br	S	Y	Y			
437.522	000	W	T	Sa	N	Br	S	Rbr	Rbr			
437.528	00	P	T	E	N	Tn	I	Y	Br	Abh		
437.532	00	P	T	E	Ssp	Br	S	Y	Br	Abh		
437.534	00	P	T	E	Ssp	Tn	I	Y	Br			
437.539	00	P	T	E	N	Br	D	Y	Y			
437.541	00	P	G	E	N	Br	I	Y	Y			
437.545	00	P	T	E	N	Br	S	Y	Br	Abh		
437.548	00	P	T	E	N	Tn	D	Y	Br	Abh		
437.596	00	P	T	E	N	Br	I	Y	Tn			
437.611A	00	P	T	E	N	Tn	S	Y	Y			
437.680A	00	P	G	E	N	Br	I	Y	Y			
437.796	00	P	T	E	Ssp	Tn	I	Y	Br			
437.920A	00	P	G	E	N	Br	I	Y	Y			
437.920B	00	P	G	E	N	Br	I	Y	Y			
438.141A	00	P	T	E	N	Br	I	Y	Y			
438.141B	00	P	T	E	Ssp	Tn	I	Y	Br			
438.154	00	P	L†	E	N	Br	D	Y	Br			
438.273	00	W	T	E	N	Br	I	Br	Br			
438.285	00	W	T	E	Ssp	Br	D	Bl	Bl			
438.321	0	P	T	Sa	N	Br	I	Rbr	Rbr			
438.322	00	P	T	E	Ssp	Br	I	Y	Y			
438.331A	00	P	T	E	Ssp	Br	I	Bl	Bl			
438.352	00	P	T	E	Ssp	Tn	I	Y	Br			
438.353	00	P	T	E	N	Tn	I	Y	Br		Dab	
438.360A	00	P	T	E	N	Tn	S	Y	Br	Abh		
438.365	00	W	T	Sa	N	Br	S	Rbr	Rbr			
438.367	00	P	T	E	N	Tn	S	Y	Y			
438.368	00	P	T	E	N	Tn	S	Y	Br	Abh	Dab	

Table 3.0

Agronomic data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Flowering (days after May 31)	Maturity (days after May 31)	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.265A	47	104*	4.0	53*	2.5	1.5	9.0	2.35
437.270A	43	104*	3.0	78*	2.5	4.0	14.6	2.10
437.270B	41	107*	3.3*	80	2.8*	1.5	13.8	2.14
437.271	42	94	4.0	66	2.8	1.5	17.6	1.69
437.273A	41	98	3.5	67*	2.5	1.0	18.9	2.02
437.273B	39	95	2.8	56*	1.8	1.0	15.2	1.69
437.274	41	94	3.0	69*	2.0	1.5	16.6	1.74
437.280	40	107*	3.3	79	2.3	2.0	13.7*	2.22
437.291	41	104	3.5	63	2.0	-	13.2*	1.88
437.298	45	105	3.5	58	2.0	-	8.3	1.83
437.299	42	93	3.0	68*	2.0	1.0	14.6	1.54
437.300	40	98	2.3	60	2.3	1.5	15.3	2.05*
437.301	41	93	2.5	63	2.3	1.0	15.4	1.68
437.303	40	95	3.0	65	2.5	1.0	16.9	1.91
437.304	42	94*	2.3	49*	2.5	-	14.2	1.08
437.313	35	92*	2.8	56*	2.0	-	14.8	1.60
437.315	39*	94	2.8	67	2.5	1.0	15.3	2.05
437.510	40	104*	2.8	75	2.5	1.5	18.2	2.19
437.522	43	95*	2.5	45	2.5	-	14.6	0.81
437.528	46	105	2.8	68	1.8	1.5	9.5	2.30
437.532	44	100*	3.3	64	2.3	1.5	13.1	2.07
437.534	41	99	3.5	57	2.8	1.5	14.2	1.94
437.539	40	105*	3.8	91	2.5	2.5	14.1*	2.68
437.541	39	103*	3.3	68*	2.5	1.5	18.9*	1.97
437.545	44	106*	3.5	74	2.0	1.5	14.3	2.25
437.548	43	98	3.5	68	2.3	1.5	13.9	1.89
437.596	.	.	.	.	.	.	.	.
437.611A	47	113*	4.0	90	2.8*	3.5	15.9	2.07
437.680A	40	102*	3.3	71	2.5	2.5	16.8*	2.07
437.796	44	102	2.5	55	2.5	1.5	15.0	1.98*
437.920A	37	93	2.5	71	2.3	2.0*	15.3	2.27
437.920B	38	96*	2.3	82	2.5	2.5	16.2*	2.23
438.141A	42	98*	3.8	75	2.5	3.0*	15.0*	2.07
438.141B	42	102	3.8	65	2.5	1.0	16.4*	2.22*
438.154	39	103*	2.3*	82	2.0	2.0	13.3	2.18
438.273	49	105*	3.0	69*	3.0	-	14.4	1.19
438.285	41	104*	3.3	91	2.0	-	12.1*	1.70*
438.321	47	104*	3.0	59*	2.3	-	16.9*	2.25*
438.322	43	101*	3.3	78*	2.3	1.5	14.8*	1.71
438.331A	Tested in and reported with the group 0 evaluation.							
438.352	43	101	3.8	66	2.3	1.5	15.7	2.10*
438.353	45	104*	3.8	66*	2.3	2.0	10.7	1.43
438.360A	46	110	4.0	75	2.0	2.0	12.4	2.55
438.365	43	97*	2.8	46*	2.5	-	15.2	0.83
438.367	37	105*	3.0	81	2.0	1.5	14.7*	2.25
438.368	43	102*	3.5	63*	2.5	2.0	10.7	1.95*

Table 4.0

Seed composition data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.265A	0	19.1	39.3	13.7	3.1	17.0	55.7	10.4	0.0
437.270A	00	19.1	40.6	13.6	3.0	25.5	49.8	7.9	0.0
437.270B	00	19.4	40.7	12.7	2.8	28.6	49.0	6.8	0.0
437.271	00	19.6	41.2	12.2	2.7	28.5	49.3	7.1	0.0
437.273A	00	18.3	43.5	12.4	2.5	24.3	52.2	8.4	0.0
437.273B	00	18.8	41.6	13.0	2.9	22.5	53.3	8.2	0.0
437.274	00	19.4	40.5	12.6	2.8	21.9	54.3	8.3	0.0
437.280	0	18.3	41.8	13.3	2.7	17.4	56.9	9.6	0.0
437.291	0	17.2	40.8	14.0	3.1	16.9	55.8	10.0	0.0
437.298	00	17.7	41.4	13.1	3.0	18.5	56.0	9.3	0.0
437.299	00	18.7	41.0	13.0	2.8	18.2	56.7	9.1	0.0
437.300	00	19.5	40.7	13.4	2.8	19.1	55.9	8.5	0.0
437.301	00	19.6	41.6	13.2	2.8	20.9	54.9	8.1	0.0
437.303	00	20.1	40.2	11.9	2.8	22.9	53.8	8.3	0.1
437.304	000	19.6	39.9	13.0	2.9	24.5	52.1	7.4	0.0
437.313	000	19.3	43.0	11.5	2.9	22.0	55.7	7.9	0.0
437.315	00	19.8	41.4	11.6	2.8	25.6	53.0	6.8	0.0
437.510	00	18.5	43.1	11.9	2.5	22.7	54.1	8.7	0.0
437.522	000	17.7	45.2	11.7	2.5	24.7	52.4	8.5	0.0
437.528	00	18.8	42.5	13.0	2.8	18.2	56.4	9.5	0.0
437.532	00	19.2	42.2	12.0	2.9	19.7	56.4	8.7	0.1
437.534	00	18.0	42.1	13.1	3.0	19.3	55.4	9.2	0.0
437.539	00	19.6	41.1	12.4	3.0	21.1	54.7	8.5	0.0
437.541	00	19.3	42.1	12.3	2.6	23.1	54.5	7.4	0.0
437.545	00	18.8	43.6	11.5	2.9	20.0	56.8	8.6	0.0
437.548	00	18.8	42.2	12.1	3.1	21.2	54.8	8.7	0.0
437.596	00	.	.	.	.	.	.	.	.
437.611A	00	17.8	45.8	12.3	2.8	23.1	52.5	9.2	0.0
437.680A	00	18.6	43.3	12.3	2.5	24.4	53.3	7.5	0.0
437.796	00	19.2	40.8	12.3	2.8	19.0	56.1	9.6	0.0
437.920A	00	19.5	41.8	11.9	2.6	30.1	47.9	7.3	0.0
437.920B	00	20.9	38.3	12.7	2.6	29.4	48.5	6.6	0.0
438.141A	00	18.8	41.5	11.5	2.6	27.0	51.4	7.4	0.0
438.141B	00	19.5	40.3	12.5	2.6	24.8	53.1	6.8	0.0
438.154	00	18.6	42.8	11.4	2.6	26.9	51.3	7.6	0.0
438.273	00	18.5	41.5	12.5	3.2	25.3	51.0	7.9	0.0
438.285	00	18.2	40.9	12.1	2.8	23.7	52.4	9.0	0.0
438.321	0	17.6	43.5	11.9	2.4	21.9	53.8	9.9	0.0
438.322	00	17.9	42.5	12.2	2.5	18.8	56.4	9.9	0.0
438.331A	00	Tested in and reported with the group 0 evaluation.							
438.352	00	17.9	42.8	12.4	2.8	25.3	51.6	7.8	0.0
438.353	00	17.7	41.5	13.9	2.7	20.7	53.6	8.8	0.0
438.360A	00	19.7	40.7	12.3	3.2	21.2	54.2	9.0	0.0
438.365	00	18.0	42.6	12.5	3.1	23.3	52.7	8.3	0.0
438.367	00	18.6	43.0	12.7	3.1	24.6	50.6	8.8	0.0
438.368	00	18.9	40.8	13.4	2.9	19.2	54.7	9.7	0.0

Table 1.0
Identification and origin information for USDA soybean
germplasm in maturity groups 000 and 00, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.369A	Kromerizka Zluta	VIR 5760	USSR	Czechoslovakia	1980	00
438.369B	(Kromerizka Zluta)	(VIR 5760)	USSR	Czechoslovakia	1980	00
438.370	Piava	VIR 5745	USSR	Czechoslovakia	1980	00
438.375A	Kamianotz No. 1	VIR 5734	USSR	France	1980	0
438.378	Dicmana 4	VIR 4471	USSR	Germany	1980	00
438.382	Scorospelaja 8	VIR 4968	USSR	Germany	1980	00
438.393	Wolfshtaler	VIR 5758	USSR	W. Germany	1980	00
438.403	Grignon 5	VIR 5724	USSR	Hungary	1980	00
438.412	Palmetto	VIR 5793	USSR	Hungary	1980	00
438.415	Ronest 4	VIR 5749	USSR	Hungary	1980	00
438.421	Tokio Jaune	VIR 5685	USSR	Hungary	1980	0
438.433		VIR 5229	USSR	Italy	1980	00
438.444	Brunatna	VIR 5774	USSR	Poland	1980	00
438.445	Bydgoska 057	VIR 5719	USSR	Poland	1980	000
438.446A	Czarna SWHN	VIR 5773	USSR	Poland	1980	00
438.448	Gisenska	VIR 5577	USSR	Poland	1980	00
438.452	Murzynka	VIR 5678	USSR	Poland	1980	00
438.453	Pulwasna Zolita Weresna	VIR 5772	USSR	Poland	1980	00
438.454	Zlotka	VIR 5676	USSR	Poland	1980	000
438.455	Zolita Brzebedowska	VIR 5680	USSR	Poland	1980	00
438.459	Herb 22	VIR 5493	USSR	Romania	1980	00
438.460	Herb 91	VIR 5238	USSR	Romania	1980	00
438.461	Herb 616	VIR 5236	USSR	Romania	1980	00
438.462	Herb 619	VIR 5233	USSR	Romania	1980	00
438.463	Herb 620	VIR 5235	USSR	Romania	1980	00
438.464	Jaune de Desma	VIR 5576	USSR	Romania	1980	00
438.466	Precoce de Milly	VIR 5746	USSR	Romania	1980	00
438.471	Fiskeby III	VIR 5588	USSR	Sweden	1980	00
438.472	Fiskeby 20	VIR 5580	USSR	Sweden	1980	00
438.473	Fiskeby 827-4-23	VIR 5593	USSR	Sweden	1980	00
438.474	Fiskeby 827-7-23-46	VIR 5825	USSR	Sweden	1980	00
438.475A	Fiskeby 840-2-7	VIR 5582	USSR	Sweden	1980	000
438.475B	(Fiskeby 840-2-7)	(VIR 5582)	USSR	Sweden	1980	00
438.476	Fiskeby 840-5-3	VIR 5583	USSR	Sweden	1980	00
438.477	Fiskeby 840-7-3	VIR 5826	USSR	Sweden	1980	00
438.478	Fiskeby 843-20-1	VIR 5594	USSR	Sweden	1980	00
438.479	Fiskeby 843-20-2	VIR 5595	USSR	Sweden	1980	000
438.480	Fiskeby 856-3-3	VIR 5591	USSR	Sweden	1980	000
438.481	Fiskeby 856-3-34	VIR 5590	USSR	Sweden	1980	000
438.483	Fiskeby 1040-4-2	VIR 5830	USSR	Sweden	1980	000
438.513	Novosadsca bz 7	VIR 5317	USSR	Yugoslavia	1980	00
442.022	Isz-7		Poland	Hungary	1980	00
442.023	Isz-10		Poland	Hungary	1980	00
442.024	Isz-13		Poland	Hungary	1980	00
442.025	Isz-14		Poland	Hungary	1980	00
442.027	Kz-761		Poland	Hungary	1980	00

Table 2.0
Descriptive data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438,369A	00	P	T	E	N	Tn	D	Y	Br			
438,369B	00	P	T	E	Ssp	Br	I	Y	Br	Abh		
438,370	00	P	T	E	N	Tn	S	Y	Y			
438,375A	0	P	T	E	N	Br	I	Y	G			
438,378	00	P	T	E	N	Br	S	Y	G			
438,382	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
438,393	00	P	T	E	N	Br	I	Y	Y	Abh		
438,403	00	W	T	E	N	Br	S	Rbr	Rbr			
438,412	00	P	T	E	N	Tn	I	Y	Y			
438,415	00	P	T	E	N	Br	I	Gn	Bl			
438,421	0	P	T	E	N	Br	I	Y	Br			
438,433	00	P	T	E	N	Tn	S	Y	Br	Abh	Dab	
438,444	00	P	T	E	N	Tn	I	Y	Y			
438,445	000	P	T	E	N	Dbr	S	Y	G			
438,446A	00	W	T	E	N	Br	S	Bl	Bl			
438,448	00	P	T	E	Ssp	Tn	I	Y	Br			
438,452	00	P	T	E	N	Br	S	Bl	Bl			
438,453	00	P	G	E	Ssp	Br	D	Y	Y			
438,454	000	P	T	E	N	Dbr	S	Y	G			
438,455	00	P	T	E	Ssp	Tn	I	Y	Br			
438,459	00	P	T	E	Ssp	Tn	D	Y	Br	Abh		
438,460	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
438,461	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
438,462	00	P	T	E	N	Br	I	Y	Br	Abh		
438,463	00	P	T	E	Ssp	Br	I	Y	Br	Abh		
438,464	00	P	T	E	N	Br	I	Y	Br			
438,466	00	P	T	E	N	Br	I	Y	G			
438,471	00	P	T	E	Ssp	Tn	D	Y	Br	Abh		
438,472	00	P	T	E	Ssp	Tn	S	Y	Br	Abh		
438,473	00	P	T	E	Ssp	Br	I	Y	Br			
438,474	00	P	T	E	Ssp	Br	I	Y	Br			
438,475A	000	P	T	E	Ssp	Br	D	Y	Br			
438,475B	00	P	T	E	Ssp	Br	I	Y	Br			
438,476	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
438,477	00	P	T	E	Ssp	Br	I	Y	Br			
438,478	00	P	T	E	N	Dbr	D	Y	Br	Abh		
438,479	000	P	T	E	Ssp	Tn	D	Y	Br			
438,480	000	W	T	E	Ssp	Br	S	Rbr	Rbr			
438,481	000	P	T	E	Ssp	Br	I	Y	Br	Abh		
438,483	000	P	T	E	N	Br	I	Y	Br			
438,513	00	P	T	E	N	Tn	D	Y	Br	Abh		
442,022	00	P	T	E	N	Tn	I	Y	Br			
442,023	00	W	T	E	N	Br	S	Y	Br			
442,024	00	W	T	E	N	Br	I	Y	Br			
442,025	00	P	T	E	N	Lbr	S	Br	Br			
442,027	00	P	T	E	N	Tn	S	Y	Bl			

Table 3.0

Agronomic data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Flowering Maturity		Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after	May 31)						
438.369A	35	92	1.5	34	2.3	1.0	14.9	1.81
438.369B	36	90*	1.5	40	2.5	1.5	20.1*	2.12
438.370	40	108	2.5	73	2.3	2.0	15.8	2.68
438.375A	40	104*	3.3	78	2.5	2.0	14.7	2.30
438.378	38	95	2.5	84	2.3	1.5	11.7	2.12
438.382	41	94	3.3	73*	2.5	1.0	17.6	1.94
438.393	43	95	3.3	77	2.0	1.5	10.3	1.97*
438.403	42	92	2.0	44	2.5	-	14.1	1.61
438.412	39	107	2.0	72	2.0	1.0	14.5	2.47*
438.415	39	90	1.0	32	2.3	3.0*	14.0	0.51
438.421	43	103*	2.8	65	2.5	2.0	15.5*	2.07
438.433	44	103*	3.5	68	1.8	1.0	9.5	2.24
438.444	37	105	2.8	78	2.0	1.5	14.5	2.36
438.445	37	94	2.5	76	2.5	1.0	13.2	2.12
438.446A	37	103*	3.5	92	2.3	-	14.6*	2.05*
438.448	40	100	3.0	58	2.3	1.5	14.0*	2.19*
438.452	40	97	3.3	73	2.3	-	13.7*	2.31
438.453	44	95	2.3*	50*	2.3	1.5	13.6	1.34
438.454	40	95	2.8	71	2.8	1.5	12.8	2.34
438.455	41	103*	2.8*	53	2.5	1.5	13.5	2.01
438.459	40	103	4.0	69	2.3	1.5	18.4	1.88
438.460	43	100*	3.8	68	2.3	1.5	16.4	2.08
438.461	40	101	3.3	67	2.0	2.0*	16.8	2.00
438.462	39	103	3.5	64	2.3	1.5	15.2	2.18
438.463	40	99*	3.5	62*	2.5	2.0*	17.6	1.73
438.464	41	103*	3.3	63	2.5	1.0	15.0*	2.07
438.466	37	102*	3.8	77	2.3	2.0	14.4*	2.37
438.471	37	90	1.5	40	2.3	2.0*	22.0*	1.46
438.472	36	92	1.5	46	2.3	2.0*	22.1	2.16
438.473	36	91	1.5	45*	2.5	1.5	17.0	1.78*
438.474	37	90	1.3	36	2.5	1.5	18.2	2.25
438.475A	36	87	1.0	32	1.8	2.5	16.1	1.24*
438.475B	35	89	1.0	29	2.0	3.0*	15.5	1.13
438.476	36	92	3.3	63	1.8	3.0*	16.8	2.14
438.477	35	88	1.3	35	2.5	1.5	17.5	2.02
438.478	37	90	2.0	54	2.5	2.5	17.7	1.94
438.479	35	90	1.3	35*	2.5	1.0	16.9	1.06
438.480	43	95*	3.3	45	2.5	-	14.6	1.31
438.481	35	91	1.5	36	2.8	2.5	22.0	1.53*
438.483	38	89	1.8	41	2.5	3.0*	15.9	1.86
438.513	42	98*	3.3	67*	2.5	1.5	14.8	1.78
442.022	37	102*	2.8*	91*	2.5	1.0	14.5	1.60*
442.023	36	104*	3.5	108*	2.3	1.0	13.6	2.60
442.024	35	103*	3.8	97*	2.8	1.0	16.1*	2.47
442.025	36	102*	3.5	101*	2.3	-	14.4	2.48
442.027	38	100*	2.3	108*	2.5	1.0	13.1	2.58

Table 4.0

Seed composition data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.369A	00	20.1	39.8	12.9	3.0	25.4	51.2	7.3	0.0
438.369B	00	21.5	38.9	12.0	2.6	30.7	48.5	6.2	0.0
438.370	00	19.7	40.1	12.5	3.1	26.7	49.5	8.0	0.0
438.375A	0	19.2	41.2	11.8	3.1	20.4	55.0	9.4	0.1
438.378	00	18.7	40.8	13.4	3.4	20.5	54.0	8.6	0.0
438.382	00	20.2	40.2	11.9	3.0	22.3	54.9	7.8	0.0
438.393	00	20.1	39.0	14.0	3.2	20.3	53.1	9.2	0.0
438.403	00	17.8	42.0	13.4	2.6	24.0	52.3	7.4	0.0
438.412	00	19.8	41.2	12.9	3.3	21.1	52.8	9.8	0.0
438.415	00	16.4	48.5	14.3	3.0	20.9	53.8	7.9	0.0
438.421	0	18.7	43.5	11.6	2.8	22.5	55.2	7.8	0.0
438.433	00	18.9	40.0	14.3	3.2	19.4	54.1	8.8	0.0
438.444	00	19.6	40.9	13.0	3.3	22.1	52.1	9.5	0.1
438.445	000	20.8	39.1	13.2	3.4	20.4	53.8	9.1	0.0
438.446A	00	20.4	36.8	11.8	3.5	18.9	56.1	9.5	0.0
438.448	00	18.3	41.0	13.3	2.9	22.6	53.0	8.0	0.0
438.452	00	20.0	39.0	12.2	3.4	21.3	53.8	9.1	0.0
438.453	00	18.0	43.7	12.6	3.0	22.2	55.0	7.1	0.0
438.454	000	20.0	40.6	12.8	3.3	19.7	54.7	9.3	0.0
438.455	00	17.6	43.3	13.5	2.6	21.4	54.3	8.0	0.0
438.459	00	20.0	41.3	12.0	2.8	25.9	51.9	7.2	0.0
438.460	00	19.4	39.7	12.0	2.8	21.5	54.9	8.5	0.0
438.461	00	19.7	39.8	12.9	2.8	24.9	52.2	6.9	0.0
438.462	00	17.4	42.5	13.2	2.9	19.9	54.3	9.6	0.0
438.463	00	19.0	42.8	12.4	3.0	26.3	50.9	7.2	0.0
438.464	00	17.8	42.9	12.7	3.1	22.6	52.9	8.6	0.0
438.466	00	19.2	41.3	11.2	3.1	23.0	54.4	8.2	0.0
438.471	00	20.3	40.3	11.6	3.1	25.5	52.3	7.3	0.0
438.472	00	20.7	38.4	11.4	2.7	32.7	47.2	5.9	0.0
438.473	00	21.6	38.3	11.8	2.6	29.3	49.8	6.4	0.0
438.474	00	22.0	38.8	11.4	2.4	29.9	49.8	6.3	0.0
438.475A	000	21.1	40.8	11.3	3.1	26.8	52.4	6.3	0.0
438.475B	00	20.7	40.1	11.1	3.1	27.3	51.7	6.8	0.0
438.476	00	21.6	40.0	11.8	2.7	24.9	53.1	7.3	0.0
438.477	00	21.3	38.9	11.6	2.5	29.2	50.1	6.5	0.0
438.478	00	20.4	41.5	11.5	2.5	32.6	47.4	5.9	0.0
438.479	000	20.4	40.9	12.4	3.1	30.5	48.0	5.9	0.0
438.480	000	17.9	43.1	12.5	2.6	24.2	52.3	8.3	0.0
438.481	000	19.9	39.5	12.2	2.7	31.3	47.2	6.3	0.1
438.483	000	20.2	40.9	12.3	2.7	29.2	49.6	6.1	0.1
438.513	00	18.3	42.6	12.9	2.6	21.1	54.8	8.5	0.0
442.022	00	20.0	40.7	12.4	3.2	21.4	55.0	7.8	0.0
442.023	00	20.5	40.0	11.8	3.3	22.2	54.9	7.5	0.0
442.024	00	20.7	39.5	11.6	3.1	21.0	56.8	7.5	0.0
442.025	00	20.4	40.5	12.5	3.5	21.7	54.8	7.3	0.0
442.027	00	20.6	38.8	11.4	2.9	24.4	52.3	9.0	0.0

Table 1.0
Identification and origin information for USDA soybean
germplasm in maturity groups 000 and 00, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
442.029	Amurskaja 10		Poland	USSR	1980	00
442.030	Amurskaja 334		Poland	USSR	1980	00
442.031	Amurskaja 402		Poland	USSR	1980	00
442.032	Amurskaja Buraja		Poland	USSR	1980	00
442.034	b/n D-427		Poland	USSR	1980	00
442.035	Chabarowkaja		Poland	USSR	1980	00
442.036	Chabarowkaja 4		Poland	USSR	1980	00
442.037	Prawda		Poland	USSR	1980	000
442.038A	Riekord Siewiera		Poland	USSR	1980	00
442.040	Wnisa 2		Poland	USSR	1980	00
442.041		VIR 4975	Poland	USSR	1980	000
442.042	B-45/60		Poland	USSR	1980	00
442.043	Cst-17		Poland	Yugoslavia	1980	00
442.044	Maksymirka		Poland	Yugoslavia	1980	00
442.045	Ruska Zluta		Poland	Yugoslavia	1980	00
445.786	Adepta	529/77	E. Germany	E. Germany	1980	00
445.788	Blitterhof a	85	E. Germany	E. Germany	1980	00
445.791	Delitzch Nr. 36	41/74	E. Germany	E. Germany	1980	000
445.794A	Dornburger Stamm 106	59	E. Germany	E. Germany	1980	00
445.794B	(Dornburger Stamm 106)	(59)	E. Germany	E. Germany	1980	00
445.797	Freitag Stamm 70	24/77	E. Germany	E. Germany	1980	000
445.798	Freitag Stamm 2143	62	E. Germany	E. Germany	1980	00
445.799	Freitag Stamm 2143	76	E. Germany	E. Germany	1980	00
445.800	Fruhe Braune	348/74	E. Germany	E. Germany	1980	00
445.801A	Fruhe Gelbe	282	E. Germany	E. Germany	1980	00
445.801B	(Fruhe Gelbe)	(282)	E. Germany	E. Germany	1980	00
445.803	Heimkraft I	27/77	E. Germany	E. Germany	1980	000
445.804	Heimkraft II	432/77	E. Germany	E. Germany	1980	00
445.805	Herb 22	28/77	E. Germany	E. Germany	1980	00
445.806	Herb 606	684/74	E. Germany	E. Germany	1980	00
445.807A	Herb 610	688/75	E. Germany	E. Germany	1980	00
445.807B	(Herb 610)	(688/75)	E. Germany	E. Germany	1980	00
445.808A	Herb 619	709/76	E. Germany	E. Germany	1980	00
445.808B	(Herb 619)	(709/76)	E. Germany	E. Germany	1980	00
445.809	Herb 620	496/77	E. Germany	E. Germany	1980	000
445.810A	Kirches Stamm 66	42	E. Germany	E. Germany	1980	00
445.810B	(Kirches Stamm 66)	(42)	E. Germany	E. Germany	1980	00
445.810C	(Kirches Stamm 66)	(42)	E. Germany	E. Germany	1980	00
445.811	Kirches Stamm 2002	35	E. Germany	E. Germany	1980	00
445.812	Kirches Stamm 2008	75	E. Germany	E. Germany	1980	00
445.813	Kirches Stamm 2009	47/74	E. Germany	E. Germany	1980	00
445.815	Kirches Stamm 2027	98/74	E. Germany	E. Germany	1980	00
445.817	Peragis Stamm II	26A/77	E. Germany	E. Germany	1980	00
445.818A	Praemata	530/77	E. Germany	E. Germany	1980	00
445.818B	(Praemata)	(530/77)	E. Germany	E. Germany	1980	00
445.824A	Wolfsthaler	108/74	E. Germany	E. Germany	1980	000

Table 2.0
Descriptive data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
442.029	00	P	T	E	N	Br	I	Y	Y			
442.030	00	P	T	E	N	Br	I	Y	Y			
442.031	00	P	T	E	N	Br	S	Y	Y			
442.032	00	P	T	E	Ssp	Tn	D	Y	Br	Abh		
442.034	00	P	T	E	N	Tn	I	Y	Br	Abh		
442.035	00	P	T	E	N	Br	D	Y	Y			
442.036	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
442.037	000	P	T	E	N	Br	I	Y	Y			
442.038A	00	P	G	E	N	Br	D	Y	Y			
442.040	00	P	T	E	N	Br	I	Y	Y			
442.041	000	P	T	E	N	Br	I	Y	Y			
442.042	00	P	T	E	N	Tn	S	Y	Br			
442.043	00	P	T	E	Ssp	Tn	I	Y	Br		SNa	
442.044	00	P	T	E	N	Br	I	Y	Bl			
442.045	00	P	T	E	N	Tn	S	Y	Y			
445.786	00	P	T	E	N	Tn	S	Y	Br			
445.788	00	P	G	E	N	Br	I	Y	Y			
445.791	000	P	T	E	N	Br	S	Y	Bl			
445.794A	00	W	T	E	N	Br	I	Br	Br			
445.794B	00	W	T	E	N	Br	I	Br	Br			
445.797	000	W	T	E	Ssp	Tn	S	Y	Br			
445.798	00	P	T	E	N	Tn	I	Y	Bl			
445.799	00	P	T	E	N	Tn	I	Y	Bl			
445.800	00	P	T	E	N	Tn	S	Y	Y			
445.801A	00	P	T	E	N	Br	I	Y	Br			
445.801B	00	P	T	E	N	Br	I	Y	Br			
445.803	000	P	T	E	N	Br	S	Y	G			
445.804	00	P	T	E	N	Tn	S	Y	Bl			
445.805	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
445.806	00	P	T	E	Ssp	Br	I	Y	Br	Abh		
445.807A	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
445.807B	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
445.808A	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
445.808B	00	P	T	E	Ssp	Br	I	Y	Br	Abh		
445.809	000	P	T	E	Ssp	Br	I	Y	Br	Abh		
445.810A	00	W	T	E	Ssp	Br	S	Br	Br			
445.810B	00	W	T	E	Ssp	Br	S	Br	Br			
445.810C	00	P	T	E	N	Br	S	Br	Br			
445.811	00	W	T	E	N	Bl	S	Y	Br			
445.812	00	P	G	E	N	Bl	S	Y	G			
445.813	00	P	T	E	N	Br	I	Br	Br			
445.815	00	P	G	E	N	Tn	I	Y	Bf			
445.817	00	P	T	E	Ssp	Tn	S	Y	Br			
445.818A	00	P	T	E	Ssp	Br	S	Y	Br			
445.818B	00	P	T	E	Ssp	Br	I	Lgn	Br			
445.824A	000	P	T	E	N	Br	I	Y	Y	Abh		

Table 3.0
Agronomic data for USDA soybean germplasm in maturity groups
000 and 00, PI 427,136 to PI 445.845, grown at St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
442.029	37	100	2.5*	89	2.5	2.0	13.6	2.25
442.030	36	98*	2.8	83*	2.5	2.5*	14.6*	2.09
442.031	40	94	2.0	77*	2.3	2.0*	13.1	2.17
442.032	41	95	3.3	64*	2.5	1.5	17.8	1.57
442.034	43	96	2.5	67	2.3	1.0	13.5	1.50
442.035	41	94	2.8	74*	2.5	2.5	14.4	1.86
442.036	43	99	4.0	61	2.5	1.0	15.6	1.95
442.037	36	90	1.3	35	3.5	2.5*	14.9	1.40
442.038A	39	92	2.5	71*	2.5	2.5	13.8	1.78
442.040	34	94	2.0	86	2.5	3.0*	14.9	2.13
442.041	35	90	1.0	35*	3.8	2.5*	14.5	1.20
442.042	38	100*	2.8	101	2.5	1.0	13.0*	2.33
442.043	42	97	2.3	54	2.3	1.5	13.6*	2.15
442.044	36	98*	3.8	77*	2.5	1.5	14.4*	2.19
442.045	37	103*	2.0	75	2.0	1.5	14.9*	2.54
445.786	38	105*	3.8	123*	2.5	1.0	13.4	2.34*
445.788	40	102*	3.3	70	2.5	2.0	19.0*	2.17*
445.791	39	97	2.8	84	2.3	1.0	13.7*	2.01
445.794A	45	98*	2.3	54*	3.3	-	19.9*	1.39*
445.794B	46	101*	2.3	55*	2.8	-	19.6*	2.08
445.797	45	95*	2.5	57*	2.0	1.0	13.5	1.79
445.798	38	110*	3.3	85	2.3	1.5	14.4	2.69
445.799	39	110	3.8	87	2.3	1.5	14.7*	2.76
445.800	37	104	2.3	74	2.0	1.5	14.1*	2.15*
445.801A	43	105*	3.5	74	2.5	1.5	14.2*	2.26
445.801B	41	105*	3.5	75	2.5	2.0	14.3*	2.28
445.803	37	93	2.8	75*	2.3	1.5	12.0	1.99
445.804	38	105	2.8	82	2.3	1.0	14.4	2.48*
445.805	41	96*	2.8	60*	2.0	1.0	15.5	1.72
445.806	39	99*	3.5	59*	2.5	1.5	18.5	1.56*
445.807A	41	96	3.0	72*	2.3	1.5	17.1*	1.96
445.807B	41	104	3.8	71	2.5	1.0	18.6	2.14
445.808A	41	94	3.0	65*	2.0	1.5	17.4	1.57
445.808B	39	101*	3.8	68*	2.5	1.5	19.4	1.67
445.809	40	98*	3.8	63*	2.3	1.5	17.9	1.49
445.810A	43	96*	2.8	82	2.3	-	13.2*	1.75
445.810B	43	97*	2.5	79	2.5	-	12.4	1.93
445.810C	43	104*	4.3	99*	2.0	-	14.4	2.22
445.811	38	105*	3.8	78*	2.8	3.5	17.2*	2.26
445.812	36	105	3.0	73	2.5	1.5	14.3	2.45
445.813	40	101*	4.3	90*	2.3	-	13.9*	1.95
445.815	38	111	2.8*	75	2.0	1.0	16.7	2.53
445.817	45	97*	3.0	59*	2.3	1.0	14.4	1.72
445.818A	40	95	4.0	77*	2.5	2.5	15.4	1.68
445.818B	41	105*	4.0	90	3.3	2.0	15.1	2.13
445.824A	41	93	3.3	72	1.8	1.0	9.6	1.68

Table 4.0

Seed composition data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
442.029	00	20.1	40.7	12.4	2.9	23.1	54.9	6.5	0.0
442.030	00	19.2	41.4	12.3	2.9	20.4	56.1	8.2	0.0
442.031	00	19.9	40.3	12.8	3.1	23.0	53.2	7.8	0.0
442.032	00	19.1	42.1	12.1	2.8	28.3	50.0	6.8	0.0
442.034	00	18.7	41.4	12.9	3.0	24.1	51.8	8.0	0.1
442.035	00	20.7	40.7	12.7	2.8	25.0	53.1	6.4	0.0
442.036	00	19.3	39.9	12.3	2.8	23.1	54.3	7.5	0.0
442.037	000	21.4	39.5	12.0	2.6	28.2	50.0	6.9	0.0
442.038A	00	19.7	42.3	11.1	2.8	28.1	50.0	7.8	0.0
442.040	00	20.7	39.7	12.2	3.2	23.4	54.4	6.6	0.0
442.041	000	21.0	39.1	12.0	3.0	27.1	50.6	7.2	0.0
442.042	00	20.3	40.6	12.8	3.5	22.1	53.9	7.4	0.1
442.043	00	17.6	41.0	13.2	2.8	21.5	53.8	8.7	0.0
442.044	00	19.2	41.6	11.2	3.0	26.0	52.3	7.3	0.1
442.045	00	19.8	41.1	13.5	3.3	21.8	51.8	9.5	0.0
445.786	00	20.5	40.4	12.8	3.5	20.5	55.8	7.3	0.0
445.788	00	19.1	42.8	11.5	2.8	25.6	53.6	6.4	0.0
445.791	000	19.3	40.4	13.6	3.0	20.5	52.7	10.1	0.0
445.794A	00	19.2	41.6	11.0	2.5	36.5	43.3	6.6	0.0
445.794B	00	19.1	42.3	11.0	2.5	36.0	43.7	6.6	0.0
445.797	000	16.8	41.1	12.3	3.0	29.9	46.7	7.9	0.0
445.798	00	19.4	41.5	12.0	2.6	23.6	53.7	8.0	0.0
445.799	00	19.9	40.6	12.0	2.7	22.0	55.1	8.1	0.0
445.800	00	19.4	41.4	12.9	3.4	21.4	52.5	9.6	0.0
445.801A	00	18.0	42.3	12.6	3.4	22.3	53.1	8.5	0.0
445.801B	00	17.4	42.4	12.4	3.0	21.5	53.8	9.2	0.0
445.803	000	20.0	37.9	13.3	3.4	20.6	53.3	9.5	0.0
445.804	00	19.0	41.5	12.2	2.6	21.4	55.0	8.6	0.0
445.805	00	19.2	42.4	12.7	2.8	19.7	56.2	8.4	0.0
445.806	00	19.0	43.3	12.6	2.9	25.9	51.5	7.0	0.0
445.807A	00	19.8	40.2	11.7	3.1	25.5	52.2	7.5	0.0
445.807B	00	20.3	39.9	12.0	2.8	25.1	52.7	7.3	0.0
445.808A	00	19.8	40.5	12.3	2.8	24.9	52.3	7.6	0.0
445.808B	00	19.4	41.9	12.2	2.6	28.3	50.2	6.7	0.0
445.809	000	19.0	42.4	12.9	3.1	25.8	50.9	7.1	0.1
445.810A	00	18.4	42.3	11.4	2.8	29.4	49.0	7.3	0.0
445.810B	00	18.9	42.0	11.4	2.9	29.6	48.7	7.2	0.0
445.810C	00	20.0	38.6	11.7	3.3	22.8	54.9	7.2	0.0
445.811	00	19.5	42.8	12.1	3.0	28.4	49.9	6.4	0.0
445.812	00	18.6	43.3	11.7	3.2	21.1	53.9	9.9	0.0
445.813	00	19.8	39.3	11.8	3.3	21.8	55.4	7.5	0.0
445.815	00	18.8	43.7	11.8	3.3	23.4	52.2	9.1	0.1
445.817	00	16.6	41.0	12.4	2.8	29.5	47.0	8.2	0.0
445.818A	00	20.2	42.0	11.0	3.3	26.0	52.3	7.3	0.0
445.818B	00	19.7	41.2	12.4	3.0	23.9	51.8	8.8	0.0
445.824A	000	18.8	40.3	14.3	3.3	20.2	53.2	8.9	0.0

Table 1.0
 Identification and origin information for USDA soybean
 germplasm in maturity groups 000 and 00, PI 427.136
 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
445,824B	(Wolfsthaler)	(108/74)	E. Germany	E. Germany	1980	000
445,825		177/77	E. Germany	E. Germany	1980	00
445,826		644	E. Germany	E. Germany	1980	000
445,832	Herb 91		Romania	Romania	1980	00
445,835	Olima		Romania	Romania	1980	00
445,836	Precoce 90		Romania	Romania	1980	00

Table 2.0

Descriptive data for USDA soybean germplasm in maturity groups

000 and 00, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
445,824B	000	P	T	E	N	Br	I	Y	Y	Abh		
445,825	00	P	T	E	N	Br	I	Y	Bl			
445,826	000	P	T	E	Ssp	Br	I	Y	Y			
445,832	00	P	T	E	Ssp	Tn	I	Y	Br	Abh		
445,835	00	P	T	E	N	Tn	S	Y	Br			
445,836	00	P	G	E	N	Br	S	Y	Y			

Table 3.0

Agronomic data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Flowering (days after May 31)	Maturity (days after May 31)	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
445.824B	44	95	3.0	73	2.0	1.0	9.8	1.49*
445.825	39	96	3.3*	76	2.3	1.0	14.6	2.50
445.826	40	92	2.8	82*	2.5	1.0	13.7	2.08
445.832	39	101	4.0	64	2.3	1.5	19.3	1.38*
445.835	38	101	3.5	97	2.5	1.0	13.7	2.02*
445.836	38	97*	2.0	79	2.8	2.5	15.6	2.12

Table 4.0

Seed composition data for USDA soybean germplasm in maturity groups
000 and 00, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
445.824B	000	19.4	40.4	14.0	3.6	19.9	53.1	9.4	0.0
445.825	00	21.4	39.4	12.6	3.5	22.3	54.5	6.9	0.1
445.826	000	19.8	41.8	12.0	2.6	22.4	55.3	7.6	0.0
445.832	00	20.2	41.3	12.5	3.3	24.1	53.0	7.0	0.0
445.835	00	20.3	40.5	12.9	3.6	22.0	54.5	6.9	0.0
445.836	00	19.8	39.3	12.8	2.8	30.0	47.5	6.7	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
	Clay		USA	USA	1968	0
	Evans		USA	USA	1974	0
	Harlon		Canada	Canada	1974	1
	Simpson		USA	USA	1982	0
	Swift		USA	USA	1972	0
427.138	Choseng No. 1		Canada	S. Korea	1978	0
430.457			China	China	1978	0
430.536	Hersonskajal	VIR 6269	USSR	USSR	1978	0
430.594	Chin lung No. 5		China	China	1979	0
436.612	Feng shou No. 10		China	China	1979	0
436.618	Ho 76-6045		China	China	1979	0
436.619	Sui nung No. 3		China	China	1979	0
436.620	Tieh feng No. 18		China	China	1979	0
437.069	A-79	VIR 4118	USSR	USSR	1980	0
437.070	A-0521	VIR 4978	USSR	USSR	1980	0
437.072	Amurscaja 21	VIR 4114	USSR	USSR	1980	0
437.076	Amurscaja 116	VIR 4123	USSR	USSR	1980	0
437.078A	Amurscaja 259	VIR 4954	USSR	USSR	1980	0
437.078B	(Amurscaja 259)	(VIR 4954)	USSR	USSR	1980	0
437.079A	Amurscaja 261	VIR 4872	USSR	USSR	1980	0
437.079B	(Amurscaja 261)	(VIR 4872)	USSR	USSR	1980	0
437.082	Amurscaja 305	VIR 5567	USSR	USSR	1980	0
437.090	DV-206	VIR 4572	USSR	USSR	1980	0
437.091	DV-225	VIR 4573	USSR	USSR	1980	1
437.096	DV-1477	VIR 5015	USSR	USSR	1980	0
437.098	DV-2407/2-1	VIR 4569	USSR	USSR	1980	1
437.100	DV-0140	VIR 5009	USSR	USSR	1980	0
437.107	Z-705	VIR 5303	USSR	USSR	1980	0
437.109A		VIR 243	USSR	USSR	1980	0
437.113		VIR 251	USSR	USSR	1980	0
437.115		VIR 254	USSR	USSR	1980	0
437.135A	Amurzejscaja	VIR 4964	USSR	USSR	1980	0
437.141	DV-2396	VIR 4376	USSR	USSR	1980	0
437.148	Z-475	VIR 4959	USSR	USSR	1980	0
437.149	Colhoznaja 18	VIR 4989	USSR	USSR	1980	0
437.153A	Cubanscaja 33	VIR 5573	USSR	USSR	1980	0
437.154	Cubanscaja 52	VIR 4386	USSR	USSR	1980	0
437.155	Cubanscaja 276	VIR 3974	USSR	USSR	1980	0
437.157	Cubanscaja 3824	VIR 4546	USSR	USSR	1980	0
437.158	Cubanscaja 3951	VIR 4547	USSR	USSR	1980	0
437.166A	Vniimc 8012	VIR 4545	USSR	USSR	1980	0
437.169A	VNIISC-4	VIR 4986	USSR	USSR	1980	0
437.172	Belaja Vu 4107	VIR 5083	USSR	USSR	1980	0
437.173	Chernaja Vu 4108	VIR 5084	USSR	USSR	1980	0
437.174A	Cujbysevscaja 70	VIR 4974	USSR	USSR	1980	0
437.175	Cujbysevscaja 77	VIR 4394	USSR	USSR	1980	0

Table 2.1

Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
Clay	0	P	G	E	N	Br	S	Y	Y			
Evans	0	W	G	E	N	Br	D	Y	Y			
Harlon	I	W	G	E	N	Br	D	Y	Y			
Simpson	0	P	G	E	N	Br	D	Y	Bf			
Swift	0	W	T	E	N	Br	D	Y	Bl			
427.138	0	W	G	A	Ssp	Br	D	Y	Bf			
430.457	0	W	G	E	N	Br	I	Y	Y		Na	
430.536	0	P	T	E	N	Tn	I	Y	Br	Abh		
430.594	0	P	G	E	N	Br	S	Y	Y			
436.612	0	P	G	E	N	Br	I	Y	Y	SAbh	Na	
436.618	0	W	G	E	N	Br	I	Y	Y		Na	
436.619	0	W	G	E	N	Br	S	Y	Y		Na	
436.620	0	W	G	E	N	Br	S	Y	Y		Na	
437.069	0	P	G	E	N	Br	I	Lg	G			
437.070	0	P	T	E	N	Br	I	Y	Y			
437.072	0	P	G	E	N	Br	I	Y	Y			
437.076	0	P	T	E	N	Br	I	Bl	Bl		Dab	
437.078A	0	P	G	E	N	Br	I	Y	Y			
437.078B	0	P	T	E	N	Br	I	Y	Y			
437.079A	0	P	T	E	N	Tn	I	Y	Y			
437.079B	0	P	T	E	N	Br	I	Y	Y			
437.082	0	P	T	E	N	Br	I	Y	Y			
437.090	0	W	G	E	Ssp	Br	S	Y	Y			
437.091	I	P	G	E	N	Br	I	Y	Y			
437.096	0	P	T	E	N	Br	D	G	G			
437.098	I	W	G	E	N	Dbr	S	Y	Bf			
437.100	0	P	Lt	A	N	Tn	S	Y	Y			
437.107	0	W	T	E	N	Br	S	Y	Y			
437.109A	0	P	G	E	N	Br	S	Y	Y			
437.113	0	P	G	E	N	Br	I	Y	Y			
437.115	0	P	G	E	N	Tn	I	Y	G			
437.135A	0	P	T	E	N	Tn	D	Y	Y			
437.141	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.148	0	P	G	E	N	Br	D	Y	Y			
437.149	0	P	T	E	N	Tn	S	Y	Br			
437.153A	0	W	G	E	N	Br	S	Y	Bf			
437.154	0	P	G	E	N	Br	I	Y	G			
437.155	0	P	G	E	N	Br	I	Y	Y			
437.157	0	P	G	E	N	Br	S	Y	Y			
437.158	0	P	G	E	N	Br	S	Y	Y			
437.166A	0	P	T	E	N	Br	I	Y	Br			
437.169A	0	P	G	E	N	Br	S	Y	Bf			
437.172	0	P	T	E	N	Br	D	Y	Y			
437.173	0	P	T	E	Ssp	Tn	I	G	G			
437.174A	0	P	T	E	N	Br	D	Y	Y			
437.175	0	P	T	E	N	Br	D	Y	Y			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
Clay	42	108	2.3*	66	2.8	2.0	15.2	2.27*
Evans	43	112	3.3*	84	2.0	1.0	15.6	2.89*
Harlon	44	116	3.5	102	2.0	1.5	16.6	2.86*
Simpson	43	116	3.0*	78	2.5	1.0	14.5	3.12*
Swift	44	117	3.3*	93	2.3	1.0	16.8	2.83*
427.138	54*	109*	3.8	63	2.3	2.5	10.5	1.47
430.457	42	114*	3.3	77	2.3	2.0*	16.8*	2.21
430.536	41	114	3.8	64	2.3	1.0	15.8	2.35
430.594	49*	122*	4.3	82	2.5	2.0	15.0	1.62
436.612	44	111	3.5	70	2.8	2.0	17.3	2.47
436.618	38	108*	3.8*	86	3.0	2.0	21.5	2.17
436.619	39	116	3.5	68	2.3	1.5	18.4	2.18
436.620	39	117	3.5	84	2.3	1.5	16.4	2.12*
437.069	47*	118*	4.3	98	2.8	2.5	19.6	2.51
437.070	43	111*	3.8	88	2.8	3.5	18.0	1.51
437.072	44	118*	3.5	69	2.5	2.0	18.3	2.00
437.076	40	120*	4.5	101*	2.0	-	15.8*	1.58*
437.078A	42	108*	3.5	78	2.8	3.0	18.7*	1.84
437.078B	45*	117	3.8*	82*	2.3	2.0	15.2	1.95
437.079A	Tested in and reported with the groups 000 and 00 evaluation.							
437.079B	46	116*	3.5	84	2.3	2.0	14.5	2.24
437.082	Tested in and reported with the groups 000 and 00 evaluation.							
437.090	44*	107*	3.8	77	2.3	1.5	13.3	2.42
437.091	49	126	4.0	85*	2.3	3.5	17.3	2.02
437.096	46*	113*	4.0	97	2.8	3.5	17.3	2.41
437.098	47	121	4.0	84	1.8	1.0	17.7	2.64
437.100	50*	121*	4.0	85	2.3	1.5	15.8	2.61
437.107	47*	114*	3.8	96*	2.3	5.0	18.8	2.24*
437.109A	48*	119*	3.8	78	2.3	2.0	18.1*	1.63*
437.113	51*	124*	3.8	91	2.3	3.5	17.1	2.42*
437.115	47*	119*	3.0	86	2.3	4.5	18.1	2.38
437.135A	47*	118*	3.3	74	2.0	2.0	16.0	2.39
437.141	46	113*	3.5	60*	2.3	-	26.9*	1.77*
437.148	47*	118*	3.0	76	2.0	2.0	19.4	2.11
437.149	46	118*	3.3	78	2.3	2.0	16.6	2.37
437.153A	48*	117*	3.0	74	2.0	1.0	15.8	2.51*
437.154	46*	116*	3.0	84	2.0	2.0	17.2*	1.94*
437.155	Tested in and reported with the group 000 and 00 evaluation.							
437.157	45	115*	3.0	67	2.5	1.5	17.2*	2.12*
437.158	46	119	3.0	74	2.0	2.0*	16.1	2.25*
437.166A	47*	116*	2.8*	88	2.3	1.5	12.6	2.08*
437.169A	48*	117*	3.3*	82	2.0	1.5	14.9	2.04*
437.172	43	106*	3.0	68	2.0	3.0	13.3*	1.65
437.173	46*	115*	2.8	64*	3.0	4.0*	14.5	1.44*
437.174A	40	102	3.0	72	2.5	3.0	13.6	1.70
437.175	41	102	2.8*	64	2.5	3.0	13.8	1.72

Table 4.1

Seed composition data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
Clay	0	21.9	39.6	11.5	2.9	23.0	54.8	7.6	0.0
Evans	0	22.0	38.3	11.8	2.7	20.0	57.8	7.5	0.0
Harlon	1	21.6	38.3	11.9	2.9	23.0	53.7	8.4	0.0
Simpson	0	21.0	38.8	11.7	2.4	19.1	58.5	8.1	0.0
Swift	0	21.5	38.6	12.8	2.8	18.2	57.5	8.5	0.0
427.138	0	14.4	48.0	13.2	2.5	18.4	54.9	10.6	0.1
430.457	0	20.7	39.8	11.1	3.5	28.3	50.7	6.4	0.0
430.536	0	20.5	41.1	12.4	3.1	23.1	53.6	7.6	0.0
430.594	0	18.3	42.9	11.0	2.8	24.9	53.3	7.9	0.0
436.612	0	20.4	41.9	11.6	3.1	18.3	59.2	7.6	0.0
436.618	0	19.5	41.1	11.5	3.0	22.6	55.5	7.3	0.0
436.619	0	21.7	38.4	12.2	2.7	28.8	48.5	7.7	0.0
436.620	0	19.9	40.1	11.1	3.3	24.1	52.8	8.6	0.0
437.069	0	19.8	42.8	11.3	2.8	25.3	53.2	7.4	0.0
437.070	0	17.3	46.2	11.6	2.8	25.8	53.1	6.7	0.0
437.072	0	18.4	43.8	11.9	2.5	25.7	51.2	8.5	0.0
437.076	0	16.8	46.1	11.7	2.8	22.3	55.1	7.8	0.0
437.078A	0	18.2	42.3	10.3	2.7	23.0	55.3	8.6	0.0
437.078B	0	18.8	41.7	12.3	2.8	25.1	51.3	8.4	0.0
437.079A	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.079B	0	18.8	41.1	11.8	2.8	24.8	53.5	7.0	0.0
437.082	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.090	0	19.0	41.5	12.4	3.0	24.9	52.0	7.5	0.0
437.091	1	18.4	44.2	12.3	2.3	22.1	54.1	9.1	0.0
437.096	0	20.5	41.5	11.0	2.7	23.7	54.6	7.8	0.0
437.098	1	19.2	40.3	10.7	2.8	23.8	54.1	8.4	0.0
437.100	0	18.9	41.0	12.0	2.7	22.7	53.8	8.7	0.0
437.107	0	18.8	43.2	12.2	2.3	25.8	51.3	8.3	0.0
437.109A	0	19.2	42.1	11.6	2.2	24.1	52.8	9.1	0.0
437.113	0	17.9	42.3	11.8	2.3	22.0	54.2	9.6	0.0
437.115	0	18.2	44.3	12.8	2.4	22.5	53.0	9.1	0.0
437.135A	0	19.3	43.1	12.2	2.6	22.7	54.1	8.4	0.0
437.141	0	18.9	42.5	11.8	2.2	27.1	50.2	8.6	0.0
437.148	0	18.4	44.0	11.9	2.2	26.0	50.8	9.0	0.0
437.149	0	18.6	44.4	11.2	2.4	22.5	56.4	7.4	0.0
437.153A	0	19.8	41.1	11.6	2.7	22.2	54.5	9.0	0.0
437.154	0	19.8	41.6	11.7	2.5	22.8	53.3	9.3	0.1
437.155	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.157	0	18.9	43.5	11.9	2.5	21.8	54.7	9.1	0.0
437.158	0	19.1	43.2	11.0	2.4	28.1	50.3	8.1	0.0
437.166A	0	19.4	43.3	11.4	2.6	22.8	55.1	7.8	0.0
437.169A	0	19.9	41.4	12.1	3.2	22.2	54.8	7.6	0.0
437.172	0	17.9	44.2	12.2	2.9	21.1	56.0	7.5	0.1
437.173	0	19.9	42.2	12.1	3.0	22.1	54.8	7.8	0.0
437.174A	0	18.8	43.3	12.1	2.9	20.3	57.0	7.5	0.0
437.175	0	18.9	43.1	12.1	2.9	21.6	56.1	7.2	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.180	DSS 19	VIR 4907	USSR	USSR	1980	0
437.186	M-5	VIR 4911	USSR	USSR	1980	0
437.189A	Bel'tscaja 636	VIR 5069	USSR	USSR	1980	0
437.191	Bessarabea III	VIR 4856	USSR	USSR	1980	0
437.192	Bessarabea III	VIR 4858	USSR	USSR	1980	0
437.193	Bessarabea 616	VIR 4724	USSR	USSR	1980	0
437.194	Bessarabea 645	VIR 4870	USSR	USSR	1980	0
437.196	Bessarabea 1086	VIR 4840	USSR	USSR	1980	0
437.198	Bryznenscaja	VIR 4860	USSR	USSR	1980	0
437.199	Corichevaja 43	VIR 4800	USSR	USSR	1980	0
437.201	CSchi 15	VIR 5155	USSR	USSR	1980	0
437.202	CSchi 19	VIR 5159	USSR	USSR	1980	0
437.203	CSchi 23	VIR 5163	USSR	USSR	1980	0
437.205A	CSchi 31	VIR 5171	USSR	USSR	1980	0
437.205B	(CSchi 31)	(VIR 5171)	USSR	USSR	1980	0
437.206	CSchi 32	VIR 5172	USSR	USSR	1980	0
437.207	CSchi 34	VIR 5174	USSR	USSR	1980	0
437.208	CSchi 35	VIR 5175	USSR	USSR	1980	0
437.209	CSchi 36	VIR 5176	USSR	USSR	1980	0
437.210	CSchi 43	VIR 5182	USSR	USSR	1980	0
437.211B	(CSchi 44)	(VIR 5183)	USSR	USSR	1980	0
437.212	CSchi 47	VIR 5185	USSR	USSR	1980	0
437.215	CSchi 608	VIR 4717	USSR	USSR	1980	0
437.216	CSchi 615	VIR 5140	USSR	USSR	1980	0
437.217	CSchi 618	VIR 4775	USSR	USSR	1980	0
437.221	CSchi 639	VIR 4745	USSR	USSR	1980	0
437.222	CSchi 671	VIR 4770	USSR	USSR	1980	0
437.223A	CSchi 672	VIR 4771	USSR	USSR	1980	0
437.224	CSchi 675	VIR 4772	USSR	USSR	1980	0
437.225	CSchi 676	VIR 4773	USSR	USSR	1980	0
437.227	CSchi 693	VIR 5143	USSR	USSR	1980	0
437.228	CSchi 694	VIR 5144	USSR	USSR	1980	0
437.229	CSchi 709	VIR 5142	USSR	USSR	1980	0
437.230	CSchi 710	VIR 5141	USSR	USSR	1980	0
437.231	CSchi 711	VIR 4801	USSR	USSR	1980	0
437.232	CSchi 712	VIR 4802	USSR	USSR	1980	0
437.233	CSchi 714	VIR 4804	USSR	USSR	1980	0
437.234	CSchi 715	VIR 4805	USSR	USSR	1980	0
437.235	CSchi 717	VIR 4807	USSR	USSR	1980	0
437.238	CSchi 1006	VIR 4859	USSR	USSR	1980	0
437.239	CSchi 1062	VIR 5139	USSR	USSR	1980	0
437.240	CSchi 1069	VIR 4828	USSR	USSR	1980	0
437.241	CSchi 1075	VIR 5135	USSR	USSR	1980	0
437.242	CSchi 1081	VIR 4836	USSR	USSR	1980	0
437.243	CSchi 1083	VIR 4838	USSR	USSR	1980	0
437.244	CSchi 1085	VIR 5137	USSR	USSR	1980	0

Table 2.1
Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.180	0	P	G	E	N	Br	I	Y	Y			
437.186	0	P	G	E	N	Br	I	Y	Y			
437.189A	0	P	T	E	N	Tn	S	Y	Br	Abh		
437.191	0	P	G	E	N	Br	I	Y	Y			
437.192	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.193	0	P	G	E	N	Br	I	Y	Y			
437.194	0	P	G	E	N	Br	I	Y	Y			
437.196	0	P	G	E	N	Br	I	Y	Y			
437.198	0	P	T	E	N	Tn	S	Br	Br	Abh		
437.199	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.201	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
437.202	0	P	T	E	N	Br	D	Y	Br	Abh		
437.203	0	P	T	E	N	Br	I	Rbr	Rbr	Abh		
437.205A	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.205B	0	P	T	E	N	Br	D	Y	Br	Abh		
437.206	0	P	T	E	N	Br	S	Br	Br	Abh	Dab	
437.207	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.208	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.209	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.210	0	P	T	E	N	Tn	I	Br	Br	Abh	Dab	
437.211B	0	P	T	E	N	Br	I	Rbr	Rbr			
437.212	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.215	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.216	0	P	T	E	N	Br	D	Y	Br	Abh	Dab	
437.217	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.221	0	P	T	E	N	Br	D	Y	Br	Abh		
437.222	0	Dp	G	E	N	Tn	S	Y	Bf	Abh		
437.223A	0	P	G	E	N	Tn	S	Y	Bf	Abh		
437.224	0	P	G	E	N	Tn	I	Y	Bf	Abh		
437.225	0	P	G	E	N	Br	I	Y	Y			
437.227	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.228	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.229	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.230	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
437.231	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
437.232	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
437.233	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.234	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.235	0	P	T	E	N	Br	I	Br	Br			
437.238	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.239	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.240	0	P	G	E	N	Tn	I	Y	Bf	Abh		
437.241	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.242	0	P	T	E	N	Tn	D	Y	Br	Abh	Dab	
437.243	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.244	0	P	G	E	N	Tn	I	Y	Bf	Abh		

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427,136 to PI 445,845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.180	49	121*	2.8	70	2.5	3.5	16.9	1.55
437.186	Tested in and reported with the groups 000 and 00 evaluation.							
437.189A	48	116*	3.8	62	1.8	1.5	11.3	1.80*
437.191	48*	116*	3.0	72	2.5	2.5	17.7	2.11
437.192	47*	117*	3.8	57*	2.0	1.5	10.0	1.79*
437.193	49*	117*	3.3	64	2.5	1.5	18.8	2.07
437.194	42*	110*	2.5	65	2.8	2.0	16.8*	1.78
437.196	46*	115*	2.8	72	2.3	2.0	17.2	1.65*
437.198	48*	116*	4.0	62*	2.3	-	9.2	1.59*
437.199	47*	106*	4.5	57	2.3	-	9.0	1.47*
437.201	48*	118*	3.8	83*	2.3	-	12.8	1.90*
437.202	48	114*	4.5	59	2.0	1.5	6.6	1.88*
437.203	49	112	4.3	72	2.0	-	10.1	2.08
437.205A	43	116*	4.3	60	2.0	1.5	9.9	2.26*
437.205B	47*	117*	4.5	64	2.0	1.5	10.9	1.97*
437.206	46*	106*	4.0	72*	2.0	-	7.6	2.01*
437.207	44	107*	4.0	42	1.8	2.0	7.3	1.95*
437.208	47*	111*	4.0	51*	1.8	1.5	8.0	1.96*
437.209	47*	111*	4.3	49	2.5	1.5	8.9	2.07
437.210	47*	108*	4.5	68	2.0	-	9.2	2.02
437.211B	46	108*	4.5	98*	2.3	-	10.6	2.17
437.212	49	109*	4.5	53	2.0	-	7.6	1.86*
437.215	Tested in and reported with the groups 000 and 00 evaluation.							
437.216	47*	110*	4.5	93	2.3	1.5	8.8	2.24
437.217	45	112	3.8	68*	2.0	1.5	9.2	2.36
437.221	46	116	4.0	74	2.0	1.5	8.2	2.38
437.222	41	107*	2.8	50	2.3	1.5	13.5*	2.08
437.223A	43	107*	3.3	59	2.3	1.0	13.0	2.62
437.224	47*	114*	3.3	79	2.0	2.0	15.7	2.35
437.225	48	118*	3.3	72	2.5	2.0	18.2	2.65
437.227	47*	112	4.3	74	2.0	1.5	8.4	2.00
437.228	42	115*	3.8	68	2.0	2.0	9.8	2.50
437.229	47	107*	4.3	86	2.0	-	9.5	2.37
437.230	46*	107*	4.3	64	2.0	-	7.4	2.27
437.231	42	106*	4.0	66	2.0	-	7.7	1.98
437.232	42	106*	4.3	64	2.0	-	7.6	2.00*
437.233	48	109	4.3	62*	2.0	-	9.8	2.09
437.234	47	109	4.3	68	2.0	-	9.9	2.18
437.235	50	124	4.0	73	2.5	-	13.5	2.36
437.238	49	115*	4.0	56	2.0	-	8.2	2.19
437.239	48	114*	3.8	58	2.0	1.5	12.0	2.61
437.240	42	113*	3.3	61	2.0	1.5	13.4*	2.21
437.241	47	113	3.8	61	1.8	1.5	7.8	2.14
437.242	48	113	3.8	57	2.0	2.5	10.3	2.29
437.243	50	117	3.8	83	2.0	1.5	8.0	2.25
437.244	44	120*	3.3	70	3.0	1.5	16.7	2.70

Table 4.1

Seed composition data for USDA soybean germplasm in maturity
group 0, PI 427,136 to PI 445,845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.180	0	17.8	44.1	12.0	2.5	19.4	56.6	9.5	0.0
437.186	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.189A	0	19.4	41.0	12.8	3.7	14.5	58.4	10.5	0.0
437.191	0	18.2	43.6	12.2	2.5	24.8	51.6	8.6	0.0
437.192	0	17.3	43.7	12.0	2.7	13.6	60.7	10.9	0.0
437.193	0	19.4	42.2	11.8	2.6	20.9	55.2	9.3	0.0
437.194	0	17.7	44.1	12.2	2.5	25.2	51.8	8.1	0.0
437.196	0	17.9	45.0	11.7	2.6	26.1	51.7	7.7	0.0
437.198	0	16.6	43.1	13.0	2.9	14.1	59.4	10.5	0.0
437.199	0	16.5	42.0	13.3	2.9	18.4	55.9	9.4	0.0
437.201	0	17.9	43.0	13.1	3.2	22.4	53.0	8.2	0.1
437.202	0	17.6	41.2	13.3	3.2	15.3	62.9	5.2	0.0
437.203	0	17.3	42.6	12.7	2.5	18.9	56.6	9.2	0.0
437.205A	0	18.1	40.4	13.4	2.7	16.4	58.2	9.3	0.0
437.205B	0	18.3	40.7	13.6	3.1	19.0	54.8	9.4	0.0
437.206	0	16.2	40.9	12.9	3.1	13.3	58.3	12.2	0.0
437.207	0	15.2	43.3	13.0	3.1	13.3	58.2	12.3	0.0
437.208	0	17.2	40.8	13.3	3.1	14.0	58.3	11.1	0.0
437.209	0	19.6	39.1	13.4	3.0	16.2	58.3	9.0	0.0
437.210	0	17.7	40.8	13.8	2.9	17.6	55.4	10.2	0.0
437.211B	0	19.5	38.8	13.7	3.1	17.8	55.3	10.0	0.1
437.212	0	17.1	40.4	12.9	3.1	12.9	59.4	11.5	0.1
437.215	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.216	0	19.2	39.7	14.9	2.9	18.9	54.4	8.7	0.0
437.217	0	17.7	40.6	13.4	2.7	16.2	58.2	9.3	0.1
437.221	0	17.0	40.5	13.2	3.1	14.8	58.1	10.6	0.0
437.222	0	19.9	42.0	13.1	2.9	17.7	57.4	8.6	0.1
437.223A	0	19.0	42.7	13.0	2.9	17.1	58.0	9.0	0.0
437.224	0	18.4	44.1	12.4	2.4	19.7	55.9	9.5	0.0
437.225	0	18.2	44.6	11.9	2.3	24.1	52.8	8.7	0.0
437.227	0	16.8	42.6	13.3	2.7	17.7	56.7	9.4	0.0
437.228	0	17.7	41.2	13.5	2.7	15.8	58.2	9.7	0.0
437.229	0	17.5	41.0	13.8	2.9	16.6	56.8	9.8	0.0
437.230	0	16.4	41.6	13.2	3.1	13.1	58.2	12.2	0.0
437.231	0	15.6	40.9	13.1	3.1	13.6	58.1	11.9	0.0
437.232	0	16.1	40.5	13.0	3.1	13.5	58.2	12.1	0.0
437.233	0	17.3	40.6	14.0	3.1	18.9	54.4	9.5	0.1
437.234	0	17.5	41.2	14.0	3.0	19.2	54.1	9.6	0.0
437.235	0	17.6	41.6	13.2	2.8	18.1	56.0	9.8	0.0
437.238	0	16.7	42.1	13.0	3.0	13.2	59.4	11.4	0.0
437.239	0	18.4	43.3	12.3	3.3	13.3	59.7	11.3	0.0
437.240	0	19.1	41.0	13.1	3.1	17.1	58.4	8.2	0.0
437.241	0	16.3	42.1	13.2	3.0	15.3	58.5	9.8	0.0
437.242	0	18.2	40.8	13.7	3.1	18.6	55.7	8.7	0.0
437.243	0	16.2	42.8	13.6	2.8	15.6	56.6	11.2	0.0
437.244	0	18.1	43.1	12.8	2.7	17.3	58.5	8.6	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.245	CSchi 1086	VIR 5138	USSR	USSR	1980	0
437.246A	CSchi 1087	VIR 4841	USSR	USSR	1980	0
437.246B	(CSchi 1087)	(VIR 4841)	USSR	USSR	1980	0
437.246C	(CSchi 1087)	(VIR 4841)	USSR	USSR	1980	0
437.249	Dobruzanca	VIR 4046	USSR	USSR	1980	0
437.250	Dobruzanca 12	VIR 4744	USSR	USSR	1980	0
437.251A	Dobruzanca 18	VIR 4778	USSR	USSR	1980	0
437.251B	(Dobruzanca 18)	(VIR 4778)	USSR	USSR	1980	0
437.252	Dobruzanca 21	VIR 4764	USSR	USSR	1980	0
437.253	Dobruzanca 29	VIR 4781	USSR	USSR	1980	0
437.254	Dobruzanca 35	VIR 4753	USSR	USSR	1980	0
437.255	Dobruzanca 37	VIR 4766	USSR	USSR	1980	0
437.256	Dobruzanca 41	VIR 4788	USSR	USSR	1980	0
437.257	Dobruzanca 47	VIR 4820	USSR	USSR	1980	0
437.259	Dobruzanca 628	VIR 4736	USSR	USSR	1980	0
437.260A	Dobruzanca 629	VIR 4737	USSR	USSR	1980	0
437.260B	(Dobruzanca 629)	(VIR 4737)	USSR	USSR	1980	0
437.261A	Dobruzanca 700	VIR 4793	USSR	USSR	1980	0
437.261B	(Dobruzanca 700)	(VIR 4793)	USSR	USSR	1980	0
437.261C	(Dobruzanca 700)	(VIR 4793)	USSR	USSR	1980	0
437.261D	(Dobruzanca 700)	(VIR 4793)	USSR	USSR	1980	0
437.262	Dobruzanca 710	VIR 4824	USSR	USSR	1980	0
437.263	Dobruzanca B	VIR 4786	USSR	USSR	1980	0
437.264	Dobruzanca B-642	VIR 4747	USSR	USSR	1980	0
437.265A	Dobruzanca D	VIR 4718	USSR	USSR	1980	0
437.265B	(Dobruzanca D)	(VIR 4718)	USSR	USSR	1980	0
437.265C	(Dobruzanca D)	(VIR 4718)	USSR	USSR	1980	0
437.265D	(Dobruzanca D)	(VIR 4718)	USSR	USSR	1980	0
437.266	Dobruzanca S	VIR 4847	USSR	USSR	1980	0
437.267	Dobruzanca I	VIR 4767	USSR	USSR	1980	0
437.268	Dobruzanca IV	VIR 4757	USSR	USSR	1980	0
437.269	Dobruzanca V	VIR 4727	USSR	USSR	1980	0
437.272	Rajner	VIR 4047	USSR	USSR	1980	0
437.275	Staroucrainea	VIR 4728	USSR	USSR	1980	0
437.276	Vengerca Nizcaja	VIR 4550	USSR	USSR	1980	0
437.279		VIR 4923	USSR	USSR	1980	0
437.280		VIR 4924	USSR	USSR	1980	0
437.281		VIR 4925	USSR	USSR	1980	0
437.283		VIR 4927	USSR	USSR	1980	0
437.284		VIR 4928	USSR	USSR	1980	0
437.285		VIR 4929	USSR	USSR	1980	0
437.286		VIR 4930	USSR	USSR	1980	0
437.287		VIR 4931	USSR	USSR	1980	0
437.288		VIR 4932	USSR	USSR	1980	0
437.289		VIR 4933	USSR	USSR	1980	0
437.291		VIR 4937	USSR	USSR	1980	0

Table 2.1
Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.245	0	P	G	E	N	Br	I	Y	Y			
437.246A	0	P	G	E	N	Br	I	Y	Y			
437.246B	0	P	G	E	N	Br	I	Y	Y	Abh		
437.246C	0	P	G	E	N	Tn	I	Y	Bf	Abh		
437.249	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.250	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.251A	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.251B	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.252	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.253	0	P	T	E	N	Tn	D	Y	Br	Abh	Dab	
437.254	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.255	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.256	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.257	0	P	T	E	N	Br	I	Y	Br	Abh		
437.259	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.260A	0	P	T	E	N	Br	I	Y	Br	Abh		
437.260B	0	P	T	E	N	Br	I	Y	Br	Abh		
437.261A	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.261B	0	P	T	E	N	Tn	I	Br	Br	Abh	Dab	
437.261C	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.261D	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.262	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
437.263	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.264	0	P	T	E	N	Br	I	Y	Br	Abh	SDab	
437.265A	0	P	T	E	N	Br	S	Y	Br	Abh	Dab	
437.265B	0	P	T	E	N	Br	I	Y	Br	Abh	SDab	
437.265C	0	P	T	E	N	Tn	S	Y	Br	Abh	SDab	
437.265D	0	P	T	E	N	Br	S	Y	Br	Abh		
437.266	0	P	T	E	N	Br	I	Y	Br	Abh	SDab	
437.267	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.268	0	P	T	E	N	Tn	S	Y	Br	Abh	Dab	
437.269	0	P	T	E	N	Br	D	Y	Br	Abh		
437.272	0	P	G	E	N	Br	I	Y	Y			
437.275	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.276	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.279	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
437.280	0	P	G	E	N	Dbrr	I	Y	Bf	Abh		
437.281	0	P	T	E	N	Tn	I	Br	Br	Abh		
437.283	0	P	G	E	N	Tn	I	Y	Bf	Abh		
437.284	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.285	0	W	T	E	N	Tn	S	Lg	Bl			
437.286	0	P	T	E	N	Br	D	Y	Br	Abh		
437.287	0	P	T	E	N	Br	I	Y	Bl br	Abh		
437.288	0	P	T	E	N	Br	D	Y	Br	Abh	Dab	
437.289	0	P	T	E	N	Br	D	Y	Br	Abh	Dab	
437.291	0	P	T	E	N	Tn	I	Rbr	Rbr	Abh	Dab	

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.245	44	119*	3.3	63	2.5	1.5	19.3	2.34
437.246A	46	119*	3.3	69	2.8	1.5	18.3	2.54*
437.246B	43	118*	3.5	94*	2.5	2.0	18.4	2.10*
437.246C	43*	118*	3.3	88	2.5	1.5	17.3*	2.27*
437.249	45	117*	3.8	68	2.3	2.0	10.6	1.73
437.250	50	114	4.3*	76*	2.0	2.0	8.4	2.01
437.251A	49	111	4.0	88	2.0	1.5	9.3	2.50
437.251B	48	110	4.0	90	2.3	1.5	9.3	1.66*
437.252	48*	114*	3.8	65	2.0	2.0	10.7	2.06
437.253	44	108*	4.0	65	2.0	1.5	8.6	2.06
437.254	49	118*	4.3	60	2.0	2.0	8.0	2.54
437.255	49	116	3.8	64	2.0	1.5	8.8	2.17
437.256	43	118*	4.0	70	1.8	2.0	10.0	2.08*
437.257	49	111	4.0	82	2.3	2.0	8.6	2.20
437.259	48	107*	3.5	51	1.8	1.5	7.6	2.01
437.260A	47*	110*	4.0	61	2.3	1.5	8.9	2.09
437.260B	48	112	3.8	67	2.3	1.5	10.8	2.31
437.261A	47	107*	4.0	63	2.3	1.5	7.6	2.16
437.261B	47*	107*	4.3	79*	2.0	-	9.2	2.22
437.261C	47*	108*	4.3	74*	1.8	1.0	7.7	2.22
437.261D	48*	116*	4.3	74	1.8	2.0	10.3	2.22
437.262	46*	107*	3.8	55	2.0	-	7.8	1.98
437.263	48	109*	3.5	57	2.0	1.5	7.1	2.06
437.264	48	115*	4.3	67	1.8	1.5	7.2	2.28
437.265A	Tested in and reported with the groups 000 and 00 evaluation.							
437.265B	46*	106*	3.3*	48	2.5	1.0	9.2	2.01*
437.265C	49	116*	4.0	67	1.8	1.5	8.8	2.12
437.265D	50	119	3.8	85	1.8	1.5	10.9	2.04
437.266	49	116	4.5	60	2.0	1.5	7.4	2.27*
437.267	45	110	4.0	51	1.5	2.0	6.8	2.21*
437.268	46	109*	3.8	62*	1.8	1.5	8.8	2.03
437.269	47*	113*	4.3	70	2.3	1.5	11.9	2.27*
437.272	48*	115*	3.3	76	2.0	1.5	17.6*	2.36*
437.275	46*	107*	3.5	56*	2.5	2.0	9.6	1.86*
437.276	47*	116*	3.8*	69	2.0	2.5	10.0	2.33
437.279	51*	108*	3.8	65	2.3	2.0	8.1	1.98*
437.280	Tested in and reported with the groups 000 and 00 evaluation.							
437.281	49	114*	4.3	63	2.0	-	7.7	2.10*
437.283	50	116*	3.3	72	2.3	1.5	14.5	2.45*
437.284	48	111*	4.3	60	2.3	1.5	8.9	2.10*
437.285	48*	113*	2.5	70*	2.3	1.5	10.3	2.04*
437.286	48*	111*	4.0	83*	2.0	1.5	9.2	1.87*
437.287	50*	118*	2.3*	62	2.8	1.5	14.9*	2.05*
437.288	47*	110*	4.3	77*	2.0	1.5	9.3	1.78*
437.289	44	111*	4.0	68*	2.5	2.0	8.4	1.73*
437.291	Tested in and reported with the groups 000 and 00 evaluation.							

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.245	0	17.8	44.6	12.3	2.1	23.9	52.7	8.8	0.0
437.246A	0	18.3	43.2	11.9	2.4	25.6	51.6	8.4	0.0
437.246B	0	19.4	40.3	12.4	2.8	27.5	50.4	6.7	0.0
437.246C	0	19.0	42.5	12.2	2.6	22.1	55.0	7.9	0.0
437.249	0	16.7	44.9	13.1	3.0	16.5	57.5	9.8	0.0
437.250	0	18.5	41.7	13.4	2.9	15.3	58.1	10.1	0.0
437.251A	0	19.1	41.9	15.3	3.3	21.5	52.9	6.9	0.0
437.251B	0	18.0	40.6	15.3	3.0	18.7	54.6	8.3	0.0
437.252	0	17.5	41.3	14.5	2.9	17.3	56.0	9.2	0.0
437.253	0	17.2	41.7	13.1	2.9	16.2	57.8	9.8	0.0
437.254	0	17.0	40.8	13.1	2.9	14.1	59.5	10.3	0.0
437.255	0	16.9	41.5	13.0	2.8	13.4	59.1	11.5	0.1
437.256	0	17.3	42.1	13.2	2.6	14.8	58.9	10.4	0.0
437.257	0	17.7	41.4	13.9	2.8	17.0	56.9	9.2	0.0
437.259	0	17.1	41.2	13.2	3.1	16.5	56.0	11.1	0.0
437.260A	0	17.4	41.7	13.4	2.9	15.1	57.5	10.8	0.1
437.260B	0	17.9	40.4	14.0	2.9	17.0	56.9	9.1	0.0
437.261A	0	17.6	40.1	14.1	3.4	16.9	55.8	9.6	0.0
437.261B	0	17.1	41.3	13.8	3.1	16.4	56.7	9.8	0.0
437.261C	0	16.4	41.6	13.6	3.0	15.2	57.6	10.5	0.0
437.261D	0	17.5	41.6	13.0	2.8	15.8	58.4	9.9	0.0
437.262	0	17.1	41.0	13.1	3.1	15.1	57.7	10.9	0.0
437.263	0	15.6	42.1	13.3	3.1	13.8	57.7	12.1	0.0
437.264	0	17.3	40.7	13.1	3.0	14.1	61.1	8.5	0.0
437.265A	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.265B	0	18.2	40.1	14.7	2.9	17.1	55.5	9.6	0.0
437.265C	0	17.2	41.5	14.1	2.9	15.0	57.6	10.3	0.0
437.265D	0	17.9	41.7	12.6	2.9	15.5	58.5	10.2	0.0
437.266	0	18.1	41.1	12.6	2.9	15.7	58.3	10.3	0.0
437.267	0	17.0	40.2	13.0	3.0	13.7	58.4	11.7	0.0
437.268	0	16.9	41.0	13.2	3.0	14.7	57.7	11.2	0.0
437.269	0	18.0	41.9	13.5	3.0	17.9	55.9	9.5	0.0
437.272	0	19.3	42.8	12.1	2.4	27.0	51.2	7.2	0.1
437.275	0	18.7	41.5	13.2	2.9	19.2	56.0	8.6	0.0
437.276	0	18.3	41.6	13.9	3.0	15.9	57.3	9.8	0.0
437.279	0	17.3	41.6	13.6	3.0	15.9	57.3	10.1	0.0
437.280	0	Tested in and reported with the groups 000 and 00 evaluation.							
437.281	0	17.2	42.7	13.3	2.9	16.6	57.3	9.9	0.0
437.283	0	18.2	41.7	12.9	2.9	17.6	56.9	9.6	0.0
437.284	0	18.6	41.2	13.3	3.0	15.1	58.3	10.0	0.0
437.285	0	19.3	40.2	13.2	3.0	16.2	57.8	9.6	0.0
437.286	0	18.8	42.4	12.0	2.9	23.7	52.5	8.8	0.0
437.287	0	18.8	40.9	12.9	3.1	18.4	56.0	9.5	0.0
437.288	0	17.8	42.7	13.0	2.8	20.4	54.6	9.0	0.0
437.289	0	17.6	42.5	13.8	3.1	19.0	55.0	9.0	0.0
437.291	0	Tested in and reported with the groups 000 and 00 evaluation.							

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.292A		VIR 4938	USSR	USSR	1980	0
437.292B		(VIR 4938)	USSR	USSR	1980	0
437.293		VIR 4939	USSR	USSR	1980	0
437.294A		VIR 4940	USSR	USSR	1980	0
437.295		VIR 4943	USSR	USSR	1980	0
437.296		VIR 4944	USSR	USSR	1980	0
437.297		VIR 4945	USSR	USSR	1980	0
437.302		VIR 4952	USSR	USSR	1980	0
437.305	Gorscaja 1	VIR 4558	USSR	USSR	1980	0
437.306A	Gorscaja 39	VIR 4559	USSR	USSR	1980	0
437.310	Gorscaja 373	VIR 4557	USSR	USSR	1980	0
437.316	Amurscaja 43	VIR 4347	USSR	USSR	1980	0
437.320	Csjuga	VIR 5001	USSR	USSR	1980	0
437.339A	DV-2996	VIR 4610	USSR	USSR	1980	0
437.344A	L-1088	VIR 5606	USSR	USSR	1980	0
437.351	Primorscaja 762	VIR 5548	USSR	USSR	1980	0
437.354	Savicevskaja 109	VIR 3752	USSR	USSR	1980	0
437.363A	Ussurijscaja 142	VIR 4181	USSR	USSR	1980	0
437.380	Ussurijscaja 432	VIR 4183	USSR	USSR	1980	0
437.389A	Ussurijscaja 456	VIR 4136	USSR	USSR	1980	0
437.413	Ussurijscaja 509	VIR 4234	USSR	USSR	1980	0
437.419A	Ussurijscaja 518	VIR 4241	USSR	USSR	1980	0
437.474A	VU-4443	VIR 5088	USSR	USSR	1980	0
437.474B	(VU-4443)	(VIR 5088)	USSR	USSR	1980	0
437.481		VIR 950	USSR	USSR	1980	0
437.483		VIR 995	USSR	USSR	1980	0
437.490		VIR 3034	USSR	USSR	1980	0
437.501A		VIR 3815	USSR	USSR	1980	0
437.501B		(VIR 3815)	USSR	USSR	1980	0
437.502		VIR 3836	USSR	USSR	1980	0
437.503		VIR 3846	USSR	USSR	1980	0
437.506		VIR 3857	USSR	USSR	1980	0
437.507		VIR 3859	USSR	USSR	1980	0
437.508A		VIR 3876	USSR	USSR	1980	0
437.512		VIR 3926	USSR	USSR	1980	0
437.518		VIR 5089	USSR	USSR	1980	0
437.521	Stavropol'scaja 0399	VIR 5037	USSR	USSR	1980	0
437.523		VIR 142	USSR	USSR	1980	0
437.526A	Belotsercovscaja 59	VIR 4971	USSR	USSR	1980	0
437.527	Cel'merezcaja 2	VIR 5263	USSR	USSR	1980	0
437.529	Char'covscaja 149	VIR 4393	USSR	USSR	1980	0
437.536	Dnepropetrovscaja VU 2382	VIR 5082	USSR	USSR	1980	0
437.537	Dneprovscaja 1	VIR 5292	USSR	USSR	1980	0
437.542	Pratsja	VIR 4976	USSR	USSR	1980	0
437.543	Pravda	VIR 4975	USSR	USSR	1980	0
437.549		VIR 5250	USSR	USSR	1980	0

Table 2.1
Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.292A	0	P	T	E	N	Br	I	Y	Br	Abh		
437.292B	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.293	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.294A	0	P	G	E	N	Br	I	Y	Y			
437.295	0	P	G	E	N	Tn	I	Y	Bf	Abh		
437.296	0	P	T	E	N	Br	I	Y	Y			
437.297	0	P	T	E	N	Br	I	Rbr	Rbr	Abh		
437.302	0	P	T	E	Ssp	Tn	I	Y	Br	Abh		
437.305	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.306A	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.310	0	P	T	E	Ssp	Tn	D	Y	Y			
437.316	0	P	T	E	Ssp	Br	I	Y	Br			
437.320	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.339A	0	P	T	E	N	Br	I	Y	Y			
437.344A	0	P	G	E	N	Br	I	Y	Bf		Na	
437.351	0	P	T	E	N	Br	S	Y	G			
437.354	0	P	T	E	N	Br	D	Y	Y			
437.363A	0	P	T	E	N	Br	D	Y	Y			
437.380	0	P	G	E	N	Br	I	Y	Y			
437.389A	0	P	T	E	N	Tn	D	Y	Br			
437.413	0	P	G	E	N	Tn	I	Y	Y			
437.419A	0	P	G	E	N	Br	S	Y	Y			
437.474A	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.474B	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.481	0	P	G	E	N	Br	S	Y	Y			
437.483	0	P	G	E	N	Br	I	Y	Y			
437.490	0	P	T	E	N	Br	I	Bl	Bl		Dab	
437.501A	0	P	T	E	N	Br	D	Y	Y		Dab	
437.501B	0	P	T	E	N	Tn	I	Y	Y			
437.502	0	P	T	E	N	Br	I	Y	Br			
437.503	0	P	G	E	N	Br	I	Y	Y			
437.506	0	P	G	E	N	Br	I	Y	Y			
437.507	0	P	G	E	N	Br	S	Y	Y			
437.508A	0	P	G	E	N	Br	D	Y	Y			
437.512	0	P	T	E	N	Tn	I	Y	Y			
437.518	0	P	T	E	N	Br	D	Y	Br			
437.521	0	P	T	E	N	Tn	I	Y	Y			
437.523	0	W	T	E	N	Bl	S	Gnbr	Br			
437.526A	0	P	G	E	N	Br	D	Y	Y			
437.527	0	P	T	E	N	Br	D	Y	Y			
437.529	0	P	T	E	N	Br	I	Y	Bl			
437.536	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.537	0	P	T	E	N	Tn	I	Y	Br	Abh		
437.542	0	P	T	E	N	Br	I	Y	Br			
437.543	0	P	G	E	N	Br	I	Y	Y	SDef		
437.549	0	P	T	E	N	Br	I	Y	Br	Abh		

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.292A	45	105*	3.5	48	2.5	1.5	8.4	1.56*
437.292B	48	112*	3.3	59*	2.0	1.0	7.8	1.53*
437.293	49	113*	3.8	59	2.3	1.5	9.8	1.70*
437.294A	46	112*	2.3	65	2.5	1.5	17.4*	1.63
437.295	41	103*	2.3	59*	2.5	1.0	13.7*	1.56
437.296	39	98*	2.3*	75	2.0	1.0	8.4	1.54
437.297	52*	114*	3.0	75	2.0	-	10.3	1.69
437.302	40	111*	3.0	64*	2.5	2.0	16.9*	1.45*
437.305	48	114*	3.0	61	2.3	1.0	12.3	1.54*
437.306A	48	114*	3.3	59*	2.8	1.5	11.0	1.64*
437.310	47*	115*	3.3	74	3.0	1.5	14.4*	1.84*
437.316	43*	118*	3.0	82*	2.3	2.0	13.3*	2.02*
437.320	45	111*	2.8*	85*	2.3	-	12.5*	1.64*
437.339A	50*	120*	3.5	96*	2.5	4.5	16.3	1.98*
437.344A	41	117*	3.8	83	2.8	2.0	15.8*	1.87*
437.351	50	117*	4.0	91*	2.3	4.0*	18.5	2.06
437.354	52*	120*	4.3	99*	2.3	4.5	15.8	2.22
437.363A	50*	117*	3.8	72*	2.3	4.0	19.9	1.84*
437.380	48*	118*	4.0	94*	2.5	3.5	18.2	2.62
437.389A	47*	117*	3.8	75	2.5	2.0	16.1	2.37*
437.413	46*	119*	3.8	79*	2.0	3.0	17.6	2.53
437.419A	48*	118*	4.8	89*	2.0	3.5	18.1	2.46
437.474A	49*	118*	4.0	82	2.0	-	12.7	2.31
437.474B	43	110*	3.0	90	2.0	-	12.3	2.04
437.481	43	115*	3.0	73	2.5	3.0*	17.0	2.40
437.483	44*	116*	3.0	73	2.3	1.5	18.1	2.38
437.490	41	111*	4.0	79	2.3	-	11.7	1.71
437.501A	49*	116*	3.8	78*	1.8	3.5	15.8	2.17
437.501B	51*	116*	3.3	69	2.0	4.5	16.0	2.41
437.502	51*	118*	3.5	89	2.3	3.0*	14.0	2.35
437.503	46	117*	2.8*	72	2.3	2.5	17.4	2.18
437.506	43	110*	3.3	69	2.3	2.5	16.5*	2.14
437.507	42	113*	3.3	78	2.3	2.0	18.1*	2.25
437.508A	43	114*	3.0	64	2.5	2.0	17.9	2.40
437.512	45	110*	4.0	82	2.5	4.0	14.8*	1.68
437.518	40	110*	4.0	79	2.5	3.5	15.7*	1.96
437.521	45*	115*	3.8	82	2.0	4.5	16.0	2.03
437.523	51*	124	4.5	109*	2.0	-	10.9	2.23
437.526A	43	119*	4.0	85	2.5	2.0	19.2	2.38
437.527	41	108*	3.8	92	2.3	3.0	15.4	2.21
437.529	42	108*	4.0	81*	2.3	1.0	13.8*	1.96
437.536	42	112*	2.8	58	2.0	1.0	13.9	2.23
437.537	43	115*	3.5	65	1.8	1.0	14.0	2.26
437.542	40	109*	3.3	70	2.3	1.0	16.5	2.03
437.543	40	108*	3.0	69	2.8	4.0	19.3	1.79
437.549	48	120	4.8	61	2.5	2.0	8.5	2.30

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.292A	0	17.3	41.6	13.9	3.1	15.9	56.7	10.4	0.0
437.292B	0	17.4	42.0	13.5	3.1	16.8	56.4	10.3	0.0
437.293	0	17.2	43.3	13.1	2.7	20.4	54.8	8.9	0.0
437.294A	0	17.7	42.8	13.2	2.9	17.2	57.1	9.4	0.0
437.295	0	17.1	45.6	13.2	2.8	16.6	57.3	10.0	0.0
437.296	0	17.8	43.8	12.9	2.8	18.9	56.0	9.4	0.0
437.297	0	17.2	43.7	12.8	2.8	19.8	55.9	8.5	0.0
437.302	0	18.2	42.9	13.1	3.0	18.4	56.7	8.6	0.0
437.305	0	19.0	43.5	13.1	3.3	20.3	54.6	8.5	0.0
437.306A	0	19.0	42.7	12.4	3.6	15.7	57.9	10.2	0.0
437.310	0	19.2	42.8	11.5	2.9	21.3	55.5	8.6	0.0
437.316	0	19.0	43.5	11.5	2.8	25.7	52.9	7.0	0.0
437.320	0	17.5	43.8	11.9	2.7	22.3	55.1	7.9	0.0
437.339A	0	18.7	44.0	11.6	2.8	23.4	54.6	7.5	0.0
437.344A	0	18.5	43.9	11.7	2.6	18.3	58.6	8.7	0.0
437.351	0	19.5	41.7	12.2	2.6	21.1	55.8	8.3	0.0
437.354	0	19.2	42.6	11.9	2.5	19.8	57.2	8.5	0.0
437.363A	0	18.9	44.5	11.4	2.4	22.8	54.4	8.8	0.0
437.380	0	17.6	44.8	11.1	2.3	22.4	54.8	9.2	0.0
437.389A	0	18.2	44.4	11.8	2.5	21.7	54.8	9.1	0.0
437.413	0	18.8	43.0	12.2	2.5	21.5	54.5	9.1	0.0
437.419A	0	18.6	43.3	11.3	2.6	22.6	54.1	9.2	0.0
437.474A	0	17.8	43.5	12.1	2.6	20.2	55.7	9.3	0.0
437.474B	0	17.8	42.4	12.3	2.6	21.2	54.4	9.2	0.0
437.481	0	19.0	42.4	12.4	2.4	19.5	56.2	9.3	0.0
437.483	0	19.4	42.8	10.9	2.3	24.4	53.3	8.9	0.1
437.490	0	18.0	43.4	12.2	2.6	21.2	55.9	7.9	0.1
437.501A	0	18.4	45.0	11.5	2.6	22.3	56.3	7.2	0.0
437.501B	0	18.5	43.9	11.5	2.7	26.9	51.1	7.7	0.0
437.502	0	18.8	44.0	11.2	2.8	26.2	51.5	8.3	0.0
437.503	0	18.0	44.2	11.2	2.5	24.8	52.5	8.9	0.0
437.506	0	18.0	45.2	12.2	2.6	21.9	54.4	8.8	0.0
437.507	0	18.9	43.5	12.3	2.5	23.9	53.0	8.1	0.0
437.508A	0	18.8	43.7	12.2	2.5	25.0	52.3	7.8	0.0
437.512	0	18.5	44.0	12.4	2.3	21.0	56.3	7.9	0.0
437.518	0	19.2	43.3	11.9	2.6	24.5	52.7	8.1	0.0
437.521	0	18.4	44.7	11.8	2.6	24.8	52.4	8.2	0.0
437.523	0	17.7	43.2	12.5	2.7	23.5	53.4	7.7	0.0
437.526A	0	17.7	43.2	11.8	2.3	20.6	55.9	9.2	0.0
437.527	0	19.1	42.6	12.4	2.6	21.8	54.1	8.9	0.0
437.529	0	18.8	41.9	12.6	3.2	19.1	56.4	8.5	0.0
437.536	0	19.8	40.9	12.6	3.1	22.0	54.6	7.5	0.0
437.537	0	19.5	41.8	12.1	3.1	21.4	55.0	8.3	0.0
437.542	0	19.2	42.3	11.5	2.8	22.7	55.4	7.5	0.0
437.543	0	19.1	42.8	11.6	3.0	21.1	55.9	8.2	0.1
437.549	0	18.2	41.5	12.6	2.8	18.6	56.8	9.0	0.0

Table 1.1
Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.551	A-100	VIR 4564	USSR	USSR	1980	0
437.552	A-934	VIR 4563	USSR	USSR	1980	0
437.553	Aj huej mestnyj	VIR 5405	USSR	China	1980	0
437.557	Baj mej	VIR 5455	USSR	China	1980	0
437.560	Bej man' N41	VIR 5406	USSR	China	1980	0
437.561	Bej man' N217	VIR 5407	USSR	China	1980	0
437.564	Cesi 283	VIR 5486	USSR	China	1980	0
437.565	Ce suan	VIR 5384	USSR	China	1980	0
437.566	Ce tszy 283	VIR 5552	USSR	China	1980	0
437.570	Charbinscaja Poludicaja	VIR 5373	USSR	China	1980	0
437.579	Chuan li	VIR 5473	USSR	China	1980	0
437.582	Chzi hua N1	VIR 5412	USSR	China	1980	0
437.583	Chzi hua N4	VIR 5413	USSR	China	1980	0
437.587	Cye suan	VIR 5216	USSR	China	1980	0
437.590	Da li huan	VIR 5382	USSR	China	1980	0
437.593A	Da tszin' huan	VIR 5462	USSR	China	1980	0
437.597A	Dun nun 55-6012	VIR 5555	USSR	China	1980	0
437.597B	(Dun nun 55-6012)	(VIR 5555)	USSR	China	1980	0
437.597C	(Dun nun 55-6012)	(VIR 5555)	USSR	China	1980	0
437.598A	Dun nyn 50-6931	VIR 5648	USSR	China	1980	0
437.599	DV-2646	VIR 4629	USSR	China	1980	0
437.600	DV-2771	VIR 4619	USSR	China	1980	0
437.611B	(DV-2783)	(VIR 4631)	USSR	China	1980	0
437.615A	DV-2788	VIR 4636	USSR	China	1980	0
437.615B	(DV-2788)	(VIR 4636)	USSR	China	1980	0
437.620	DV-2795	VIR 4643	USSR	China	1980	0
437.630A	DV-2810	VIR 4658	USSR	China	1980	0
437.633A	DV-2814	VIR 4662	USSR	China	1980	0
437.633B	(DV-2814)	(VIR 4662)	USSR	China	1980	0
437.646A	DV-2828	VIR 4676	USSR	China	1980	0
437.650A	DV-2832	VIR 4680	USSR	China	1980	0
437.659	Guan shi tszen'	VIR 5391	USSR	China	1980	0
437.660	Gun 246	VIR 5411	USSR	China	1980	0
437.665	Gu tszja tszy	VIR 5472	USSR	China	1980	0
437.676A	Man tsan tszin' X Phin di huan	VIR 5374	USSR	China	1980	0
437.676B	(Man tsan tszin' X Phin di huan)	(VIR 5374)	USSR	China	1980	0
437.680B	(Nen tszjan da dou)	(VIR 5392)	USSR	China	1980	0
437.681	Nicorgi	VIR 4391	USSR	China	1980	0
437.694	Rannjaja	VIR 5390	USSR	China	1980	0
437.701	Si bi va	VIR 5209	USSR	China	1980	0
437.712	Sjao tszin' huan	VIR 5383	USSR	China	1980	0
437.720	Syj li zja	VIR 5067	USSR	China	1980	0
437.721A	Sy jue tsin mao do	VIR 5443	USSR	China	1980	0
437.731	Tsyhua N2	VIR 5491	USSR	China	1980	0
437.735	Tszin' juan' 2	VIR 5220	USSR	China	1980	0
437.740A	Tszy nua N1	VIR 5402	USSR	China	1980	0

Table 2.1

Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.551	0	P	G	E	N	Br	I	Y	Y			
437.552	0	P	G	E	N	Br	I	Y	G			
437.553	0	P	G	E	Ssp	Br	S	Y	Y			
437.557	0	P	G	E	N	Br	S	Y	Y	SDef		
437.560	0	P	G	E	N	Br	I	Y	Y			
437.561	0	Dp	G	E	N	Br	I	Y	Y			
437.564	0	P	G	E	N	Br	I	Y	Y			
437.565	0	W	G	E	N	Br	I	Y	Y			Det
437.566	0	P	G	E	N	Br	I	Y	Y			
437.570	0	Pth	T	A	Ssp	Dbr	B	Bl	Bl	Fleck		Sw
437.579	0	P	G	E	N	Br	S	Y	Y			
437.582	0	P	G	E	N	Br	I	Y	Y			
437.583	0	P	G	E	N	Br	I	Y	Y			
437.587	0	P	G	E	N	Br	I	Y	Y			
437.590	0	P	G	E	N	Br	I	Y	Y			
437.593A	0	Dp	G	E	N	Br	I	Y	Y			
437.597A	0	W	G	E	N	Br	I	Y	Y			
437.597B	0	P	G	E	N	Br	I	Y	Y			
437.597C	0	W	G	E	N	Br	I	Y	Y			
437.598A	0	P	G	E	N	Br	I	Y	Y			
437.599	0	P	T	E	N	Br	D	Y	Y			
437.600	0	P	G	E	N	Br	I	Y	Y			
437.611B	0	P	G	E	N	Br	I	Y	Y			
437.615A	0	P	T	E	N	Br	I	Y	Y			
437.615B	0	P	T	E	N	Br	D	Y	Y			
437.620	0	P	G	E	N	Br	I	Y	Y			
437.630A	0	P	G	E	N	Br	I	Y	Y			
437.633A	0	P	T	E	N	Tn	I	Y	Y			
437.633B	0	P	T	E	N	Tn	I	Y	Br			
437.646A	0	P	T	E	N	Br	I	Y	Bl			
437.650A	0	P	T	E	N	Br	I	Y	Y			
437.659	0	P	G	E	N	Br	I	Y	Y			
437.660	0	W	G	E	N	Br	I	Y	Y			
437.665	0	P	G	E	N	Br	I	Y	Y			
437.676A	0	P	G	E	N	Br	D	Y	Y			
437.676B	0	P	G	E	N	Br	I	Y	Y			
437.680B	0	P	G	E	N	Br	I	Y	Y			
437.681	0	P	T	E	N	Br	I	Y	Y			
437.694	0	P	G	E	N	Br	D	Y	Y			
437.701	0	P	G	E	N	Br	I	Y	Y			
437.712	0	W	G	E	N	Br	I	Y	Y			
437.720	0	P	G	E	N	Br	I	Y	Y			
437.721A	0	P	T	A	N	Br	I	Gn	Br			
437.731	0	P	G	E	N	Br	I	Y	Y			
437.735	0	P	G	E	N	Br	I	Y	Y			
437.740A	0	P	G	E	N	Tn	I	Y	Y			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.551	44*	116*	2.8	61	2.5	2.0	18.4*	1.96*
437.552	45	110*	2.5	75	2.3	2.0	15.7	2.26
437.553	Tested in and reported with the group I evaluation.							
437.557	44	115*	2.8	67	2.5	2.0	18.7*	2.34
437.560	43*	117*	3.3*	66	2.3	2.0	18.3	2.21*
437.561	48*	124	4.0*	72	2.5	4.0	19.6	2.19
437.564	42	118*	2.5	64	2.8	3.0	17.2	1.81
437.565	36	110*	1.5	39	2.8	2.0	20.3	1.18
437.566	46*	114*	3.0	72	2.8	3.0	19.4	1.90
437.570	49	122	4.3*	55	2.0	-	4.9	1.46
437.579	41	115*	2.5	77	2.0	2.5	16.5*	2.10*
437.582	49*	119*	4.0*	73	2.0	2.0	18.5	2.52
437.583	46	118*	3.0	71	2.3	3.0*	17.5	2.23
437.587	46*	118*	3.3	73	2.0	2.5	16.2	2.18
437.590	44	112*	2.5	66	2.5	2.5	19.4*	2.03
437.593A	40	111*	3.3	81	2.8	3.0	20.1*	2.18
437.597A	41	111*	2.8	79	2.5	2.0	17.5*	2.01
437.597B	42	116*	2.5	60	2.3	2.0	19.5*	2.42*
437.597C	42	110*	3.0	77*	2.5	2.0	18.0*	2.44
437.598A	43	116*	3.0	74*	2.8	2.0	19.6	2.27*
437.599	43*	107*	3.5	86*	2.3	3.0	15.8	2.19
437.600	45	117*	3.3	80	2.3	3.0	18.2	1.82
437.611B	42*	112*	2.8	73	2.5	1.5	16.2*	1.77*
437.615A	41	110*	3.0	78	2.5	3.0*	14.0*	1.35*
437.615B	49*	117*	4.5	91	2.3	3.5*	19.0	1.65
437.620	52*	122	4.5	104*	2.3	3.0*	18.3	2.02
437.630A	43	118*	3.5	93	2.3	3.0*	17.1	1.70
437.633A	50*	116*	4.0	109	2.5	3.0*	13.3	1.97
437.633B	48*	114*	4.0	91	2.8*	2.5	15.3*	1.96*
437.646A	50*	119*	4.5	86	2.3	2.5	19.1	2.36
437.650A	52*	120*	4.0	86	1.8	2.5*	19.8	2.40
437.659	48*	117*	3.3	82	2.3	3.5	19.0	2.35
437.660	Tested in and reported with the group I evaluation.							
437.665	46	115*	3.8*	74	2.0	2.5	17.9	2.02*
437.676A	44*	118*	4.0	84	2.0	2.5	19.6	2.33
437.676B	50*	119*	4.5	90	2.3	2.5	16.6	2.62
437.680B	43	113*	3.5	82*	2.3	2.5	16.8*	2.38
437.681	45*	113*	3.3	79	2.3	2.5	18.1	2.56
437.694	45	114*	4.5	56*	2.3	3.5	14.4	1.71*
437.701	41	115*	3.3*	81*	2.0	3.5	16.5	1.91
437.712	44	119*	3.5	79	2.8	3.5	22.6	2.11
437.720	40	116*	4.8	85	3.0	3.0*	19.6	2.19*
437.721A	54	120*	3.5	64*	2.3	3.5	16.3	1.50
437.731	41	111*	3.8*	82	2.8	3.5	19.0*	1.77*
437.735	44	120*	3.5	67*	3.0*	2.0	18.4	2.63
437.740A	51*	122*	3.3*	80*	2.8*	2.5	19.0	1.92*

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.551	0	19.0	41.6	11.6	2.4	22.3	55.2	8.3	0.0
437.552	0	18.3	43.9	12.0	2.6	23.7	53.2	8.3	0.1
437.553	0	Tested in and reported with the group 1 evaluation.							
437.557	0	18.8	42.4	12.0	2.7	23.4	53.4	8.4	0.1
437.560	0	18.3	44.5	12.0	2.5	23.0	53.2	9.2	0.0
437.561	0	17.9	44.4	11.7	2.5	23.1	53.6	8.9	0.0
437.564	0	18.5	44.1	11.3	2.5	22.2	54.4	9.2	0.0
437.565	0	19.6	44.3	11.6	2.7	22.2	54.7	8.6	0.1
437.566	0	19.9	44.1	11.6	2.7	22.2	54.7	8.6	0.0
437.570	0	15.8	45.4	11.6	2.7	23.7	54.4	7.3	0.0
437.579	0	16.5	44.7	12.4	2.5	20.9	54.8	9.2	0.0
437.582	0	17.9	45.1	11.2	2.3	24.1	54.5	7.8	0.0
437.583	0	18.3	44.5	11.4	2.2	24.2	53.9	8.0	0.0
437.587	0	17.9	45.8	12.0	2.5	22.9	53.8	8.7	0.0
437.590	0	18.4	44.4	12.1	2.5	23.5	53.0	8.9	0.0
437.593A	0	18.4	44.8	12.1	2.4	23.3	53.5	8.5	0.0
437.597A	0	20.0	42.5	11.6	2.8	23.9	54.3	7.4	0.0
437.597B	0	19.3	42.3	11.4	2.5	26.1	52.0	7.9	0.0
437.597C	0	20.2	42.5	11.5	2.9	26.2	51.4	8.0	0.0
437.598A	0	19.3	43.1	11.5	2.8	25.9	51.4	8.1	0.0
437.599	0	18.8	43.7	12.0	2.2	22.0	55.0	8.6	0.0
437.600	0	19.1	44.3	12.5	2.7	23.0	53.1	8.5	0.0
437.611B	0	17.1	45.6	11.6	2.5	23.0	54.2	8.6	0.0
437.615A	0	17.5	45.3	12.0	2.5	22.8	54.3	8.3	0.0
437.615B	0	18.1	45.3	10.9	2.4	26.2	52.7	7.6	0.1
437.620	0	17.1	45.6	10.6	2.5	27.0	51.0	8.8	0.1
437.630A	0	19.1	43.5	10.9	2.4	24.7	53.7	8.2	0.0
437.633A	0	18.6	43.4	11.4	2.6	21.9	54.7	9.1	0.1
437.633B	0	18.3	43.7	11.3	2.5	22.1	54.9	9.1	0.0
437.646A	0	19.9	42.3	9.7	2.4	25.9	53.6	8.1	0.0
437.650A	0	20.1	42.6	10.9	2.7	25.3	53.0	7.9	0.1
437.659	0	18.0	44.9	12.0	2.6	24.9	52.2	8.2	0.0
437.660	0	Tested in and reported with the group 1 evaluation.							
437.665	0	18.8	43.6	11.8	2.5	24.6	52.2	8.8	0.0
437.676A	0	20.6	40.7	11.3	2.2	26.2	52.5	7.6	0.0
437.676B	0	17.9	43.4	11.2	2.2	27.1	52.1	7.2	0.0
437.680B	0	17.9	44.1	11.7	2.8	25.3	51.0	9.0	0.0
437.681	0	18.8	44.2	12.0	2.6	23.2	52.8	9.2	0.0
437.694	0	19.3	42.5	11.1	2.5	19.8	57.2	9.2	0.0
437.701	0	18.9	42.5	12.0	2.7	21.6	55.9	7.8	0.0
437.712	0	18.5	43.2	11.6	2.6	27.2	49.9	8.5	0.1
437.720	0	19.2	42.3	11.7	2.7	21.6	55.0	8.8	0.0
437.721A	0	17.6	44.1	11.9	3.0	19.9	55.6	9.5	0.1
437.731	0	18.6	42.6	11.9	2.5	23.0	53.8	8.6	0.1
437.735	0	18.1	44.2	12.4	2.6	24.0	52.5	8.3	0.1
437.740A	0	18.0	44.7	11.8	2.4	24.5	52.1	9.0	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.740B	(Tszy nua N1)	(VIR 5402)	USSR	China	1980	0
437.742	Tszy nua N4	VIR 5404	USSR	China	1980	0
437.746	Tutszja	VIR 5634	USSR	China	1980	0
437.750	Zhao he ba juj man	VIR 5556	USSR	China	1980	0
437.753A		VIR 458	USSR	China	1980	0
437.754		VIR 1160	USSR	China	1980	0
437.756A		VIR 1179	USSR	China	1980	0
437.758		VIR 1187	USSR	China	1980	0
437.759		VIR 1190	USSR	China	1980	0
437.761		VIR 1204	USSR	China	1980	0
437.764		VIR 1238	USSR	China	1980	0
437.766		VIR 1241	USSR	China	1980	0
437.767		VIR 1244	USSR	China	1980	0
437.768		VIR 1266	USSR	China	1980	0
437.769		VIR 1270	USSR	China	1980	0
437.772A		VIR 1286	USSR	China	1980	0
437.772B		(VIR 1286)	USSR	China	1980	0
437.773		VIR 1289	USSR	China	1980	0
437.774A		VIR 1293	USSR	China	1980	0
437.775		VIR 1294	USSR	China	1980	0
437.784		VIR 1341	USSR	China	1980	0
437.812		VIR 5710	USSR	China	1980	0
437.816	Cajala	VIR 5110	USSR	China	1980	0
437.826	Charbinscaja	VIR 5091	USSR	China	1980	0
437.830	Crusulja 9/3	VIR 3963	USSR	China	1980	0
437.831	Cubanscaja 121	VIR 3967	USSR	China	1980	0
437.832	Cubanscaja 358	VIR 3976	USSR	China	1980	0
437.852	DV-2408	VIR 5022	USSR	China	1980	0
437.857A	DV-2784	VIR 4632	USSR	China	1980	0
437.872	Elita 676	VIR 4302	USSR	China	1980	0
437.906	Hei tou	VIR 413	USSR	China	1980	0
437.910A	Huang tou	VIR 719	USSR	China	1980	0
437.910B	(Huang tou)	(VIR 719)	USSR	China	1980	0
437.915A	Man'gou	VIR 5036	USSR	China	1980	0
437.915B	(Man'gou)	(VIR 5036)	USSR	China	1980	0
437.917	Mjao jan dou	VIR 967	USSR	China	1980	0
437.923	Siao li er phang tou tsa	VIR 392	USSR	China	1980	0
437.924	Siao uen luang tou	VIR 395	USSR	China	1980	0
437.927		VIR 281	USSR	China	1980	0
437.933A		VIR 341	USSR	China	1980	0
437.933B		(VIR 341)	USSR	China	1980	0
437.936		VIR 484	USSR	China	1980	0
437.939		VIR 505	USSR	China	1980	0
437.941		VIR 518	USSR	China	1980	0
437.947		VIR 766	USSR	China	1980	0
437.955A		VIR 1389	USSR	China	1980	0

Table 2.1

Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.740B	0	P	G	E	N	Br	I	Y	Y			
437.742	0	P	G	E	N	Br	I	Y	Y			
437.746	0	W	G	E	N	Br	I	Y	Y			
437.750	0	P	G	Sa	N	Br	I	Y	Y			
437.753A	0	P	G	E	N	Bl	I	Y	Y			
437.754	0	P	T	E	N	Br	I	Y	Y			
437.756A	0	P	L†	E	N	Bl	I	Gn	Br			
437.758	0	P	T	E	N	Bl	D	Gn	Br			
437.759	0	P	T	E	N	Br	D	Y	Y			
437.761	0	W	T	E	N	Br	I	Bl	Bl			
437.764	0	P	G	E	N	Br	S	Y	Y			
437.766	0	P	T	E	N	Br	S	Y	Y			
437.767	0	W	T	E	N	Br	I	Bl	Bl			
437.768	0	P	G	E	N	Br	S	Y	Y			
437.769	0	P	G	E	N	Br	S	Y	Y			
437.772A	0	P	G	E	N	Br	S	Y	Y			
437.772B	0	P	G	E	N	Br	S	Y	Y			
437.773	0	P	G	E	N	Br	S	Y	Y			
437.774A	0	P	G	E	N	Br	S	Y	Y			
437.775	0	P	G	E	N	Br	S	Y	Y			
437.784	0	P	G	E	N	Br	S	Y	lb			
437.812	0	P	G	E	N	Br	I	Y	Y			
437.816	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.826	0	P	G	E	N	Tn	I	Y	G			
437.830	0	P	G	E	N	Br	I	Y	Y			
437.831	0	P	G	E	N	Br	I	Y	Y			
437.832	0	P	G	E	Ssp	Br	I	Y	Y			
437.852	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.857A	0	P	G	E	N	Br	I	Y	Y			
437.872	0	P	G	E	N	Br	I	Y	Y			
437.906	0	W	T	E	Ssp	Br	I	Bl	Bl			
437.910A	0	P	T	E	N	Br	I	Y	Y			
437.910B	0	P	G	E	N	Br	S	Y	Y			
437.915A	0	P	G	E	N	Tn	I	Y	Bf			
437.915B	0	P	G	E	N	Bl	I	Y	Y			
437.917	0	P	G	E	N	Br	I	Y	Y			
437.923	0	P	G	E	N	Br	I	Y	Y			
437.924	0	P	G	E	N	Br	I	Y	Y			
437.927	0	W	T	E	N	Br	I	Br	Br			
437.933A	0	P	G	E	N	Br	S	Y	Y			
437.933B	0	P	G	E	N	Tn	S	Y	Y			
437.936	0	P	T	E	Ssp	Br	I	Y	Y			
437.939	0	W	T	E	N	Br	I	Br	Br			
437.941	0	P	T	E	N	Tn	I	Y	Br	Saddle		
437.947	0	W	T	E	N	Br	I	Br	Br			
437.955A	0	P	G	E	N	Br	I	Y	Y			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity (days after May 31)	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.740B	46*	120*	2.5*	67*	2.5	2.5	16.4*	1.69*
437.742	45	115*	2.3*	75*	3.3*	3.5	15.3*	1.45*
437.746	42	120*	4.0	69*	3.0	3.0*	21.9*	1.69*
437.750	44	111*	2.5	58*	2.5	4.0	14.4*	1.30
437.753A	51*	125	2.8	71	2.3	2.5	16.4	1.60
437.754	48	118*	3.8	98	2.0	3.5	16.7	2.55
437.756A	43	116*	3.0	72	2.3	3.5	15.5	1.91*
437.758	44*	113*	2.8	68	.	.	14.6*	2.23*
437.759	51*	118*	3.3	78*	.	.	12.5*	2.02*
437.761	46*	113*	2.8	87*	.	-	16.4*	1.80*
437.764	44*	113*	2.8	73*	.	.	14.7*	1.98*
437.766	48*	117*	2.8	78*	.	.	12.4*	1.94*
437.767	46*	115*	2.8	82*	.	-	16.8*	1.85*
437.768	43*	114*	2.3	72*	.	.	15.9*	1.60*
437.769	39*	114*	3.3	72*	.	.	15.6*	1.96*
437.772A	42*	113*	3.3	80*	.	.	15.2*	1.73*
437.772B	39*	115*	3.3	75*	.	.	19.0*	1.95*
437.773	39*	117*	3.3	70	.	.	16.8*	1.81*
437.774A	39*	115*	3.3	73*	.	.	15.9*	2.02*
437.775	44	115*	3.8	74*	.	.	15.7*	1.69*
437.784	46*	114*	4.3	70*	.	.	12.1*	2.56*
437.812	49*	122*	4.0	89*	2.0	2.5	18.5	2.22
437.816	40*	110*	3.0	82*	2.3	-	10.8*	1.48*
437.826	43*	114*	3.8	85*	2.8*	2.0	16.0	1.80*
437.830	43*	115*	3.8	67	3.0	2.0	17.1*	2.22
437.831	41	114*	3.8	70	2.8*	3.0	16.1*	1.41*
437.832	47	113*	2.8	71	2.8	2.0	13.4*	1.53*
437.852	47*	112*	3.0	99*	2.5	-	12.9*	1.58*
437.857A	48*	117*	3.8	69	2.3	2.5	17.6*	2.04
437.872	45	115*	2.8	73*	2.0	1.5	18.7	2.51
437.906	47*	115*	3.5	94	2.3	-	13.1	2.16
437.910A	45	108*	3.3	95	2.3	2.5	13.9	2.27*
437.910B	45	113*	3.8	73	2.5	2.0	17.4*	2.16
437.915A	48*	120*	4.0*	76	1.8	1.5	17.5	2.65
437.915B	45*	117*	3.5	69	2.3	2.0	19.9	2.40*
437.917	45	117*	3.8	72	2.3	3.5	19.4	2.45
437.923	42*	116*	2.8*	74	2.0	3.0*	17.3	2.06
437.924	42	115*	2.8	75	2.0	3.0*	18.2*	2.23
437.927	44*	118*	3.8	84*	2.0	-	15.8*	1.99*
437.933A	46	113*	3.5	62	2.0	3.0*	16.2	2.24
437.933B	51*	118*	3.8	74	1.8	3.0*	17.9	2.21*
437.936	48*	115*	3.8	79*	2.3	4.5	16.0	1.87
437.939	46*	118*	3.5	76	2.0	-	14.8*	2.23*
437.941	47*	121*	4.0	65	2.5	-	18.4	2.06*
437.947	44	112*	3.3	75*	2.3	-	15.3*	1.82
437.955A	48*	117*	3.5	78*	2.0	2.0*	13.2*	2.08

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.740B	0	17.8	45.1	10.7	2.3	24.2	54.1	8.5	0.0
437.742	0	17.8	45.5	10.8	2.4	25.9	53.0	7.7	0.0
437.746	0	17.2	45.3	11.6	2.6	23.7	53.2	8.8	0.0
437.750	0	18.7	43.4	11.2	2.9	25.6	52.8	7.5	0.0
437.753A	0	17.5	43.9	11.9	3.2	21.9	55.3	7.5	0.0
437.754	0	17.7	45.0	10.2	2.2	27.2	51.2	9.0	0.0
437.756A	0	18.5	42.9	10.4	2.2	27.1	51.4	8.9	0.0
437.758	0	20.4	43.2	12.5	2.6	25.7	52.1	7.0	0.0
437.759	0	16.8	46.7	10.6	2.2	24.1	52.2	10.7	0.1
437.761	0	17.9	43.4	12.5	2.6	21.8	54.7	8.3	0.1
437.764	0	17.9	43.4	12.5	2.6	21.8	54.7	8.3	0.1
437.766	0	18.0	45.0	11.6	2.6	24.6	52.5	8.8	0.1
437.767	0	17.1	44.8	10.8	2.6	28.6	49.2	8.8	0.0
437.768	0	17.4	43.3	12.7	2.6	22.2	53.7	8.7	0.1
437.769	0	17.4	45.2	11.9	2.3	25.5	51.3	8.9	0.0
437.772A	0	18.4	44.4	11.6	2.6	26.4	50.6	8.9	0.1
437.772B	0	18.3	43.6	11.5	2.6	26.3	50.6	8.8	0.1
437.773	0	18.3	44.1	11.6	2.6	25.3	52.0	8.5	0.1
437.774A	0	17.9	43.5	11.4	2.4	27.6	50.5	8.0	0.1
437.775	0	18.4	42.8	11.5	2.4	27.3	50.2	8.6	0.0
437.784	0	17.4	45.2	11.5	2.5	24.3	52.0	9.7	0.0
437.812	0	20.0	41.8	12.6	2.3	23.7	53.6	7.6	0.0
437.816	0	17.2	43.3	12.5	2.8	22.9	53.3	8.4	0.0
437.826	0	18.7	43.5	12.0	2.6	23.2	53.6	8.5	0.0
437.830	0	18.7	43.4	11.8	2.8	22.7	52.8	9.8	0.1
437.831	0	17.5	45.8	11.8	2.8	22.6	53.3	9.4	0.0
437.832	0	18.0	45.2	11.0	2.8	23.9	54.5	7.7	0.0
437.852	0	18.8	44.1	10.3	2.3	28.6	51.3	7.3	0.0
437.857A	0	17.6	43.6	13.1	2.7	20.7	55.4	7.9	0.0
437.872	0	19.2	42.4	11.0	2.5	29.0	49.9	7.5	0.0
437.906	0	18.9	42.4	12.2	2.6	24.4	52.4	8.2	0.0
437.910A	0	18.7	43.8	12.1	2.6	22.1	54.3	8.8	0.0
437.910B	0	18.5	44.2	12.0	2.7	21.8	54.4	9.0	0.0
437.915A	0	18.2	44.5	11.4	2.6	22.7	54.6	8.7	0.0
437.915B	0	18.7	42.7	12.0	2.6	22.6	53.6	9.1	0.0
437.917	0	19.2	42.8	11.7	2.4	26.2	50.9	8.4	0.3
437.923	0	20.2	41.0	12.5	2.4	28.6	49.2	7.2	0.0
437.924	0	17.9	45.3	12.0	2.3	26.4	50.7	8.4	0.0
437.927	0	18.6	44.3	11.8	2.4	29.4	49.0	7.2	0.0
437.933A	0	18.4	43.4	11.7	2.6	25.3	52.1	8.2	0.0
437.933B	0	17.9	45.3	11.6	2.7	24.7	52.2	8.5	0.1
437.936	0	17.8	45.5	12.4	2.7	22.5	53.4	8.8	0.1
437.939	0	18.3	44.3	12.4	2.6	20.4	54.7	9.8	0.0
437.941	0	18.3	45.0	11.7	2.5	22.8	54.2	8.6	0.0
437.947	0	17.4	45.7	12.3	2.7	20.1	55.2	9.5	0.1
437.955A	0	18.2	44.5	12.4	2.6	21.5	53.7	9.5	0.1

Table 1.1
Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437,957A		VIR 1402	USSR	China	1980	0
437,977		VIR 1528	USSR	China	1980	0
437,982		VIR 1581	USSR	China	1980	0
437,989		VIR 1648	USSR	China	1980	0
437,991A		VIR 1657	USSR	China	1980	0
437,991B		(VIR 1657)	USSR	China	1980	0
437,995A		VIR 1673	USSR	China	1980	0
437,996A		VIR 1674	USSR	China	1980	0
437,996B		(VIR 1674)	USSR	China	1980	0
437,998		VIR 1688	USSR	China	1980	0
437,999		VIR 1711	USSR	China	1980	0
438,013		VIR 1843	USSR	China	1980	0
438,014		VIR 1844	USSR	China	1980	0
438,015		VIR 1846	USSR	China	1980	0
438,016A		VIR 1852	USSR	China	1980	0
438,016B		(VIR 1852)	USSR	China	1980	0
438,019A		VIR 1883	USSR	China	1980	0
438,020		VIR 1889	USSR	China	1980	0
438,021		VIR 1900	USSR	China	1980	0
438,022		VIR 1915	USSR	China	1980	0
438,025		VIR 1935	USSR	China	1980	0
438,027A		VIR 2028	USSR	China	1980	0
438,029		VIR 2112	USSR	China	1980	0
438,035		VIR 2174	USSR	China	1980	0
438,037		VIR 2204	USSR	China	1980	0
438,039		VIR 2265	USSR	China	1980	0
438,040		VIR 2271	USSR	China	1980	0
438,041		VIR 2274	USSR	China	1980	0
438,050A		VIR 2324	USSR	China	1980	0
438,068		VIR 2431	USSR	China	1980	0
438,094A		VIR 2543	USSR	China	1980	0
438,109A		VIR 2608	USSR	China	1980	0
438,111A		VIR 2620	USSR	China	1980	0
438,117		VIR 2733	USSR	China	1980	0
438,138A		VIR 2874	USSR	China	1980	0
438,148		VIR 2887	USSR	China	1980	0
438,155		VIR 3774	USSR	China	1980	0
438,156		VIR 3779	USSR	China	1980	0
438,157		VIR 3785	USSR	China	1980	0
438,158A		VIR 3788	USSR	China	1980	0
438,158B		(VIR 3788)	USSR	China	1980	0
438,159		VIR 3789	USSR	China	1980	0
438,160A		VIR 3801	USSR	China	1980	0
438,160B		(VIR 3801)	USSR	China	1980	0
438,162		VIR 3823	USSR	China	1980	0
438,200		VIR 4483	USSR	China	1980	0

Table 2.1

Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.957A	0	P	T	E	N	Tn	I	Y	Br			
437.977	0	P	G	E	N	Bl	S	Y	Y			
437.982	0	P	Lt	E	N	Bl	I	Gn	Gn			
437.989	0	P	G	E	N	Tn	I	Y	Y			
437.991A	0	P	T	E	N	Br	D	Y	Y			
437.991B	0	W	Lt	E	N	Br	D	Y	Y			
437.995A	0	W	G	E	N	Tn	I	Y	Y			
437.996A	0	P	G	E	N	Br	I	Y	G			
437.996B	0	P	G	E	N	Br	I	Y	Y			
437.998	0	P	G	E	N	Br	I	Y	Y			
437.999	0	P	G	E	N	Br	I	Y	lb			
438.013	0	P	G	E	N	Br	S	Y	Y			
438.014	0	P	T	E	N	Tn	D	Y	Br			
438.015	0	P	G	E	N	Br	I	Y	G			
438.016A	0	P	T	E	N	Br	I	Y	Y			
438.016B	0	P	G	E	N	Br	I	Y	Y			
438.019A	0	P	T	E	N	Br	I	Y	Br			
438.020	0	P	G	E	N	Br	I	Y	Y	Def		
438.021	0	P	T	E	N	Db	I	Y	Y			
438.022	0	P	G	E	N	Br	I	Y	Y			
438.025	0	P	G	E	N	Br	I	Y	Y			
438.027A	0	W	T	E	N	Br	I	Y	Y			
438.029	0	P	T	E	N	Br	I	Y	Y			
438.035	0	P	G	E	N	Br	I	Y	Y			
438.037	0	P	G	E	N	Br	S	Y	Y			
438.039	0	P	T	E	Ssp	Bl	I	Y	Br			
438.040	0	P	G	E	N	Br	D	Y	Y			
438.041	0	W	G	E	N	Br	I	Y	Y			
438.050A	0	W	T	E	N	Br	I	Y	Br			
438.068	0	P	G	E	N	Br	I	Y	Y			
438.094A	0	P	Lt	E	N	Br	I	Y	Br			
438.109A	0	P	G	E	N	Br	S	Y	Bf			
438.111A	0	P	T	E	Ssp	Tn	I	Y	Br			
438.117	0	W	G	E	N	Br	I	Y	Y			
438.138A	0	P	G	E	N	Br	I	Y	Y			
438.148	0	P	G	E	N	Br	I	Y	Bf			
438.155	0	P	T	E	N	Tn	D	Y	Y			
438.156	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.157	0	P	G	E	N	Br	I	Y	Y			
438.158A	0	P	G	E	N	Br	I	Y	G			
438.158B	0	P	T	E	N	Tn	D	Y	Y			
438.159	0	W	T	E	N	Br	I	Br	Br			
438.160A	0	P	G	E	N	Br	I	Y	Y			
438.160B	0	P	T	E	N	Br	D	Y	Br	Abh		
438.162	0	P	T	E	N	Tn	I	Y	Y			
438.200	0	P	G	E	N	Br	I	Y	Bf			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity (days after May 31)	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
437.957A	52*	118*	3.8	92	2.3	3.0	13.6	1.56*
437.977	48	115*	2.8	64	2.3	3.5	15.8*	2.16
437.982	41	119*	3.3*	68*	2.3	3.0	16.5	2.19*
437.989	51	119*	3.8*	80	2.0	3.5	16.2	1.82
437.991A	45*	113*	2.5	68	1.8	2.0	15.5	2.23
437.991B	46*	109	2.8	70	2.3	2.0	13.9	2.23*
437.995A	48*	116*	3.5	79*	2.0	2.0	13.5	1.99
437.996A	40	116*	3.3*	62	2.3	2.0	16.9*	2.06*
437.996B	45*	120*	3.0	68	2.0	2.0	17.1	2.55*
437.998	45*	116*	3.0	67	2.5	2.0	18.5	2.20*
437.999	47*	126	3.5	77	2.0	2.0	18.9	2.33*
438.013	46*	115*	3.0	68	2.5	3.0	18.1	2.38*
438.014	48	119*	3.8	80	2.0	2.0	17.1	2.61
438.015	46*	115*	3.5	83	2.5	2.0	16.9*	2.19
438.016A	46*	114*	3.8	83	2.5	3.5	15.1*	2.19
438.016B	46*	117*	3.8	82*	2.0	2.0	15.7	2.40
438.019A	45*	112*	3.8	77*	2.3	3.0	15.4	2.33
438.020	41	114*	3.5	96	2.8	1.5	19.4	2.16
438.021	46*	117*	4.0*	77	2.3	4.5	16.2*	2.31
438.022	44*	115*	3.3*	67*	2.3	2.0	16.2	2.05
438.025	46*	116*	3.5	73	1.8	2.0	19.4	2.66
438.027A	47*	116*	4.3*	75	2.0	2.5	19.0	2.26
438.029	47*	115*	4.0*	89	2.3	2.5	18.4	2.31
438.035	49*	117*	3.5	73	2.0	2.5	16.2	1.96
438.037	49*	118*	2.5	70	2.3*	2.5	15.5	1.87*
438.039	49	117*	3.3	65	2.5	3.5	16.3*	1.74*
438.040	48*	119*	3.8	76*	2.8*	3.0*	18.4*	1.60*
438.041	47*	121*	3.3	67*	2.5	3.5	15.3	1.40*
438.050A	46*	117*	3.8	70*	2.3*	1.5	14.8*	1.72*
438.068	47*	120*	4.0	74	2.8*	2.5	19.0*	1.61*
438.094A	49*	117*	4.0	90	2.3*	3.5	15.2*	1.84*
438.109A	48*	113*	3.5	85*	2.3	2.0	13.3*	1.81*
438.111A	42	106*	3.5	57	2.5	1.5	14.4*	1.80*
438.117	46	117*	3.3	79*	2.3	4.5	18.4	1.98
438.138A	45*	117*	4.5	74	2.5	2.0	17.2	2.35
438.148	47*	118*	4.3*	79	1.8	1.5	16.6	2.91
438.155	48*	112*	3.8	68*	2.0	4.5	14.0	2.58
438.156	47*	114*	3.3	94	2.0	-	13.2	2.57
438.157	45*	117*	4.3*	82	2.0	1.5	17.1	2.45
438.158A	45*	116*	3.8	82*	2.3	2.5	17.5	2.13
438.158B	46*	115*	4.3*	85	2.3	1.5	15.8	2.73
438.159	45*	106*	3.3	73	2.3	-	14.0*	2.22
438.160A	42	112*	2.8	66	2.3	2.0	18.0	2.30
438.160B	47*	115*	4.3*	53	1.5	1.5	9.4	2.63
438.162	50*	117*	3.8	79	1.8	4.0*	15.0	2.43
438.200	49*	120*	3.8	78	2.3	2.0	18.4	1.77*

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.957A	0	18.6	43.6	11.6	2.7	24.5	51.9	9.1	0.0
437.977	0	18.6	42.9	11.5	2.5	24.7	51.6	9.5	0.1
437.982	0	18.5	43.4	11.1	2.3	26.0	50.8	9.6	0.0
437.989	0	18.2	43.9	11.6	2.5	23.0	53.0	9.7	0.0
437.991A	0	19.0	43.3	11.4	2.8	23.0	53.7	8.9	0.1
437.991B	0	19.5	41.9	11.7	3.1	22.0	53.5	9.6	0.0
437.995A	0	19.5	41.3	11.9	2.9	23.3	52.2	9.6	0.0
437.996A	0	18.2	43.9	11.9	2.8	24.6	51.7	8.8	0.0
437.996B	0	18.4	44.6	13.4	2.5	19.4	55.9	8.6	0.0
437.998	0	18.4	43.9	11.8	2.5	25.5	51.7	8.3	0.1
437.999	0	17.8	44.9	11.3	2.8	24.7	52.8	8.2	0.0
438.013	0	19.3	42.9	11.3	2.9	26.1	51.1	8.3	0.0
438.014	0	18.1	44.6	11.3	2.6	24.1	53.8	8.1	0.0
438.015	0	19.0	43.0	11.6	2.6	22.1	54.1	9.4	0.0
438.016A	0	20.2	42.7	11.3	2.8	22.0	55.3	8.4	0.1
438.016B	0	19.9	43.0	11.1	2.6	24.9	52.7	8.5	0.0
438.019A	0	18.9	43.7	11.6	2.8	21.3	55.5	8.7	0.0
438.020	0	19.4	43.5	11.8	2.8	23.8	53.0	8.5	0.1
438.021	0	17.9	44.0	11.4	2.8	22.6	54.5	8.5	0.0
438.022	0	18.0	43.8	11.6	2.6	23.7	53.2	8.7	0.0
438.025	0	18.4	44.6	11.6	2.4	24.9	52.3	8.6	0.0
438.027A	0	18.2	44.6	12.1	2.6	25.6	51.0	8.5	0.0
438.029	0	18.5	44.0	12.1	2.8	23.3	53.1	8.6	0.1
438.035	0	17.8	44.5	12.3	2.8	22.8	53.3	8.7	0.0
438.037	0	17.4	45.8	11.4	2.4	24.3	52.7	9.0	0.0
438.039	0	18.5	44.2	11.3	2.8	24.7	52.2	8.8	0.1
438.040	0	18.6	44.8	10.9	2.7	27.5	50.4	8.2	0.1
438.041	0	17.4	46.6	11.3	2.7	23.0	54.3	8.4	0.1
438.050A	0	17.5	46.1	11.3	2.6	24.5	53.0	8.4	0.1
438.068	0	19.0	42.6	11.3	2.6	23.9	53.4	8.6	0.0
438.094A	0	18.4	43.2	11.7	2.7	24.5	52.2	8.7	0.1
438.109A	0	18.0	42.9	12.6	3.3	22.8	52.2	8.9	0.1
438.111A	0	17.5	43.8	13.2	3.1	22.3	52.4	8.9	0.1
438.117	0	19.4	42.0	12.6	2.8	22.8	53.3	8.3	0.0
438.138A	0	18.7	43.4	12.1	2.6	26.1	50.7	8.3	0.1
438.148	0	19.9	41.5	12.9	2.5	24.3	52.5	7.7	0.0
438.155	0	18.2	42.5	13.1	2.8	24.2	51.8	8.0	0.0
438.156	0	18.2	42.7	13.4	3.0	22.9	52.2	8.3	0.0
438.157	0	18.8	42.2	12.8	2.7	21.3	54.5	8.5	0.1
438.158A	0	19.6	41.9	12.2	2.7	22.8	52.8	9.3	0.0
438.158B	0	19.6	41.9	11.9	2.7	23.3	52.0	9.9	0.0
438.159	0	18.4	43.8	12.0	2.7	20.1	55.9	9.2	0.0
438.160A	0	18.3	44.9	12.3	2.7	22.5	53.5	8.8	0.0
438.160B	0	18.0	42.6	12.2	2.4	19.0	57.8	8.5	0.0
438.162	0	19.9	40.4	12.4	2.9	19.7	55.7	9.1	0.1
438.200	0	19.2	42.8	11.9	2.7	23.3	52.6	9.3	0.1

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.204		VIR 4488	USSR	China	1980	0
438.208		VIR 4494	USSR	China	1980	0
438.217		VIR 4508	USSR	China	1980	0
438.233A		VIR 4524	USSR	China	1980	0
438.233B		(VIR 4524)	USSR	China	1980	0
438.239A		VIR 4536	USSR	China	1980	0
438.248		VIR 4703	USSR	China	1980	0
438.264		VIR 5035	USSR	China	1980	0
438.265		VIR 5038	USSR	China	1980	0
438.267		VIR 5041	USSR	China	1980	0
438.277	Ciro	VIR 3667	USSR	Japan	1980	0
438.279	Eda mame	VIR 5638	USSR	Japan	1980	0
438.313	Brun Hatif Ronest	VIR 5865	USSR	Algeria	1980	0
438.318	Greenish	VIR 5903	USSR	Algeria	1980	0
438.319A	Grignon 15	VIR 5918	USSR	Algeria	1980	0
438.319B	(Grignon 15)	(VIR 5918)	USSR	Algeria	1980	0
438.321	Grignon 18	VIR 5876	USSR	Algeria	1980	0
438.326	Poppelsdorf 238	VIR 5867	USSR	Algeria	1980	0
438.327	Rameau 72	VIR 5908	USSR	Algeria	1980	0
438.331A	Ronest 13/A12	VIR 5868	USSR	Algeria	1980	00
438.331B	(Ronest 13/A12)	(VIR 5868)	USSR	Algeria	1980	0
438.336	SAO 208	VIR 5907	USSR	Algeria	1980	0
438.337	Schecken	VIR 5898	USSR	Algeria	1980	0
438.348A	Bolgarscaja 397	VIR 5698	USSR	Bulgaria	1980	0
438.348B	(Bolgarscaja 397)	(VIR 5698)	USSR	Bulgaria	1980	0
438.349	Chernaja VU 5832	VIR 5104	USSR	Bulgaria	1980	0
438.351	Locala 11	VIR 5101	USSR	Bulgaria	1980	0
438.355	Phruvirt	VIR 5092	USSR	Bulgaria	1980	0
438.356	SS 427	VIR 5107	USSR	Bulgaria	1980	0
438.358A	VU-5819	VIR 5096	USSR	Bulgaria	1980	0
438.358B	(VU-5819)	(VIR 5096)	USSR	Bulgaria	1980	0
438.359	VU-5823	VIR 5098	USSR	Bulgaria	1980	0
438.360B	(VU-5828)	(VIR 5100)	USSR	Bulgaria	1980	0
438.364	Merit	VIR 5739	USSR	Canada	1980	0
438.371	Pulawska	VIR 5780	USSR	Czechoslovakia	1980	0
438.373	Ruska Zluta	VIR 5751	USSR	Czechoslovakia	1980	0
438.374	Terrasol	VIR 5755	USSR	Czechoslovakia	1980	0
438.375A	Kamianotz No. 1	VIR 5734	USSR	France	1980	0
438.375B	(Kamianotz No. 1)	(VIR 5734)	USSR	France	1980	0
438.377	Delitzscher	VIR 4011	USSR	Germany	1980	0
438.379	Dieckmann 18	VIR 4012	USSR	Germany	1980	0
438.380	Ger-Mjuller	VIR 5099	USSR	Germany	1980	0
438.384		VIR 5267	USSR	Germany	1980	0
438.385	Berkner Geschehte	VIR 5712	USSR	E. Germany	1980	0
438.387	Dieckmann's Fruhe Gelbe	VIR 5889	USSR	E. Germany	1980	0
438.389	Fruwirths Schwarze Pedoje	VIR 5723	USSR	E. Germany	1980	0

Table 2.1
Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.204	0	P	G	E	N	Br	I	Y	Y			
438.208	0	P	L†	E	N	Br	D	Y	Y			
438.217	0	P	L†	Sa	N	Br	I	Y	Br			
438.233A	0	P	T	E	N	Tn	S	Y	Y			
438.233B	0	P	T	E	N	Tn	I	Y	Y			
438.239A	0	P	Ng	E	N	Br	S	Gnbr	Br			
438.248	0	P	T	E	N	Br	I	Br	Br			
438.264	0	P	G	E	N	Br	I	Y	Y			
438.265	0	P	G	E	N	Br	I	Y	Y			
438.267	0	P	G	E	N	Br	I	Y	Y			
438.277	0	W	G	A	N	Br	D	Y	Bf			
438.279	0	W	T	Sa	N	Br	I	Gn	Bl			
438.313	0	P	T	E	N	Br	I	Br	Br	Abh	Dab	
438.318	0	P	T	E	Ssp	Br	I	G	G			
438.319A	0	P	T	E	N	Br	S	Br	Br			
438.319B	0	W	T	E	Ssp	Br	S	Br	Br			
438.321	0	P	T	Sa	N	Br	I	Rbr	Rbr			
438.326	0	P	T	E	N	Br	S	Bl	Bl			
438.327	0	P	G	E	N	Br	S	Y	Y			
438.331A	00	P	T	E	Ssp	Br	I	Bl	Bl			
438.331B	0	P	T	E	N	Br	S	Bl	Bl			
438.336	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
438.337	0	P	T	E	N	Br	D	Y	Br			
438.348A	0	P	T	E	N	Br	S	Y	G			
438.348B	0	W	T	E	N	Br	S	Y	G		Na	
438.349	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.351	0	P	G	E	N	Br	I	Y	Y			
438.355	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.356	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.358A	0	W	T	E	Ssp	Br	D	Bl	Bl			
438.358B	0	P	T	E	Ssp	Br	I	Br	Br			
438.359	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.360B	0	P	T	E	N	Tn	I	Y	Br	Abh		
438.364	0	P	T	E	N	Tn	I	Y	Blbr			
438.371	0	P	T	E	N	Br	S	Y	G			
438.373	0	P	T	E	N	Tn	S	Y	Y			
438.374	0	P	G	E	N	Tn	S	Y	G			
438.375A	0	P	T	E	N	Br	I	Y	G			
438.375B	0	P	T	E	N	Tn	S	Y	Bl			
438.377	0	W	T	E	Ssp	Br	I	Bl	Bl			
438.379	0	P	T	E	N	Br	S	Y	G			
438.380	0	P	T	E	N	Br	D	Y	Br	Abh		
438.384	0	P	T	E	N	Tn	I	Y	Y	Abh		
438.385	0	W	T	E	N	Br	I	G	Bl			
438.387	0	P	G	E	N	Br	I	Y	Y			
438.389	0	W	T	E	N	Bl	I	Bl	Bl			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity (days after May 31)	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
438.204	49*	118*	4.0	72*	2.3	2.5*	17.2	2.11
438.208	52*	115*	3.3	64	2.0	4.5	14.7	2.69*
438.217	50*	118*	4.3*	83	1.8	2.0	14.3	2.58
438.233A	50	114*	3.5	91	2.0	2.0*	9.3	2.39
438.233B	51*	116*	4.0	79	2.0	2.0	10.8	2.42
438.239A	50*	119*	4.3*	133*	2.0	-	13.3	2.62
438.248	47*	117*	3.8	82	2.0	-	16.0	2.14
438.264	49*	121*	4.3*	71	2.3	2.0	21.2	2.51
438.265	49*	122*	4.0*	74	2.3	3.0*	20.9	2.53
438.267	44	106*	4.5	76	2.0	1.5	14.6	2.63
438.277	58	119*	4.3	67*	2.0	1.0	11.4	1.78
438.279	58	116*	3.5	55	2.0	1.5	25.1	1.66
438.313	49*	115*	4.3*	66	2.0	-	10.8	1.95
438.318	47*	117*	3.8	90*	1.8	4.0*	12.3	2.47
438.319A	44	111*	3.5	93	2.0	-	14.5	2.09
438.319B	45*	114*	3.0	86*	2.3	-	13.6	2.14*
438.321	Tested in and reported with the groups 000 and 00 evaluation.							
438.326	39	105*	3.0	100*	2.5	-	14.6*	1.99*
438.327	45*	115*	3.3	77	2.8*	2.5	17.2*	1.96*
438.331A	35	94*	2.3	49*	2.5	-	18.8*	1.38
438.331B	39	108*	3.3	89*	2.5	-	12.8*	1.95*
438.336	51*	116*	3.3	62*	2.5	2.5	12.9	2.14*
438.337	45*	111*	4.3*	108*	2.5	2.5	16.0*	1.71*
438.348A	46*	116*	3.8	102*	2.5	1.5	14.6	1.91*
438.348B	46*	118*	3.5	107	2.0	1.5	17.2	1.91
438.349	45	116*	2.8	87	2.3	-	14.4	1.86
438.351	45*	114*	3.3*	68	2.3	2.5	18.1	2.08
438.355	45	113*	3.3	103	2.0	-	13.1	2.14*
438.356	44	112*	3.3*	98	2.0	-	13.3	2.01
438.358A	43	107*	3.5	100	2.5	-	13.3	2.04
438.358B	42	109*	4.3*	101*	2.5	-	13.6*	1.85
438.359	40	104	3.0	90	2.3	-	12.4	1.97
438.360B	48	115*	3.3*	78	1.8	1.0	15.0	2.07
438.364	42	109	3.5*	96	2.5	1.5	13.2	1.96*
438.371	46	110	3.5	82*	2.0	2.0	12.5	2.44*
438.373	39	107	2.5*	75	2.0	1.5	13.4	2.29*
438.374	40	112*	2.8	81	2.0	1.0	15.1	2.32
438.375A	Tested in and reported with the groups 000 and 00 evaluation.							
438.375B	44*	109	3.5	78	2.3	1.5	13.5	2.29
438.377	44	106*	2.8	92	2.0	-	10.2	2.04
438.379	42	109	3.0	87	2.0	2.0	14.3	2.41*
438.380	44	107	4.0*	51	2.3	1.0	8.7	1.73
438.384	49	109	3.5	82	1.8	2.5	11.0	2.47
438.385	39	103	2.8*	90	2.3	3.5	14.1	1.87*
438.387	47*	117*	3.8*	70	2.8	2.0	16.6	1.94*
438.389	40	116*	2.5	78	2.3	-	17.1	1.78

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.204	0	18.1	43.8	10.7	2.5	24.6	52.9	9.1	0.1
438.208	0	18.1	44.1	11.7	2.6	25.8	50.8	8.9	0.0
438.217	0	17.4	44.2	11.7	2.5	22.0	53.8	9.8	0.0
438.233A	0	17.7	44.1	12.2	2.5	18.3	56.6	10.2	0.0
438.233B	0	17.6	43.1	12.8	2.8	17.6	56.9	9.6	0.1
438.239A	0	18.3	43.5	12.7	3.0	17.4	56.3	10.4	0.0
438.248	0	18.9	42.8	12.1	2.5	26.0	50.7	8.5	0.0
438.264	0	18.6	43.8	11.6	2.6	25.7	52.0	8.0	0.0
438.265	0	18.6	44.1	11.8	2.6	20.6	53.7	11.1	0.0
438.267	0	19.0	41.6	11.4	2.8	23.2	53.8	8.6	0.0
438.277	0	18.3	44.3	12.5	2.8	28.0	50.0	6.5	0.0
438.279	0	18.1	42.9	12.0	2.4	26.7	48.6	10.1	0.0
438.313	0	18.6	40.7	13.7	2.9	17.2	57.4	8.7	0.0
438.318	0	19.3	41.8	12.6	2.7	20.7	54.9	9.0	0.0
438.319A	0	18.8	42.4	12.0	2.5	22.6	53.2	9.5	0.0
438.319B	0	18.4	43.1	11.8	2.8	26.4	51.7	7.2	0.0
438.321	0	Tested in and reported with the groups 000 and 00 evaluation.							
438.326	0	19.4	40.6	12.0	2.9	18.4	57.8	8.8	0.0
438.327	0	19.4	40.5	11.9	3.4	18.7	57.6	8.3	0.0
438.331A	00	19.6	42.3	11.9	2.5	27.8	49.4	8.3	0.0
438.331B	0	19.3	43.2	11.7	2.8	23.9	53.6	7.8	0.1
438.336	0	19.5	39.2	12.1	3.0	21.2	55.7	7.7	0.0
438.337	0	19.0	41.8	12.1	2.7	24.5	52.2	8.4	0.0
438.348A	0	19.2	43.5	11.3	2.7	22.4	55.2	8.2	0.1
438.348B	0	19.4	41.9	11.0	2.7	19.9	57.6	8.6	0.0
438.349	0	18.9	41.6	11.7	2.8	20.5	53.8	10.9	0.1
438.351	0	18.5	44.1	12.6	2.8	23.7	52.6	8.0	0.1
438.355	0	18.5	42.2	14.1	2.9	19.5	55.1	8.3	0.0
438.356	0	18.7	42.3	13.8	3.0	21.3	54.5	7.3	0.0
438.358A	0	18.4	42.8	13.5	3.0	19.9	55.1	8.3	0.0
438.358B	0	18.5	42.4	12.7	3.1	19.2	55.5	9.4	0.1
438.359	0	20.6	41.0	12.3	3.3	20.5	54.9	8.8	0.1
438.360B	0	20.2	41.1	12.9	2.9	23.5	52.9	7.6	0.0
438.364	0	19.7	41.3	12.0	3.0	23.1	53.7	8.0	0.0
438.371	0	21.7	39.5	12.0	2.4	20.0	56.8	8.6	0.0
438.373	0	19.9	41.9	13.3	3.3	19.4	53.7	10.1	0.0
438.374	0	19.4	41.8	13.6	3.5	20.6	52.4	9.6	0.1
438.375A	0	Tested in and reported with the groups 000 and 00 evaluation.							
438.375B	0	19.8	42.3	12.3	2.7	20.7	55.1	9.1	0.0
438.377	0	18.8	42.5	13.0	3.1	18.6	56.5	8.7	0.0
438.379	0	19.4	41.8	13.7	3.0	18.3	55.6	9.1	0.1
438.380	0	17.7	40.6	14.3	3.2	18.6	55.2	8.6	0.0
438.384	0	20.0	39.2	13.5	2.9	22.3	51.7	9.4	0.0
438.385	0	20.1	42.6	11.4	3.5	20.8	56.0	8.3	0.0
438.387	0	17.1	45.4	12.2	2.4	23.1	52.8	9.1	0.1
438.389	0	18.0	45.5	10.8	2.7	26.9	52.0	7.6	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438,390	Grange Neuve	VIR 5682	USSR	E. Germany	1980	0
438,392	Schwarze Poppelsdorfer	VIR 5754	USSR	W. Germany	1980	0
438,394	Altonagaarden	VIR 5811	USSR	Hungary	1980	0
438,395	Balvanska	VIR 5797	USSR	Hungary	1980	0
438,396	Brillmayer	VIR 5816	USSR	Hungary	1980	0
438,397	Budapestscaja 7	VIR 5094	USSR	Hungary	1980	0
438,399	Corona	VIR 4897	USSR	Hungary	1980	0
438,400	Dippes Fruhgelbe	VIR 5799	USSR	Hungary	1980	0
438,402	GS-3	VIR 5670	USSR	Hungary	1980	0
438,404	Grignon 14	VIR 5725	USSR	Hungary	1980	0
438,405	Grignon 17	VIR 5726	USSR	Hungary	1980	0
438,406	Grignon 45	VIR 5789	USSR	Hungary	1980	0
438,411	Orhrolwuca	VIR 5800	USSR	Hungary	1980	0
438,416	Ronest 29	VIR 5798	USSR	Hungary	1980	0
438,417	Ronest 250	VIR 5794	USSR	Hungary	1980	0
438,420	Szurcebarat	VIR 4899	USSR	Hungary	1980	0
438,421	Tokio Jaune	VIR 5685	USSR	Hungary	1980	0
438,441	Cajaga	VIR 5085	USSR	Netherlands	1980	0
438,446B	(Czarna SWHN)	(VIR 5773)	USSR	Poland	1980	0
438,447	Dickmana	VIR 5574	USSR	Poland	1980	0
438,449	Kiszelnicka	VIR 5578	USSR	Poland	1980	0
438,456	Zolta Z Zalna	VIR 5759	USSR	Poland	1980	0
438,457	Tokio Noir	VIR 5756	USSR	Portugal	1980	0
438,468	Rejner 12	VIR 5106	USSR	Romania	1980	0
438,469		VIR 5494	USSR	Romania	1980	0
438,470		VIR 5777	USSR	Romania	1980	0
438,482	Fiskeby 882-27	VIR 5828	USSR	Sweden	1980	0
438,510	Damaca	VIR 5543	USSR	Yugoslavia	1980	0
442,026	Kz-237		Poland	Hungary	1980	0
442,033	Amurskaja Ciernaja		Poland	USSR	1980	0
442,038B	(Riekord Siewiera)		Poland	USSR	1980	0
445,787	Berkners Gescheckte	347/77	E. Germany	E. Germany	1980	0
445,789	Bitterhof b	145	E. Germany	E. Germany	1980	0
445,790	Brillmeyer	151/74	E. Germany	E. Germany	1980	0
445,792	Dieckmanns Hellgelbe	121	E. Germany	E. Germany	1980	0
445,793	Dippes Fruhgelbe	38	E. Germany	E. Germany	1980	0
445,795	Dornburger Stamm 150	74/77	E. Germany	E. Germany	1980	0
445,816A	Kleverhof 527	224	E. Germany	E. Germany	1980	0
445,816B	(Kleverhof 527)	(224)	E. Germany	E. Germany	1980	0
445,820A	Riede 525	214	E. Germany	E. Germany	1980	0
445,820B	(Riede 525)	(214)	E. Germany	E. Germany	1980	0
445,821	Schwarze Poppelsdorfer	344	E. Germany	E. Germany	1980	0
445,822	Strengs Weihestephaner	346/77	E. Germany	E. Germany	1980	0
445,823	Tubinger	397/77	E. Germany	E. Germany	1980	0
445,827A	Boaba Neagra		Romania	Romania	1980	0
445,827B	(Boaba Neagra)		Romania	Romania	1980	0

Table 2.1
Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438,390	0	W	T	E	Ssp	Dbr	I	Bl	Bl			
438,392	0	W	T	E	Ssp	Br	I	Bl	Bl			
438,394	0	W	T	E	N	Br	S	Bl	Bl			
438,395	0	P	T	E	N	Br	I	Y	Br	Abh		
438,396	0	P	T	E	N	Tn	I	Y	Y			
438,397	0	P	T	E	N	Br	I	Y	Br	Abh		
438,399	0	P	T	E	N	Br	S	Y	G			
438,400	0	P	T	E	N	Br	I	Y	Br			
438,402	0	W	T	E	N	Br	I	Y	Bl			
438,404	0	P	T	E	N	Tn	I	Y	Y			
438,405	0	W	T	E	Ssp	Br	I	Bl	Bl			
438,406	0	P	T	E	N	Br	I	Y	Bl	Abh		
438,411	0	P	T	E	N	Br	I	Y	Br	Abh		
438,416	0	P	T	E	N	Br	S	Y	Br			
438,417	0	P	G	E	N	Br	D	Y	Y	Abh		
438,420	0	P	T	E	N	Tn	I	Y	Br	Abh	Dab	
438,421	0	P	T	E	N	Br	I	Y	Br			
438,441	0	W	T	E	Ssp	Br	I	Bl	Bl			
438,446B	0	W	T	E	N	Br	S	Bl	Bl			
438,447	0	P	T	E	N	Tn	I	Y	Bl			
438,449	0	W	T	E	N	Br	S	Bl	Bl			
438,456	0	P	T	E	Ssp	Tn	I	Y	Br			
438,457	0	P	T	E	N	Br	I	Bl	Bl		Dab	
438,468	0	P	G	E	N	Br	I	Y	Y			
438,469	0	P	T	E	N	Br	I	Y	Br	Abh	Dab	
438,470	0	P	T	E	N	Br	D	Y	Y			
438,482	0	P	T	E	N	Br	I	Y	Y			
438,510	0	P	T	E	N	Tn	I	Y	Br	Abh		
442,026	0	W	T	E	N	Tn	S	Y	Br			
442,033	0	P	T	E	N	Br	I	Bl	Bl	Fleck	Dab	
442,038B	0	P	T	E	N	Br	I	Y	Br	Abh		
445,787	0	W	T	E	N	Br	S	G	Bl			
445,789	0	P	G	E	N	Br	I	Y	Y			
445,790	0	Dp	T	E	N	Br	I	Y	Y			
445,792	0	P	G	E	N	Tn	D	Y	G			
445,793	0	P	T	E	N	Br	I	Y	Br			
445,795	0	P	T	E	N	Tn	I	Y	Y			
445,816A	0	W	T	E	N	Br	I	Y	Bl			
445,816B	0	W	T	E	N	Br	I	Y	Bl			
445,820A	0	P	T	E	N	Tn	I	Y	Bl			
445,820B	0	P	T	E	N	Br	I	Y	Bl			
445,821	0	W	T	E	Ssp	Br	D	Bl	Bl			
445,822	0	P	T	E	N	Br	I	Bl	Bl			
445,823	0	P	T	E	N	Tn	I	Y	Y			
445,827A	0	W	T	A	N	Tn	I	Bl	Bl			
445,827B	0	W	T	A	N	Br	I	Bl	Bl			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)	(days after May 31)						
438.390	41	107	3.0	83	2.5	-	13.1	1.91*
438.392	39	102	2.3*	81	2.3	-	11.5	1.70*
438.394	38	106	2.8*	84*	2.3	-	14.8*	1.77*
438.395	46*	119*	3.3*	74	2.5	1.5	17.1	2.49*
438.396	46*	117*	3.8*	69*	2.5	3.0	18.8	2.14
438.397	42	107	3.5	54*	2.5	1.0	7.7	1.63
438.399	46	117*	3.0	100	2.0	1.5	16.2	2.00
438.400	42	107	2.5	76	2.3	1.5	14.5	1.71*
438.402	45*	115*	3.3*	85	2.5	2.0	13.8	2.33
438.404	42	114*	2.5	71	2.3	2.0	14.9	2.10*
438.405	42*	112*	2.5	90	2.0	-	11.9	1.91
438.406	38	111	3.8	80	2.0	2.0	14.6	1.93
438.411	45	113*	3.0	51*	2.3	1.0	9.5	1.99
438.416	47*	112*	3.5	77*	2.0	1.5	11.8	2.09
438.417	43	112*	2.5	79*	2.0	1.0	16.0	2.37*
438.420	47	110*	4.3*	71*	2.5	1.5	8.0	1.57
438.421	Tested in and reported with the groups 000 and 00 evaluation.							
438.441	45	110	3.0	87	2.3	-	12.6	1.77
438.446B	41	107*	3.3	89	2.5	-	15.0	1.98
438.447	41	107	2.5*	82	2.0	2.0	13.6	2.01*
438.449	40	104	2.3*	81	2.3	-	13.8	1.85*
438.456	35	97	2.0	48	2.0	1.5	13.1	1.81
438.457	36	105*	2.5	77	2.3	-	10.8	1.37
438.468	46	119*	3.3*	69*	2.5	2.0	18.3	1.48*
438.469	46*	110	4.5	72*	2.0	2.0	8.4	2.00
438.470	48*	120	3.8*	84*	2.3	3.0	12.9	2.42
438.482	40	114*	4.0*	80*	2.5	2.5	19.3*	2.16
438.510	50	116*	3.8	74	2.3	2.5	12.1	2.36
442.026	40	105*	3.0	92	2.5	1.0	11.9	1.91
442.033	40	120	4.3*	90	2.5	-	15.6	1.30*
442.038B	40	105*	3.3*	74	2.0	1.5	14.8*	1.78*
445.787	39	104*	3.0	81*	2.3	4.0	12.1*	1.45*
445.789	43	106*	3.0	70*	2.3	3.5	17.8*	1.93*
445.790	42	112*	3.5	79	2.5	2.5	18.4*	1.82*
445.792	42*	113*	3.3	80*	2.3	1.5	15.7	1.99*
445.793	42	111*	3.5	75	2.5	1.0	15.5*	1.85*
445.795	41	112*	2.8*	81	2.8*	2.5	14.8*	1.92*
445.816A	45	114*	3.8	76	2.3	3.0*	11.7	2.36*
445.816B	42	114*	3.3	95	2.3	3.0*	15.2	2.16*
445.820A	40	113*	3.0	79	2.5	1.5	15.6*	2.19*
445.820B	41	114*	3.8	93*	2.5	1.5	16.1	2.08*
445.821	39	106*	3.3	84	2.3	-	12.4*	1.78*
445.822	39	124	4.3*	94*	2.3	-	15.1	2.70
445.823	38	114*	3.3	88	2.0	2.0	15.8	2.60
445.827A	53	110	3.8	72	2.3	-	15.2	1.69
445.827B	53	115*	3.5	69	2.5	-	18.2	1.62

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.390	0	20.6	41.0	11.9	3.5	22.9	53.8	7.7	0.1
438.392	0	20.7	41.0	12.1	3.5	22.2	54.2	7.8	0.0
438.394	0	20.3	41.0	11.5	3.7	22.2	55.6	6.8	0.0
438.395	0	17.5	45.1	12.7	2.5	22.5	54.6	7.5	0.1
438.396	0	18.3	45.3	11.8	2.6	22.4	55.3	7.7	0.0
438.397	0	17.3	41.9	14.1	3.5	18.4	55.1	8.7	0.1
438.399	0	19.5	42.2	10.8	2.5	21.8	56.0	8.7	0.0
438.400	0	17.6	45.0	12.9	3.4	21.6	53.3	8.7	0.0
438.402	0	20.5	40.3	11.6	2.7	19.8	56.6	9.1	0.0
438.404	0	17.6	44.4	12.8	3.4	21.7	51.4	10.5	0.1
438.405	0	18.9	41.9	13.7	2.9	20.6	54.8	7.8	0.0
438.406	0	18.5	43.3	13.4	2.5	20.2	55.3	8.4	0.0
438.411	0	17.7	41.1	13.1	3.5	18.8	55.4	9.1	0.0
438.416	0	17.7	42.4	13.2	2.9	21.2	52.8	9.9	0.1
438.417	0	20.4	40.7	13.3	2.9	20.9	53.9	8.9	0.1
438.420	0	17.1	42.9	13.2	3.2	18.0	56.1	9.4	0.0
438.421	0	Tested in and reported with the groups 000 and 00 evaluation.							
438.441	0	18.2	42.8	13.5	2.8	19.7	56.1	7.8	0.0
438.446B	0	20.4	40.1	11.3	3.4	21.3	56.6	7.2	0.0
438.447	0	19.3	42.5	12.0	3.1	20.8	56.1	7.9	0.1
438.449	0	20.1	40.4	11.6	3.8	21.1	56.0	7.4	0.0
438.456	0	18.3	42.2	13.5	3.2	22.7	52.8	7.4	0.1
438.457	0	18.0	43.5	13.0	3.7	20.6	54.1	8.3	0.0
438.468	0	18.2	44.6	12.2	2.6	23.0	53.0	9.1	0.0
438.469	0	17.9	41.5	14.3	1.8	20.8	58.4	4.6	0.0
438.470	0	20.4	41.3	11.2	2.9	22.3	55.2	8.3	0.0
438.482	0	19.3	42.7	10.9	2.9	25.7	52.8	7.5	0.0
438.510	0	18.6	40.7	13.1	3.0	19.8	54.9	8.9	0.1
442.026	0	19.8	40.8	13.4	3.5	19.1	55.6	8.2	0.1
442.033	0	17.0	46.6	11.7	2.9	23.3	54.1	7.9	0.0
442.038B	0	18.1	42.8	12.9	3.5	20.0	54.2	9.2	0.0
445.787	0	18.8	41.7	11.9	3.9	19.4	56.1	8.5	0.0
445.789	0	17.7	43.4	12.2	3.1	22.8	54.8	6.8	0.0
445.790	0	18.6	45.3	10.6	3.1	24.6	53.8	7.8	0.0
445.792	0	19.2	41.7	12.0	3.2	21.2	53.6	9.9	0.0
445.793	0	17.6	44.1	12.8	3.3	23.1	52.1	8.4	0.0
445.795	0	18.0	43.5	12.9	3.8	22.5	50.6	10.0	0.0
445.816A	0	18.6	43.0	11.6	3.0	19.9	56.1	9.1	0.1
445.816B	0	18.4	44.1	11.4	3.1	22.9	54.1	8.4	0.0
445.820A	0	19.5	43.0	11.1	3.3	23.4	53.9	8.0	0.2
445.820B	0	19.3	42.1	10.9	3.3	23.4	54.1	8.2	0.1
445.821	0	19.2	42.1	12.3	3.6	20.9	54.8	8.3	0.0
445.822	0	18.3	45.0	11.3	2.9	22.1	55.8	7.8	0.0
445.823	0	19.0	43.8	12.3	3.2	22.0	53.3	8.9	0.1
445.827A	0	18.1	41.7	11.3	3.1	22.3	51.9	11.3	0.0
445.827B	0	17.3	45.0	12.1	2.6	22.4	52.1	10.7	0.0

Table 1.1

Identification and origin information for USDA soybean germplasm
in maturity group 0, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
445.829A	Dunayka		Romania	Romania	1980	0
445.829B	(Dunayka)		Romania	Romania	1980	0
445.831	Glesso		Romania	Romania	1980	0
445.833	Iantarnaia		Romania	Romania	1980	0

Table 2.1

Descriptive data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
445.829A	0	W	T	E	N	Tn	I	Y	Br			
445.829B	0	W	T	E	N	Tn	I	Y	Br			
445.831	0	W	T	E	N	Br	I	Y	Br	Abh		
445.833	0	P	T	E	N	Br	I	Y	Y			

Table 3.1

Agronomic data for USDA soybean germplasm in maturity
group 0, PI 427.136 to PI 445.845, grown at
St. Paul, MN

Entry	Flowering (days after May 31)	Maturity	Lodging (score)	Height (cm)	Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
445.829A	42	107	3.5	99	2.0	1.0	11.5	2.78
445.829B	45	110	4.3*	94	2.3	1.0	11.6	2.90
445.831	44	107*	3.0	88*	2.0	1.0	14.9	2.76
445.833	38	111*	2.8	68	2.3	4.5	15.1*	1.20*

Table 4.1

Seed composition data for USDA soybean germplasm in maturity group 0, PI 427.136 to PI 445.845, grown at St. Paul, MN

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
445.829A	0	19.6	41.4	13.0	3.1	17.9	57.3	8.6	0.0
445.829B	0	19.8	42.3	13.2	2.9	17.6	57.5	8.7	0.0
445.831	0	19.8	37.9	13.4	3.3	20.1	54.6	8.5	0.0
445.833	0	20.0	41.1	12.5	3.1	29.0	49.4	5.7	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
	Coles		USA	USA	1976	I
	Hardin		USA	USA	1980	I
	Harlon		Canada	Canada	1974	I
	Hodgson 78		USA	USA	1978	I
	Lakota		USA	USA	1981	I
	Vinton 81		USA	USA	1981	I
	Weber		USA	USA	1979	I
427,141	Seuhae No. 20		Canada	S. Korea	1978	I
427,143	Sipyuk No. 144		Canada	S. Korea	1978	I
430,460A	Heh lung No. 26		China	China	1978	I
430,460B	Heh lung No. 26		China	China	1978	I
436,611	An 70-4167		China	China	1979	I
436,617	Heh nung No. 26		China	China	1979	I
436,681	Jilin No. 13		China	China	1979	I
436,682	Jilin No. 15		China	China	1979	I
436,683	Jilin No. 15		China	China	1979	I
437,071	A-0937	VIR 4977	USSR	USSR	1980	I
437,074	Amurscaja 45	VIR 4385	USSR	USSR	1980	I
437,075	Amurscaja 57	VIR 4122	USSR	USSR	1980	I
437,077	Amurscaja 154	VIR 4115	USSR	USSR	1980	I
437,081A	Amurscaja 293	VIR 5513	USSR	USSR	1980	I
437,081B	(Amurscaja 293)	(VIR 5568)	USSR	USSR	1980	I
437,083	Amurscaja Zeltaja	VIR 3743	USSR	USSR	1980	I
437,086	DV-68	VIR 4568	USSR	USSR	1980	I
437,088A	DV-147	VIR 4578	USSR	USSR	1980	I
437,088B	(DV-147)	(VIR 4578)	USSR	USSR	1980	I
437,091	DV-225	VIR 4573	USSR	USSR	1980	I
437,092	DV-398	VIR 4579	USSR	USSR	1980	I
437,094	DV-529	VIR 4567	USSR	USSR	1980	I
437,095	DV-529	VIR 4571	USSR	USSR	1980	I
437,097	DV-1781	VIR 4577	USSR	USSR	1980	I
437,098	DV-2407/2-1	VIR 4569	USSR	USSR	1980	I
437,101	DV-0197	VIR 5008	USSR	USSR	1980	I
437,102	DV-0220	VIR 5014	USSR	USSR	1980	I
437,105A	Gunczulinskaja	VIR 1014	USSR	USSR	1980	I
437,105B	(Gunczulinskaja)	(VIR 1014)	USSR	USSR	1980	I
437,105C	(Gunczulinskaja)	(VIR 1014)	USSR	USSR	1980	I
437,116		VIR 521	USSR	USSR	1980	I
437,117		VIR 532	USSR	USSR	1980	I
437,118A		VIR 535	USSR	USSR	1980	I
437,119		VIR 1016	USSR	USSR	1980	I
437,121A		VIR 1023	USSR	USSR	1980	I
437,123		VIR 4575	USSR	USSR	1980	I
437,132A	Gibrid ASS 15	VIR 5051	USSR	USSR	1980	I
437,132B	(Gibrid ASS 15)	(VIR 5051)	USSR	USSR	1980	I
437,133	Gibrid ASS 20	VIR 5056	USSR	USSR	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
Coles	I	P	G	E	N	Br	D	Y	Y			
Hardin	I	P	G	E	N	Br	D	Y	Y			
Harlon	I	W	G	E	N	Br	D	Y	Y			
Hodgson 78	I	P	G	E	N	Br	D	Y	Bf			
Lakota	I	P	T	E	N	Tn	D	Y	Bl			
Vinton 81	I	P	G	E	N	Tn	D	Y	Y			
Weber	I	W	T	E	N	Br	D	Y	Bl			
427.141	I	P	T	E	Ssp	Br	D	Y	Br			
427.143	I	P	T	E	Ssp	Br	I	Y	Br		Na	
430.460A	I	W	G	E	N	Br	S	Y	Y		Na	
430.460B	I	W	G	E	N	Br	S	Y	Y		Na	
436.611	I	P	G	E	N	Br	S	Y	Y			
436.617	I	W	G	E	N	Br	S	Y	Y		Na	
436.681	I	W	G	E	N	Dbr	S	Y	Bf		Na	
436.682	I	W	G	E	N	Dbr	S	Y	Y		Na	
436.683	I	P	G	E	Ssp	Dbr	S	Y	Y		Na	
437.071	I	W	G	E	N	Br	S	Y	Bf			
437.074	I	P	T	E	N	Br	D	Y	Br			
437.075	I	P	T	E	N	Br	S	Br	Br		Dab	
437.077	I	P	T	E	N	Br	D	Lgn	Br			
437.081A	I	W	G	E	N	Dbr	S	Y	Bf			
437.081B	I	W	G	E	N	Dbr	S	Y	Bf			
437.083	I	P	T	E	Ssp	Br	D	Y	Br			
437.086	I	P	T	E	N	Br	D	Y	Y			
437.088A	I	P	T	E	Ssp	Br	D	Y	Br			
437.088B	I	W	G	E	N	Br	S	Y	Lbf			
437.091	I	P	G	E	N	Br	I	Y	Y			
437.092	I	W	G	E	N	Br	S	Y	Lbf			
437.094	I	W	G	E	N	Br	I	Y	Lbf			
437.095	I	P	G	E	N	Br	D	Y	Y			
437.097	I	P	G	E	N	Bl	S	Y	lb			
437.098	I	W	G	E	N	Dbr	S	Y	Bf			
437.101	I	P	T	E	Ssp	Br	I	Y	Br			
437.102	I	P	G	E	N	Br	S	Y	G			
437.105A	I	P	G	E	N	Br	S	Y	Bf			
437.105B	I	P	G	E	N	Br	S	Y	Bf			
437.105C	I	W	G	E	N	Br	S	Y	Bf			
437.116	I	P	T	Sa	Ssp	Bl	S	Gnbr	Br		Sw	
437.117	I	P	G	E	N	Br	S	Y	Y			
437.118A	I	P	T	E	N	Br	S	Y	Y			
437.119	I	P	Ng	E	N	Br	S	Bl	Bl			
437.121A	I	P	T	E	Ssp	Br	D	Y	Br			
437.123	I	P	G	E	N	Bl	S	Y	lb			
437.132A	I	W	G	E	N	Br	I	Y	Bf			
437.132B	I	P	G	E	N	Br	I	Y	lb			
437.133	I	W	G	E	N	Br	S	Y	Bf			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
Coles	27	104	1.5	101*	3.0	1.0	1.0	2.3	1.5	17.4	4.44
Hardin	29	102	1.5	89*	3.0	1.0	1.0	2.8	1.0	14.9*	4.18
Harlon	26	92	1.1	88*	3.0	1.0	1.5	2.5	1.0	14.0	3.21
Hodgson 78	27	99	1.3	89*	3.0	1.0	1.0	2.3	1.0	15.6	4.05
Lakota	29	99	1.9	100*	3.0	1.0	1.0	2.8	1.5	15.6	4.00
Vinton 81	26	101	1.5	86*	3.0	1.0	1.0	3.0	1.0	23.3	4.18
Weber	33	102	1.3	82*	3.0	1.0	1.0	2.3	1.0	12.8	3.98
427.141	49*	105*	2.1	78*	2.0	1.5	5.0	2.0	1.0	13.6	2.60*
427.143	33	94	1.1	64	2.0	3.0	5.0	2.3	1.0	18.5	2.62*
430.460A	27	96*	1.2	77*	2.0	1.0	1.0	2.5	1.0	17.8	3.62*
430.460B	30	101	1.6	74*	3.0	1.0	1.0	2.5	1.0	17.1*	3.34
436.611	29	97	1.1	71*	3.0	1.0	1.0	2.8	1.0	19.3	3.08*
436.617	26	94	1.3	79*	3.0	1.0	1.0	2.5	1.0	15.6*	3.07
436.681	27	102	1.9	65	2.0	1.0	1.0	2.3	1.0	13.5*	3.47
436.682	29	99	1.9	74*	2.0	1.0	1.0	2.3	1.0	16.5	3.98
436.683	35	102	1.6	90*	3.0	1.0	1.0	2.8*	1.0	14.2	3.15
437.071	33	97	1.2	66	3.0	1.0	1.0	2.5	1.0	16.6	3.20
437.074	29	93	1.0	69	3.0	1.0	1.5	3.0	1.5	14.6	3.37
437.075	26	97	4.0	101*	4.0	1.0	1.0	1.8	-	10.4	2.66
437.077	38	98	2.6*	70*	3.0	1.0	1.0	3.5	1.5	15.5	3.11*
437.081A	44	102	2.0	85*	3.0	1.0	1.0	2.5	1.0	13.8	3.59
437.081B	32	102	3.3*	74	3.0	1.0	1.5	2.8	1.0	15.0	3.90
437.083	44	103*	2.8	102*	4.0	1.0	1.0	3.0	3.0*	12.6	3.15
437.086	40	103*	2.5	121	4.0	1.0	1.0	2.3	2.0	14.1	3.44
437.088A	39	99*	2.3	88*	3.0	1.0	1.5	3.0	2.5	12.1	2.56
437.088B	35	99	2.1	79*	3.0	1.0	1.0	2.8	2.0	19.4*	3.17
437.091	Tested in and reported with the group 0 evaluation.										
437.092	35	98	2.4	80*	3.0	1.0	1.0	2.8	2.0	18.6*	3.19
437.094	36	100	2.0	81*	3.0	1.0	1.0	2.5	2.0	19.2	3.31
437.095	34	101	2.3	80*	3.0	1.0	1.0	2.8	1.5	19.3	3.44
437.097	36	102	1.8	74*	3.0	1.0	1.0	3.3	1.0	18.6	3.44
437.098	Tested in and reported with the group 0 evaluation.										
437.101	40	103	3.1	82*	3.0	1.0	1.0	3.5	1.5	16.3	3.04
437.102	36	100	1.9	88*	3.0	1.5	1.5	2.8	1.0	19.3	3.32
437.105A	30	100	2.3	86*	3.0	1.0	1.5	2.3	1.5	16.8	3.01
437.105B	35	103	2.5	75*	3.0	1.0	1.0	3.0	1.5	17.3	3.73
437.105C	34	103	2.1	93	3.0	1.0	1.0	3.3	1.5	16.7	3.63
437.116	45	100	4.5	70*	4.5	1.5	1.5	2.0	-	4.4	1.79
437.117	36	99	2.8	108	3.0	1.0	1.0	2.8	1.5	15.7	3.36
437.118A	39	98	2.3	92*	3.5	1.0	1.0	2.5	1.5	11.2	3.06
437.119	31	101*	4.0	89	3.0	1.0	1.0	2.0	-	10.6	2.77
437.121A	43	100	2.6	96	3.0	1.0	1.0	2.0	1.0	12.6	3.34
437.123	37	100	2.1*	78	3.0	1.0	1.5	3.3	1.0	18.6	3.32
437.132A	41	98	3.5	90*	3.5	1.0	1.5	2.3	1.0	12.5	2.85
437.132B	42	99	3.8	96*	3.5	1.0	1.5	2.5	1.0	13.7	3.15
437.133	35	98	2.0	75*	3.0	1.0	1.0	2.8	1.0	18.4*	2.94

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
Coles	I	19.7	42.2	11.3	3.3	24.6	54.0	6.6	0.0
Hardin	I	20.3	41.1	11.3	3.6	23.2	55.1	6.7	0.0
Harlon	I	22.3	39.9	12.3	3.1	27.3	50.6	6.5	0.0
Hodgson 78	I	21.1	40.0	12.0	3.3	23.7	54.1	6.7	0.0
Lakota	I	20.0	42.2	10.8	3.2	23.5	55.4	7.0	0.0
Vinton 81	I	18.9	44.0	11.2	3.2	24.4	54.3	6.8	0.0
Weber	I	20.8	40.7	11.9	3.6	20.6	55.5	8.3	0.0
427,141	I	14.1	49.5	14.7	2.9	20.3	52.8	9.0	0.0
427,143	I	20.1	43.0	12.7	3.0	23.9	54.6	5.8	0.0
430,460A	I	19.2	42.8	11.3	4.3	26.4	50.8	7.2	0.0
430,460B	I	19.5	42.6	11.4	4.0	23.3	53.3	8.0	0.0
436,611	I	20.2	42.4	12.0	3.8	28.3	50.3	5.4	0.0
436,617	I	19.5	42.7	11.4	4.2	23.9	52.7	7.7	0.0
436,681	I	19.4	41.2	11.7	3.8	24.5	53.8	6.0	0.0
436,682	I	20.7	41.4	11.8	3.4	22.7	54.6	7.4	0.0
436,683	I	20.5	40.9	11.5	3.2	27.7	50.8	6.6	0.0
437,071	I	20.2	40.9	10.5	3.9	30.8	47.4	7.2	0.1
437,074	I	19.4	43.5	11.0	3.0	20.2	57.5	8.0	0.1
437,075	I	15.0	46.6	12.8	3.2	21.3	55.0	7.5	0.0
437,077	I	16.7	47.0	12.4	3.2	19.6	56.6	8.0	0.1
437,081A	I	19.8	42.4	10.9	3.9	25.0	52.3	7.8	0.1
437,081B	I	18.9	42.5	11.3	3.9	25.9	50.4	8.1	0.3
437,083	I	17.9	44.7	12.3	3.1	19.1	56.6	8.7	0.0
437,086	I	17.8	45.2	12.5	3.6	21.3	54.3	8.1	0.0
437,088A	I	15.5	48.4	12.9	3.1	20.2	55.4	8.3	0.0
437,088B	I	20.1	43.0	10.7	3.2	24.6	55.6	5.8	0.0
437,091	I	Tested in and reported with the group 0 evaluation.							
437,092	I	20.6	41.9	10.5	3.2	24.1	55.9	6.0	0.1
437,094	I	19.0	44.0	10.6	3.3	22.7	55.7	7.4	0.1
437,095	I	17.4	45.7	12.6	3.0	24.5	52.3	7.5	0.0
437,097	I	18.7	43.4	12.1	3.1	28.7	48.7	7.3	0.0
437,098	I	Tested in and reported with the group 0 evaluation.							
437,101	I	16.9	47.2	11.0	3.2	23.4	54.7	7.5	0.0
437,102	I	17.7	45.1	11.3	2.8	20.8	56.8	8.2	0.0
437,105A	I	17.7	45.6	12.0	3.8	24.1	52.4	7.6	0.1
437,105B	I	17.2	45.9	11.6	2.8	24.1	53.8	7.5	0.0
437,105C	I	18.6	44.7	11.5	3.3	22.0	55.2	7.8	0.0
437,116	I	12.0	45.0	13.5	3.1	15.5	56.0	11.8	0.0
437,117	I	17.3	45.1	12.0	3.4	21.3	55.0	8.2	0.0
437,118A	I	17.9	42.9	13.1	3.0	19.3	55.0	9.4	0.0
437,119	I	16.4	44.4	12.4	3.3	28.2	49.5	6.4	0.0
437,121A	I	18.9	43.0	11.3	2.9	23.6	54.0	8.0	0.0
437,123	I	18.9	43.3	12.0	3.4	30.7	46.7	7.2	0.0
437,132A	I	19.1	41.4	12.4	3.3	20.4	55.1	8.7	0.1
437,132B	I	19.7	41.2	11.5	3.4	22.1	55.8	7.0	0.0
437,133	I	19.0	44.0	11.5	3.3	33.6	45.5	6.0	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.142	DV-2397	VIR 4379	USSR	USSR	1980	I
437.144	DVIZ-13-484	VIR 4966	USSR	USSR	1980	I
437.145A	DVIZ-13-563	VIR 4967	USSR	USSR	1980	I
437.150	Cormovaja 28	VIR 5245	USSR	USSR	1980	I
437.152	Cubanscaja 19	VIR 4988	USSR	USSR	1980	I
437.156A	Cubanscaja 396	VIR 4991	USSR	USSR	1980	I
437.156B	(Cubanscaja 396)	(VIR 4991)	USSR	USSR	1980	I
437.156C	(Cubanscaja 396)	(VIR 4991)	USSR	USSR	1980	I
437.159	Gibrid 29	VIR 5619	USSR	USSR	1980	I
437.160	Krasnodarscaja 13	VIR 5649	USSR	USSR	1980	I
437.161	Krasnodarscaja 16	VIR 5650	USSR	USSR	1980	I
437.162	Krasnodarscaja 585	VIR 4544	USSR	USSR	1980	I
437.163	Krasnodarscaja 944	VIR 4543	USSR	USSR	1980	I
437.165A	Toncostebel'naja 27	VIR 5244	USSR	USSR	1980	I
437.166B	(Vniimc 8012)	(VIR 4545)	USSR	USSR	1980	I
437.167A	VNIISC-1	VIR 4983	USSR	USSR	1980	I
437.167B	(VNIISC-1)	(VIR 4983)	USSR	USSR	1980	I
437.167C	(VNIISC-1)	(VIR 4983)	USSR	USSR	1980	I
437.168A	VNIISC-2	VIR 4984	USSR	USSR	1980	I
437.168B	(VNIISC-2)	(VIR 4984)	USSR	USSR	1980	I
437.168C	(VNIISC-2)	(VIR 4984)	USSR	USSR	1980	I
437.170	VNIISC-7	VIR 4987	USSR	USSR	1980	I
437.171		VIR 4205	USSR	USSR	1980	I
437.174B	(Cujbysevscaja 70)	(VIR 4974)	USSR	USSR	1980	I
437.187	Pintars	VIR 4048	USSR	USSR	1980	I
437.189B	(Bel'tscaja 636)	(VIR 5069)	USSR	USSR	1980	I
437.190	Bessarabea III	VIR 4832	USSR	USSR	1980	I
437.195	Bessarabea 727	VIR 4815	USSR	USSR	1980	I
437.197	Biruintsja 12	VIR 5691	USSR	USSR	1980	I
437.200A	CSchi 2	VIR 5145	USSR	USSR	1980	I
437.200B	(CSchi 2)	(VIR 5145)	USSR	USSR	1980	I
437.213	CSchi 99	VIR 5146	USSR	USSR	1980	I
437.223B	(CSchi 672)	(VIR 4771)	USSR	USSR	1980	I
437.236	CSchi 731	VIR 4819	USSR	USSR	1980	I
437.277	Vysocoroslaja 1	VIR 5654	USSR	USSR	1980	I
437.278		VIR 4922	USSR	USSR	1980	I
437.282		VIR 4926	USSR	USSR	1980	I
437.290		VIR 4936	USSR	USSR	1980	I
437.294B		(VIR 4940)	USSR	USSR	1980	I
437.307	Gorscaja 153	VIR 4555	USSR	USSR	1980	I
437.312	Oetinscaja 132	VIR 5692	USSR	USSR	1980	I
437.314	Novosibirscaja 1	VIR 5261	USSR	USSR	1980	I
437.318	B-151	VIR 4541	USSR	USSR	1980	I
437.319	Chabaro	VIR 5000	USSR	USSR	1980	I
437.327	DV-220	VIR 4107	USSR	USSR	1980	I
437.329	DV-497/2	VIR 4108	USSR	USSR	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group 1, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.142	I	P	T	E	Ssp	Br	I	Bl	Bl			
437.144	I	P	T	E	Ssp	Br	D	Lgn	Br			
437.145A	I	P	T	E	Ssp	Bl	I	Gnbr	Br		Dab	
437.150	I	P	T	E	N	Br	I	Y	Br			
437.152	I	P	G	E	N	Br	S	Y	Bf			
437.156A	I	P	T	E	N	Br	I	Y	Br			
437.156B	I	P	T	E	N	Br	S	Y	Bl			
437.156C	I	P	T	E	Ssp	Tn	S	Y	Bl			
437.159	I	P	G	E	N	Br	S	Y	lb	Abh		
437.160	I	W	G	E	N	Br	S	Y	Bf			
437.161	I	W	T	E	N	Br	S	Y	Br			
437.162	I	P	T	E	N	Br	S	Y	Bl			
437.163	I	P	G	E	N	Br	I	Y	Y			
437.165A	I	W	G	A	N	Tn	D	Y	Bf			
437.166B	I	P	T	E	N	Br	D	Y	Br			
437.167A	I	P	T	E	N	Br	S	Y	Br	Abh		
437.167B	I	P	T	E	N	Br	S	Y	Br	Abh		
437.167C	I	P	T	E	N	Tn	S	Y	Br	Abh		
437.168A	I	P	T	E	N	Br	S	Y	Br			
437.168B	I	P	T	E	N	Tn	S	Y	Br			
437.168C	I	P	T	E	N	Tn	S	Y	Br			
437.170	I	P	T	E	N	Br	S	Y	Br	Abh		
437.171	I	P	T	E	Ssp	Tn	I	Y	Br			
437.174B	I	P	G	E	N	Br	I	Y	G			
437.187	I	P	T	E	N	Br	S	Y	Br	Abh		
437.189B	I	P	T	E	N	Br	S	Y	Br	Abh		
437.190	J	P	G	E	N	Tn	I	Y	Bf	Abh		
437.195	I	W	G	E	N	Dbr	S	Y	Bf			
437.197	I	W	G	E	N	Br	S	Y	Y			
437.200A	I	P	T	E	N	Br	S	Y	Br	Abh		
437.200B	I	P	T	E	N	Br	I	Y	Br	Abh	Dab	
437.213	I	P	T	E	N	Br	I	Y	Br			
437.223B	I	P	G	E	N	Tn	I	Y	Bf	Abh		
437.236	I	P	G	E	N	Br	S	Y	Bf	Abh		
437.277	I	P	T	E	N	Br	S	Y	Bl			
437.278	I	P	T	E	N	Tn	S	Y	Br		Dab	
437.282	I	P	T	E	N	Tn	S	Y	Br	Abh		
437.290	I	P	T	E	N	Br	I	Br	Br		Dab	
437.294B	I	P	G	E	N	Br	I	Y	Y	SAbh	Dab	
437.307	I	P	T	E	N	Br	I	Y	Y			
437.312	I	P	T	E	N	Br	I	Y	Br			
437.314	I	P	T	E	Ssp	Br	I	Y	Y			
437.318	I	P	T	E	Ssp	Br	I	Y	Br			
437.319	I	P	G	E	N	Br	S	Y	Y			
437.327	I	W	G	E	N	Br	S	Y	Y			
437.329	I	P	T	E	N	Br	D	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.142	34	89	1.6	79*	3.5	1.0	1.0	1.8	-	11.6	2.27*
437.144	37	98	2.1*	69*	3.0	1.0	1.0	3.0	2.0	13.2	2.34
437.145A	37	104	2.8*	81*	3.0	1.0	1.0	2.5	-	10.4	2.77
437.150	36	97	2.3	98*	4.0	1.0	1.0	2.8	1.0	13.3	2.98
437.152	34	95	1.6	58*	3.0	1.0	1.0	2.3	1.0	15.2	2.93
437.156A	37	99	2.5	97*	4.0	1.0	1.0	3.0	1.0	13.7*	2.94
437.156B	27	99	2.0	64*	1.5	1.0	2.0	3.3	1.0	14.0*	3.08
437.156C	35	101	2.5*	64	1.5	1.0	1.0	2.5	1.0	12.8	3.31*
437.159	35	96*	1.6	78*	3.0	1.0	1.0	2.3	1.0	14.8	3.64
437.160	35	101*	2.5	106*	3.0	1.0	1.0	2.3	1.0	15.8	3.20
437.161	40	102	2.8	117	4.0	1.0	1.0	3.3	1.0	15.2*	3.38
437.162	29	101	2.5	79*	3.0	1.0	1.0	3.0	1.0	15.2	3.24*
437.163	37	101	2.8	79	2.5	1.0	1.0	3.8*	1.5	18.2	3.47
437.165A	40	99	3.3	100*	4.0	1.0	1.0	2.0	1.0	7.4	2.78
437.166B	31	91*	1.0	63	3.0	1.0	1.0	2.5	1.5	13.7	3.05
437.167A	43	101*	1.8	82*	3.0	1.0	1.5	2.3	1.0	13.8	3.68
437.167B	44	103	2.0	102*	3.5	1.0	1.0	2.3	1.0	13.3	3.91
437.167C	40	100	1.5	63	2.5	1.0	1.0	2.0	1.0	13.2	3.77*
437.168A	32	98	3.1	92	3.5	1.0	1.0	3.0	1.0	16.7*	2.92
437.168B	37	102	3.3	102	4.0	1.0	1.0	2.5	1.0	16.2*	3.50
437.168C	41	103	2.3	87*	3.0	1.0	1.0	2.3	1.0	12.3	2.73
437.170	40	103	1.8	77	3.0	1.0	1.0	2.5	1.0	14.3	3.72*
437.171	36	93*	2.8	81*	3.0	1.5	1.5	2.8	2.0	16.9	3.12
437.174B	31	96	2.4	71*	3.0	1.0	1.0	2.5	1.0	17.2	2.82
437.187	37	99	1.4	68	2.0	1.0	1.0	2.5	1.0	13.0	3.52*
437.189B	28	90	2.3*	47*	1.5	1.0	1.0	2.3	1.0	10.3	2.85
437.190	30	92	1.1	50	1.5	1.0	1.0	2.3	1.0	13.4	3.28*
437.195	39	101	1.6*	74*	3.0	1.0	1.0	2.3	1.0	16.6	3.50
437.197	38	98	2.9*	92*	3.0	1.0	1.0	3.3	1.0	12.8	2.99
437.200A	33	93	2.0	57	2.0	1.0	1.0	2.3	1.0	9.6	2.98*
437.200B	40	99	2.3	70	2.0	1.0	1.0	2.3	1.0	10.1	3.15*
437.213	33	98	1.8	74	3.0	1.0	1.0	2.5	1.0	13.3	3.08
437.223B	37	97	2.8	82	3.5	1.0	1.0	2.8	1.0	12.8	2.66
437.236	32	97	2.8	74	3.0	1.0	1.0	2.3	1.0	12.4	2.87*
437.277	45	103*	3.3	110*	3.0	1.0	1.0	3.3	1.0	17.9	3.36
437.278	39	98	3.3	65	2.0	1.0	1.0	2.8	1.5	12.0	3.40
437.282	43	100	4.3	64	2.0	1.0	1.0	2.0	1.0	8.6	2.97*
437.290	37	97*	2.5*	73*	3.0	1.0	1.0	2.3	-	11.4	2.33
437.294B	31	104	1.4	49*	1.0	1.0	1.0	2.3	1.0	11.7	3.01*
437.307	36	103*	3.0	97*	3.0	1.0	1.0	2.8	2.0	16.7	3.24
437.312	29	98	2.4	86	3.0	1.0	1.0	2.5	1.0	12.8	3.09
437.314	38	103	2.0	82*	3.0	1.0	1.0	3.0	2.5	15.0	3.19
437.318	42	105*	3.0	93	3.0	1.0	1.0	2.8	2.0	14.8	3.53
437.319	41	99	2.4	87	3.0	1.0	1.0	3.0	2.0	17.4	3.34
437.327	37	101	2.8	107	4.0	1.0	1.0	2.8	2.0	18.6	3.54*
437.329	37	102	1.8	91	3.0	1.0	1.0	3.0	2.5	20.9	3.15

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.142	I	15.9	47.5	13.3	3.3	23.8	52.6	7.0	0.0
437.144	I	17.2	44.5	11.8	2.6	21.7	57.0	6.8	0.0
437.145A	I	16.1	46.4	11.6	2.8	25.9	52.7	6.9	0.0
437.150	I	19.0	43.3	12.0	3.5	23.1	54.1	7.1	0.0
437.152	I	19.0	44.9	11.4	3.3	25.7	53.4	6.0	0.0
437.156A	I	18.9	44.2	11.8	3.5	24.4	53.1	6.9	0.0
437.156B	I	19.5	43.1	11.6	4.0	23.1	53.1	7.9	0.1
437.156C	I	18.3	41.5	11.7	3.8	21.3	54.8	8.2	0.1
437.159	I	19.5	42.0	11.1	3.5	26.4	51.5	7.2	0.1
437.160	I	18.9	43.4	11.8	3.5	25.1	52.6	6.8	0.1
437.161	I	19.2	42.7	11.9	3.9	29.0	47.8	7.2	0.1
437.162	I	19.1	43.4	11.0	3.9	23.1	54.5	7.3	0.1
437.163	I	18.0	44.4	11.9	3.4	25.8	51.5	7.2	0.1
437.165A	I	14.9	46.6	12.8	2.8	17.8	57.1	9.4	0.0
437.166B	I	19.1	43.6	10.8	2.9	20.8	57.7	7.6	0.1
437.167A	I	18.5	43.6	13.0	3.6	22.7	52.7	7.8	0.1
437.167B	I	18.5	43.1	12.8	3.2	22.3	53.8	7.7	0.1
437.167C	I	17.6	43.4	13.2	3.1	23.3	52.5	7.7	0.1
437.168A	I	17.9	47.2	11.8	3.1	24.6	53.7	6.6	0.0
437.168B	I	17.7	46.0	12.1	3.2	25.4	52.8	6.3	0.0
437.168C	I	17.2	46.2	13.1	3.3	20.6	54.7	8.0	0.1
437.170	I	16.9	44.3	11.9	3.1	22.9	54.0	7.9	0.0
437.171	I	17.5	44.3	11.7	3.3	28.6	50.5	5.9	0.0
437.174B	I	18.5	44.7	11.2	4.3	30.8	47.8	5.7	0.1
437.187	I	16.6	46.3	12.6	3.2	23.5	53.3	7.4	0.0
437.189B	I	16.2	46.5	12.0	3.6	15.1	58.9	10.1	0.1
437.190	I	19.3	43.4	13.3	3.4	21.6	55.0	6.6	0.1
437.195	I	19.5	41.1	10.9	3.8	28.9	49.1	7.2	0.0
437.197	I	18.5	42.0	11.8	3.9	22.4	53.7	8.0	0.1
437.200A	I	17.3	44.3	13.3	3.3	23.2	52.9	7.3	0.0
437.200B	I	17.5	43.6	13.1	3.2	18.5	55.6	9.6	0.0
437.213	I	18.3	43.9	11.0	3.0	20.1	57.4	8.3	0.0
437.223B	I	19.0	43.5	12.8	3.4	22.7	54.6	6.4	0.0
437.236	I	17.4	45.2	12.1	3.0	17.1	57.9	9.7	0.0
437.277	I	18.3	44.5	11.1	3.7	36.7	41.8	6.5	0.0
437.278	I	17.4	43.6	14.1	2.9	22.4	53.4	7.1	0.0
437.282	I	17.6	42.5	14.2	2.8	17.8	55.9	9.1	0.0
437.290	I	17.0	44.0	12.5	3.0	19.0	57.4	8.0	0.0
437.294B	I	16.2	46.3	12.2	2.8	19.0	56.5	9.3	0.0
437.307	I	18.0	44.6	11.1	3.0	21.4	56.7	7.6	0.0
437.312	I	18.3	44.3	12.3	3.0	21.4	56.0	7.1	0.1
437.314	I	17.4	45.6	11.7	3.0	23.2	53.9	8.0	0.1
437.318	I	17.7	46.5	11.3	3.0	22.4	56.2	6.9	0.0
437.319	I	17.3	45.1	12.1	3.1	23.0	53.9	7.7	0.0
437.327	I	19.9	43.3	11.0	3.2	22.8	55.8	7.0	0.0
437.329	I	17.2	46.6	11.0	3.2	23.1	55.4	7.2	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.330A	DV-2336	VIR 4372	USSR	USSR	1980	I
437.330B	(DV-2336)	(VIR 4372)	USSR	USSR	1980	I
437.332	DV-2371	VIR 4375	USSR	USSR	1980	I
437.333	DV-2399	VIR 4382	USSR	USSR	1980	I
437.334	DV-2400	VIR 4380	USSR	USSR	1980	I
437.336A	DV-2411	VIR 4384	USSR	USSR	1980	I
437.336B	(DV-2411)	(VIR 4384)	USSR	USSR	1980	I
437.339B	(DV-2996)	(VIR 4610)	USSR	USSR	1980	I
437.339C	(DV-2996)	(VIR 4610)	USSR	USSR	1980	I
437.340A	DVIZ 1477	VIR 4350	USSR	USSR	1980	I
437.342	Gunczulinscaja 529	VIR 4167	USSR	USSR	1980	I
437.343	Krarnoarmejscaja	VIR 5131	USSR	USSR	1980	I
437.344B	(L-1088)	(VIR 5606)	USSR	USSR	1980	I
437.344C	(L-1088)	(VIR 5606)	USSR	USSR	1980	I
437.348	Primorscaja 71	VIR 5572	USSR	USSR	1980	I
437.350	Primorscaja 500	VIR 5623	USSR	USSR	1980	I
437.352	Sancahe 352/C	VIR 4599	USSR	USSR	1980	I
437.353	Savicevskaja-7	VIR 3748	USSR	USSR	1980	I
437.363B	(Ussurijscaja 142)	(VIR 4181)	USSR	USSR	1980	I
437.366	Ussurijscaja 155	VIR 5547	USSR	USSR	1980	I
437.368	Ussurijscaja 187	VIR 4162	USSR	USSR	1980	I
437.370	Ussurijscaja 197	VIR 4177	USSR	USSR	1980	I
437.372	Ussurijscaja 243	VIR 4173	USSR	USSR	1980	I
437.373	Ussurijscaja 245	VIR 4178	USSR	USSR	1980	I
437.376A	Ussurijscaja 308	VIR 4164	USSR	USSR	1980	I
437.376B	(Ussurijscaja 308)	(VIR 4164)	USSR	USSR	1980	I
437.378A	Ussurijscaja 429	VIR 4174	USSR	USSR	1980	I
437.379	Ussurijscaja 431	VIR 4130	USSR	USSR	1980	I
437.381A	Ussurijscaja 434	VIR 4131	USSR	USSR	1980	I
437.381B	(Ussurijscaja 434)	(VIR 4131)	USSR	USSR	1980	I
437.381C	(Ussurijscaja 434)	(VIR 4131)	USSR	USSR	1980	I
437.384	Ussurijscaja 449	VIR 4187	USSR	USSR	1980	I
437.385A	Ussurijscaja 450	VIR 4188	USSR	USSR	1980	I
437.385B	(Ussurijscaja 450)	(VIR 4188)	USSR	USSR	1980	I
437.389B	(Ussurijscaja 456)	(VIR 4136)	USSR	USSR	1980	I
437.394	Ussurijscaja 466	VIR 4141	USSR	USSR	1980	I
437.395A	Ussurijscaja 468	VIR 4142	USSR	USSR	1980	I
437.395B	(Ussurijscaja 468)	(VIR 4142)	USSR	USSR	1980	I
437.398	Ussurijscaja 479	VIR 4192	USSR	USSR	1980	I
437.405	Ussurijscaja 494	VIR 4226	USSR	USSR	1980	I
437.406	Ussurijscaja 496	VIR 4227	USSR	USSR	1980	I
437.408A	Ussurijscaja 504	VIR 4229	USSR	USSR	1980	I
437.408B	(Ussurijscaja 504)	(VIR 4229)	USSR	USSR	1980	I
437.408C	(Ussurijscaja 504)	(VIR 4229)	USSR	USSR	1980	I
437.411	Ussurijscaja 507	VIR 4232	USSR	USSR	1980	I
437.414	Ussurijscaja 510	VIR 4235	USSR	USSR	1980	I

Table 2.2
Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.330A	I	P	T	E	N	Br	I	Y	Br			
437.330B	I	W	G	E	N	Br	S	Y	Y			
437.332	I	P	T	E	Ssp	Br	I	Br	Br	St, SNet		
437.333	I	P	G	E	N	Br	D	Y	Y			
437.334	I	P	G	E	Ssp	Lbr	D	Y	Y			
437.336A	I	P	G	E	N	Br	S	Y	G			
437.336B	I	P	G	E	N	Br	S	Y	lb			
437.339B	I	P	T	E	N	Br	S	Y	Y			
437.339C	I	P	T	E	N	Br	S	Y	Y			
437.340A	I	P	T	E	N	Br	I	G	G			
437.342	I	W	G	E	N	Br	I	Y	Y			
437.343	I	P	T	E	Ssp	Br	I	G	G	SNet		
437.344B	I	P	G	E	Ssp	Br	I	Y	Bf			
437.344C	I	P	G	E	N	Br	S	Y	Lbf		Na	
437.348	I	P	T	E	N	Br	D	Y	G			
437.350	I	W	G	E	N	Br	S	Y	Lbf			
437.352	I	P	T	E	N	Br	S	Y	Bl			
437.353	I	W	G	E	Ssp	Dbr	I	Y	Bf			
437.363B	I	P	T	E	Ssp	Br	D	Y	Y			
437.366	I	P	G	E	N	Br	S	Y	Bf			
437.368	I	P	T	E	N	Br	D	Y	Br			
437.370	I	P	T	E	Ssp	Br	D	Y	Br			
437.372	I	P	T	E	Ssp	Dbr	I	Y	Br			
437.373	I	P	T	E	N	Br	D	Y	Y			
437.376A	I	W	T	E	N	Br	S	Y	Br			
437.376B	I	P	T	E	Ssp	Br	I	Y	Br			
437.378A	I	P	G	E	Ssp	Br	I	Y	Y			
437.379	I	P	T	E	Ssp	Br	I	Y	Br			
437.381A	I	P	L†	E	N	Tn	S	Y	Br			
437.381B	I	P	T	E	N	Tn	I	Y	Br			
437.381C	I	P	T	E	N	Br	I	Y	Br			
437.384	I	P	T	E	N	Tn	D	Y	Br			
437.385A	I	P	G	E	Ssp	Tn	D	Y	Lbf			
437.385B	I	P	G	E	Ssp	Br	I	Y	Bf			
437.389B	I	P	T	E	N	Tn	D	Y	Br	Abh		
437.394	I	W	G	E	Ssp	Br	S	Y	Y			
437.395A	I	W	T	E	N	Br	D	Y	Br			
437.395B	I	P	T	E	N	Br	D	Y	Br			
437.398	I	P	T	E	Ssp	Tn	S	Y	Y			
437.405	I	P	T	E	N	Br	I	Y	G			
437.406	I	P	T	E	Ssp	Br	D	Y	Y			
437.408A	I	P	T	E	N	Br	D	Y	Br			
437.408B	I	P	T	E	N	Br	I	Y	Br			
437.408C	I	P	T	E	N	Br	D	Y	Br			
437.411	I	P	G	E	N	Br	S	Y	Y			
437.414	I	P	G	E	N	Br	S	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.330A	35	99	2.8	81*	3.0	1.0	1.0	2.8	2.0	14.0	3.38
437.330B	31	102	2.0	83	3.0	1.0	1.0	3.0	2.0	17.5	3.39
437.332	43	101	1.8	73	3.0	1.5	1.5	2.5	-	19.8	3.04*
437.333	43	101	2.8	86	3.0	1.0	1.0	3.0	1.5	15.9	3.26
437.334	43	103	2.8	89	3.0	1.0	1.0	3.0	1.5	16.6	3.20
437.336A	42	99	3.5	89	3.0	1.0	1.0	2.5	1.0	18.8	3.40
437.336B	36	96	2.8	87	3.0	1.0	1.0	3.0	1.0	18.2	2.79
437.339B	40	99	3.0	105*	4.0	1.0	1.0	3.3	2.0	15.5	3.01
437.339C	36	99	2.4	105	3.5	1.0	1.0	4.0	1.0	16.6	3.34
437.340A	34	101	2.7	104	3.0	1.0	1.0	2.8	1.5	17.9	3.29
437.342	32	104	1.8	85*	3.0	1.0	1.0	2.8	2.0	21.1	3.68
437.343	32	95	1.1	40*	1.0	2.0	3.0*	3.0	1.5	23.7	2.57
437.344B	29	97	2.0	74*	3.0	1.0	1.0	3.0	1.0	17.4	3.30
437.344C	36	103*	3.8	89*	3.0	1.0	1.0	2.3	1.0	12.9	3.30
437.348	32	96	2.5*	80*	3.0	1.0	1.0	2.5	1.0	15.6	3.57
437.350	32	102	2.1	93	3.0	1.0	1.0	2.3	1.0	17.0	3.74
437.352	32	100	1.9	83*	3.0	1.0	1.0	3.5*	1.0	17.9	2.80*
437.353	43	103	2.8	90	3.0	1.0	1.0	2.5	1.0	17.4	3.63
437.363B	39	95*	2.1	76*	3.0	1.0	2.5*	2.8	1.5	17.5	3.04
437.366	35	104	3.6	95	3.0	1.0	1.0	3.0	1.0	16.9	3.44
437.368	39	102*	3.3	97	4.0	1.5	1.5	2.5	1.5	14.8	3.72
437.370	40	103*	2.9	86	3.0	1.0	1.0	3.0	1.5	14.3	3.10
437.372	38	102*	2.5	84*	3.0	1.0	1.5	2.3	2.0	14.6	3.45
437.373	38	102*	1.8	84*	3.0	1.0	1.0	2.8	2.0	18.4	3.31
437.376A	36	97*	2.5	93	3.0	1.0	1.0	2.8	1.0	13.5	3.18
437.376B	40	103*	2.8	102	4.0	1.0	1.0	3.0	2.0*	13.4	3.46
437.378A	34	91*	1.8	87*	4.0	1.0	1.0	2.3	1.0	16.1	3.37
437.379	40	99	2.3	79*	3.5	1.0	1.0	2.3	1.5	14.2	3.26
437.381A	30	96	2.3	90*	3.5	1.0	1.0	3.0	1.5	17.1	3.23
437.381B	39	98	2.2	98*	4.0	1.0	1.0	3.0	1.5	13.9	3.01
437.381C	38	101	2.1	108*	4.0	1.0	1.0	2.8	1.5	16.2	3.51
437.384	41	103*	4.0	95	3.0	1.0	1.0	3.0	1.5	15.9	3.65
437.385A	29	90	2.1*	76*	3.0	1.0	1.0	2.5	1.0	14.5	2.86
437.385B	34	98	2.1	81*	3.0	1.0	1.0	3.0	1.5	16.4	3.23
437.389B	33	95*	3.5	99*	4.0	1.0	1.0	2.8	1.0	15.2	2.99
437.394	28	97	2.5	94	3.0	1.0	1.0	3.0	1.0	18.5	3.25
437.395A	32	98	2.2	93*	3.0	1.0	1.5	3.3	1.0	20.5	3.43*
437.395B	40	104	2.3	87*	3.0	1.0	1.0	3.0	1.5	19.0	3.31
437.398	43	100	2.5	85	3.0	1.0	1.0	2.3	1.5	14.2	3.07
437.405	33	102	3.3	105	3.0	1.0	1.0	3.5	1.5	22.5	3.51
437.406	40	101	4.3	90	4.0	1.0	1.0	2.5	2.5	11.7	3.13
437.408A	38	98	3.5	116*	4.0	1.0	1.5	2.3	1.5	12.5	3.14
437.408B	39	101*	2.5	91*	4.0	1.0	1.5	2.8	1.5	15.1	3.43*
437.408C	43	102*	2.3	91*	3.0	1.0	1.5	2.3	2.0	14.7	3.51
437.411	40	99	1.8	70	3.0	1.0	1.0	2.5	1.5	18.5	3.52
437.414	37	100	3.1	94	3.0	1.0	1.0	3.5	1.5	18.8	3.63

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.330A	I	17.4	46.1	12.4	3.3	21.3	55.8	7.0	0.0
437.330B	I	17.9	45.6	11.2	3.0	29.0	50.8	5.9	0.0
437.332	I	19.0	46.0	12.4	2.8	26.3	51.6	6.8	0.0
437.333	I	16.5	46.3	12.8	3.3	18.9	55.7	9.2	0.0
437.334	I	17.6	45.1	12.6	3.2	21.0	54.5	8.6	0.0
437.336A	I	19.1	43.3	10.8	3.3	27.9	51.3	6.7	0.0
437.336B	I	18.5	44.8	12.7	3.3	26.0	50.8	7.1	0.0
437.339B	I	16.8	47.3	12.3	3.6	22.3	54.4	7.3	0.0
437.339C	I	17.6	46.4	12.2	3.7	21.1	56.2	6.6	0.0
437.340A	I	18.5	45.8	12.6	3.1	24.0	53.8	6.3	0.0
437.342	I	19.3	43.7	11.7	3.3	22.6	55.0	7.3	0.0
437.343	I	16.7	47.8	10.8	3.2	22.4	56.3	7.2	0.0
437.344B	I	20.1	43.8	10.8	3.2	25.1	53.7	7.1	0.0
437.344C	I	17.0	44.8	11.8	3.0	16.7	59.3	9.0	0.1
437.348	I	18.8	44.9	12.3	2.9	22.0	55.2	7.4	0.0
437.350	I	19.3	42.9	10.7	4.0	32.3	46.9	6.0	0.0
437.352	I	19.4	43.6	11.0	3.4	27.5	50.8	7.2	0.0
437.353	I	18.6	43.0	11.8	3.7	24.3	52.0	8.2	0.0
437.363B	I	18.5	46.4	11.8	3.0	24.4	53.1	7.4	0.1
437.366	I	17.5	45.0	11.6	3.0	20.6	55.7	8.8	0.1
437.368	I	18.8	43.9	12.4	2.9	20.9	55.8	7.8	0.0
437.370	I	17.8	45.8	11.2	3.0	22.1	56.2	7.3	0.1
437.372	I	17.9	45.5	12.8	3.1	19.8	56.2	7.8	0.0
437.373	I	17.7	46.0	10.6	3.2	23.3	55.3	7.4	0.1
437.376A	I	19.3	43.2	12.0	3.9	21.9	54.6	7.5	0.1
437.376B	I	18.8	41.9	11.5	3.4	21.8	55.8	7.4	0.1
437.378A	I	18.0	47.1	11.6	3.2	22.8	54.5	7.7	0.1
437.379	I	18.0	43.3	12.4	3.1	20.4	56.1	7.9	0.0
437.381A	I	19.0	44.3	12.2	3.4	22.7	53.6	7.8	0.1
437.381B	I	17.2	45.2	12.1	2.8	20.5	55.8	8.5	0.0
437.381C	I	18.1	44.8	12.1	3.3	21.0	55.2	8.0	0.2
437.384	I	16.9	44.6	13.1	2.7	21.7	52.3	10.0	0.1
437.385A	I	19.9	42.8	11.7	3.2	24.6	52.9	7.5	0.1
437.385B	I	16.9	43.8	11.5	3.2	24.2	53.5	7.5	0.1
437.389B	I	17.6	45.8	13.3	3.5	24.2	51.7	7.2	0.1
437.394	I	17.6	46.4	11.9	3.4	23.0	53.9	7.6	0.0
437.395A	I	18.4	45.4	11.4	3.1	26.0	52.5	6.6	0.1
437.395B	I	18.3	43.9	11.2	3.0	22.1	56.1	7.5	0.1
437.398	I	16.5	47.8	11.8	3.0	21.0	56.3	7.9	0.0
437.405	I	19.4	43.9	11.4	3.4	27.9	51.0	6.2	0.0
437.406	I	17.4	45.2	11.8	2.9	21.4	55.7	7.8	0.1
437.408A	I	18.9	44.3	12.1	3.2	23.0	54.1	7.4	0.1
437.408B	I	18.4	44.3	12.8	3.1	19.3	56.3	8.3	0.0
437.408C	I	17.9	46.3	10.8	2.8	26.8	52.1	7.3	0.0
437.411	I	18.3	45.6	10.6	2.8	22.7	56.2	7.5	0.0
437.414	I	17.5	44.9	11.7	3.1	25.7	52.0	7.0	0.4

Table 1.2
Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.418	Ussurijscaja 516	VIR 4239	USSR	USSR	1980	I
437.421	Ussurijscaja 522	VIR 4243	USSR	USSR	1980	I
437.423	Ussurijscaja 538	VIR 4248	USSR	USSR	1980	I
437.425	Ussurijscaja 545	VIR 4250	USSR	USSR	1980	I
437.428A	Ussurijscaja 548	VIR 4253	USSR	USSR	1980	I
437.429A	Ussurijscaja 552	VIR 4255	USSR	USSR	1980	I
437.429B	(Ussurijscaja 552)	(VIR 4255)	USSR	USSR	1980	I
437.432A	Ussurijscaja 561	VIR 4259	USSR	USSR	1980	I
437.436A	Ussurijscaja 568	VIR 4262	USSR	USSR	1980	I
437.436B	(Ussurijscaja 568)	(VIR 4262)	USSR	USSR	1980	I
437.439	Ussurijscaja 577	VIR 4270	USSR	USSR	1980	I
437.442	Ussurijscaja 586	VIR 4274	USSR	USSR	1980	I
437.443	Ussurijscaja 587	VIR 4275	USSR	USSR	1980	I
437.445	Ussurijscaja 595	VIR 4278	USSR	USSR	1980	I
437.449	Ussurijscaja 632	VIR 4289	USSR	USSR	1980	I
437.450	Ussurijscaja 636	VIR 4291	USSR	USSR	1980	I
437.452A	Ussurijscaja 640	VIR 4293	USSR	USSR	1980	I
437.468	Ussurijscaja 686	VIR 4204	USSR	USSR	1980	I
437.469A	Ussurijscaja 687	VIR 4149	USSR	USSR	1980	I
437.469B	(Ussurijscaja 687)	(VIR 4149)	USSR	USSR	1980	I
437.471	VIR 29 (ulutssen)	VIR 5524	USSR	USSR	1980	I
437.473	VIR 1501-40	VIR 4540	USSR	USSR	1980	I
437.477A		VIR 382	USSR	USSR	1980	I
437.486		VIR 1066	USSR	USSR	1980	I
437.491		VIR 3081	USSR	USSR	1980	I
437.492		VIR 3713	USSR	USSR	1980	I
437.496		VIR 3736	USSR	USSR	1980	I
437.498		VIR 3739	USSR	USSR	1980	I
437.499		VIR 3741	USSR	USSR	1980	I
437.500A		VIR 3810	USSR	USSR	1980	I
437.504		VIR 3848	USSR	USSR	1980	I
437.508B		(VIR 3876)	USSR	USSR	1980	I
437.509		VIR 3890	USSR	USSR	1980	I
437.511		VIR 3921	USSR	USSR	1980	I
437.514A		VIR 4542	USSR	USSR	1980	I
437.514B		(VIR 4542)	USSR	USSR	1980	I
437.516		VIR 4701	USSR	USSR	1980	I
437.519		VIR 5626	USSR	USSR	1980	I
437.524		VIR 358	USSR	USSR	1980	I
437.526B		(VIR 4971)	USSR	USSR	1980	I
437.530	Chernaja VU 2260	VIR 5078	USSR	USSR	1980	I
437.531	Cirovogradscaja 1	VIR 5544	USSR	USSR	1980	I
437.533A	Cvitea	VIR 4972	USSR	USSR	1980	I
437.533B	(Cvitea)	(VIR 4972)	USSR	USSR	1980	I
437.538	Dneprovscaja 2	VIR 4044	USSR	USSR	1980	I
437.540	Kirovogradscaja 6	VIR 5599	USSR	USSR	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.418	I	P	T	E	N	Br	S	Y	Bl			
437.421	I	P	G	E	N	Br	I	Y	Y			
437.423	I	P	T	E	N	Br	I	Y	Bl			
437.425	I	Dp	G	E	N	Tn	S	Y	Y			
437.428A	I	P	G	E	N	Br	S	Y	Y			
437.429A	I	P	T	E	N	Br	S	Y	Y			
437.429B	I	P	G	E	N	Br	S	Y	Y			
437.432A	I	P	G	E	N	Br	S	Y	Y			
437.436A	I	P	G	E	N	Bl	S	Y	Bf			
437.436B	I	P	G	E	N	Bl	S	Y	Bf			
437.439	I	P	G	E	N	Br	S	Y	Y			
437.442	I	P	G	E	N	Br	D	Y	Y			
437.443	I	W	T	E	N	Br	I	Y	Bl			
437.445	I	Dp	G	E	N	Br	S	Y	Y			
437.449	I	P	G	E	N	Tn	S	Y	Y			
437.450	I	Dp	G	E	N	Br	S	Y	Y			
437.452A	I	P	T	E	Ssp	Tn	S	Y	Br			
437.468	I	P	T	E	N	Br	D	Y	Br			
437.469A	I	P	T	E	N	Tn	I	Y	Br			
437.469B	I	P	T	E	N	Br	I	Y	Br			
437.471	I	P	T	E	Ssp	Tn	D	Y	Y			
437.473	I	P	T	E	N	Br	I	G	G			
437.477A	I	P	T	E	Ssp	Lbr	I	Y	Br			
437.486	I	W	G	E	N	Br	S	Y	Bf			
437.491	I	P	G	E	N	Br	D	Y	Y			
437.492	I	P	Lt	E	N	Br	D	Y	Y			
437.496	I	P	T	E	N	Br	S	Y	Br			
437.498	I	P	T	E	N	Bl	S	Y	Br			
437.499	I	P	T	E	N	Br	D	Y	Y			
437.500A	I	P	T	E	N	Br	D	Y	Br			
437.504	I	P	T	E	N	Br	I	Y	Br			
437.508B	I	W	G	E	N	Dbr	S	Y	Bf			
437.509	I	P	Lt	E	Ssp	Bl	S	Gn	Br			
437.511	I	P	T	E	Ssp	Br	S	Bl	Bl			
437.514A	I	P	G	E	N	Br	I	Y	G			
437.514B	I	W	G	E	N	Br	S	Y	Y			
437.516	I	P	G	E	Ssp	Br	S	Y	Y			
437.519	I	P	G	E	Ssp	Bl	I	Y	Bf			
437.524	I	P	Lt	E	N	Bl	S	Gnbr	Br			
437.526B	I	P	G	E	N	Br	S	Y	G			
437.530	I	P	T	E	N	Br	S	Bl	Bl			
437.531	I	P	T	E	N	Tn	S	Y	Br			
437.533A	I	W	G	E	N	Br	S	Y	Bf			
437.533B	I	W	G	E	N	Br	S	Y	Bf			
437.538	I	W	G	E	N	Dbr	S	Y	Bf			
437.540	I	W	G	E	N	Dbr	S	Y	Bf			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- maturity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.418	44	106	3.3	113	4.0	1.0	1.0	2.8	2.5	16.2	3.65
437.421	35	98	2.0*	82	3.0	1.0	1.0	3.8*	2.0	16.5	3.67
437.423	41	103*	2.8	110	3.0	1.0	1.0	3.0	1.5	23.7	3.52
437.425	37*	98	2.6	95	3.0	1.0	1.0	3.0	2.0	17.4	3.69
437.428A	36	101*	2.8	96	3.0	1.0	1.0	3.0	1.0	19.0	3.20
437.429A	37	101	3.0	87*	3.0	1.0	1.0	3.0	2.0	17.4	3.47
437.429B	41	103*	4.0	108*	3.0	1.0	1.0	3.0	2.0	18.1	3.46*
437.432A	34	101	2.2	98	3.0	1.0	1.0	2.3	1.0	16.4	3.43
437.436A	38	97	2.0	69	3.0	1.0	1.0	2.8	1.0	16.5	3.51
437.436B	40	99	2.0	67*	3.0	1.0	1.0	2.5	1.0	15.5	3.51
437.439	37	97	2.8	90	3.0	1.0	1.0	3.0	2.0	18.0	3.60
437.442	34	98	2.4	91	3.0	1.0	1.0	2.8	1.5	16.7	3.44*
437.443	31	103	2.8	104	3.0	1.0	1.0	2.8	1.5	19.8	3.59
437.445	35	96	2.3	86	3.0	1.0	2.0*	2.8	1.5	18.0	3.34*
437.449	33	91*	2.5	90	3.0	1.0	1.0	3.0	1.5	15.6	2.99
437.450	35	98	2.8	89	3.0	1.0	1.0	3.3	1.5	19.0	3.23
437.452A	40	96*	2.1*	81*	3.0	1.0	1.0	2.5	1.0	12.9	3.37
437.468	35	98	4.0	113*	4.0	1.0	1.0	2.8	2.0	12.0	3.11*
437.469A	37	99	2.0	76	3.0	1.0	1.0	2.5	1.5	12.8	3.64
437.469B	32	100	2.6	90*	3.0	1.0	1.5	2.5	1.5	14.3	3.41
437.471	33	95*	4.0	76*	3.0	1.0	1.0	2.8	1.0	14.7	3.35
437.473	27	88	1.5	102*	3.5	1.0	1.0	3.3	1.5	17.7	3.05*
437.477A	43	102	3.3	96*	3.0	1.0	1.0	2.5	2.5	13.8	3.26
437.486	35	96	2.0	80*	3.0	1.0	1.0	2.5	1.0	16.5*	3.04
437.491	37	99	3.0	81*	3.0	1.0	1.0	2.8	1.5	17.7	3.87
437.492	32	89	2.7	83*	3.0	1.0	1.0	2.5	1.0	12.3	2.81
437.496	40	94*	2.8	91*	3.0	1.0	1.0	3.0	1.0	12.9	3.04
437.498	34	96*	3.3	89*	3.0	1.0	1.0	3.0	3.0	11.4	3.20
437.499	40	99	1.4	84*	3.0	1.0	1.5	2.5	1.5	16.5	3.40
437.500A	28	99	2.8	86*	3.0	1.0	1.5	2.8	2.0	16.3	3.53*
437.504	29	90*	1.8	82	3.0	1.0	1.0	2.3	1.0	17.0	3.13*
437.508B	40	101	1.8*	70*	3.0	1.0	1.0	2.3	1.0	16.3	3.59
437.509	34	91*	2.7	84*	3.0	1.0	1.0	2.8	3.0*	12.3	2.93*
437.511	34	91*	2.2	87*	3.0	1.0	1.0	2.3	-	12.4	2.98*
437.514A	32	89*	3.0	84	3.0	1.0	1.0	3.5	1.0	18.7	2.13
437.514B	30	91*	2.6	93*	3.0	1.0	1.0	2.8	1.0	18.6	3.05*
437.516	37	103*	2.8	106	3.5	1.0	1.0	2.8	1.5	15.0	3.39*
437.519	29	88	2.1	68	3.0	1.0	1.0	3.0	1.0	16.7	3.17*
437.524	34	97	3.3*	81*	3.0	1.0	1.0	2.5	-	11.4	3.10
437.526B	26	97*	3.0	91*	3.0	1.0	1.0	3.0	1.0	19.9	3.22*
437.530	27	97	3.3	100*	4.0	1.0	1.5	2.5	-	13.0	2.47*
437.531	28	90*	1.5	89*	4.0	1.0	1.0	1.8	1.0	11.6	2.68
437.533A	38	102	2.9	79*	3.0	1.0	1.0	2.5	1.0	16.0	3.44*
437.533B	39	102	3.5	82*	3.0	1.0	1.0	2.5	1.0	16.3	3.45
437.538	34*	99	2.6	72*	3.0	1.0	1.0	2.3	1.0	16.4	3.46
437.540	38	95*	2.9	79*	4.0	1.0	1.0	2.5	1.0	13.3	3.55

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.418	I	16.9	45.8	11.3	3.2	21.8	55.0	8.5	0.1
437.421	I	17.7	45.0	11.7	3.2	24.7	52.7	7.5	0.1
437.423	I	17.9	46.0	11.7	2.9	21.5	56.0	7.6	0.1
437.425	I	18.2	43.7	11.4	3.2	27.8	50.6	6.7	0.1
437.428A	I	18.1	44.8	11.6	3.1	25.8	51.8	7.5	0.1
437.429A	I	18.6	44.9	11.9	3.3	24.8	53.7	6.1	0.1
437.429B	I	19.0	45.6	11.9	3.1	26.1	52.5	6.1	0.1
437.432A	I	17.3	45.2	13.0	2.9	22.6	53.9	7.5	0.1
437.436A	I	19.9	42.5	12.2	3.3	23.5	53.1	7.6	0.1
437.436B	I	18.3	42.6	12.2	3.2	23.2	53.2	7.9	0.1
437.439	I	17.7	44.7	11.8	3.4	25.7	51.9	7.0	0.1
437.442	I	18.2	43.8	12.5	3.1	22.0	54.7	7.5	0.1
437.443	I	18.7	44.0	11.1	3.2	23.4	54.8	7.4	0.0
437.445	I	17.9	43.7	11.7	2.4	25.7	53.0	7.1	0.0
437.449	I	18.2	45.9	12.5	2.3	21.8	55.8	7.4	0.0
437.450	I	17.9	44.5	11.8	2.8	25.0	53.3	7.0	0.0
437.452A	I	19.3	44.0	11.5	2.5	23.2	55.3	7.3	0.0
437.468	I	17.8	44.6	11.8	1.4	24.2	56.0	6.4	0.1
437.469A	I	18.3	44.7	12.3	2.4	21.6	56.1	7.5	0.0
437.469B	I	17.5	45.3	12.5	2.8	21.2	57.1	6.2	0.0
437.471	I	19.6	43.0	10.8	2.6	24.1	55.5	6.7	0.0
437.473	I	19.3	43.0	11.4	2.7	23.2	56.1	6.4	0.0
437.477A	I	17.6	44.8	11.9	2.3	19.9	58.3	7.4	0.0
437.486	I	19.1	42.8	11.9	2.8	29.5	49.1	6.4	0.0
437.491	I	19.3	43.5	11.9	2.8	24.3	53.9	6.9	0.1
437.492	I	18.5	45.1	13.3	2.7	20.6	54.4	8.8	0.0
437.496	I	17.9	44.8	11.8	2.4	17.7	60.2	7.8	0.0
437.498	I	18.9	43.8	11.6	2.5	18.0	59.8	7.8	0.0
437.499	I	16.4	47.5	13.0	2.5	19.8	56.4	8.1	0.0
437.500A	I	18.9	43.8	11.9	2.7	20.1	57.5	7.7	0.0
437.504	I	18.5	46.3	12.7	2.9	24.7	53.5	6.1	0.0
437.508B	I	20.4	40.1	10.9	3.4	27.1	50.9	7.6	0.0
437.509	I	18.3	45.1	12.4	2.8	22.2	56.5	6.0	0.0
437.511	I	16.2	46.6	13.1	2.9	19.5	56.2	8.1	0.0
437.514A	I	20.6	42.7	11.0	3.3	33.3	46.6	5.6	0.1
437.514B	I	20.6	43.3	10.5	3.0	29.5	50.4	6.4	0.0
437.516	I	18.3	43.5	11.3	2.6	22.8	54.8	8.3	0.0
437.519	I	19.0	43.2	13.0	2.9	22.7	54.5	6.7	0.1
437.524	I	14.9	47.0	12.5	2.6	21.4	55.0	8.2	0.0
437.526B	I	19.3	43.4	10.4	3.3	23.5	55.3	7.3	0.0
437.530	I	17.3	47.6	11.6	2.7	23.6	55.4	6.4	0.1
437.531	I	19.1	43.5	11.6	2.8	20.9	57.0	7.5	0.0
437.533A	I	20.3	41.8	11.0	2.6	25.5	53.3	7.4	0.1
437.533B	I	19.8	42.5	11.1	2.8	27.3	51.1	7.4	0.1
437.538	I	20.1	41.3	10.7	3.5	28.4	50.0	7.3	0.0
437.540	I	19.7	41.3	11.3	3.0	23.1	54.5	7.9	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.546	1-9-3	VIR 5600	USSR	USSR	1980	I
437.547		VIR 5125	USSR	USSR	1980	I
437.553	Aj huej mestnyj	VIR 5405	USSR	China	1980	0
437.556	Baj hua tso tszu	VIR 5466	USSR	China	1980	I
437.558	Ban' e sen dou	VIR 5366	USSR	China	1980	I
437.559	Bej an' te tszjao tsin	VIR 5381	USSR	China	1980	I
437.567	Cha 49-2005	VIR 5636	USSR	China	1980	I
437.571	Chej huan do	VIR 5431	USSR	China	1980	I
437.573A	Che ti	VIR 5387	USSR	China	1980	I
437.577	Chuan da dou	VIR 5210	USSR	China	1980	I
437.584	Chzu jao dou	VIR 5465	USSR	China	1980	I
437.594A	Dun haj sy tszjao	VIR 5344	USSR	China	1980	I
437.595	Dun nun 47-ID	VIR 5379	USSR	China	1980	I
437.598B	(Dun nyn 50-6931)	(VIR 5648)	USSR	China	1980	I
437.603	DV-2774	VIR 4622	USSR	China	1980	I
437.607	DV-2778	VIR 4626	USSR	China	1980	I
437.608	DV-2779	VIR 4627	USSR	China	1980	I
437.609A	DV-2780	VIR 4628	USSR	China	1980	I
437.610A	DV-2782	VIR 4630	USSR	China	1980	I
437.612	DV-2785	VIR 4633	USSR	China	1980	I
437.613	DV-2786	VIR 4634	USSR	China	1980	I
437.614A	DV-2787	VIR 4635	USSR	China	1980	I
437.615C	(DV-2788)	(VIR 4636)	USSR	China	1980	I
437.616	DV-2789	VIR 4637	USSR	China	1980	I
437.619	DV-2794	VIR 4642	USSR	China	1980	I
437.621A	DV-2796	VIR 4644	USSR	China	1980	I
437.621B	(DV-2796)	(VIR 4644)	USSR	China	1980	I
437.622A	DV-2798	VIR 4646	USSR	China	1980	I
437.623	DV-2800	VIR 4648	USSR	China	1980	I
437.624	DV-2801	VIR 4649	USSR	China	1980	I
437.625	DV-2802	VIR 4650	USSR	China	1980	I
437.628	DV-2807	VIR 4655	USSR	China	1980	I
437.629	DV-2808	VIR 4656	USSR	China	1980	I
437.630B	(DV-2810)	(VIR 4658)	USSR	China	1980	I
437.630C	(DV-2810)	(VIR 4658)	USSR	China	1980	I
437.632A	DV-2812	VIR 4660	USSR	China	1980	I
437.632B	(DV-2812)	(VIR 4660)	USSR	China	1980	I
437.633C	(DV-2814)	(VIR 4662)	USSR	China	1980	I
437.633D	(DV-2814)	(VIR 4662)	USSR	China	1980	I
437.634	DV-2815	VIR 4663	USSR	China	1980	I
437.635A	DV-2816	VIR 4664	USSR	China	1980	I
437.636A	DV-2817	VIR 4665	USSR	China	1980	I
437.636B	(DV-2817)	(VIR 4665)	USSR	China	1980	I
437.637	DV-2818	VIR 4666	USSR	China	1980	I
437.638	DV-2819	VIR 4667	USSR	China	1980	I
437.640A	DV-2821	VIR 4669	USSR	China	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.546	I	W	G	E	N	Dbr	S	Y	Bf			
437.547	I	P	T	E	N	Br	S	Y	Br	Abh		
437.553	O	P	G	E	Ssp	Br	S	Y	Y			
437.556	I	P	G	E	N	Br	I	Y	Y			
437.558	I	Pth	T	A	Sp	Dbr	B	Bl	Bl	Fleck		
437.559	I	P	G	E	N	Br	D	Y	Y			
437.567	I	W	G	E	N	Br	I	Y	Y			
437.571	I	P	T	E	Ssp	Br	S	Bl	Bl			
437.573A	I	P	T	E	N	Br	D	Y	Br	SAbh		
437.577	I	W	T	E	N	Br	S	Y	Br	Abh		
437.584	I	W	G	E	N	Br	S	Y	Lbf			
437.594A	I	P	G	E	N	Br	D	Y	Ib			
437.595	I	P	T	E	N	Br	S	Y	G			
437.598B	I	P	G	E	N	Br	S	Y	Y			
437.603	I	W	G	E	N	Br	S	Y	Bf			
437.607	I	W	G	E	N	Br	D	Y	Y			
437.608	I	P	G	E	N	Br	D	Y	Y			
437.609A	I	P	G	E	N	Br	S	Y	Ib			
437.610A	I	P	T	E	Ssp	Br	D	Y	Y			
437.612	I	W	G	E	N	Br	I	Y	Bf			
437.613	I	P	G	E	Ssp	Br	I	Y	Bf			
437.614A	I	W	G	E	N	Br	I	Y	Bf			
437.615C	I	Dp	G	E	Ssp	Br	D	Y	Y			
437.616	I	W	T	E	N	Br	I	Y	Br			
437.619	I	P	G	E	N	Br	I	Y	Y			
437.621A	I	P	G	E	N	Br	S	Y	Bf			
437.621B	I	P	G	E	N	Tn	I	Y	Bf	Abh		
437.622A	I	P	T	E	N	Br	D	Y	Br			
437.623	I	P	G	E	N	Br	S	Y	Y			
437.624	I	W	G	E	N	Br	D	Y	Y			
437.625	I	P	G	E	N	Br	D	Y	Lbf			
437.628	I	P	G	E	N	Br	S	Y	Ib			
437.629	I	P	G	E	N	Br	S	Y	Y			
437.630B	I	P	G	E	N	Br	S	Y	Ib			
437.630C	I	W	G	E	N	Br	S	Y	Y			
437.632A	I	W	G	E	N	Br	I	Y	Y			
437.632B	I	P	T	E	Ssp	Br	D	Y	Br			
437.633C	I	P	T	E	N	Tn	D	Y	Br			
437.633D	I	P	T	E	N	Br	D	Y	Y			
437.634	I	W	G	E	N	Br	S	Y	Y			
437.635A	I	P	T	E	N	Br	D	Y	Y			
437.636A	I	P	T	E	N	Dbr	S	Y	Bl			
437.636B	I	P	G	E	N	Br	S	Y	Ib			
437.637	I	P	T	E	N	Br	D	Y	Y			
437.638	I	P	G	E	N	Br	I	Y	Y			
437.640A	I	P	G	E	N	Tn	I	Lg	Lg	Abh		

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower-	Matur-	Lodging	Height	Stem	Shattering		Seed	Mottling	Seed	Seed
	ing	ity			term-	Early	Late				
	(days after				ina-							quality	weight	yield
May 31)	(score)	(cm)	(score)	(score)	(score)	(score)	(cg/seed)	(Mg/ha)			
437.546	34	96	1.9	63*	3.0	1.0	1.0	2.5	1.0	13.8	3.43
437.547	34	95*	1.6	65*	2.0	1.0	1.0	2.3	1.0	12.6	3.57
437.553	27	86*	1.3	77	3.0	1.0	1.0	2.8	2.0	15.8	3.18*
437.556	29	95	2.1*	81*	3.0	1.0	1.0	2.8	1.0	15.2	3.55*
437.558	40	96*	2.8	64*	3.0	1.0	1.0	2.3	-	4.9	2.28*
437.559	29	92*	1.3	67*	3.0	1.0	1.0	2.8	1.0	16.9*	3.15*
437.567	30	93	1.3	71*	3.0	1.0	1.0	2.8	1.5	13.7	3.54*
437.571	46	96*	3.1	69	2.0	1.0	2.0*	2.5	-	10.3	2.70
437.573A	31	93	1.8	70	2.0	1.0	1.0	3.0	1.0	16.3	3.24*
437.577	40	102*	2.8	98*	4.0	1.0	1.5	2.8	2.0	16.6	3.36
437.584	30	102	2.3	96	3.0	1.0	1.0	2.0	1.0	18.1	3.76
437.594A	47	107*	3.3	112*	3.5	2.5*	3.0*	2.3	1.0	12.3	3.04*
437.595	25	88*	1.8	90*	4.0	1.0	1.0	2.8	1.0	16.0	2.29*
437.598B	41	102	2.3*	82*	3.0	1.0	1.0	3.5	2.0*	17.0	3.42
437.603	35	102*	1.8	75*	3.0	1.0	1.0	2.8	1.0	17.3	3.63
437.607	31	100	1.9	78*	3.0	1.0	1.5	2.8	1.5	17.1	3.31*
437.608	33	99	1.4	85*	3.0	1.0	1.0	2.8	1.5	19.3	3.21
437.609A	39	102*	3.3	83	3.0	1.0	1.0	2.5	1.0	15.1	3.51
437.610A	30	96*	2.5	81	2.5	1.0	1.0	3.5	1.5	17.3	2.88
437.612	30	101	2.0	99*	3.0	1.0	1.0	3.0	1.0	20.3	3.71
437.613	31	98	3.0	82*	3.0	1.0	1.0	3.0	1.5	14.6	3.56*
437.614A	39	101	2.5*	76*	3.0	1.0	1.0	2.5	1.0	14.8	4.17
437.615C	37	102*	2.0	90*	3.0	1.0	1.0	2.5	1.0	19.4	3.57
437.616	34	100*	1.3	81*	3.0	1.0	1.0	2.8	1.5	17.3	3.75
437.619	29	90*	2.1	89	3.0	1.0	1.0	2.5	1.0	17.5*	2.98*
437.621A	33	98	2.3	88	3.0	1.0	1.5	2.5	1.0	17.5	3.36
437.621B	36	100	2.5	87	4.0	1.0	1.0	2.8	1.0	14.4	3.61
437.622A	27	96*	1.4	91*	3.0	1.0	1.0	2.8	1.0	16.5	3.46*
437.623	29	95*	3.1	84*	3.0	1.0	1.0	2.8	1.0	15.3	3.29
437.624	37	102	2.3	89*	3.0	1.0	1.0	2.0	1.0	15.0	3.59
437.625	45	103*	3.1	91*	3.0	1.0	1.0	2.5	1.5	14.3	3.36
437.628	36	102	3.8	84	3.0	1.0	1.0	2.8	1.0	15.2	3.73
437.629	35	96*	2.1	90*	3.0	1.0	1.0	2.8	1.5	18.5	3.01
437.630B	38	97*	3.0	76*	3.0	1.0	1.0	2.8	1.0	14.9	2.89*
437.630C	37*	97	2.1	90*	3.0	1.0	1.0	3.0	1.0	12.6	2.71
437.632A	37	101	1.8	85*	3.0	1.0	1.0	2.8	1.0	19.7	3.08
437.632B	35	100*	2.8	86	3.0	1.0	1.0	3.0	2.5	14.1	3.25
437.633C	37	101*	2.3	89*	3.0	1.0	1.0	3.3	1.5	15.0	3.76*
437.633D	33	99	2.3	83*	3.0	1.0	1.0	2.8	1.5	15.2	3.54
437.634	30	101	1.8	93*	3.0	1.0	1.0	2.8	1.5	17.2	3.93
437.635A	32	100	2.6	85	3.0	1.0	1.0	2.8	2.0	15.3	3.42
437.636A	33	100	1.8*	79*	3.0	1.0	1.0	2.5	1.0	14.5	3.35*
437.636B	38	103	3.5	85	3.0	1.0	1.0	2.3	1.0	15.4	3.90
437.637	28	91*	1.5	78*	3.0	1.0	1.0	2.5	1.0	13.5	3.06
437.638	31	94*	2.0*	73	3.0	1.0	1.0	2.5	1.5	17.5	3.22
437.640A	30	99	2.0	91*	3.5	1.0	1.0	2.5	1.5	16.6	3.63

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.546	I	20.0	41.4	11.6	3.3	25.9	51.5	7.4	0.1
437.547	I	17.8	45.1	12.5	2.9	22.2	54.3	7.9	0.1
437.553	0	18.6	44.2	12.4	2.8	25.3	52.6	6.7	0.1
437.556	I	19.8	43.4	11.1	2.9	24.8	54.8	6.3	0.0
437.558	I	13.4	46.1	13.4	3.0	17.1	56.5	9.8	0.0
437.559	I	17.6	45.9	11.4	3.0	20.3	56.3	8.9	0.0
437.567	I	21.7	41.5	12.3	3.0	26.6	51.9	6.1	0.0
437.571	I	15.8	45.6	12.8	3.4	22.4	51.3	9.9	0.0
437.573A	I	18.4	45.2	11.3	2.9	23.3	53.7	8.6	0.0
437.577	I	18.8	43.8	12.0	3.6	21.0	55.5	7.7	0.1
437.584	I	19.4	43.3	10.8	3.5	31.2	47.9	6.2	0.2
437.594A	I	17.6	45.2	12.7	2.6	24.4	51.9	8.2	0.0
437.595	I	19.5	43.9	11.7	3.1	21.5	56.3	7.2	0.0
437.598B	I	18.5	43.7	14.0	3.1	22.2	52.0	8.6	0.1
437.603	I	19.5	42.5	10.8	3.4	23.2	54.6	7.8	0.1
437.607	I	18.4	44.3	11.3	2.9	22.7	55.3	7.5	0.2
437.608	I	18.5	44.8	10.9	3.0	23.0	54.7	8.1	0.1
437.609A	I	19.6	42.8	11.8	3.3	22.7	54.7	7.4	0.0
437.610A	I	17.0	46.5	11.9	3.0	24.3	52.8	7.8	0.1
437.612	I	19.7	43.2	11.9	3.1	24.8	52.2	7.6	0.2
437.613	I	19.0	44.0	11.8	2.8	21.9	55.0	8.3	0.0
437.614A	I	18.8	39.6	11.7	3.4	25.2	51.3	8.2	0.0
437.615C	I	18.4	44.2	12.6	3.2	28.4	49.5	6.0	0.0
437.616	I	17.0	45.0	12.5	3.0	19.8	55.4	9.1	0.0
437.619	I	18.4	45.8	11.7	3.1	25.3	52.6	7.0	0.1
437.621A	I	18.2	45.7	12.2	3.2	24.1	52.9	7.5	0.0
437.621B	I	18.1	42.8	12.8	3.3	23.2	52.4	8.1	0.1
437.622A	I	17.8	44.3	12.0	2.8	18.3	58.6	8.1	0.0
437.623	I	19.9	43.0	11.9	2.8	25.2	52.7	7.3	0.0
437.624	I	18.8	44.6	12.1	2.8	24.3	53.3	7.4	0.0
437.625	I	17.9	44.2	12.8	3.2	21.7	53.8	8.3	0.0
437.628	I	19.8	42.4	12.1	3.2	22.8	53.7	8.0	0.1
437.629	I	17.7	45.8	11.3	2.8	23.0	55.1	7.6	0.2
437.630B	I	18.9	44.4	11.4	2.9	24.2	54.1	7.2	0.0
437.630C	I	19.1	41.6	11.9	3.5	21.3	55.1	8.1	0.1
437.632A	I	16.7	46.5	12.3	3.0	23.4	53.8	7.2	0.1
437.632B	I	17.4	46.0	11.4	3.2	22.7	54.9	7.5	0.1
437.633C	I	17.6	45.8	12.1	2.7	25.4	51.9	7.7	0.1
437.633D	I	16.9	46.7	13.1	2.9	21.2	54.8	7.6	0.1
437.634	I	19.1	43.2	10.9	3.0	25.9	53.4	6.6	0.0
437.635A	I	17.4	47.0	13.2	2.9	21.0	55.0	7.7	0.1
437.636A	I	19.5	43.3	11.5	3.3	23.6	54.8	6.7	0.0
437.636B	I	20.1	41.7	11.4	3.3	22.9	54.5	7.7	0.0
437.637	I	17.9	44.9	11.4	3.1	22.5	55.3	7.5	0.1
437.638	I	17.0	47.2	11.2	3.0	22.9	54.3	8.5	0.0
437.640A	I	17.3	45.0	11.8	3.1	25.4	51.7	7.8	0.1

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.642	DV-2824	VIR 4672	USSR	China	1980	I
437.643A	DV-2825	VIR 4673	USSR	China	1980	I
437.645A	DV-2827	VIR 4675	USSR	China	1980	I
437.645B	(DV-2827)	(VIR 4675)	USSR	China	1980	I
437.646B	(DV-2828)	(VIR 4676)	USSR	China	1980	I
437.648A	DV-2830	VIR 4678	USSR	China	1980	I
437.650B	(DV-2832)	(VIR 4680)	USSR	China	1980	I
437.651A	DV-2833	VIR 4681	USSR	China	1980	I
437.658		VIR 1356	USSR	China	1980	I
437.660	Gun 246	VIR 5411	USSR	China	1980	0
437.661A	Gun' lin' 685	VIR 5673	USSR	China	1980	I
437.666	I vo phyn	VIR 5463	USSR	China	1980	I
437.673	Lju juj tszy	VIR 5561	USSR	China	1980	I
437.675	Man pan tszin'	VIR 5274	USSR	China	1980	I
437.677	Man tsan tszyn	VIR 5226	USSR	China	1980	I
437.678A	Mantszantszin	VIR 5128	USSR	China	1980	I
437.682A	Ni zin do	VIR 5433	USSR	China	1980	I
437.685A	Phun zhun	VIR 4890	USSR	China	1980	I
437.687	Phu sou	VIR 5225	USSR	China	1980	I
437.692	Pin din sjan	VIR 5456	USSR	China	1980	I
437.693	Pin din sjan	VIR 5461	USSR	China	1980	I
437.695A	S-185	VIR 4865	USSR	China	1980	I
437.700	Shilihuan	VIR 5637	USSR	China	1980	I
437.704	Sjao baj dou	VIR 5460	USSR	China	1980	I
437.705	Sjao baj hua	VIR 5562	USSR	China	1980	I
437.706	Sjao chej cir ja hei chi N111	VIR 1326	USSR	China	1980	I
437.713	Sjao tszin huan	VIR 5458	USSR	China	1980	I
437.714	Sjaotszinhuan N1	VIR 5489	USSR	China	1980	I
437.716A	Sjuj dja pyn da do	VIR 5438	USSR	China	1980	I
437.721B	(Sy jue tsin mao do)	(VIR 5443)	USSR	China	1980	I
437.721C	(Sy jue tsin mao do)	(VIR 5443)	USSR	China	1980	I
437.723	T'e tszja tszy	VIR 5208	USSR	China	1980	I
437.729	Tsi ti 4	VIR 5549	USSR	China	1980	I
437.733	Tszao shen ce	VIR 5399	USSR	China	1980	I
437.736	Tszi ti 5	VIR 5550	USSR	China	1980	I
437.737	Tszy hua 5	VIR 5558	USSR	China	1980	I
437.738A	Tszy hua tso tszy	VIR 5459	USSR	China	1980	I
437.738B	(Tszy hua tso tszy)	(VIR 5459)	USSR	China	1980	I
437.739	Tszyn' e dou	VIR 5279	USSR	China	1980	I
437.741	Tszy nua N3	VIR 5403	USSR	China	1980	I
437.755		VIR 1166	USSR	China	1980	I
437.756B		(VIR 1179)	USSR	China	1980	I
437.757		VIR 1182	USSR	China	1980	I
437.760		VIR 1195	USSR	China	1980	I
437.762		VIR 1218	USSR	China	1980	I
437.763		VIR 1233	USSR	China	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.642	I	P	G	E	N	Br	D	Y	Lbf			
437.643A	I	P	G	E	Ssp	Br	S	Y	Y			
437.645A	I	Dp	T	E	N	Br	I	Y	Br			
437.645B	I	Dp	T	E	N	Br	I	Y	Br			
437.646B	I	P	G	E	N	Br	D	Y	Lbf			
437.648A	I	P	G	E	N	Dbr	S	Y	Ib			
437.650B	I	P	T	E	Ssp	Br	D	Y	Br			
437.651A	I	P	G	E	N	Br	S	Y	G			
437.658	I	P	T	A	Sp	Bl	S	Bl	Bl			Sw
437.660	O	W	G	E	N	Br	I	Y	Y			
437.661A	I	Pth	T	A	Sp	Bl	B	Bl	Bl			Sw
437.666	I	P	G	E	N	Br	S	Y	Ib			
437.673	I	P	G	E	Ssp	Br	S	Y	Y		Na	
437.675	I	W	G	E	N	Br	I	Y	Y			
437.677	I	W	G	E	N	Br	I	Y	Y			
437.678A	I	P	G	E	N	Tn	D	Y	Y			
437.682A	I	P	T	E	Ssp	Br	S	Br	Br			
437.685A	I	P	G	E	N	Br	D	Y	Ib			
437.687	I	P	G	E	N	Tn	D	Y	Y			
437.692	I	P	G	E	N	Br	I	Y	Ib			
437.693	I	P	G	E	N	Tn	S	Y	Y			
437.695A	I	P	T	A	Ssp	Br	I	Y	Br			
437.700	I	W	G	E	N	Br	S	Y	Bf			
437.704	I	P	G	E	Ssp	Tn	S	Y	Y			
437.705	I	P	T	E	N	Br	S	Y	Bl			
437.706	I	W	G	E	N	Dbr	S	Y	Bf			
437.713	I	W	G	E	N	Br	S	Y	Y			
437.714	I	W	G	E	N	Dbr	S	Y	Bf			
437.716A	I	P	G	Sa	Ssp	Br	I	Y	Bf			
437.721B	I	P	T	E	N	Tn	D	Lgn	Br			
437.721C	I	P	T	E	N	Br	S	Lgn	Lgn			
437.723	I	W	G	E	Ssp	Bl	S	Y	Y		Na	
437.729	I	P	G	E	N	Br	I	Y	Ib			
437.733	I	P	-	-	G	Tn	I	Y	Br			
437.736	I	W	G	E	N	Br	S	Y	Y			
437.737	I	P	G	E	N	Br	S	Y	Y			
437.738A	I	P	G	E	N	Dbr	S	Y	Y			
437.738B	I	P	G	E	N	Dbr	S	Y	Bf			
437.739	I	W	G	E	N	Br	S	Y	Y			
437.741	I	P	G	E	N	Br	I	Y	Y			
437.755	I	P	Ng	E	N	Br	D	Y	Bl			
437.756B	I	P	T	E	Ssp	Br	D	Y	Br			
437.757	I	W	G	E	N	Bl	D	Y	Y			
437.760	I	P	T	E	Ssp	Br	D	Y	Bl			
437.762	I	W	G	E	N	Dbr	S	Y	Bf			
437.763	I	W	G	E	N	Dbr	S	Y	Bf			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.642	42	102*	2.8	97*	3.0	1.0	1.0	2.3	1.5	14.6	3.38*
437.643A	35	101	2.3*	81*	3.0	1.0	1.0	2.8	1.0	20.9	3.66
437.645A	31	95*	2.7	82*	3.0	1.0	1.0	2.8	1.5	15.9	3.62*
437.645B	35	102*	3.0	86*	3.0	1.0	1.0	2.8	1.5	15.5	3.25
437.646B	42	103*	3.0	101*	4.0	1.0	1.0	2.5	1.5	14.9	3.37
437.648A	37	101*	1.5	86*	3.0	1.0	1.5	2.0	1.0	15.4	3.40
437.650B	38	101*	1.3	87*	3.0	1.0	1.0	2.3	2.5	15.8	3.01*
437.651A	34*	103	2.8	107*	4.0	1.0	1.0	3.0	2.5	16.3	3.20
437.658	42	100	4.5	66*	4.5	1.5	2.5*	2.0	-	4.4	1.72*
437.660	28	87*	1.5	78*	3.0	1.0	1.0	2.3	1.0	13.8	2.89*
437.661A	41	96*	3.1*	55	3.5	1.0	1.0	2.0	-	5.2	2.07
437.666	40	103	3.4*	84	3.0	1.0	1.0	2.3	1.0	14.3	4.03
437.673	27	95	3.0	84*	3.0	1.0	1.0	3.0	1.0	19.8	3.17
437.675	27	94*	1.8	91*	3.0	1.0	1.0	2.5	1.0	16.5	2.91*
437.677	27	96*	2.6	94*	3.0	1.0	1.0	2.5	1.0	18.1	3.15
437.678A	45	104	3.0	89*	3.0	1.0	1.0	2.3	1.0	18.6	3.71
437.682A	51	108*	3.0	106*	2.5	2.0	2.0	2.3	-	18.4	2.59
437.685A	37	103	2.8	104	3.0	1.5	1.5	2.5	1.0	17.6	3.20*
437.687	44	102*	3.3	98	3.0	1.0	1.0	2.0	1.5	18.5	3.51
437.692	35	100	3.5	88	3.0	1.0	1.0	2.5	1.0	16.0	3.93*
437.693	35	100	4.0	69*	3.0	1.0	1.0	2.5	1.0	13.6	3.41
437.695A	35	100	4.3	95*	2.0	1.5	1.5	2.3	2.0	14.4	2.73*
437.700	30	96*	2.0	82	3.0	1.0	1.0	2.8	1.0	18.7	3.29
437.704	34	100	4.3	68*	2.0	1.0	1.0	2.8	1.5	12.2	3.28
437.705	28	98*	2.5	84*	3.0	1.0	1.0	3.0	1.0	16.1	3.13
437.706	32	96*	2.0*	69*	3.0	1.0	1.0	2.5	1.0	16.7	3.39*
437.713	29	100*	1.5	81*	3.0	1.0	1.0	3.0	1.5	16.8	3.27*
437.714	40	102*	2.0*	82*	3.0	1.0	1.0	2.5	1.0	14.2	3.65
437.716A	53	104*	3.3	87	2.0	3.0*	4.5	2.0	3.0*	10.8	1.90*
437.721B	44	99*	2.1	86*	2.0	1.0	1.5	2.3	1.0	16.8	3.38*
437.721C	42	98*	2.3	84*	2.0	1.0	1.5	2.3	1.0	16.4	3.35*
437.723	34	102	2.6	95*	3.0	1.0	1.0	2.3	1.0	13.9	3.52*
437.729	35	101	3.8	86*	3.0	1.0	1.0	2.8	1.0	15.5	3.57
437.733	44	98	1.5	34	1.0	1.5	3.0*	2.3	2.0*	14.1	1.31
437.736	29	99	1.8	87*	3.0	1.0	1.0	3.0	1.0	21.9	3.76
437.737	41	98*	1.6*	77*	3.0	1.0	1.0	3.3	2.0	17.3	3.63
437.738A	47	105*	4.0	87*	3.0	1.0	1.0	2.5	1.0	16.6*	3.89
437.738B	37	103	2.3*	76	2.0	1.0	1.0	2.5	1.0	15.0	3.77
437.739	34	101	3.1	81*	3.0	1.0	1.0	2.5	1.0	20.3	3.24
437.741	34	98*	1.8	76*	3.0	1.0	1.0	2.5	1.5	16.3	3.70*
437.755	37	102	1.8	92*	3.0	1.0	1.0	3.0	2.0	17.3	3.19*
437.756B	35	97*	2.3*	77*	3.0	1.0	1.0	2.3	2.5	14.5	3.16*
437.757	30	96	1.8*	79*	3.0	1.5	2.0	3.5	1.5	18.3	2.99*
437.760	37	102*	2.5	112*	4.0	1.0	1.5	2.3	2.0	14.3	3.58
437.762	37	98*	2.0*	71*	3.0	1.0	1.0	3.0	1.0	17.4	3.51*
437.763	31	103	2.8	84*	3.0	1.0	1.0	2.8	1.0	16.8	3.48

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.642	I	18.4	43.0	12.3	3.0	22.8	53.2	8.5	0.1
437.643A	I	18.0	44.8	11.8	2.8	24.4	53.9	6.8	0.0
437.645A	I	19.4	43.2	11.3	3.0	23.0	54.5	8.0	0.1
437.645B	I	18.1	43.7	11.5	2.9	21.6	55.1	8.6	0.1
437.646B	I	17.8	43.9	12.3	3.1	22.4	53.6	8.3	0.0
437.648A	I	18.9	45.3	11.3	2.6	22.7	55.8	7.4	0.0
437.650B	I	17.6	46.9	10.6	2.8	23.7	55.6	7.3	0.0
437.651A	I	18.8	44.7	11.5	3.4	22.9	54.9	7.1	0.0
437.658	I	12.7	45.0	13.5	3.1	15.9	56.7	10.6	0.1
437.660	O	19.1	42.9	12.6	3.2	20.7	55.1	8.2	0.1
437.661A	I	13.6	45.9	13.3	3.0	16.9	56.8	9.8	0.0
437.666	I	19.3	42.1	11.7	3.5	23.4	53.5	7.8	0.0
437.673	I	18.5	44.1	12.0	3.5	23.6	53.5	7.3	0.0
437.675	I	21.3	40.7	11.2	3.3	26.3	52.5	6.6	0.0
437.677	I	21.5	41.3	11.3	3.5	28.2	50.5	6.3	0.0
437.678A	I	17.5	44.6	11.6	2.7	24.6	52.4	8.5	0.1
437.682A	I	16.6	43.3	11.6	2.9	34.0	45.1	6.2	0.1
437.685A	I	15.9	45.5	12.4	2.9	29.6	48.5	6.5	0.0
437.687	I	18.0	44.4	11.7	2.8	27.1	50.4	7.7	0.1
437.692	I	19.9	41.9	11.6	3.3	24.2	53.7	7.0	0.1
437.693	I	19.7	41.2	11.4	2.8	22.3	55.8	7.8	0.0
437.695A	I	17.8	43.5	12.9	2.5	21.3	55.7	7.6	0.0
437.700	I	19.8	43.2	11.2	2.9	33.4	46.0	6.3	0.0
437.704	I	19.1	42.1	11.6	2.7	20.7	56.9	8.1	0.0
437.705	I	19.0	43.6	10.8	3.6	23.1	54.8	7.6	0.0
437.706	I	19.9	41.8	10.7	3.7	30.1	48.4	6.9	0.0
437.713	I	18.1	45.4	10.9	2.8	29.4	50.8	6.1	0.0
437.714	I	20.1	41.2	11.0	3.0	23.9	54.9	7.1	0.0
437.716A	I	13.8	48.2	11.5	3.1	23.4	52.4	9.3	0.1
437.721B	I	17.6	41.4	12.5	3.0	25.2	50.7	8.5	0.0
437.721C	I	17.4	41.9	12.6	3.4	28.2	47.5	8.1	0.0
437.723	I	19.0	41.8	12.3	3.2	22.0	54.6	7.7	0.1
437.729	I	20.0	41.3	11.4	3.1	24.3	53.6	7.4	0.0
437.733	I	16.9	43.8	11.7	2.7	30.7	47.3	7.6	0.0
437.736	I	20.7	41.9	10.9	3.1	29.0	51.0	5.9	0.0
437.737	I	19.0	43.2	13.6	2.8	19.8	53.7	9.9	0.1
437.738A	I	18.6	42.3	11.8	2.8	24.9	53.1	7.3	0.0
437.738B	I	19.3	42.1	11.0	3.2	20.7	56.7	8.4	0.0
437.739	I	17.9	44.6	11.6	3.6	26.5	51.0	7.1	0.0
437.741	I	18.3	45.2	11.2	2.8	25.4	53.9	6.5	0.0
437.755	I	18.1	44.6	11.3	3.0	22.9	55.1	7.6	0.0
437.756B	I	17.6	44.8	11.0	2.8	21.6	55.7	8.8	0.0
437.757	I	17.7	45.8	12.7	3.1	22.6	54.0	7.4	0.1
437.760	I	17.2	45.4	11.5	2.7	24.0	53.1	8.4	0.0
437.762	I	20.3	41.2	10.4	3.6	29.3	49.5	7.2	0.0
437.763	I	19.8	43.5	11.1	3.0	26.4	52.3	7.1	0.0

Table 1.2
Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.771		VIR 1281	USSR	China	1980	I
437.774B		(VIR 1293)	USSR	China	1980	I
437.774C		(VIR 1293)	USSR	China	1980	I
437.778		VIR 1317	USSR	China	1980	I
437.779		VIR 1318	USSR	China	1980	I
437.780		VIR 1319	USSR	China	1980	I
437.781		VIR 1330	USSR	China	1980	I
437.782		VIR 1335	USSR	China	1980	I
437.783		VIR 1338	USSR	China	1980	I
437.785		VIR 1352	USSR	China	1980	I
437.786		VIR 1355	USSR	China	1980	I
437.807		VIR 5705	USSR	China	1980	I
437.808		VIR 5706	USSR	China	1980	I
437.809		VIR 5707	USSR	China	1980	I
437.815	An'dunscaja	VIR 900	USSR	China	1980	I
437.819	Charbin 277/K	VIR 4441	USSR	China	1980	I
437.821	Charbin 338/C	VIR 5026	USSR	China	1980	I
437.822	Charbin 343/C	VIR 5030	USSR	China	1980	I
437.823	Charbin 344/C	VIR 5031	USSR	China	1980	I
437.824	Charbin 360/C	VIR 5033	USSR	China	1980	I
437.829	Chuan dou	VIR 212	USSR	China	1980	I
437.833	Curo sengocu	VIR 3742	USSR	China	1980	I
437.835	DV-31	VIR 4527	USSR	China	1980	I
437.837A	DV-212	VIR 4417	USSR	China	1980	I
437.837B	(DV-212)	(VIR 4417)	USSR	China	1980	I
437.846	DV-1355	VIR 4590	USSR	China	1980	I
437.847A	DV-1532	VIR 5018	USSR	China	1980	I
437.847B	(DV-1532)	(VIR 5018)	USSR	China	1980	I
437.849	DV-2345	VIR 4588	USSR	China	1980	I
437.851A	DV-2369/2	VIR 4609	USSR	China	1980	I
437.853A	DV-2679	VIR 4614	USSR	China	1980	I
437.854	DV-2696	VIR 4615	USSR	China	1980	I
437.855	DV-2714	VIR 4617	USSR	China	1980	I
437.857B	(DV-2784)	(VIR 4632)	USSR	China	1980	I
437.858	DV-2792	VIR 4640	USSR	China	1980	I
437.859	DV-2835	VIR 4683	USSR	China	1980	I
437.860A	DV-2836	VIR 4684	USSR	China	1980	I
437.861	DV-2838	VIR 4686	USSR	China	1980	I
437.862	DV-2840	VIR 4688	USSR	China	1980	I
437.864A	DV-2842	VIR 4690	USSR	China	1980	I
437.866	DV-2845	VIR 4693	USSR	China	1980	I
437.868	DV-2850	VIR 4698	USSR	China	1980	I
437.869	DV-2852	VIR 4700	USSR	China	1980	I
437.875A	Elita 691	VIR 4306	USSR	China	1980	I
437.877A	Elita 694	VIR 4309	USSR	China	1980	I
437.878A	Elita 695	VIR 4310	USSR	China	1980	I

Table 2.2
Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.771	I	P	T	E	N	Br	S	Y	Bl			
437.774B	I	P	T	E	N	Tn	S	Y	Br			
437.774C	I	P	T	E	N	Tn	S	Y	Y			
437.778	I	P	T	E	N	Tn	S	Bl	Bl			
437.779	I	W	T	E	Ssp	Bl	S	Gn	Bl	Gncot		
437.780	I	W	T	E	Ssp	Bl	S	Bl	Bl	Gncot		
437.781	I	P	Ng	E	N	Br	D	Bl	Bl			
437.782	I	P	T	E	N	Br	D	Y	Y			
437.783	I	P	T	A	Sp	Dbr	I	Bl	Bl			Sw
437.785	I	P	G	E	N	Bl	D	Y	G			
437.786	I	P	Ng	E	N	Tn	D	Rbr	Rbr			
437.807	I	W	G	E	N	Br	I	Y	Bf			
437.808	I	P	G	E	N	Br	I	Y	Y			
437.809	I	W	G	E	N	Br	S	Y	Y			
437.815	I	W	T	E	Ssp	Br	S	Br	Bl	Saddle		
437.819	I	W	G	E	N	Br	S	Y	Y			
437.821	I	P	G	E	N	Br	S	Y	Bf			
437.822	I	P	G	E	N	Br	S	Y	lb			
437.823	I	P	G	E	N	Br	S	Y	Bf			
437.824	I	P	T	E	N	Bl	I	Br	Br			
437.829	I	W	G	E	N	Br	S	Y	Bf			
437.833	I	P	G	E	N	Br	I	Y	Y			
437.835	I	P	T	E	N	Br	I	Y	Bl			
437.837A	I	P	G	E	Ssp	Br	I	Y	Y			
437.837B	I	P	G	E	N	Br	D	Y	Y			
437.846	I	P	Ng	E	Ssp	Tn	D	Rbr	Rbr			
437.847A	I	P	G	E	N	Dbr	I	Y	lb			
437.847B	I	W	G	E	N	Dbr	S	Y	Bf			
437.849	I	P	T	E	Ssp	Br	I	Y	Br			
437.851A	I	W	G	E	N	Br	I	Y	Y			
437.853A	I	W	G	E	N	Dbr	S	Y	Bf			
437.854	I	W	G	E	N	Br	S	Y	Bf			
437.855	I	W	T	E	N	Br	S	Y	Bl			
437.857B	I	P	T	E	N	Tn	D	Y	Br			
437.858	I	P	G	E	N	Br	I	Y	Bf			
437.859	I	P	G	E	N	Br	I	Y	Y			
437.860A	I	P	G	E	Ssp	Br	S	Y	Y			
437.861	I	P	G	E	N	Br	S	Y	Y			
437.862	I	P	G	E	N	Br	S	Y	Y			
437.864A	I	W	G	E	N	Br	D	Y	Bf			
437.866	I	P	T	E	Ssp	Br	D	Y	Y			
437.868	I	P	Lt	E	Ssp	Br	D	Y	Br			
437.869	I	W	G	E	N	Dbr	D	Y	Bf			
437.875A	I	P	T	E	N	Br	D	Y	Y			
437.877A	I	W	G	E	N	Dbr	S	Y	Bf			
437.878A	I	P	G	E	N	Br	I	Y	G			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.771	35	103*	2.0	110*	3.0	1.0	1.0	3.3*	1.0	16.9	3.08
437.774B	39	101	3.3	91	3.5	1.0	1.0	3.5	2.0	16.9	3.55*
437.774C	37	100	1.8	83	2.5	1.0	1.0	3.3	1.0	13.8	3.26*
437.778	40	102*	3.5	92*	4.0	1.0	1.0	2.0	-	12.4	3.29*
437.779	35	94	1.3	77*	3.0	1.0	1.0	2.8	2.0	15.1	2.81
437.780	35	94	1.1	78	3.0	1.0	1.0	2.5	-	15.4	3.17
437.781	42	101*	2.9*	86*	3.0	1.0	1.0	2.0	-	12.1	3.25*
437.782	41	102*	2.7	88*	3.0	1.5	1.5	2.8	2.0	15.4	3.45*
437.783	43	100	4.3	51	4.5	1.5	2.5*	1.8	-	4.3	1.67*
437.785	27	98	2.3	78	3.0	1.0	1.0	2.8	1.0	15.4	3.67
437.786	39	97*	2.1	107*	4.0	1.0	1.5	2.3	-	12.6	3.15*
437.807	30	95*	2.0	94*	3.0	1.0	1.0	3.0	1.0	17.5	3.06*
437.808	27	96*	2.3*	87*	3.0	1.0	1.0	2.5	1.0	16.6	3.49*
437.809	29	95*	1.5	75*	3.0	1.0	1.0	2.5	1.0	20.0	3.17*
437.815	35	98	2.0	100*	3.0	1.0	1.5	2.5	-	19.9	3.09*
437.819	33	99	3.3	80*	3.0	1.0	1.0	2.5	1.0	15.7	3.54*
437.821	35	101*	3.5	73*	3.0	1.0	1.5	2.0	1.0	13.4	3.47*
437.822	28	92*	1.3	62*	2.5	1.0	1.0	2.8	1.0	15.9	3.12*
437.823	29	99*	1.8	46	3.0	1.0	1.0	2.5	1.0	10.7	2.87*
437.824	37	95*	2.1*	81*	3.0	1.0	1.0	2.5	-	12.9	3.18*
437.829	34	101	1.6*	75*	3.0	1.0	1.5	2.3	1.0	14.4	3.48*
437.833	33	97*	2.3	82*	3.0	1.0	1.0	2.8	1.5	17.4	3.37*
437.835	28	97*	2.3	77*	3.0	1.0	1.0	2.8	1.0	16.4	3.17*
437.837A	36	101*	3.0	113	4.0	1.0	1.5	2.8	1.5	13.8	3.34*
437.837B	42	101*	2.2	89*	3.0	1.5	2.5*	2.5	2.0	13.3	3.32*
437.846	42	100*	2.3	106*	4.0	1.0	1.0	2.3	-	12.9	3.10*
437.847A	35	100	2.3*	70*	3.0	1.0	1.0	2.5	1.0	14.0	3.89
437.847B	34	98	2.1*	75*	2.5	1.0	1.5	2.3	1.0	13.0	3.33
437.849	33	96*	1.8	82*	3.0	1.0	1.0	3.3	1.0	16.4	3.49*
437.851A	38	104	2.8	79*	3.0	1.0	1.0	3.0	2.0	21.6	4.04*
437.853A	40	101	2.1*	80*	3.0	1.0	1.0	2.5	1.0	16.7	3.54
437.854	35	98*	2.2	81	3.0	1.0	1.0	3.0	1.0	17.5	3.28*
437.855	35	98*	3.3	108*	3.5	1.0	1.0	3.3*	1.5	14.9	3.29*
437.857B	30	93*	1.8	80	3.0	1.0	1.0	2.5	1.0	16.0	3.05*
437.858	41	103*	2.3*	81*	3.0	1.0	1.0	3.3	1.0	16.9	3.32*
437.859	34	101*	2.3	77*	3.0	1.0	1.0	3.0	2.0	19.0	2.99
437.860A	35	102*	2.8	92	3.5	1.0	1.0	2.8	1.0	14.7	3.19*
437.861	35	103*	2.8	97*	3.0	1.0	1.0	2.8	1.5	14.9	3.33*
437.862	36	104*	3.5	110*	3.5	1.0	1.0	2.8	1.5	15.3	3.07*
437.864A	44	103*	2.5	102*	3.0	1.0	1.0	2.8	1.0	15.0	3.33*
437.866	36	101*	2.3	89*	3.0	1.0	1.0	2.8	2.0	15.3	3.18*
437.868	42	105	2.3	98*	3.0	1.0	1.0	2.5	2.5	12.9	3.17
437.869	39	100*	2.0	79	3.0	1.0	1.0	2.8	1.0	14.8	3.92
437.875A	29	96*	1.9	83*	3.0	1.0	1.5	2.5	2.0	14.8	3.18*
437.877A	29	96*	1.8*	70*	3.0	1.0	1.0	2.8	1.0	16.8	3.45*
437.878A	36	99	2.8	88	3.0	1.0	1.0	3.0	1.5	17.2	3.23

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.771	I	18.9	44.4	11.0	3.5	28.9	49.6	6.7	0.1
437.774B	I	18.4	45.1	11.3	3.0	25.0	52.1	8.5	0.0
437.774C	I	18.0	44.7	12.6	2.7	18.9	56.4	9.1	0.1
437.778	I	17.2	45.0	10.3	2.8	20.3	57.0	9.4	0.0
437.779	I	18.7	44.9	11.7	3.1	30.4	47.6	7.1	0.1
437.780	I	18.7	44.5	11.5	2.9	30.6	47.8	7.1	0.0
437.781	I	16.6	44.5	12.5	2.9	20.5	55.5	8.3	0.1
437.782	I	16.0	45.4	12.9	2.7	20.4	53.6	10.2	0.1
437.783	I	12.5	45.2	13.3	3.0	15.4	56.8	11.5	0.0
437.785	I	19.9	41.9	10.6	3.0	23.1	55.9	7.2	0.1
437.786	I	15.9	46.6	12.0	3.3	19.1	57.8	7.7	0.0
437.807	I	20.6	40.1	10.8	3.8	31.2	47.7	6.3	0.0
437.808	I	20.6	42.0	10.8	3.3	24.2	54.9	6.6	0.1
437.809	I	19.6	42.8	11.3	3.9	30.2	48.4	6.1	0.1
437.815	I	18.4	46.1	11.9	3.4	29.2	49.1	6.3	0.1
437.819	I	19.6	43.2	11.7	2.9	25.7	53.1	6.5	0.0
437.821	I	18.4	43.1	11.5	3.2	21.8	54.7	8.5	0.2
437.822	I	18.0	44.9	12.1	3.4	20.8	55.3	8.1	0.2
437.823	I	17.6	44.8	13.6	3.7	18.8	55.3	8.3	0.2
437.824	I	17.1	45.0	13.4	3.0	17.3	57.0	8.9	0.2
437.829	I	19.5	42.0	11.4	3.6	24.3	52.5	7.9	0.1
437.833	I	18.5	44.5	11.8	3.2	24.1	53.4	7.3	0.1
437.835	I	19.6	43.1	11.6	3.2	24.2	53.1	7.6	0.0
437.837A	I	18.5	43.3	11.7	3.3	24.5	52.7	7.6	0.2
437.837B	I	17.6	45.3	12.9	2.9	20.3	55.1	8.4	0.2
437.846	I	15.3	46.5	11.8	3.2	19.1	57.5	8.1	0.2
437.847A	I	20.0	42.2	11.5	3.3	23.7	53.6	7.6	0.1
437.847B	I	20.3	40.8	11.0	3.6	23.4	53.8	7.9	0.1
437.849	I	18.2	45.7	11.5	3.1	22.6	55.3	7.4	0.1
437.851A	I	17.8	44.9	10.7	3.3	24.9	52.8	8.1	0.2
437.853A	I	20.7	40.3	10.6	3.4	32.8	46.0	7.0	0.1
437.854	I	19.5	42.6	11.1	3.4	26.8	51.8	6.5	0.2
437.855	I	19.7	43.1	12.0	3.3	24.7	53.1	6.7	0.1
437.857B	I	17.4	47.1	12.9	2.9	24.9	51.7	7.3	0.2
437.858	I	18.7	43.9	12.3	2.8	30.5	46.8	7.3	0.1
437.859	I	17.8	45.1	11.5	2.7	27.7	51.2	6.8	0.0
437.860A	I	18.5	43.2	11.1	2.9	23.9	53.8	8.2	0.1
437.861	I	18.1	43.8	11.1	2.9	23.4	54.0	8.4	0.1
437.862	I	18.5	44.1	11.3	3.2	26.6	50.7	7.8	0.1
437.864A	I	17.8	45.0	11.5	3.3	24.8	52.2	7.9	0.2
437.866	I	17.5	45.6	11.5	2.9	22.2	54.3	8.7	0.0
437.868	I	17.5	44.7	11.4	2.9	19.7	56.8	9.1	0.1
437.869	I	19.3	42.6	11.9	2.8	21.2	55.7	8.3	0.0
437.875A	I	17.0	46.1	11.1	3.1	27.4	50.9	7.3	0.0
437.877A	I	20.2	43.1	11.2	3.2	24.2	53.8	7.3	0.0
437.878A	I	18.9	45.1	11.9	3.0	23.4	54.3	7.3	0.1

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.886A	Elita 716	VIR 4321	USSR	China	1980	I
437.887A	Elita 717	VIR 4322	USSR	China	1980	I
437.888A	Elita 718	VIR 4323	USSR	China	1980	I
437.890A	Elita 729	VIR 4327	USSR	China	1980	I
437.892	Elita 737	VIR 4329	USSR	China	1980	I
437.895A	Elita 745	VIR 4332	USSR	China	1980	I
437.895B	(Elita 745)	(VIR 4332)	USSR	China	1980	I
437.895C	(Elita 745)	(VIR 4332)	USSR	China	1980	I
437.901	Elita 762	VIR 4340	USSR	China	1980	I
437.905	Gunzulinscaja paj mi	VIR 425	USSR	China	1980	I
437.907	Hsiao cheng tsu N262	VIR 666	USSR	China	1980	I
437.909A	Huang tou	VIR 403	USSR	China	1980	I
437.910C	(Huang tou)	(VIR 719)	USSR	China	1980	I
437.911	Manczurscaja	VIR 4597	USSR	China	1980	I
437.912	Manczurscaja 335/C	VIR 4592	USSR	China	1980	I
437.914	Manczurscaja 355/C	VIR 4602	USSR	China	1980	I
437.918	Polucul'turnaja C10	VIR 3980	USSR	China	1980	I
437.920C	(Sansindunscaja)	(VIR 1371)	USSR	China	1980	I
437.922	Shuancnsjanscaja	VIR 4451	USSR	China	1980	I
437.928		VIR 315	USSR	China	1980	I
437.929		VIR 316	USSR	China	1980	I
437.930		VIR 319	USSR	China	1980	I
437.934A		VIR 429	USSR	China	1980	I
437.934B		(VIR 429)	USSR	China	1980	I
437.937		VIR 495	USSR	China	1980	I
437.938		VIR 504	USSR	China	1980	I
437.942		VIR 564	USSR	China	1980	I
437.945A		VIR 746	USSR	China	1980	I
437.945B		(VIR 746)	USSR	China	1980	I
437.948		VIR 827	USSR	China	1980	I
437.949		VIR 834	USSR	China	1980	I
437.951		VIR 970	USSR	China	1980	I
437.952		VIR 1368	USSR	China	1980	I
437.953A		VIR 1385	USSR	China	1980	I
437.953B		(VIR 1385)	USSR	China	1980	I
437.955B		(VIR 1389)	USSR	China	1980	I
437.956A		VIR 1390	USSR	China	1980	I
437.958		VIR 1403	USSR	China	1980	I
437.959		VIR 1407	USSR	China	1980	I
437.960		VIR 1410	USSR	China	1980	I
437.962		VIR 1413	USSR	China	1980	I
437.963		VIR 1414	USSR	China	1980	I
437.965		VIR 1421	USSR	China	1980	I
437.966		VIR 1425	USSR	China	1980	I
437.967		VIR 1436	USSR	China	1980	I
437.968		VIR 1445	USSR	China	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.886A	I	W	G	E	N	Br	I	Y	Y			
437.887A	I	W	G	E	N	Bl	S	Y	Y			
437.888A	I	W	G	E	N	Br	I	Y	Y			
437.890A	I	P	T	E	N	Tn	D	Y	Br			
437.892	I	P	G	E	N	Br	I	Y	Bf			
437.895A	I	P	G	E	N	Br	S	Y	Bf			
437.895B	I	P	G	E	N	Bl	I	Y	Bf			
437.895C	I	P	G	E	N	Bl	I	Y	Bf			
437.901	I	P	T	E	N	Br	D	Y	Br			
437.905	I	P	Ng	E	N	Tn	I	Rbr	Rbr			
437.907	I	W	T	E	N	Br	S	Br	Br			
437.909A	I	W	Lt	E	N	Br	S	Y	Bl			
437.910C	I	P	T	E	N	Br	D	Y	Y			
437.911	I	P	T	E	Ssp	Tn	S	Y	Y			
437.912	I	W	G	E	N	Br	S	Y	Y			
437.914	I	P	T	E	Ssp	Br	I	Y	Br			
437.918	I	Pth	T	A	Sp	Dbr	B	Bl	Bl			Sw
437.920C	I	W	G	E	N	Bl	S	Y	Bf			
437.922	I	P	G	E	N	Br	S	Y	G			
437.928	I	W	T	E	N	Br	S	Br	Br			Dab
437.929	I	P	T	E	N	Br	I	Y	Y			
437.930	I	P	T	E	N	Br	I	Y	Y			
437.934A	I	P	T	E	Ssp	Br	D	Lgn	Br			
437.934B	I	P	T	E	Ssp	Br	D	Y	Br			
437.937	I	W	T	E	N	Bl	S	Bl	Bl	Gncot		
437.938	I	P	T	E	N	Bl	S	Gn	Br			
437.942	I	W	T	E	N	Bl	S	Bl	Bl	Gncot		
437.945A	I	P	T	E	Ssp	Bl	I	Gn	Gn			
437.945B	I	W	G	E	N	Br	S	Y	Bf			
437.948	I	P	Lt	E	N	Tn	S	Bl	Bl			
437.949	I	P	Lt	E	N	Tn	S	Bl	Bl			
437.951	I	P	G	E	N	Br	I	Y	Bf			
437.952	I	P	T	E	Ssp	Br	D	Y	Br			
437.953A	I	P	T	E	N	Br	S	Y	Bl			
437.953B	I	P	T	E	N	Br	S	Y	Bl			
437.955B	I	P	G	E	N	Br	S	Y	Y			
437.956A	I	P	T	E	N	Tn	I	Y	Br			
437.958	I	P	T	E	Ssp	Br	D	Y	Bl			
437.959	I	W	G	E	N	Bl	S	Y	Y			
437.960	I	P	G	E	N	Tn	D	Y	Bf			
437.962	I	P	T	E	N	Br	I	Y	Bl			
437.963	I	P	T	E	N	Br	I	Y	Bl			
437.965	I	P	T	E	N	Br	I	Y	Bl			
437.966	I	P	Ng	E	Ssp	Br	I	Y	Br			
437.967	I	P	G	E	N	Br	D	Y	Y			
437.968	I	P	G	E	N	Tn	I	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
						(score)	(score)				
437.886A	27	100	2.3	89*	3.0	1.5	1.5	3.0	1.5	18.5	3.33
437.887A	36	103*	2.8	92*	3.0	1.0	1.0	3.3	1.5	14.7	3.75
437.888A	30	94*	2.3	100*	3.0	1.0	1.0	3.0	1.5	19.5	3.19*
437.890A	31	91*	2.1*	62	3.0	1.0	1.0	2.3	1.0	15.4	2.75*
437.892	36	96*	2.6	91*	3.0	1.0	1.0	3.3	1.5	17.8	3.08
437.895A	29	95*	2.3*	75*	2.0	1.0	1.0	3.0	1.5	15.6	3.05*
437.895B	34	95*	2.3	83	3.0	1.0	1.0	3.3	1.5	15.1	3.31*
437.895C	38	100*	2.1*	92*	3.0	1.0	1.0	2.8	1.5	13.9	3.42*
437.901	43	104*	2.8	91*	3.0	1.0	1.0	3.0	3.0*	12.9	3.44
437.905	41	98*	2.5	106*	4.0	1.0	1.5	2.5	-	12.6	3.13*
437.907	33	98	1.3	90*	3.5	1.0	1.5	2.5	-	14.7	3.20*
437.909A	32	99	1.7	83*	3.0	1.0	1.5	2.3	2.0	18.9	3.37*
437.910C	33	96*	1.5	88*	3.5	1.0	1.0	2.0	1.0	12.8	3.24
437.911	38	97	3.6	88*	3.0	1.0	1.0	2.8	3.0	11.4	2.75
437.912	30	96*	2.3*	77*	3.0	1.0	1.0	2.5	1.5	16.0	3.41*
437.914	36	100*	2.3	88*	3.0	1.0	1.0	3.5	1.5	17.1	3.39*
437.918	39	96	3.1	58*	3.5	1.0	1.0	2.0	-	5.3	2.20
437.920C	36	99	2.5	81*	3.0	1.0	1.0	2.8	2.0	16.5	3.72*
437.922	32	96	1.8	85*	3.0	1.0	1.0	2.5	1.0	16.2	3.37
437.928	40	101*	3.0*	79*	3.0	1.0	1.5	2.0	-	10.9	2.56*
437.929	37	103*	2.5	89*	3.0	1.0	1.0	2.8	2.0	16.5	2.95*
437.930	36	102	2.5	85*	3.0	1.0	1.0	2.3	2.5	16.8	3.54
437.934A	41	101*	3.3	99	3.0	1.0	1.0	2.3	2.0	11.9	2.93
437.934B	36	100	1.0	90*	3.0	1.0	1.0	2.0	3.5	15.6	3.23
437.937	36	95*	1.3	84*	3.0	1.0	1.0	2.3	-	14.8	2.84*
437.938	36	92*	1.5	71*	3.0	1.0	1.0	2.5	4.5	10.6	2.42*
437.942	36	94	1.1	74*	3.0	1.0	1.0	2.5	-	14.8	3.00
437.945A	29	94*	2.5	79*	3.0	1.0	1.0	2.5	2.0	13.9	3.42
437.945B	34	101	1.6*	74*	3.0	1.0	1.5	2.3	1.0	14.5	3.85
437.948	36	99	2.5	83*	4.0	1.0	1.5	2.3	-	9.1	2.71*
437.949	33	95	3.6	115*	4.0	1.0	1.0	2.3	-	9.4	2.76*
437.951	34	102*	3.0	74	2.0	1.0	1.0	2.5	2.0	16.2	3.57*
437.952	29	102*	3.3*	92	3.0	1.0	1.0	2.8	1.5	14.9*	3.35*
437.953A	32	93*	2.6	100*	3.0	1.0	1.0	3.0	2.5	15.4	2.84*
437.953B	44	98*	3.6	83*	3.0	1.0	1.0	2.5	1.5	11.3	2.89*
437.955B	39	100	2.6	94*	3.0	1.0	1.0	2.5	1.0	15.3	3.67*
437.956A	39	99	2.3	104*	3.0	1.0	1.0	2.5	2.0	15.1	3.27*
437.958	39	104	1.8	82*	3.0	1.0	1.0	2.3	1.5	18.4*	3.66
437.959	40	97	2.1	88*	3.0	1.0	1.0	2.8	2.0*	15.8	3.00*
437.960	32	97	3.1*	59*	3.0	1.0	1.0	2.5	1.5	14.1	3.24
437.962	28	102	2.1	105*	3.0	1.0	1.0	2.5	1.0	16.4	3.02
437.963	29	97*	2.0	77*	3.0	1.0	1.0	2.8	1.5	16.4	3.20*
437.965	27	101	2.0	110*	3.0	1.0	1.0	2.8	1.0	17.3	2.96*
437.966	39	99	2.0	82*	3.0	1.0	1.0	2.5	1.5	14.0	3.46*
437.967	30	95*	1.8	77	3.0	1.0	1.0	3.0	2.0	16.1	3.20*
437.968	37	95*	2.5	95*	4.0	1.0	1.0	2.5	1.0	12.5	2.99*

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.886A	I	17.8	46.7	11.8	3.0	22.6	54.9	7.7	0.0
437.887A	I	19.5	43.4	11.9	3.0	23.9	53.8	7.3	0.0
437.888A	I	19.4	45.3	11.7	3.0	23.4	54.9	6.8	0.0
437.890A	I	18.4	46.0	11.6	3.0	23.7	54.2	7.3	0.0
437.892	I	18.1	45.7	11.8	2.8	25.0	52.5	7.8	0.0
437.895A	I	18.2	45.0	12.6	3.0	23.1	52.6	8.6	0.1
437.895B	I	18.7	44.1	12.3	3.2	22.7	52.8	8.8	0.0
437.895C	I	19.3	42.7	12.1	2.9	22.3	54.3	8.3	0.0
437.901	I	19.5	42.3	12.2	3.0	20.1	56.6	7.7	0.1
437.905	I	16.1	45.7	12.1	2.9	22.8	53.9	8.1	0.0
437.907	I	19.5	42.4	11.6	3.1	22.6	53.8	8.7	0.0
437.909A	I	18.7	42.4	11.3	3.3	22.3	55.2	7.8	0.0
437.910C	I	19.4	45.4	11.9	3.1	24.3	53.5	7.0	0.1
437.911	I	17.5	45.3	11.5	2.8	24.6	53.9	7.0	0.1
437.912	I	20.2	43.0	12.0	3.1	24.6	53.5	6.7	0.0
437.914	I	17.5	46.3	12.7	3.2	19.7	55.6	8.6	0.0
437.918	I	14.3	46.2	12.6	2.9	19.1	56.3	9.0	0.0
437.920C	I	18.8	44.3	11.7	3.0	26.8	51.5	6.8	0.0
437.922	I	17.8	44.7	12.2	3.1	23.3	53.3	7.9	0.0
437.928	I	17.1	44.3	12.5	2.8	19.5	55.1	9.8	0.0
437.929	I	16.9	46.7	11.6	2.8	21.6	54.8	9.0	0.0
437.930	I	17.4	45.0	11.5	2.9	22.8	54.4	8.4	0.0
437.934A	I	17.9	44.3	10.9	2.8	23.0	55.2	7.9	0.0
437.934B	I	18.1	46.4	11.4	2.9	27.3	50.4	7.9	0.0
437.937	I	18.7	45.1	12.0	3.0	28.1	49.5	7.2	0.0
437.938	I	16.9	44.8	12.1	2.8	27.5	50.6	6.8	0.0
437.942	I	18.5	44.6	12.1	2.9	23.6	53.4	7.8	0.0
437.945A	I	18.3	45.8	12.0	3.2	23.0	53.9	7.8	0.0
437.945B	I	19.4	41.5	11.4	3.3	29.7	48.4	7.0	0.0
437.948	I	16.8	44.1	11.7	3.0	31.6	47.3	6.3	0.0
437.949	I	16.7	45.0	11.5	3.0	33.1	46.1	6.3	0.0
437.951	I	17.7	45.2	11.3	2.7	25.2	53.3	7.3	0.0
437.952	I	18.4	43.8	11.4	2.9	23.9	54.4	7.1	0.0
437.953A	I	18.1	46.2	12.1	3.2	21.4	55.0	8.1	0.0
437.953B	I	18.6	43.9	12.7	3.5	16.1	58.4	9.2	0.1
437.955B	I	19.0	43.1	11.7	3.5	26.8	50.5	7.3	0.0
437.956A	I	17.5	45.5	11.9	2.5	21.3	55.9	8.2	0.0
437.958	I	18.1	45.1	11.8	2.9	24.5	52.7	7.9	0.1
437.959	I	19.5	43.3	12.2	2.9	23.4	53.3	7.9	0.0
437.960	I	19.8	42.7	12.3	2.8	19.9	56.9	8.1	0.0
437.962	I	18.4	44.0	10.7	3.1	24.4	55.0	6.6	0.0
437.963	I	19.3	44.3	11.0	3.4	24.4	54.1	7.0	0.0
437.965	I	19.0	43.7	10.6	3.3	25.6	54.0	6.5	0.0
437.966	I	18.8	42.9	11.8	3.7	28.8	48.6	6.9	0.0
437.967	I	17.6	46.7	12.3	3.0	24.5	52.7	7.4	0.0
437.968	I	19.7	42.3	11.9	2.8	21.1	56.8	7.1	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.969		VIR 1455	USSR	China	1980	I
437.971		VIR 1470	USSR	China	1980	I
437.972		VIR 1475	USSR	China	1980	I
437.974A		VIR 1489	USSR	China	1980	I
437.975A		VIR 1490	USSR	China	1980	I
437.975B		(VIR 1490)	USSR	China	1980	I
437.976		VIR 1502	USSR	China	1980	I
437.978		VIR 1532	USSR	China	1980	I
437.979		VIR 1540	USSR	China	1980	I
437.980		VIR 1558	USSR	China	1980	I
437.981		VIR 1560	USSR	China	1980	I
437.983		VIR 1599	USSR	China	1980	I
437.984		VIR 1601	USSR	China	1980	I
437.986		VIR 1613	USSR	China	1980	I
437.987		VIR 1622	USSR	China	1980	I
437.988		VIR 1624	USSR	China	1980	I
437.990		VIR 1651	USSR	China	1980	I
437.992		VIR 1659	USSR	China	1980	I
437.993		VIR 1670	USSR	China	1980	I
437.994		VIR 1672	USSR	China	1980	I
437.995B		(VIR 1673)	USSR	China	1980	I
437.995C		(VIR 1673)	USSR	China	1980	I
437.996C		(VIR 1674)	USSR	China	1980	I
437.997		VIR 1681	USSR	China	1980	I
438.000		VIR 1722	USSR	China	1980	I
438.002		VIR 1725	USSR	China	1980	I
438.004A		VIR 1746	USSR	China	1980	I
438.004B		(VIR 1746)	USSR	China	1980	I
438.005		VIR 1748	USSR	China	1980	I
438.006		VIR 1764	USSR	China	1980	I
438.007		VIR 1766	USSR	China	1980	I
438.008		VIR 1767	USSR	China	1980	I
438.009		VIR 1772	USSR	China	1980	I
438.010		VIR 1793	USSR	China	1980	I
438.012		VIR 1821	USSR	China	1980	I
438.016C		(VIR 1852)	USSR	China	1980	I
438.017		VIR 1862	USSR	China	1980	I
438.018		VIR 1864	USSR	China	1980	I
438.023		VIR 1916	USSR	China	1980	I
438.024		VIR 1934	USSR	China	1980	I
438.026		VIR 1999	USSR	China	1980	I
438.027B		(VIR 2028)	USSR	China	1980	I
438.028		VIR 2034	USSR	China	1980	I
438.030		VIR 2124	USSR	China	1980	I
438.031		VIR 2161	USSR	China	1980	I
438.032		VIR 2165	USSR	China	1980	I

Table 2.2
Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.969	I	W	G	E	N	Br	S	Y	Bf			
437.971	I	P	G	E	N	Br	S	Y	Bf			
437.972	I	P	G	E	N	Bl	S	Y	Y			
437.974A	I	W	G	E	N	Dbr	S	Y	Bf			
437.975A	I	P	T	E	N	Br	I	Y	Br			
437.975B	I	P	T	E	Ssp	Br	I	Y	Br			
437.976	I	P	T	E	N	Tn	S	Y	Br	Abh		
437.978	I	P	G	E	N	Dbr	S	Y	lb			
437.979	I	P	T	E	Ssp	Bl	I	Y	Y			
437.980	I	P	T	E	N	Bl	I	Y	Y			
437.981	I	P	G	E	N	Bl	I	Y	Y			
437.983	I	P	T	E	N	Br	S	Y	Bl			
437.984	I	Dp	G	E	N	Bl	I	Y	Y			
437.986	I	P	G	E	N	Bl	I	Y	Y			
437.987	I	P	G	E	N	Bl	I	Y	Y			
437.988	I	P	T	E	N	Bl	D	Y	Br			
437.990	I	P	G	E	N	Tn	D	Y	Y			
437.992	I	P	G	E	N	Bl	I	Y	Y			
437.993	I	P	Ng	E	N	Tn	D	Y	Br			
437.994	I	P	T	E	N	Br	S	Y	Bl			
437.995B	I	P	G	E	N	Tn	S	Y	Y			
437.995C	I	P	G	E	N	Tn	S	Y	Y			
437.996C	I	P	G	E	N	Tn	I	Y	Y			
437.997	I	P	G	E	N	Tn	I	Y	Bf			
438.000	I	P	T	E	N	Br	I	Y	Bl			
438.002	I	P	G	E	N	Br	S	G	lb			
438.004A	I	P	G	E	N	Br	S	Y	Bf			
438.004B	I	P	Ng	E	N	Tn	D	Bl	Bl			
438.005	I	P	L†	E	N	Tn	I	Bl	Bl			
438.006	I	P	T	E	Ssp	Br	D	Y	Br			
438.007	I	P	L†	E	N	Tn	D	Y	Br			
438.008	I	P	T	E	N	Br	D	Y	Lbr			
438.009	I	P	T	E	N	Br	D	Y	Y			
438.010	I	P	T	E	N	Br	S	Y	Y			
438.012	I	P	G	E	N	Br	S	Y	Y			
438.016C	I	P	T	E	N	Br	S	Y	Y			
438.017	I	P	T	E	N	Br	D	Y	Y			
438.018	I	W	G	E	N	Dbr	S	Y	Bf			
438.023	I	W	G	E	N	Br	I	Y	Y			
438.024	I	P	T	E	N	Br	D	Y	Y			
438.026	I	P	T	E	N	Br	D	Y	Y			
438.027B	I	P	T	E	N	Br	S	Y	Br			
438.028	I	P	G	E	N	Br	I	Y	Y			
438.030	I	P	G	E	N	Bl	S	Y	Y			
438.031	I	P	Ng	E	N	Br	S	Br	Br			
438.032	I	P	L†	E	N	Tn	I	Bl	Bl			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.969	34	100	1.8	79*	3.0	1.0	1.5	3.0	1.0	18.8	3.26
437.971	31	92	1.5	82*	3.0	1.0	1.0	2.3	2.0	15.5	3.09*
437.972	34	96*	2.0	84*	3.0	1.0	1.0	2.8	2.0	15.8*	3.20*
437.974A	36	100	1.9	77*	3.0	1.0	1.5	2.5	1.0	13.0	3.42*
437.975A	31	98*	2.5	84*	3.0	1.0	1.0	2.8	1.5	14.6	3.13*
437.975B	43	105	2.8	110*	3.0	1.0	1.0	2.3	1.0	14.6	3.68*
437.976	41	101	1.8	80	2.5	1.0	1.0	2.0	1.0	11.2	3.32
437.978	41	102	2.8	74*	3.0	1.0	1.0	2.5	1.5	12.8	3.45
437.979	35	99*	3.1	87*	2.5	1.5	1.5	2.5	2.5	13.3	2.89
437.980	35	97*	1.8	87*	3.0	1.0	1.5	3.0	1.5	14.3	3.24*
437.981	34	96*	1.8*	64	3.0	1.0	1.5	3.3	1.5	15.6	3.40*
437.983	36	102	1.8	83*	3.0	1.0	1.0	3.3*	1.0	17.3	3.05*
437.984	33	91*	2.1	79*	3.0	1.0	1.0	2.8	1.5	14.9	3.24*
437.986	37	103*	2.3*	86*	3.0	1.0	1.0	3.0	1.5	16.9*	3.50
437.987	33	97	2.0*	68*	3.0	1.0	1.0	2.8	1.5	16.4	3.49*
437.988	29	95*	1.5	75*	3.0	1.0	1.0	3.0	2.5	15.4*	2.96*
437.990	40	98	2.3	68	3.0	1.0	1.0	2.5	2.0	16.0	3.42
437.992	34	98*	2.3	82	3.0	1.0	1.0	2.5	2.5	16.2	3.39*
437.993	31	93*	2.5	88*	3.0	1.0	1.0	2.8	2.5	13.5	2.52
437.994	27	97*	1.9	80*	3.0	1.0	1.0	3.0	1.0	15.5	3.03*
437.995B	37	95*	2.1	85	3.0	1.0	1.0	3.0	1.5	15.7	2.80*
437.995C	40	100*	3.8*	68	3.0	1.0	2.0*	3.5	1.5	14.2	2.33
437.996C	32	100	2.5	69	3.0	1.0	1.0	3.0	2.5	14.4	2.92
437.997	33	98	2.0	77	2.0	1.0	1.0	3.0	1.5	15.4	3.37
438.000	28	97*	2.0	86*	3.0	1.0	1.0	3.3	1.0	16.3	2.99*
438.002	37	99	1.6	82*	3.0	1.0	1.0	2.3	1.0	14.0	3.17*
438.004A	36	92*	1.6*	86*	3.0	1.0	1.0	2.3	1.5	15.2	2.86*
438.004B	42	102*	3.5	88*	3.5	1.0	1.0	2.0	-	12.0	3.30*
438.005	34	97	3.3	87*	4.0	1.0	1.0	2.3	-	9.3	2.55*
438.006	43	102*	3.1	96*	4.0	1.0	1.0	2.8	2.5	12.1	2.95
438.007	29	94*	2.1*	90*	3.0	1.0	1.0	2.5	1.5	15.2	2.93*
438.008	38	98*	2.3	94	3.0	1.0	1.0	2.5	1.0	15.2	2.71*
438.009	30	94*	1.8	92*	3.0	1.0	1.0	2.3	2.0	14.3*	2.97*
438.010	33	97*	3.3	94*	4.0	1.0	1.0	2.5	1.5	15.0	2.91*
438.012	36	102	2.3	94	3.0	1.0	1.0	2.5	1.5	15.1	3.27
438.016C	33	95	3.0	77*	3.0	1.0	1.0	2.5	2.0	13.5	2.98
438.017	38	102	1.3	66	2.5	1.0	1.0	2.8	3.0	15.0	3.42
438.018	37	100	2.1*	74*	3.0	1.0	1.5	2.3	2.0	13.5	3.25*
438.023	28	92*	1.3	71	3.0	1.0	1.0	3.0	1.5	20.6	3.26*
438.024	35	95*	2.3*	84*	3.0	1.0	1.0	2.5	2.0	16.2	3.36
438.026	29	93*	1.8	84*	3.0	1.0	1.0	2.5	3.5	14.9	2.65*
438.027B	32	99	1.3	79	3.0	1.0	1.0	2.0	2.0	15.3	3.55*
438.028	31	96*	2.8	82*	3.0	1.0	1.0	2.8	2.0	17.0	3.26*
438.030	33	98	1.8	68*	3.0	1.0	1.5	3.0	1.5	15.8	3.37*
438.031	40	101*	3.3	140*	4.5	1.0	1.0	2.3	-	12.0	3.28*
438.032	34	96*	3.0	87*	4.0	1.0	1.0	2.5	-	9.3	2.58*

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.969	I	19.5	43.5	11.4	3.2	33.5	45.6	6.1	0.0
437.971	I	18.3	45.4	11.0	3.3	22.8	56.0	6.7	0.0
437.972	I	19.1	43.7	12.8	3.2	22.5	53.7	7.8	0.0
437.974A	I	21.0	41.0	11.3	3.5	28.2	50.3	6.6	0.0
437.975A	I	17.6	46.0	12.2	3.2	22.7	54.6	7.1	0.0
437.975B	I	18.8	43.7	10.7	2.7	24.4	54.8	7.2	0.0
437.976	I	17.8	42.9	13.0	3.1	23.8	52.3	7.6	0.0
437.978	I	20.1	41.3	11.7	3.5	24.4	53.0	7.3	0.0
437.979	I	17.7	45.0	13.4	3.2	21.6	54.3	7.2	0.0
437.980	I	18.1	44.1	12.6	3.3	22.8	54.1	7.0	0.0
437.981	I	18.8	43.0	13.1	3.2	21.2	54.1	8.2	0.0
437.983	I	18.9	43.3	11.2	3.1	28.0	50.4	7.3	0.0
437.984	I	19.0	44.0	12.6	3.3	23.3	53.5	7.2	0.1
437.986	I	18.9	43.2	11.5	3.6	21.8	55.1	7.9	0.0
437.987	I	19.8	42.5	12.8	3.2	22.0	54.3	7.7	0.0
437.988	I	17.7	43.6	12.0	3.0	20.0	57.4	7.3	0.0
437.990	I	18.7	44.3	11.8	3.1	26.0	52.3	6.7	0.0
437.992	I	18.3	44.9	11.7	3.2	23.6	54.2	7.1	0.0
437.993	I	18.1	46.0	11.0	3.2	24.0	54.9	6.7	0.0
437.994	I	19.7	43.1	10.6	3.9	25.5	53.3	6.6	0.0
437.995B	I	17.8	46.2	12.2	3.2	23.0	53.8	7.8	0.0
437.995C	I	16.9	47.1	12.2	3.2	23.1	53.6	7.8	0.0
437.996C	I	18.0	46.2	12.3	3.0	24.1	52.4	8.1	0.0
437.997	I	17.9	45.0	13.1	3.0	19.6	56.3	7.9	0.0
438.000	I	18.6	44.3	10.9	3.9	25.5	52.7	7.0	0.0
438.002	I	19.1	43.0	11.8	3.1	21.9	55.4	7.7	0.0
438.004A	I	17.9	45.9	10.9	3.2	22.8	55.5	7.4	0.0
438.004B	I	16.2	44.8	12.5	2.9	22.3	54.2	8.0	0.0
438.005	I	16.6	45.2	12.2	2.8	30.0	48.6	6.3	0.0
438.006	I	17.5	44.9	12.2	3.1	19.4	56.9	8.3	0.1
438.007	I	18.1	45.5	11.3	3.2	24.9	53.8	6.7	0.0
438.008	I	17.2	44.8	11.3	3.2	21.8	55.6	7.8	0.0
438.009	I	17.3	45.8	13.1	3.0	20.3	55.1	8.4	0.0
438.010	I	17.9	44.9	10.8	3.2	23.3	54.8	7.7	0.0
438.012	I	17.7	45.8	11.6	3.1	22.1	55.4	7.8	0.0
438.016C	I	18.7	45.3	11.8	3.2	22.8	55.1	7.0	0.1
438.017	I	17.2	45.2	12.3	3.1	23.6	53.1	7.8	0.0
438.018	I	20.2	41.6	11.4	3.5	26.7	51.5	6.7	0.0
438.023	I	17.6	45.7	11.8	3.3	26.9	51.2	6.6	0.0
438.024	I	17.1	47.0	12.3	3.3	22.0	55.2	7.0	0.0
438.026	I	17.7	45.7	11.0	3.1	23.8	53.9	8.3	0.0
438.027B	I	16.3	45.6	13.0	3.0	24.9	51.2	7.8	0.0
438.028	I	17.9	45.4	12.6	3.1	24.3	52.5	7.4	0.0
438.030	I	17.6	44.5	12.9	3.4	23.3	52.9	7.4	0.0
438.031	I	16.9	43.8	13.0	2.9	25.2	51.6	7.1	0.0
438.032	I	16.7	44.8	12.1	3.3	33.3	45.5	5.7	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438,033		VIR 2166	USSR	China	1980	I
438,034		VIR 2173	USSR	China	1980	I
438,036		VIR 2181	USSR	China	1980	I
438,038		VIR 2248	USSR	China	1980	I
438,042		VIR 2283	USSR	China	1980	I
438,043		VIR 2296	USSR	China	1980	I
438,044		VIR 2297	USSR	China	1980	I
438,045		VIR 2299	USSR	China	1980	I
438,048A		VIR 2308	USSR	China	1980	I
438,048B		(VIR 2308)	USSR	China	1980	I
438,049		VIR 2310	USSR	China	1980	I
438,050B		(VIR 2324)	USSR	China	1980	I
438,051A		VIR 2329	USSR	China	1980	I
438,052		VIR 2334	USSR	China	1980	I
438,053		VIR 2336	USSR	China	1980	I
438,054		VIR 2342	USSR	China	1980	I
438,055A		VIR 2345	USSR	China	1980	I
438,055B		(VIR 2345)	USSR	China	1980	I
438,056		VIR 2386	USSR	China	1980	I
438,058		VIR 2399	USSR	China	1980	I
438,059		VIR 2403	USSR	China	1980	I
438,060		VIR 2404	USSR	China	1980	I
438,062		VIR 2406	USSR	China	1980	I
438,063		VIR 2407	USSR	China	1980	I
438,064		VIR 2412	USSR	China	1980	I
438,065		VIR 2419	USSR	China	1980	I
438,067		VIR 2427	USSR	China	1980	I
438,071		VIR 2446	USSR	China	1980	I
438,072		VIR 2450	USSR	China	1980	I
438,074		VIR 2468	USSR	China	1980	I
438,077		VIR 2474	USSR	China	1980	I
438,078		VIR 2478	USSR	China	1980	I
438,081		VIR 2494	USSR	China	1980	I
438,082		VIR 2504	USSR	China	1980	I
438,087		VIR 2518	USSR	China	1980	I
438,088		VIR 2519	USSR	China	1980	I
438,089		VIR 2522	USSR	China	1980	I
438,090		VIR 2523	USSR	China	1980	I
438,091		VIR 2526	USSR	China	1980	I
438,092		VIR 2528	USSR	China	1980	I
438,093		VIR 2538	USSR	China	1980	I
438,094B		(VIR 2543)	USSR	China	1980	I
438,095		VIR 2546	USSR	China	1980	I
438,097		VIR 2560	USSR	China	1980	I
438,099		VIR 2569	USSR	China	1980	I
438,100		VIR 2573	USSR	China	1980	I

Table 2.2
Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.033	I	P	L†	E	N	Tn	I	Bl	Bl	Fleck		
438.034	I	W	G	E	N	Br	I	Y	Bf			
438.036	I	W	G	E	N	Br	I	Y	Bf	SAbh		
438.038	I	P	G	E	N	Bl	I	Y	Y			
438.042	I	W	G	E	N	Br	I	Y	Bf			
438.043	I	P	T	E	N	Br	D	Y	Br			
438.044	I	P	G	E	N	Tn	S	Y	lb			
438.045	I	P	T	E	N	Br	I	Y	Br			
438.048A	I	P	G	E	N	Bl	S	Y	Y			
438.048B	I	P	T	E	Ssp	Tn	S	Y	Y			
438.049	I	P	G	E	N	Bl	S	Y	Y			
438.050B	I	W	T	E	N	Br	D	Y	Y			
438.051A	I	P	T	E	N	Br	I	Y	Br			
438.052	I	P	T	E	N	Tn	D	Y	Y			
438.053	I	P	G	E	N	Br	D	Y	Y			
438.054	I	P	G	E	N	Tn	S	Y	Y			
438.055A	I	P	T	E	Ssp	Br	I	Y	Br			
438.055B	I	W	T	E	N	Br	D	Y	Y			
438.056	I	P	T	E	N	Br	S	Y	Br			
438.058	I	P	T	E	N	Br	D	Y	Lbr			
438.059	I	Dp	G	E	N	Br	I	Y	Y			
438.060	I	P	G	E	N	Br	S	Y	lb			
438.062	I	P	T	E	Ssp	Tn	D	Y	Br			
438.063	I	P	T	E	N	Bl	S	Gn	Gn			
438.064	I	W	G	E	N	Br	S	Y	Bf			
438.065	I	P	T	E	N	Tn	D	Y	Bl			
438.067	I	P	G	E	N	Br	I	Y	lb			
438.071	I	P	T	E	N	Br	D	Y	Y			
438.072	I	P	T	E	N	Br	S	Y	Bl			
438.074	I	P	G	E	N	Br	I	Y	Y			
438.077	I	P	L†	E	Ssp	Br	D	Y	Br			
438.078	I	P	G	E	N	Br	S	Y	Bf			
438.081	I	P	T	E	Ssp	Br	D	Y	Br			
438.082	I	P	T	E	N	Br	S	Br	Br			
438.087	I	P	T	E	N	Br	I	Y	Y			
438.088	I	P	T	E	N	Br	D	Y	Y			
438.089	I	P	T	E	Ssp	Br	D	Y	Br			
438.090	I	P	T	E	N	Tn	S	Y	Br			
438.091	I	P	T	E	Ssp	Tn	D	Y	Y			
438.092	I	P	T	E	N	Br	D	Y	Y			
438.093	I	P	G	E	N	Bl	S	Y	Bf			
438.094B	I	Dp	L†	E	N	Tn	S	Y	Br			
438.095	I	P	G	E	N	Br	S	Y	lb			
438.097	I	P	T	E	N	Br	D	Y	Br			
438.099	I	P	T	E	N	Br	D	Y	Br			
438.100	I	P	T	E	Ssp	Br	D	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.033	34	96	3.0	87*	3.5	1.0	1.0	2.8	-	9.5	2.72*
438.034	40	104	2.8*	80*	3.0	1.0	1.0	2.8	1.0	15.6	3.82*
438.036	33	102	2.5*	67	3.0	1.0	1.5	3.3	1.0	16.0	3.50*
438.038	31	95*	1.1	53*	1.5	1.0	1.5	3.0	1.5	19.3	3.31*
438.042	31	100*	2.5	75*	2.0	1.0	1.0	3.0	1.0	17.2	3.29*
438.043	36	101*	3.0*	74*	2.0	1.0	1.5	3.0	1.5	15.3	3.10
438.044	44	100*	3.3	82*	3.0	1.0	1.0	2.5	1.0	15.1	2.80*
438.045	31	98*	2.2	82*	3.0	1.0	1.5	2.5	1.5	13.1	3.11*
438.048A	34	96*	1.5	72	3.0	1.0	1.0	2.8	1.5	13.2	3.17*
438.048B	31	92*	3.5	73*	3.0	1.0	1.0	2.8	1.0	13.4*	3.15*
438.049	35	96*	1.6*	72*	3.0	1.0	1.0	2.5	1.5	16.1	3.23*
438.050B	34	100*	2.1	88*	3.0	1.0	1.5	2.5	1.5	16.5	3.18*
438.051A	36	101	3.0	95*	3.0	1.0	1.0	2.3	2.5	13.4	3.31
438.052	35	96*	3.5	72*	3.0	1.0	1.0	3.5	1.0	15.1	2.88*
438.053	37	96	2.8*	71*	3.0	1.0	1.0	3.3*	1.5	16.1	2.76*
438.054	36	96*	2.3	67	3.0	1.0	1.0	2.5	2.0	15.9	2.98*
438.055A	34	98	2.0	85*	3.0	1.0	1.0	3.3	1.5	16.3	3.06*
438.055B	33	100	2.0	80	3.0	1.0	1.0	2.8	1.5	16.1*	3.21*
438.056	43	102	2.3	109	4.0	1.0	1.0	2.5	1.5	13.5	3.18*
438.058	42	100*	2.3	100*	3.0	1.0	1.0	2.5	1.0	15.3	2.94*
438.059	37	97*	2.6	89*	3.0	1.0	1.0	3.3	2.0	17.7	3.02*
438.060	31	96*	1.8*	64*	3.0	1.0	1.0	3.0	1.0	15.8	3.24*
438.062	41	96*	1.3	51*	3.0	1.0	1.0	2.3	4.5	14.4	2.55*
438.063	38	100*	3.1	90*	3.0	1.0	1.0	2.5	3.5	11.8	2.84*
438.064	34	99	2.3	70	2.5	1.0	1.5	2.5	1.5	13.2	3.05
438.065	43	97*	2.3	79*	3.0	1.0	1.0	2.0	1.5	13.1	2.54
438.067	41	101*	2.5	85*	2.5	1.0	1.0	2.5	1.5	14.3	3.48*
438.071	34	98	2.5	103*	3.5	1.0	1.0	2.8	1.5	15.9	2.86*
438.072	39	102*	3.1	70*	3.0	1.0	1.5	2.5	1.5	13.3	2.91*
438.074	33	97*	1.8*	76*	3.0	1.0	1.0	2.8	1.5	18.2*	3.32
438.077	42	99*	2.6	85*	3.0	1.0	1.0	2.3	1.5	13.1	3.55*
438.078	33	94*	1.8*	78*	3.0	1.0	1.0	2.5	2.5	14.7	2.92
438.081	33	99	1.8	90*	3.0	1.0	1.0	2.3	1.0	13.0	3.17*
438.082	35	101*	3.8*	86*	3.0	1.0	1.0	2.3	-	12.0	2.47*
438.087	35	97	2.3*	88	3.0	1.0	1.0	2.5	2.0	15.0	3.32
438.088	36	97	2.3*	94*	3.0	1.0	1.0	2.5	2.0	14.9	3.04
438.089	43	102*	2.5	91	3.5	1.0	1.0	3.0	3.0*	11.9	2.70*
438.090	39	96*	2.0	81*	3.0	1.0	1.0	2.5	1.5	13.2	3.05
438.091	34	95*	3.3	110	4.0	1.0	1.0	2.8	1.0	15.3	3.01
438.092	42	101*	3.0	91	3.0	1.0	1.5	2.8	3.0*	14.6	3.10*
438.093	34	97*	2.3	74	3.0	1.0	1.0	2.5	1.5	14.4	3.02*
438.094B	34	94*	2.0*	68*	3.0	1.0	1.0	3.0	2.5	13.1	3.13*
438.095	42	101*	3.0	71*	3.0	1.0	1.0	1.8	1.0	11.9	3.24*
438.097	35	99*	2.6	91	3.0	1.0	1.0	3.0	1.5	14.7	3.18*
438.099	30	101	1.8	77	3.0	1.0	1.0	3.3	1.5	18.7	3.20
438.100	35	102	2.1	85	3.0	1.0	1.0	2.8	2.5	15.7	3.06*

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438,033	I	16.1	45.8	11.9	3.3	34.3	44.8	5.7	0.0
438,034	I	18.4	41.8	11.6	3.2	23.6	52.8	8.6	0.0
438,036	I	19.3	44.6	11.5	3.0	22.9	54.8	7.7	0.0
438,038	I	18.6	44.0	11.3	3.1	26.3	52.4	6.8	0.0
438,042	I	19.3	43.8	11.8	3.4	24.0	53.4	7.3	0.0
438,043	I	18.0	44.3	12.0	3.5	27.3	50.3	6.9	0.0
438,044	I	17.0	46.0	12.4	3.2	25.9	50.3	8.0	0.0
438,045	I	17.2	45.4	12.2	3.2	21.6	55.3	7.4	0.0
438,048A	I	18.0	45.2	12.0	2.8	21.4	55.6	8.0	0.1
438,048B	I	18.6	44.1	12.2	3.1	23.9	53.2	7.4	0.0
438,049	I	18.1	44.5	12.2	3.0	23.2	54.5	6.9	0.0
438,050B	I	17.7	45.4	12.3	3.0	21.1	55.9	7.6	0.0
438,051A	I	18.1	44.9	11.6	3.1	21.3	55.9	8.0	0.0
438,052	I	18.9	43.6	10.8	3.1	27.6	51.7	6.5	0.0
438,053	I	18.8	44.5	12.4	3.0	28.0	49.9	6.4	0.0
438,054	I	16.9	44.3	12.7	3.3	26.5	49.7	7.6	0.0
438,055A	I	17.1	46.8	12.6	3.2	24.2	53.2	6.8	0.0
438,055B	I	17.1	45.6	12.6	2.9	22.2	55.3	6.8	0.0
438,056	I	17.5	45.3	12.8	3.0	22.3	53.8	7.9	0.0
438,058	I	16.9	45.1	11.0	3.3	22.8	55.0	7.8	0.1
438,059	I	16.9	46.6	11.8	3.2	26.1	51.2	7.5	0.0
438,060	I	18.0	44.6	12.2	3.6	21.4	55.4	7.3	0.1
438,062	I	16.8	45.6	12.5	3.2	20.5	54.2	9.4	0.0
438,063	I	16.1	46.5	12.5	2.9	19.1	56.5	8.9	0.0
438,064	I	20.4	42.3	11.1	3.5	30.4	48.5	6.3	0.0
438,065	I	16.2	45.2	12.5	3.4	21.7	54.2	8.0	0.0
438,067	I	18.4	44.0	11.9	3.0	25.7	51.3	7.9	0.0
438,071	I	17.8	45.4	10.6	3.7	22.0	55.6	7.8	0.0
438,072	I	17.4	43.6	12.5	3.6	21.3	54.2	8.3	0.1
438,074	I	17.8	45.4	11.5	3.2	24.2	53.0	8.0	0.0
438,077	I	18.2	43.7	12.2	3.8	24.9	50.8	8.1	0.0
438,078	I	17.4	46.5	11.1	3.4	23.0	54.6	7.6	0.1
438,081	I	18.6	43.7	11.0	2.8	21.1	56.8	8.2	0.0
438,082	I	16.6	44.5	13.0	3.1	21.1	55.1	7.6	0.0
438,087	I	17.4	47.2	12.0	3.3	22.9	54.3	7.4	0.1
438,088	I	16.8	46.9	12.0	3.4	22.2	55.0	7.2	0.1
438,089	I	17.8	45.1	12.1	3.1	19.4	56.9	8.3	0.1
438,090	I	18.1	45.1	11.3	3.1	26.3	52.2	7.0	0.1
438,091	I	18.8	44.0	11.1	3.1	26.8	51.8	7.1	0.0
438,092	I	15.7	45.9	12.9	2.8	22.0	52.1	10.0	0.1
438,093	I	18.9	42.3	11.6	3.0	21.7	55.5	8.0	0.1
438,094B	I	18.7	42.9	11.7	3.1	19.4	57.4	8.3	0.0
438,095	I	18.8	42.5	11.3	3.7	24.5	52.6	7.7	0.0
438,097	I	16.9	45.6	11.8	2.8	22.8	55.2	7.2	0.1
438,099	I	16.6	46.1	11.3	3.0	20.5	56.7	8.3	0.1
438,100	I	16.6	45.5	11.6	3.1	23.7	53.3	8.1	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.105A		VIR 2595	USSR	China	1980	I
438.106		VIR 2600	USSR	China	1980	I
438.107		VIR 2601	USSR	China	1980	I
438.108		VIR 2602	USSR	China	1980	I
438.109B		(VIR 2608)	USSR	China	1980	I
438.110		VIR 2610	USSR	China	1980	I
438.111B		(VIR 2620)	USSR	China	1980	I
438.112A		VIR 2623	USSR	China	1980	I
438.113		VIR 2626	USSR	China	1980	I
438.115		VIR 2712	USSR	China	1980	I
438.116		VIR 2727	USSR	China	1980	I
438.118		VIR 2757	USSR	China	1980	I
438.119		VIR 2778	USSR	China	1980	I
438.120		VIR 2785	USSR	China	1980	I
438.121		VIR 2786	USSR	China	1980	I
438.122		VIR 2789	USSR	China	1980	I
438.123A		VIR 2793	USSR	China	1980	I
438.123B		(VIR 2793)	USSR	China	1980	I
438.123C		(VIR 2793)	USSR	China	1980	I
438.124A		VIR 2795	USSR	China	1980	I
438.125		VIR 2799	USSR	China	1980	I
438.126		VIR 2802	USSR	China	1980	I
438.127		VIR 2806	USSR	China	1980	I
438.128A		VIR 2813	USSR	China	1980	I
438.128B		(VIR 2813)	USSR	China	1980	I
438.134		VIR 2869	USSR	China	1980	I
438.135		VIR 2871	USSR	China	1980	I
438.136		VIR 2872	USSR	China	1980	I
438.137A		VIR 2873	USSR	China	1980	I
438.137B		(VIR 2873)	USSR	China	1980	I
438.138B		(VIR 2874)	USSR	China	1980	I
438.140		VIR 2876	USSR	China	1980	I
438.142		VIR 2878	USSR	China	1980	I
438.143		VIR 2879	USSR	China	1980	I
438.145		VIR 2881	USSR	China	1980	I
438.146		VIR 2882	USSR	China	1980	I
438.147		VIR 2886	USSR	China	1980	I
438.149		VIR 2888	USSR	China	1980	I
438.150		VIR 2899	USSR	China	1980	I
438.151		VIR 2921	USSR	China	1980	I
438.160C		(VIR 3801)	USSR	China	1980	I
438.161		VIR 3804	USSR	China	1980	I
438.163		VIR 4110	USSR	China	1980	I
438.164A		VIR 4111	USSR	China	1980	I
438.165		VIR 4415	USSR	China	1980	I
438.166A		VIR 4416	USSR	China	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.105A	I	W	T	E	N	Br	S	Y	Bl			
438.106	I	P	L†	E	Ssp	Br	D	Y	Br			
438.107	I	P	G	E	N	Br	I	Y	Y			
438.108	I	P	L†	E	Ssp	Br	D	Y	Br			
438.109B	I	P	T	E	N	Br	S	Y	Y			
438.110	I	P	T	E	N	Br	I	Y	Br			
438.111B	I	P	L†	E	Ssp	Br	D	Y	Br			
438.112A	I	P	T	E	Ssp	Br	S	Y	Y			
438.113	I	P	T	E	Ssp	Br	D	Y	Br			
438.115	I	P	G	E	N	Tn	I	Y	Y			
438.116	I	P	T	E	N	Br	I	Y	Y			
438.118	I	W	G	E	N	Br	S	Y	Bf			
438.119	I	P	G	E	N	Tn	S	Y	Y			
438.120	I	P	T	E	N	Br	D	Y	Lbr			
438.121	I	P	G	E	N	Br	I	Y	Bf			
438.122	I	W	L†	E	N	Br	D	Y	Bl			
438.123A	I	P	T	Sa	N	Br	S	Y	Br			
438.123B	I	P	T	A	N	Br	I	Y	Br			
438.123C	I	P	T	E	N	Br	S	Y	Br			
438.124A	I	P	T	E	N	Br	I	Y	Br			
438.125	I	W	G	E	N	Dbr	S	Y	Bf			
438.126	I	W	G	E	N	Br	S	Y	Bf			
438.127	I	P	L†	E	Ssp	Br	D	Y	Br			
438.128A	I	P	G	E	N	Br	S	Y	lb			
438.128B	I	P	G	E	N	Br	S	Y	lb			
438.134	I	P	T	E	N	Br	S	Y	Y			
438.135	I	P	G	E	N	Br	D	Y	G			
438.136	I	W	G	E	Ssp	Br	I	Y	Y			
438.137A	I	P	G	E	N	Tn	I	Y	Y			
438.137B	I	P	G	E	N	Br	S	Y	Y			
438.138B	I	W	G	E	N	Br	S	Y	Y			
438.140	I	W	G	E	N	Tn	S	Y	Y			
438.142	I	W	G	E	N	Tn	S	Y	Bf			
438.143	I	P	G	E	N	Br	S	Y	Y			
438.145	I	P	G	E	N	Br	S	Y	Y			
438.146	I	W	G	E	N	Br	S	Y	Bf			
438.147	I	P	T	Sa	N	Br	D	Y	Y			
438.149	I	P	G	E	N	Br	S	Y	Y			
438.150	I	W	G	E	N	Br	S	Y	Y			
438.151	I	P	G	E	N	Tn	S	Y	Bf			
438.160C	I	P	T	E	N	Br	D	Y	Y			
438.161	I	P	T	E	N	Br	D	Y	Br			
438.163	I	W	G	E	N	Tn	I	Y	Y			
438.164A	I	P	G	E	N	Dbr	S	Y	lb			
438.165	I	W	G	E	N	Br	S	Y	Bf			
438.166A	I	W	G	E	N	Br	S	Y	Lbf			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.105A	37	102	2.0	103*	3.0	1.0	1.0	2.8	1.5	17.7	3.35*
438.106	39	96	2.0	79*	3.0	1.0	1.0	2.3	1.5	13.8	3.22*
438.107	32	102*	1.8	97*	3.0	1.0	1.0	2.0	1.5	13.6	3.35*
438.108	37	96*	1.5	77*	3.0	1.0	1.0	2.3	2.0	13.8	3.26
438.109B	44	103*	2.5	99*	3.0	1.0	1.0	2.3	1.5	13.0	3.12*
438.110	36	103*	1.9*	91*	3.0	1.0	1.0	2.0	2.5	13.2	3.71
438.111B	36	97	1.5	76*	3.0	1.0	1.0	2.5	2.0	13.6	3.63
438.112A	44	103*	2.3	95*	3.0	1.0	1.0	2.5	2.0	11.9	3.09*
438.113	36	100*	2.8	85*	3.0	1.0	1.0	2.5	1.0	15.6	3.33*
438.115	37	98	1.8*	69*	3.0	1.0	1.0	2.5	2.0	16.0	3.63
438.116	41	100	2.9*	78*	3.0	1.0	1.0	2.8	1.5	13.6	3.24
438.118	35	99	2.8	80*	3.0	1.0	1.5	2.8	1.0	17.4	3.09*
438.119	35	98	1.8	78*	3.0	1.0	1.0	3.0	2.0	19.0	3.19*
438.120	43	101*	2.0	89*	3.0	1.0	1.0	2.3	1.0	15.1	2.83*
438.121	35	102*	1.6*	66*	3.0	1.0	1.0	2.8	1.5	16.1	3.53*
438.122	32	100*	2.3	92*	3.0	1.0	1.0	2.3	1.5	17.7*	3.09*
438.123A	29	91*	1.3	64	2.0	1.0	1.0	2.3	1.0	12.3	3.14*
438.123B	39	95*	1.6	67*	3.0	1.0	1.0	2.5	1.5	9.9	2.78
438.123C	39	97	2.3	78*	3.5	1.0	1.0	2.3	1.0	11.1	3.26
438.124A	31	99*	2.3	95*	3.0	1.0	1.0	3.0	2.0	14.2	3.14*
438.125	34	101	1.8*	73*	3.0	1.0	1.0	2.8	1.0	17.4	3.42*
438.126	31	98*	1.8	68*	3.0	1.0	1.0	2.5	1.0	16.7	3.13*
438.127	41	101*	2.4	82*	3.0	1.0	1.0	2.0	2.0	13.4	3.43*
438.128A	31	98	1.8	83*	3.0	1.0	1.0	3.0	1.0	17.3	3.10*
438.128B	35	101	1.8	80*	3.0	1.0	1.0	3.3*	1.0	18.1	3.24*
438.134	34	95*	3.1	87*	4.0	1.0	1.0	2.8	1.5	14.6	2.82*
438.135	35	105	2.3*	85*	3.0	1.0	1.0	3.3	2.5	16.5	3.21*
438.136	35	100*	2.8	80*	3.0	1.0	1.0	3.5	2.0	19.0	3.25*
438.137A	37	101	2.5	98*	3.5	1.0	1.0	2.5	1.0	16.4	2.94*
438.137B	40	99	1.8	78*	3.0	1.0	1.5	2.5	1.0	14.8	3.08
438.138B	30	99	1.3	79*	3.0	1.0	1.5	2.8	1.5	17.4	3.48*
438.140	29	95*	3.8	71	3.5	1.0	1.0	3.0	1.5	17.9	3.02*
438.142	37	102*	1.3	69*	3.0	1.0	1.0	2.5	1.5	15.9	1.54*
438.143	31	100	1.0	40	1.0	1.0	1.5	2.3	1.0	13.0	2.83*
438.145	36	103*	3.0	77*	3.0	1.0	1.0	2.5	1.5	19.5	3.57*
438.146	33	99	2.3*	75*	3.0	1.0	1.0	2.8	1.0	17.7	3.35*
438.147	37	103*	2.8	82*	3.0	1.0	1.0	2.3	1.5	13.3	3.18*
438.149	35	101*	2.3	88*	3.0	1.0	1.0	2.5	1.5	14.9	3.15*
438.150	28	95*	3.3	97*	4.0	1.0	1.0	2.5	1.0	15.9	3.08*
438.151	35	100*	2.2	72*	2.0	1.0	1.0	2.5	1.5	12.6*	3.32*
438.160C	38	103*	2.8	89*	3.0	1.0	1.0	2.5	2.0*	15.5	3.08*
438.161	37	97*	2.5	78*	3.0	1.0	1.0	2.8	1.5	13.4	3.06*
438.163	34	103*	2.6	75*	3.0	1.0	1.0	2.5	2.0	19.6	3.29
438.164A	35	103	3.1	79*	2.5	1.0	1.0	2.5	1.0	15.3	3.66*
438.165	35	101	2.5	87*	3.5	1.0	1.0	2.5	1.0	16.9	3.22*
438.166A	31	102	1.8	87*	3.0	1.0	1.0	2.3	1.0	16.8*	3.49*

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.105A	I	17.3	47.3	11.3	3.2	23.5	54.2	7.7	0.0
438.106	I	18.3	43.0	11.7	3.5	25.3	52.0	7.4	0.0
438.107	I	18.0	43.6	11.7	3.3	21.9	54.6	8.3	0.1
438.108	I	18.4	43.0	11.8	3.0	19.4	56.1	9.5	0.0
438.109B	I	18.2	43.2	12.7	3.1	23.0	53.0	8.1	0.0
438.110	I	16.3	46.3	11.5	3.0	19.4	58.0	7.9	0.0
438.111B	I	18.6	43.0	12.1	3.5	24.6	52.0	7.7	0.1
438.112A	I	17.6	44.0	12.5	3.2	23.6	52.2	8.2	0.1
438.113	I	17.0	46.5	12.3	3.2	25.3	51.5	7.5	0.0
438.115	I	17.0	44.1	12.8	3.2	27.3	48.7	7.8	0.1
438.116	I	17.4	46.1	12.9	3.3	25.5	50.1	8.1	0.1
438.118	I	19.0	42.9	11.6	3.3	32.9	45.3	6.8	0.1
438.119	I	17.3	46.0	11.8	3.3	32.3	46.0	6.5	0.0
438.120	I	17.6	44.4	11.4	3.2	24.0	53.4	7.7	0.0
438.121	I	17.6	44.9	11.3	2.9	25.8	52.1	7.6	0.0
438.122	I	18.3	46.0	11.2	3.0	26.4	51.7	7.4	0.0
438.123A	I	18.6	43.3	11.9	3.3	25.7	52.0	6.8	0.1
438.123B	I	17.9	44.7	12.6	3.5	22.7	54.1	7.0	0.0
438.123C	I	18.0	44.6	12.0	3.3	25.3	52.4	6.8	0.0
438.124A	I	17.6	42.4	12.3	3.4	22.0	54.0	8.2	0.0
438.125	I	19.5	41.4	11.1	3.5	27.8	49.6	7.8	0.0
438.126	I	19.6	41.4	10.6	3.9	30.8	47.2	7.3	0.1
438.127	I	18.5	42.6	10.9	3.8	25.0	52.4	7.7	0.1
438.128A	I	19.1	42.7	10.5	3.2	29.9	49.5	6.8	0.1
438.128B	I	19.3	43.3	10.4	3.1	30.7	48.9	6.6	0.1
438.134	I	17.6	45.2	10.6	3.2	26.1	52.8	7.1	0.0
438.135	I	19.0	42.7	11.3	3.1	30.3	48.3	6.7	0.1
438.136	I	17.9	45.7	11.1	3.5	23.3	54.4	7.5	0.1
438.137A	I	16.0	47.4	11.4	2.9	24.2	53.3	8.1	0.0
438.137B	I	19.9	41.9	12.0	2.7	27.4	50.9	6.9	0.0
438.138B	I	19.6	43.9	12.2	3.0	26.9	50.9	6.9	0.0
438.140	I	17.0	44.8	12.7	3.6	23.5	52.3	7.6	0.2
438.142	I	18.7	43.3	12.2	3.5	23.9	52.5	7.7	0.0
438.143	I	18.4	43.9	11.6	3.0	19.0	58.3	7.9	0.1
438.145	I	18.3	43.6	11.9	3.1	29.1	49.7	6.0	0.0
438.146	I	19.4	43.1	11.6	3.2	32.7	45.8	6.6	0.0
438.147	I	20.0	42.2	12.9	3.5	24.2	52.7	6.5	0.0
438.149	I	18.1	43.0	11.5	3.0	25.0	52.6	7.8	0.0
438.150	I	20.2	42.4	11.4	4.0	27.4	50.9	6.2	0.0
438.151	I	18.4	43.4	11.8	3.3	21.0	55.7	8.0	0.1
438.160C	I	18.6	43.8	11.2	3.0	21.8	55.9	7.8	0.0
438.161	I	18.1	44.8	12.8	3.5	23.3	53.5	6.8	0.0
438.163	I	19.7	42.2	12.4	3.2	26.1	51.4	6.8	0.1
438.164A	I	19.2	42.1	11.3	3.5	27.1	50.8	7.1	0.1
438.165	I	19.0	43.2	11.7	3.0	29.1	48.9	7.1	0.0
438.166A	I	19.2	42.8	11.0	3.8	30.7	48.4	5.8	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.166B		(VIR 4416)	USSR	China	1980	I
438.169		VIR 4421	USSR	China	1980	I
438.170		VIR 4423	USSR	China	1980	I
438.171		VIR 4427	USSR	China	1980	I
438.172		VIR 4428	USSR	China	1980	I
438.174		VIR 4431	USSR	China	1980	I
438.179		VIR 4440	USSR	China	1980	I
438.180		VIR 4443	USSR	China	1980	I
438.181A		VIR 4444	USSR	China	1980	I
438.181B		(VIR 4444)	USSR	China	1980	I
438.182		VIR 4445	USSR	China	1980	I
438.184		VIR 4449	USSR	China	1980	I
438.187		VIR 4453	USSR	China	1980	I
438.188		VIR 4454	USSR	China	1980	I
438.189		VIR 4456	USSR	China	1980	I
438.190		VIR 4458	USSR	China	1980	I
438.191		VIR 4459	USSR	China	1980	I
438.193		VIR 4462	USSR	China	1980	I
438.195		VIR 4476	USSR	China	1980	I
438.196		VIR 4477	USSR	China	1980	I
438.201		VIR 4484	USSR	China	1980	I
438.202		VIR 4485	USSR	China	1980	I
438.203		VIR 4486	USSR	China	1980	I
438.205		VIR 4491	USSR	China	1980	I
438.206		VIR 4492	USSR	China	1980	I
438.207A		VIR 4493	USSR	China	1980	I
438.207B		(VIR 4493)	USSR	China	1980	I
438.209		VIR 4495	USSR	China	1980	I
438.210		VIR 4499	USSR	China	1980	I
438.211A		VIR 4501	USSR	China	1980	I
438.211B		(VIR 4501)	USSR	China	1980	I
438.212A		VIR 4503	USSR	China	1980	I
438.212B		(VIR 4503)	USSR	China	1980	I
438.213		VIR 4504	USSR	China	1980	I
438.215		VIR 4506	USSR	China	1980	I
438.218		VIR 4509	USSR	China	1980	I
438.220		VIR 4511	USSR	China	1980	I
438.221		VIR 4512	USSR	China	1980	I
438.224		VIR 4515	USSR	China	1980	I
438.225		VIR 4516	USSR	China	1980	I
438.230A		VIR 4521	USSR	China	1980	I
438.230B		(VIR 4521)	USSR	China	1980	I
438.231		VIR 4522	USSR	China	1980	I
438.232		VIR 4523	USSR	China	1980	I
438.233C		(VIR 4524)	USSR	China	1980	I
438.234A		VIR 4525	USSR	China	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.166B	I	Dp	G	E	N	Br	S	Y	G			
438.169	I	W	G	E	N	Bl	S	Y	Bf			
438.170	I	Dp	G	E	N	Br	I	Y	Y			
438.171	I	W	G	E	N	Dbr	S	Y	Bf			
438.172	I	P	G	E	Ssp	Br	S	Y	lb			
438.174	I	P	G	E	N	Br	S	Y	lb			
438.179	I	W	G	E	N	Br	S	Y	Y			
438.180	I	P	G	E	N	Br	S	Y	G			
438.181A	I	P	T	E	N	Br	I	Y	Y			
438.181B	I	P	T	E	N	Bl	I	Y	Y			
438.182	I	W	G	E	N	Br	S	Y	Y			
438.184	I	P	G	E	N	Tn	S	Y	Y			
438.187	I	W	G	E	N	Dbr	S	Y	Bf			
438.188	I	W	G	E	N	Dbr	S	Y	Bf			
438.189	I	P	G	E	N	Tn	S	Y	Bf			
438.190	I	W	G	E	N	Dbr	S	Y	Y			
438.191	I	W	G	E	N	Dbr	S	Y	Y			
438.193	I	P	G	E	N	Br	S	Y	Y			
438.195	I	P	G	E	N	Br	S	Y	Y			
438.196	I	W	G	E	N	Dbr	S	Y	Bf			
438.201	I	P	T	E	N	Br	I	Br	Br			
438.202	I	P	G	E	N	Tn	I	Y	Y			
438.203	I	P	G	E	N	Tn	S	Y	Y			
438.205	I	P	G	E	N	Br	I	Y	lb			
438.206	I	P	G	E	N	Br	I	Y	lb			
438.207A	I	P	G	E	N	Br	S	Y	lb			
438.207B	I	P	G	E	N	Br	S	Y	lb			
438.209	I	P	G	E	N	Bl	S	Y	Y			
438.210	I	P	G	E	N	Br	S	Y	Y			
438.211A	I	P	G	E	N	Br	D	Y	Bf			
438.211B	I	P	G	E	N	Br	D	Y	Bf			
438.212A	I	P	G	E	N	Br	S	Y	Bf		Wa	
438.212B	I	P	T	E	N	Br	S	Y	Br			
438.213	I	P	G	E	N	Br	I	Y	Bf			
438.215	I	P	G	E	N	Tn	D	Y	Bf			
438.218	I	P	L†	E	N	Tn	D	Y	Bl br			
438.220	I	P	Ng	E	N	Br	D	Y	Bl			
438.221	I	P	T	E	Ssp	Br	I	Y	Br			
438.224	I	P	T	E	Ssp	Br	D	Y	Br			
438.225	I	P	T	E	Ssp	Br	D	Y	Br			
438.230A	I	P	T	E	N	Tn	I	Y	Y	Abh		
438.230B	I	P	L†	E	Ssp	Br	D	Y	Br			
438.231	I	P	T	E	N	Br	S	Y	G			
438.232	I	P	T	E	N	Br	D	Bl	Bl			
438.233C	I	P	T	E	N	Tn	D	Y	Y			
438.234A	I	Dp	T	E	Ssp	Br	S	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.166B	32	99*	2.5	98*	3.5	1.0	1.0	2.3	1.5	16.0	3.24*
438.169	36	100	2.5*	74*	3.0	1.0	1.5	2.8	1.0	14.5	3.13
438.170	36	98	1.8	78*	3.0	1.0	1.0	3.3	2.0	16.1	2.91*
438.171	44	102	1.8*	73*	3.0	1.0	1.0	2.3	1.0	15.2	3.65*
438.172	32	101	2.0	80*	3.0	1.0	1.0	2.5	1.0	17.8	3.37*
438.174	30	98	1.8*	82*	3.0	1.0	1.0	3.0	1.0	17.7	3.31*
438.179	39	103*	3.0	86	3.5	1.0	1.0	2.5	1.0	14.7	3.44*
438.180	33	98	2.1*	89*	3.0	1.0	1.0	2.3	1.0	16.8	3.23
438.181A	42*	98*	3.0	81*	3.0	1.0	1.0	3.0	1.5	14.4	3.27*
438.181B	44*	102*	3.3	73*	3.0	2.0*	2.5*	2.8	2.5	13.7	3.09*
438.182	31	98	2.3*	73*	3.0	1.0	1.0	2.5	1.5	15.8	3.62
438.184	36	102*	4.3	76*	2.5	1.0	1.0	2.3	1.5	11.4	3.03
438.187	33	101	2.5	81	3.0	1.0	1.0	2.5	1.0	14.0	3.27*
438.188	36	102	2.3*	72	3.0	1.0	1.0	2.5	1.0	15.2	3.52
438.189	35	103*	2.8*	68*	2.0	1.0	1.0	2.5	1.0	13.0	3.00*
438.190	37	102*	3.0	90*	3.0	1.5	1.5	2.5	1.0	13.5	3.05*
438.191	38	104	2.8*	84*	3.0	1.0	1.0	2.3	1.0	14.8	3.38
438.193	39	100	2.5*	78*	3.0	1.0	1.0	1.8	1.0	11.5	3.09*
438.195	41	101	1.8	73*	3.0	1.0	1.0	2.3	3.5	15.5	3.81
438.196	32	99	2.0*	68*	3.0	1.0	1.0	2.5	1.0	17.0	3.54*
438.201	37	92*	2.8	86*	3.0	1.0	1.0	2.5	-	14.1	2.94*
438.202	34	94*	1.8*	65*	3.0	1.0	1.0	2.5	1.5	16.8	3.40*
438.203	38	99	2.6*	68*	3.0	1.0	1.0	2.5	2.0	15.3	3.60
438.205	36	101*	1.8	87*	3.5	1.0	1.0	2.5	1.0	16.5	4.12*
438.206	36	102*	2.0	87*	3.0	1.0	1.0	2.3	1.5	16.3	3.97*
438.207A	31	97	1.5	60*	3.0	1.0	1.0	2.8	1.0	16.3	3.13*
438.207B	40*	100	1.8*	67	3.0	1.0	1.5	2.8	1.0	15.4	3.47
438.209	33	98	1.8	60*	3.0	1.0	1.0	3.3	1.5	15.8	3.35*
438.210	35	103*	3.0	99*	3.0	1.0	1.0	2.3	1.5	14.8	3.32*
438.211A	36	97	2.6	106*	4.0	1.0	1.0	2.3	1.5	13.8	3.04
438.211B	36	99	2.8	109*	4.0	1.0	1.5	2.3	2.0	14.1	3.06
438.212A	38	100	3.5	81*	3.5	1.0	1.0	1.5	1.0	9.8	2.86
438.212B	44	102*	3.5	110*	4.0	1.0	1.5	1.8	1.5	10.4	3.10
438.213	29	103*	2.8	100*	3.5	1.0	1.0	2.5	1.0	13.7	3.39
438.215	37	101	2.5	98*	3.5	1.5	2.5*	2.5	1.5	13.9	3.31*
438.218	41	102*	2.6	115*	4.0	1.0	1.0	2.5	1.5	12.6*	3.21*
438.220	31	102*	2.5	100*	3.5	1.0	1.0	2.3	2.0*	13.3	3.15
438.221	39	102*	2.4	88*	3.0	1.0	1.0	2.3	1.5	14.0	3.66
438.224	38	103*	3.3	94	3.0	1.0	1.0	2.3	1.5	13.0	3.44*
438.225	43	103*	3.3*	92	3.0	1.0	1.0	2.5	2.5	13.6	3.79
438.230A	37	101*	2.5	110*	4.0	1.0	1.0	1.8	1.5	9.8	3.11
438.230B	41	99	1.8	82	3.0	1.0	1.0	2.3	1.5	13.0	3.62
438.231	29	99	1.8	86*	3.0	1.0	1.0	2.8	1.5	16.0	3.47
438.232	32	102	2.1	100*	4.0	1.0	1.0	2.3	-	16.7	3.15
438.233C	35	100*	2.8	85	3.0	1.0	1.0	2.3	2.5	13.6	3.53
438.234A	38	100	2.5	82	3.0	1.0	1.0	2.3	2.0	14.9	3.24

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.166B	I	18.9	43.6	12.0	3.8	24.0	52.5	7.6	0.0
438.169	I	18.7	43.0	12.0	3.2	24.3	52.6	7.8	0.0
438.170	I	18.8	43.3	12.2	3.3	22.8	54.0	7.7	0.0
438.171	I	20.6	39.1	10.7	3.7	26.7	50.9	7.8	0.0
438.172	I	18.1	46.6	10.8	3.0	33.0	47.2	5.8	0.0
438.174	I	19.5	42.6	10.3	2.9	30.2	50.3	6.1	0.0
438.179	I	20.4	41.6	11.2	3.2	28.0	50.6	6.8	0.1
438.180	I	16.8	45.4	11.9	3.2	28.2	49.9	6.7	0.0
438.181A	I	17.2	45.5	11.5	3.4	23.4	53.8	7.7	0.0
438.181B	I	17.3	44.5	11.7	3.0	21.8	54.7	8.7	0.0
438.182	I	19.2	43.6	11.9	3.0	25.6	53.2	6.0	0.1
438.184	I	18.8	42.0	11.8	3.0	21.1	56.1	8.0	0.0
438.187	I	19.3	41.4	12.1	4.0	26.2	50.1	7.5	0.0
438.188	I	20.8	40.8	10.7	3.0	29.5	50.2	6.3	0.1
438.189	I	18.0	45.1	11.6	3.0	22.2	55.1	7.8	0.0
438.190	I	20.2	41.2	12.4	3.5	23.8	52.6	7.4	0.1
438.191	I	20.8	40.4	11.5	3.3	24.8	53.0	7.3	0.0
438.193	I	17.1	43.2	12.4	3.0	18.7	56.0	9.8	0.0
438.195	I	17.6	45.7	11.9	2.8	23.7	54.1	7.3	0.1
438.196	I	20.3	40.6	11.1	3.9	30.3	47.7	6.9	0.0
438.201	I	17.2	47.2	12.2	3.4	22.0	54.0	8.3	0.0
438.202	I	18.1	43.3	13.1	3.4	26.5	49.5	7.4	0.0
438.203	I	18.2	43.2	12.9	3.3	26.3	49.8	7.4	0.1
438.205	I	17.7	44.8	11.5	2.9	22.1	55.4	7.8	0.1
438.206	I	17.6	44.7	11.7	2.8	21.7	55.6	7.8	0.3
438.207A	I	18.8	44.7	12.5	3.5	22.2	54.5	7.2	0.1
438.207B	I	19.8	42.9	11.0	3.5	26.8	51.0	7.5	0.1
438.209	I	19.5	42.9	12.9	3.1	21.2	54.8	7.9	0.0
438.210	I	18.1	43.6	11.4	3.0	23.1	53.9	8.4	0.1
438.211A	I	19.4	42.7	12.0	3.4	23.3	54.3	6.7	0.1
438.211B	I	18.8	42.6	11.9	3.2	24.2	53.9	6.6	0.1
438.212A	I	20.1	41.7	12.6	2.9	23.0	54.0	7.1	0.1
438.212B	I	18.4	43.5	12.8	2.9	24.0	52.9	7.1	0.0
438.213	I	18.5	43.6	11.5	3.4	20.8	55.6	8.3	0.1
438.215	I	17.1	46.5	12.7	3.3	25.5	51.6	6.6	0.0
438.218	I	18.4	43.1	12.0	3.3	19.9	57.1	7.4	0.1
438.220	I	17.2	44.3	11.8	2.8	23.3	55.1	7.0	0.0
438.221	I	19.7	42.8	11.6	3.3	21.0	55.7	8.3	0.1
438.224	I	17.9	44.1	11.5	2.9	20.5	56.6	8.3	0.0
438.225	I	18.7	43.1	11.3	3.0	21.3	56.0	8.2	0.1
438.230A	I	18.0	43.5	12.5	3.1	20.4	55.5	8.4	0.0
438.230B	I	19.2	42.8	12.5	3.8	25.2	50.4	7.9	0.1
438.231	I	18.9	43.4	11.2	3.6	21.9	55.6	7.4	0.1
438.232	I	18.3	45.8	11.0	3.5	26.1	51.0	8.2	0.0
438.233C	I	18.0	43.3	12.1	3.3	22.8	53.8	8.0	0.0
438.234A	I	17.7	43.2	11.6	3.3	28.5	49.2	7.2	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.238A		VIR 4534	USSR	China	1980	I
438.238B		(VIR 4534)	USSR	China	1980	I
438.239B		(VIR 4536)	USSR	China	1980	I
438.240		VIR 4537	USSR	China	1980	I
438.241		VIR 4582	USSR	China	1980	I
438.243		VIR 4584	USSR	China	1980	I
438.245		VIR 4589	USSR	China	1980	I
438.246		VIR 4596	USSR	China	1980	I
438.247		VIR 4603	USSR	China	1980	I
438.250A		VIR 4705	USSR	China	1980	I
438.252A		VIR 4707	USSR	China	1980	I
438.253		VIR 4708	USSR	China	1980	I
438.254A		VIR 4709	USSR	China	1980	I
438.254B		(VIR 4709)	USSR	China	1980	I
438.254C		(VIR 4709)	USSR	China	1980	I
438.255		VIR 4710	USSR	China	1980	I
438.256A		VIR 4711	USSR	China	1980	I
438.259A		VIR 4715	USSR	China	1980	I
438.260		VIR 4862	USSR	China	1980	I
438.268		VIR 5042	USSR	China	1980	I
438.269		VIR 5052	USSR	China	1980	I
438.271A		VIR 5055	USSR	China	1980	I
438.272		VIR 5057	USSR	China	1980	I
438.276	Cai Irazu	VIR 871	USSR	Japan	1980	I
438.283	Okuhara N1	VIR 5840	USSR	Japan	1980	I
438.289		VIR 623	USSR	Japan	1980	I
438.291		VIR 2994	USSR	Japan	1980	I
438.292		VIR 3015	USSR	Japan	1980	I
438.304A		VIR 2962	USSR	Korea	1980	I
438.305		VIR 2977	USSR	Korea	1980	I
438.309		VIR 3017	USSR	Korea	1980	I
438.316	CNS 89B	VIR 5915	USSR	Algeria	1980	I
438.317	Dan Ossiek 2	VIR 5919	USSR	Algeria	1980	I
438.323	Grignon 53-F-3	VIR 5890	USSR	Algeria	1980	I
438.324	Jauneuni	VIR 5930	USSR	Algeria	1980	I
438.330A	Ronest 1	VIR 5875	USSR	Algeria	1980	I
438.330B	(Ronest 1)	(VIR 5875)	USSR	Algeria	1980	I
438.334A	Ronest 250-207C	VIR 5913	USSR	Algeria	1980	I
438.339A	Serda 227	VIR 5906	USSR	Algeria	1980	I
438.339B	(Serda 227)	(VIR 5906)	USSR	Algeria	1980	I
438.340A	Tokio Vert	VIR 5884	USSR	Algeria	1980	I
438.340B	(Tokio Vert)	(VIR 5884)	USSR	Algeria	1980	I
438.350A	Chernaja VU5834	VIR 5105	USSR	Bulgaria	1980	I
438.350B	(Chernaja VU5834)	(VIR 5105)	USSR	Bulgaria	1980	I
438.361	VU-5831	VIR 5103	USSR	Bulgaria	1980	I
438.363	Mandarin A	VIR 5904	USSR	Canada	1980	I

Table 2.2

Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.238A	I	P	T	E	Ssp	Tn	D	Y	Y			
438.238B	I	P	T	E	Ssp	Br	I	Y	Y			
438.239B	I	P	Ng	E	N	Br	S	Br	Br		Dab	
438.240	I	P	Ng	E	N	Br	S	Br	Br		Dab	
438.241	I	W	G	E	N	Br	I	Y	Bf			
438.243	I	W	G	E	N	Bl	S	Y	Y			
438.245	I	P	G	E	N	Br	I	Y	G			
438.246	I	W	G	E	N	Br	S	Y	Bf			
438.247	I	P	G	E	N	Tn	I	Y	Bf			
438.250A	I	P	Ng	E	N	Lbr	D	Bl	Bl			
438.252A	I	W	T	E	Ssp	Br	D	Br	Br			
438.253	I	P	T	E	N	Tn	I	Br	Br			
438.254A	I	P	L†	E	N	Br	I	Y	Br	SAbh		
438.254B	I	P	T	E	N	Tn	I	Y	Br	Abh		
438.254C	I	P	L†	E	N	Br	I	Y	Br		SWa	
438.255	I	P	L†	E	N	Br	S	Gn	Bl			
438.256A	I	P	T	E	Ssp	Br	D	Y	Br			
438.259A	I	P	G	E	Ssp	Br	I	Y	Y			
438.260	I	P	G	E	N	Br	S	Y	lb			
438.268	I	W	G	E	N	Dbr	I	Y	Bf			
438.269	I	W	G	E	N	Br	S	Y	Bf			
438.271A	I	P	T	E	N	Tn	D	Y	Br			
438.272	I	P	T	E	N	Br	I	Y	Bl			
438.276	I	P	G	E	N	Bl	S	Y	Y			
438.283	I	P	T	E	Ssp	Br	I	Y	Br			
438.289	I	P	L†	E	N	Br	D	Lgn	Y			
438.291	I	W	T	E	N	Br	S	Y	Bl			
438.292	I	P	T	E	N	Br	D	Y	Y			
438.304A	I	P	T	Sa	N	Tn	I	Bl	Bl	Fleck		
438.305	I	P	T	E	N	Br	D	Y	Lbr			
438.309	I	P	G	E	N	Br	I	Y	lb			
438.316	I	P	G	E	N	Br	S	Y	Bf	Abh		
438.317	I	P	T	E	N	Br	I	Y	Y			
438.323	I	P	G	E	N	Br	D	Y	Bf			
438.324	I	P	T	E	N	Tn	S	Y	Y			
438.330A	I	P	T	E	Ssp	Br	I	Bl	Bl	Abh		
438.330B	I	P	L†	E	N	Br	I	Bl	Bl	Abh		
438.334A	I	P	G	E	N	Br	S	Y	Y			
438.339A	I	P	T	E	N	Br	I	Y	Br			
438.339B	I	P	T	E	N	Tn	I	Tn	Tn	Abh, SDef		
438.340A	I	P	T	E	N	Bl	I	Gn	Gn			
438.340B	I	P	T	E	N	Br	D	Lgn	Lgn			
438.350A	I	P	L†	E	N	Tn	S	Bl	Bl	Fleck		
438.350B	I	P	L†	E	N	Tn	S	Bl	Bl	Fleck		
438.361	I	P	L†	E	N	Tn	S	Bl	Bl	Fleck		
438.363	I	P	T	E	N	Br	S	Y	Bl	Saddle		

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.238A	36	98*	4.3	75	3.0	1.0	1.0	2.8	1.0	14.8	3.60
438.238B	34	100	3.1	80	3.0	1.0	1.0	2.5	1.0	14.0	3.59*
438.239B	41	102*	3.5	128*	4.5	1.0	1.0	2.0	-	11.4	3.50
438.240	37	100*	3.3*	126*	4.5	1.0	1.0	2.0	-	10.7	3.41*
438.241	35	100	3.0	86*	3.0	1.0	1.0	2.8	1.0	13.8	3.14
438.243	33	100	1.8*	75*	3.0	1.0	1.0	3.8	1.5	16.4	3.49
438.245	36	102	2.8	110	3.0	1.0	1.0	3.0	1.5	17.0	3.56*
438.246	30	101	1.8*	76	2.0	1.0	1.5	2.8	1.0	16.3	4.00
438.247	36	98	2.0	72	2.0	1.0	1.0	3.0	1.0	14.3	3.17
438.250A	40	102*	2.8	94*	3.0	1.0	1.0	2.5	-	12.6	3.12
438.252A	28	99	3.1	80	3.0	1.0	1.0	2.5	-	16.0	3.70*
438.253	42	103*	3.3	81*	3.0	1.0	1.0	2.8	-	18.0	3.29
438.254A	35	97	1.3	64	3.0	1.0	1.0	2.8	1.0	13.8	3.02
438.254B	36	102	2.0	64	2.0	1.0	1.0	2.3	1.5	13.0	3.62
438.254C	40	101	1.8	78	3.0	1.0	1.0	2.3	1.0	13.0	2.92
438.255	37	103	2.6	81	3.0	1.0	1.0	2.3	1.5	14.5	3.45
438.256A	34	96*	2.5	86	3.0	1.0	1.0	2.8	1.5	14.3	3.28
438.259A	35	99	2.0*	77	3.0	1.0	1.0	2.8	1.5	20.7	3.19
438.260	45	103	3.8	85*	3.0	1.0	1.0	2.3	1.0	14.5	3.26
438.268	36	102	2.3	77	3.0	1.0	1.0	2.8	1.0	17.1	3.88
438.269	32	100	3.8	95	3.0	1.0	1.0	2.8	1.0	17.0	3.66
438.271A	39	102*	4.3	100*	2.0	1.0	1.0	2.0	1.0	9.9	3.33
438.272	28	97	1.8	72*	2.0	1.0	1.0	2.5	1.0	16.4	3.36
438.276	31	94	1.2	67	3.0	1.0	1.0	2.8	1.5	16.3	3.48
438.283	34	102	1.8	72	1.0	2.5	3.5*	2.8	1.5	22.6	2.69*
438.289	35	98	2.3	82	3.0	1.0	1.0	2.8	3.0	14.1	3.00
438.291	35	100	2.1	100*	3.0	1.0	1.0	2.5	1.5	18.7	3.36
438.292	47	107*	4.0	106*	4.0	1.0	1.0	2.8	2.5	11.4	3.55
438.304A	39	99*	2.1*	52	1.0	1.5	2.0*	2.0	-	9.5	2.69*
438.305	42	102	2.3	93*	3.0	1.0	1.0	2.5	1.0	14.9	2.98
438.309	42	99	3.8*	72*	2.0	2.0	2.5*	2.5	1.0	9.6	2.52
438.316	31	99	2.8	101*	3.0	1.0	1.0	3.3	1.0	18.0	3.37
438.317	29	97	1.6*	97*	3.0	1.0	1.0	2.5	2.0	15.9	3.33
438.323	37	99	3.6	80	3.0	1.0	1.0	2.5	1.0	13.2	3.59
438.324	39	101	3.3	110	4.0	1.0	1.0	2.5	2.0*	12.7	3.24
438.330A	27	99	3.8*	80*	3.0	1.0	1.0	2.5	-	12.1	2.39
438.330B	31	99	3.3*	89	3.0	1.0	1.0	2.5	-	12.7	2.90
438.334A	29	92*	3.3	95*	4.0	1.0	1.0	2.5	1.0	12.0	2.86*
438.339A	38	101	3.0	102*	4.0	1.0	1.0	2.5	1.0	12.3	3.17
438.339B	35	100	2.6	69	2.0	1.0	1.0	2.3	3.0	11.1	3.19
438.340A	29	93	2.1	73	3.0	1.0	1.0	2.5	1.5	14.3	3.63
438.340B	34	97*	2.7	80*	3.0	1.0	1.0	2.5	2.0	13.5	3.44
438.350A	31	95	3.1	84*	4.0	1.0	1.0	2.5	-	9.3	2.77
438.350B	34	98	3.3	97*	4.0	1.0	1.0	2.5	-	9.0	3.12
438.361	34	97	3.3	93*	4.0	1.0	1.0	2.5	-	9.4	3.05
438.363	29	100*	2.5	84	3.0	1.0	1.0	2.5	-	15.8	3.62

Table 4.2

Seed composition data for USDA soybean germplasm in maturity group I, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.238A	I	19.5	43.3	11.1	3.1	25.4	53.2	6.9	0.1
438.238B	I	18.9	44.5	12.6	3.2	21.4	55.4	7.2	0.1
438.239B	I	16.5	43.6	13.0	3.0	26.5	50.3	7.0	0.0
438.240	I	16.8	42.9	13.2	3.0	24.4	51.7	7.4	0.1
438.241	I	19.5	42.1	12.2	3.4	25.3	50.6	8.4	0.1
438.243	I	18.1	45.5	12.2	3.4	24.9	52.1	7.3	0.0
438.245	I	19.5	43.8	11.9	3.1	26.7	51.5	6.5	0.0
438.246	I	20.7	40.6	11.1	3.4	27.9	50.9	6.5	0.0
438.247	I	17.4	44.0	13.4	4.0	19.3	55.0	8.1	0.1
438.250A	I	16.4	44.9	12.4	3.1	20.9	55.3	8.3	0.0
438.252A	I	20.0	42.9	11.1	3.4	24.2	54.1	7.0	0.1
438.253	I	18.3	46.0	11.6	3.0	22.6	54.7	7.8	0.0
438.254A	I	19.1	44.4	11.9	3.0	20.3	57.0	7.6	0.0
438.254B	I	19.4	43.8	12.0	3.0	20.4	56.7	7.7	0.0
438.254C	I	17.2	43.9	12.5	2.8	22.1	54.4	8.0	0.0
438.255	I	18.7	42.5	12.3	3.0	20.1	55.9	8.5	0.1
438.256A	I	18.1	44.6	11.6	3.5	25.4	52.8	6.5	0.0
438.259A	I	17.5	45.5	13.3	3.5	27.0	49.2	6.8	0.1
438.260	I	17.8	43.5	12.3	3.1	22.1	54.0	8.3	0.1
438.268	I	20.3	40.8	10.5	3.7	30.5	48.0	7.0	0.1
438.269	I	19.6	42.3	11.8	3.3	24.9	52.9	7.0	0.0
438.271A	I	18.4	40.5	13.4	3.3	17.4	56.0	9.7	0.1
438.272	I	20.4	40.6	11.6	3.6	22.0	55.5	7.1	0.1
438.276	I	18.5	44.2	12.0	3.3	20.9	56.1	7.6	0.1
438.283	I	19.5	43.0	11.8	2.6	26.8	52.2	6.3	0.1
438.289	I	17.9	44.8	12.1	2.9	22.8	55.1	6.9	0.1
438.291	I	17.8	46.4	11.5	3.6	25.4	52.6	6.7	0.1
438.292	I	18.2	44.9	13.7	3.3	19.7	55.1	7.9	0.1
438.304A	I	17.1	44.4	13.0	3.2	20.2	55.3	8.1	0.1
438.305	I	17.4	44.7	11.3	3.2	22.2	55.5	7.6	0.1
438.309	I	15.4	45.3	12.9	3.2	21.3	54.4	8.1	0.0
438.316	I	19.5	43.9	11.0	2.9	31.7	48.2	5.9	0.1
438.317	I	15.9	46.9	13.4	2.9	19.4	55.3	8.9	0.1
438.323	I	17.9	41.2	12.8	2.8	27.3	49.0	8.0	0.0
438.324	I	17.0	44.6	12.5	2.8	23.0	53.7	7.9	0.0
438.330A	I	17.8	44.6	12.3	3.0	23.4	54.6	6.6	0.0
438.330B	I	17.4	46.0	12.5	2.9	23.1	53.7	7.8	0.0
438.334A	I	19.3	42.8	11.7	2.8	22.3	55.5	7.5	0.1
438.339A	I	19.1	42.9	12.4	3.3	20.3	56.3	7.4	0.1
438.339B	I	18.0	43.3	13.9	3.1	18.8	56.2	7.8	0.1
438.340A	I	18.8	44.3	13.5	3.4	22.0	53.8	7.1	0.0
438.340B	I	17.0	45.5	12.4	3.2	20.8	55.4	8.0	0.1
438.350A	I	16.6	45.3	12.2	2.9	31.8	47.0	6.0	0.0
438.350B	I	16.9	44.5	11.8	3.1	30.5	48.0	6.4	0.1
438.361	I	16.9	44.3	11.9	3.2	28.1	50.1	6.5	0.0
438.363	I	19.6	43.3	10.5	3.6	24.7	54.2	7.0	0.0

Table 1.2

Identification and origin information for USDA soybean germplasm
in maturity group I, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.366	Chmelarova Brnenska SVA	VIR 5721	USSR	Czechoslovakia	1980	I
438.372	Roudnieka Cerna	VIR 5748	USSR	Czechoslovakia	1980	I
438.376	Tokio Vert	VIR 5757	USSR	France	1980	I
438.381	Rejzen Zeltaja	VIR 5097	USSR	Germany	1980	I
438.398	Cleistogama	VIR 5805	USSR	Hungary	1980	I
438.401	GA-12	VIR 5666	USSR	Hungary	1980	I
438.407	Iregi 1	VIR 5669	USSR	Hungary	1980	I
438.410	Mauthners Gelbe	VIR 5684	USSR	Hungary	1980	I
438.413	Pannonia 8	VIR 5744	USSR	Hungary	1980	I
438.418	Soto	VIR 5686	USSR	Hungary	1980	I
438.423	Zagrebacka Rana	VIR 5818	USSR	Hungary	1980	I
438.443	Barburka Przebedowska	VIR 5711	USSR	Poland	1980	I
438.458	Dieckmann	VIR 5237	USSR	Romania	1980	I
438.465	Mandohu Roudnice 86	VIR 5901	USSR	Romania	1980	I
438.467	Rejner	VIR 5234	USSR	Romania	1980	I
438.492	Elton	VIR 178	USSR	USA	1980	I
438.493	Elton Early	VIR 969	USSR	USA	1980	I
438.494	Ito san	VIR 61	USSR	USA	1980	I
438.502	W.L.A.	VIR 3944	USSR	USA	1980	I
438.504A		VIR 24a	USSR	USA	1980	I
438.509A		VIR 202	USSR	USA	1980	I
438.511	Dobrudza	VIR 5542	USSR	Yugoslavia	1980	I
442.004	Feng yuan quing		China	China	1980	I
445.802	Fruwirths Schwarze Pedoja	53	E. Germany	E. Germany	1980	I
445.819	Raststatter Schwarze	129/76	E. Germany	E. Germany	1980	I
445.828	Cianturkaia		Romania	Romania	1980	I
445.830	Flora		Romania	Romania	1980	I
445.834	Iasi 10		Romania	Romania	1980	I
445.837	Violeta		Romania	Romania	1980	I

Table 2.2
Descriptive data for USDA soybean germplasm in maturity
group I, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438,366	I	P	T	E	N	Br	S	Br	Br			Dab
438,372	I	P	L†	E	N	Tn	S	Bl	Bl	Fleck		
438,376	I	P	L†	E	N	Tn	D	Bl	Bl			
438,381	I	P	G	E	Ssp	Br	I	Y	Y			
438,398	I	P	T	E	N	Br	I	Bl	Bl			
438,401	I	P	T	E	Ssp	Br	D	Y	Br			
438,407	I	W	T	E	N	Tn	I	Y	G			
438,410	I	P	T	E	N	Tn	I	Y	Br	Abh		
438,413	I	W	G	E	N	Br	I	Y	Y			
438,418	I	P	T	E	Ssp	Br	S	Rbr	Rbr	Abh		
438,423	I	P	G	E	N	Br	I	Y	Y			
438,443	I	P	T	E	N	Br	I	Bl	Bl			
438,458	I	P	T	E	Ssp	Br	I	Y	Y			
438,465	I	P	G	E	N	Br	D	Y	Bf			
438,467	I	P	T	E	N	Br	D	Y	Y	Abh		
438,492	I	P	G	E	N	Br	D	Y	Bf			
438,493	I	P	G	E	N	Bl	S	Y	Y			
438,494	I	P	G	E	N	Br	S	Y	Y			
438,502	I	W	T	E	Ssp	Bl	S	Bl	Bl	Gncot		
438,504A	I	P	T	E	N	Br	D	Bl	Bl	Fleck		
438,509A	I	W	T	E	Ssp	Br	I	Bl	Bl			
438,511	I	P	T	E	N	Br	D	Y	Br	Abh		
442,004	I	W	G	E	N	Br	S	Y	Y			
445,802	I	P	T	E	N	Br	I	Bl	Bl			
445,819	I	P	L†	E	N	Tn	I	Bl	Bl	Fleck		
445,828	I	P	T	E	N	Br	D	Y	Y			
445,830	I	P	T	E	N	Br	D	Y	G			
445,834	I	P	T	E	N	Br	I	Y	Br	Abh		
445,837	I	P	T	E	N	Br	D	Y	Y			

Table 3.2

Agronomic data for USDA soybean germplasm in maturity group I,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.366	36	101*	3.3	85*	3.0	1.0	1.0	2.3	-	12.3	2.85
438.372	34	96	3.3	95*	4.0	1.0	1.0	2.5	-	9.8	2.95*
438.376	41	101*	3.0	102*	4.0	1.0	1.0	2.5	-	12.0	3.48*
438.381	39	103*	3.0	77*	3.0	1.0	1.0	2.5	1.5	18.8	3.76
438.398	27	97	2.8	90*	4.0	1.0	1.0	2.5	-	13.4	3.21
438.401	38	102	2.3	99	3.0	1.0	1.0	2.3	1.5	13.1	3.63
438.407	31	99	1.8	87*	3.0	1.0	1.0	2.8	1.5	14.9	3.51
438.410	41	101*	1.8	70	3.0	1.0	1.0	2.0	1.0	12.5	3.72
438.413	29	92*	2.5	94*	3.0	1.0	1.0	2.5	1.0	16.2	3.11*
438.418	29	96	3.1	76	2.0	1.0	1.0	2.8*	-	11.9	3.18
438.423	28	90*	2.1	104*	3.0	1.0	1.0	3.0	1.0	17.6	3.18*
438.443	28	98	2.5	100*	4.0	1.0	1.0	2.5	-	13.4	3.28
438.458	29	96	2.6	68	3.0	1.0	1.0	2.8	1.0	14.1	2.80
438.465	27	100	3.1	105	4.0	1.0	1.5	2.3	1.0	14.0	3.41
438.467	30	88	2.1*	59*	3.0	1.0	1.0	2.5	1.0	11.4	3.06*
438.492	38	101*	3.3	100*	3.0	1.0	1.0	3.0	1.0	15.2	3.70*
438.493	37	97	2.0	62*	3.0	1.0	1.0	2.5	1.5	16.4	3.66
438.494	38	100	1.3	75*	3.0	1.0	1.0	2.5	1.5	17.6	3.37
438.502	33	93*	1.3	84	3.0	1.0	1.0	2.5	-	15.0	2.98
438.504A	43	102*	3.8	87*	3.0	1.5	2.0*	2.3	-	10.2	3.30
438.509A	44	101*	3.1	95	3.5	1.0	1.0	2.5	-	12.7	3.32
438.511	37	101	3.3*	88	3.0	1.5	1.5	2.5	1.0	11.7	3.36*
442.004	29	91*	1.1	74*	3.0	1.0	1.0	2.3	1.5	16.5	3.12*
445.802	26	93	2.3*	87*	3.5	1.0	1.5	2.5	-	14.4	2.96
445.819	28	95	2.8	90*	4.0	1.0	1.0	2.5	-	9.6	2.72
445.828	41	102	3.3	88*	3.0	1.0	1.5	2.8	1.5	15.1	3.59*
445.830	35	100	1.6	88*	3.0	1.0	1.0	2.3	1.0	13.1	3.87*
445.834	36	91	2.5	77*	3.0	1.0	1.0	2.0	1.0	10.6	2.97
445.837	31	102	1.8	82*	3.0	1.0	1.0	3.3	1.5	12.6	4.21

Table 4.2

Seed composition data for USDA soybean germplasm in maturity
group I, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438,366	I	16.7	45.0	13.3	3.0	19.8	55.8	7.9	0.1
438,372	I	16.9	45.1	12.3	3.1	29.8	48.6	5.9	0.0
438,376	I	16.8	45.1	11.4	2.9	21.0	56.9	7.6	0.0
438,381	I	18.7	43.3	12.2	3.2	25.7	51.8	6.8	0.1
438,398	I	17.3	46.4	11.6	3.1	24.9	53.7	6.5	0.1
438,401	I	18.4	43.8	11.8	3.0	20.2	55.6	9.2	0.1
438,407	I	20.2	42.1	11.6	3.1	23.3	54.7	7.2	0.1
438,410	I	17.9	42.7	12.8	3.3	24.6	51.6	7.5	0.0
438,413	I	21.8	40.1	11.3	3.9	27.4	50.9	6.3	0.1
438,418	I	19.5	42.2	12.9	3.6	24.4	52.0	6.9	0.1
438,423	I	17.1	45.8	12.4	2.8	23.0	53.6	7.9	0.1
438,443	I	17.4	47.3	11.5	3.1	25.2	53.8	6.3	0.1
438,458	I	16.2	46.7	11.9	3.2	19.8	55.6	9.2	0.1
438,465	I	18.3	42.9	12.8	2.7	27.1	48.8	8.4	0.0
438,467	I	17.5	44.7	12.1	2.7	18.0	57.1	9.8	0.1
438,492	I	18.4	42.9	12.8	2.9	19.8	55.3	9.0	0.1
438,493	I	20.0	41.0	12.3	3.3	23.8	52.8	7.6	0.0
438,494	I	18.5	44.2	11.9	2.8	23.6	53.6	7.8	0.0
438,502	I	18.7	43.5	11.7	3.0	29.3	48.8	7.0	0.0
438,504A	I	18.0	42.4	13.2	2.8	19.4	55.3	9.1	0.0
438,509A	I	17.7	42.8	11.2	3.3	24.7	52.4	8.3	0.0
438,511	I	17.4	43.4	12.6	3.3	24.3	51.7	7.9	0.0
442,004	I	21.0	41.8	11.9	4.1	27.1	50.7	6.0	0.0
445,802	I	16.2	49.0	11.9	3.1	24.6	53.9	6.3	0.0
445,819	I	16.7	44.9	11.7	3.3	34.1	45.2	5.6	0.0
445,828	I	17.2	44.0	12.6	2.9	22.0	52.7	9.6	0.1
445,830	I	21.2	40.2	11.8	3.6	20.7	56.4	7.3	0.0
445,834	I	18.8	42.4	12.6	3.6	23.6	52.8	7.2	0.0
445,837	I	19.8	41.0	10.8	3.3	19.5	58.5	7.7	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
	Ancor		USA	USA	1979	II
	BSR 201		USA	USA	1982	II
	Century		USA	USA	1979	II
	Corsoy 79		USA	USA	1979	II
	Gnome		USA	USA	1979	II
	Harcor		Canada	Canada	1975	II
	Keller		USA	USA	1983	II
	Platte		USA	USA	1982	II
	Sloan		USA	USA	1978	II
427.137	Backmokjangyeup		Canada	S. Korea	1978	II
427.139	Owonchoseng ji doo		Canada	S. Korea	1978	II
427.140	Saeyup No. 1		Canada	S. Korea	1978	II
430.596	Fu pe tou		China	China	1978	II
430.597	Lo chi hong tou tzu		China	China	1978	II
436.562	Ai jiao zao		China	China	1979	II
436.685	Tie feng 19		China	China	1979	II
437.080	Amurscaja 263	VIR 4956	USSR	USSR	1980	II
437.084	Nadezda	VIR 4982	USSR	USSR	1980	II
437.087	DV-146	VIR 4570	USSR	USSR	1980	II
437.089	DV-166	VIR 4581	USSR	USSR	1980	II
437.093	DV-424	VIR 4566	USSR	USSR	1980	II
437.099	DV-0117	VIR 5006	USSR	USSR	1980	II
437.104	DV-0804	VIR 5010	USSR	USSR	1980	II
437.105D	(Gunczulinskaja)	(VIR 1014)	USSR	USSR	1980	II
437.109B		(VIR 243)	USSR	USSR	1980	II
437.111		VIR 248	USSR	USSR	1980	II
437.112A		VIR 249	USSR	USSR	1980	II
437.112B		(VIR 249)	USSR	USSR	1980	II
437.118B		(VIR 535)	USSR	USSR	1980	II
437.120		VIR 1017	USSR	USSR	1980	II
437.121B		(VIR 1023)	USSR	USSR	1980	II
437.122		VIR 1026	USSR	USSR	1980	II
437.128		VIR 5242	USSR	USSR	1980	II
437.129A		VIR 555	USSR	USSR	1980	II
437.130	Gibrid ASS 9	VIR 5050	USSR	USSR	1980	II
437.131	Gibrid ASS 13	VIR 5054	USSR	USSR	1980	II
437.135B	(Amurzejskaja)	(VIR 4964)	USSR	USSR	1980	II
437.143	DV-2398	VIR 4377	USSR	USSR	1980	II
437.145B	(DVIZ-13-563)	(VIR 4967)	USSR	USSR	1980	II
437.151	COS-578	VIR 4981	USSR	USSR	1980	II
437.153B	(Cubanscaja 33)	(VIR 5573)	USSR	USSR	1980	II
437.164	Nepolegajusaja 2	VIR 5651	USSR	USSR	1980	II
437.165B	(Toncostebel'naja 27)	(VIR 5244)	USSR	USSR	1980	II
437.169B	(VNIISC-4)	(VIR 4986)	USSR	USSR	1980	II
437.306B	(Gorscaja 39)	(VIR 4559)	USSR	USSR	1980	II
437.308	Gorscaja 184	VIR 4554	USSR	USSR	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
Amcor	II	P	G	E	N	Br	S	Y	Y			
BSR 201	II	W	G	E	N	Br	D	Y	Bf			
Century	II	P	T	E	N	Br	D	Y	Bl			
Corsoy 79	II	P	G	E	N	Br	D	Y	Y			
Gnome	II	P	T	E	N	Tn	S	Y	Bl			
Harcor	II	P	G	E	N	Br	S	Y	Y			
Keller	II	P	G	E	N	Br	S	Y	Ib			
Platte	II	P	G	E	N	Br	S	Y	Y			
Sloan	II	W	T	E	N	Br	S	Y	Br			
427.137	II	W	G	E	Ssp	Br	I	Y	Y		Na	
427.139	II	P	T	E	N	Br	D	Y	Bl			
427.140	II	P	T	E	Ssp	Br	D	Y	Br		Na	
430.596	II	W	G	Sa	N	Tn	D	Y	Bf			
430.597	II	W	T	Sa	N	Br	I	Br	Br			
436.562	II	W	L†	A	N	Br	I	Y	Lbr			
436.685	II	W	G	E	Ssp	Tn	S	Y	Y		Na	
437.080	II	P	T	E	N	Br	I	Bl	Bl	Fleck	Dab	
437.084	II	P	T	E	N	Br	D	Y	Y			
437.087	II	P	T	E	N	Br	S	Y	Br			
437.089	II	P	T	E	Ssp	Br	D	Y	Br			
437.093	II	P	T	E	N	Br	S	Y	Br			
437.099	II	P	T	E	Ssp	Br	D	Y	Y			
437.104	II	P	T	E	N	Br	I	Y	Y			
437.105D	II	P	G	E	N	Br	S	Y	Bf			
437.109B	II	P	L†	E	N	Br	S	Br	Br			
437.111	II	P	T	E	N	Br	D	Y	Bl			
437.112A	II	W	G	E	Ssp	Tn	S	Y	Y			
437.112B	II	W	G	E	N	Tn	I	Y	Bf			
437.118B	II	P	G	E	N	Br	I	Y	Bf		Wa	
437.120	II	P	T	E	N	Br	D	Y	Br			
437.121B	II	P	T	E	Ssp	Br	D	Y	Br			
437.122	II	P	T	E	Ssp	Br	D	Y	Br			
437.128	II	W	G	E	N	Dbr	S	Y	Lbf			
437.129A	II	W	L†	E	N	Br	I	Br	Br			
437.130	II	W	G	E	N	Br	I	Y	Bf			
437.131	II	W	G	E	N	Br	D	Y	Y			
437.135B	II	W	G	E	N	Tn	S	Y	Bf			
437.143	II	P	T	E	N	Br	D	Y	Y			
437.145B	II	P	T	E	N	Bl	I	Br	Br		Dab	
437.151	II	W	T	E	N	Br	D	Y	Bl			
437.153B	II	W	G	E	N	Dbr	S	Y	Bf			
437.164	II	P	T	E	N	Tn	S	Y	Br	Abh		
437.165B	II	W	G	E	N	Br	S	Y	Bf			
437.169B	II	P	G	E	N	Br	D	Y	Ib			
437.306B	II	P	T	E	N	Tn	I	Y	Br	SAbh		
437.308	II	P	T	E	N	Br	I	Y	Y			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower-	Matur-	Lodging	Height	Stem	Shattering		Seed	Mottling	Seed	Seed
	ing	ity			term-	Early	Late				
	(days after				ina-							quality	weight	yield
	May 31)		(score)	(cm)	(score)	(score)	(score)	(score)	(cg/seed)	(Mg/ha)	
Amcor	28*	106	2.3*	106*	3.0	1.0	1.0	2.8	1.5	17.8	3.65
BSR 201	27	103	1.5	89*	3.0	1.0	1.0	2.5	1.0	16.6	3.55*
Century	25*	105	1.6*	89*	3.0	1.0	1.0	3.0	1.5	18.8	3.47*
Corsoy 79	26*	99*	1.8	98*	3.0	1.0	1.0	2.5	1.5	15.8	3.61
Gnome	35	110	1.0	52	1.0	1.0	1.0	1.5	1.0	15.3	3.52*
Harcor	28*	101*	1.8*	99*	3.0	1.0	1.0	2.3	1.0	16.1	3.51*
Keller	28	104	1.6*	82*	3.0	1.0	1.0	3.0	1.0	21.3	3.40*
Platte	29*	105	1.3	101*	3.0	1.0	1.0	2.5	1.0	16.7	3.98
Sloan	30*	105	2.3*	99*	3.0	1.0	1.0	2.8	1.0	17.6	4.14
427.137	41*	111	2.3*	66*	1.5	2.0	2.0	2.5	2.0	23.1*	2.58*
427.139	38*	111	2.3	114	3.0	1.0	1.5	3.0	1.5	14.0	2.86
427.140	40*	107*	1.3	60	1.0	2.5	5.0	2.3	3.5	15.9	2.64
430.596	54*	108*	4.0	78*	2.0	1.5	4.5	1.5	2.0*	9.7	2.21
430.597	52*	106*	3.5	93*	2.5	3.0*	5.0	2.3	-	9.8	1.63*
436.562	42*	96*	2.0	64*	1.5	2.0*	3.0*	2.0	1.0	16.0	2.05*
436.685	30*	105	2.3	95	3.0	1.0	1.5	2.0	1.0	18.0	3.44
437.080	25*	101*	4.3	114*	3.0	1.0	1.0	2.0	-	11.5	2.62
437.084	40*	104*	2.1	93*	3.0	1.0	1.5	2.5	3.0*	17.8	3.21
437.087	43*	109*	4.3	100*	3.0	1.0	1.0	3.0	2.5	16.1	2.94
437.089	33*	100*	3.3	93	3.0	1.0	1.0	2.3	1.5	13.6	2.66
437.093	32*	103*	3.3	121*	4.0	1.0	1.0	2.5	2.0	17.7*	3.12
437.099	35*	100*	2.3	103*	3.0	1.0	1.0	2.5	1.5	14.8	2.90
437.104	37*	103*	2.5	101*	3.0	1.0	1.5	2.3	2.5	15.0	2.57
437.105D	33*	104	3.0*	74*	1.5	1.0	1.0	2.5	1.0	14.4	3.14*
437.109B	42*	107*	4.3	102*	3.0	1.0	1.5	3.3*	-	9.5	2.35*
437.111	34	100*	2.8	98	3.0	1.0	1.0	2.3	2.0	14.1	2.72
437.112A	46*	111	4.3	87	3.0	1.0	2.0	2.8	1.5	12.2	2.40*
437.112B	42*	103*	2.8*	73	2.0	1.0	1.0	1.8	1.5	10.9	2.75*
437.118B	36	103*	1.8	97*	3.5	1.0	1.0	2.0	1.0	14.8	2.87
437.120	35	105	2.3	96*	3.0	1.0	1.0	2.8	2.5	15.2	2.63
437.121B	40*	107*	3.3	116	4.0	1.0	1.0	2.0	1.0	14.4	3.42
437.122	39*	103*	3.0	109*	4.0	1.0	1.0	2.3	2.0	15.0	3.16
437.128	38*	108	2.5	99*	3.0	1.0	1.0	2.8	1.0	16.5	3.17*
437.129A	40*	108*	2.6	95	3.0	1.0	1.0	2.0	-	13.0	2.52
437.130	31*	97*	2.8*	87*	2.0	1.0	1.0	2.8	1.0	16.5	2.86
437.131	43*	104*	2.3*	84	3.0	1.0	1.0	2.8	1.0	16.2	2.81
437.135B	36*	99	1.3	75	3.0	1.0	1.0	2.5	1.0	14.6	2.68
437.143	35*	103*	2.0	94*	3.0	1.0	1.0	2.5	3.5	16.0	2.53
437.145B	40*	102*	3.8*	108	3.0	1.0	1.0	2.0	-	12.5	2.71
437.151	34*	103*	2.8*	96*	3.0	1.0	1.0	2.5	1.5	17.7	3.28
437.153B	34*	102*	2.3	92*	3.0	1.0	1.0	2.3	1.0	15.7	3.14
437.164	37*	101	1.2	64*	2.0	1.0	1.0	1.5	1.5	12.5	2.79*
437.165B	45*	106	2.8	75	2.0	1.0	1.0	1.5	1.0	9.5	2.51
437.169B	30*	103*	1.3	102*	3.0	1.0	1.0	2.0	1.0	17.5	3.54
437.306B	39*	103	1.8	68	2.0	1.0	1.0	1.8	1.0	11.6	2.50*
437.308	40*	108*	2.3	108	3.0	1.0	2.0	2.5	2.5	14.4	2.63

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
Ancor	II	20.2	40.6	10.8	2.3	23.8	56.5	6.6	0.0
BSR 201	II	20.0	42.0	11.3	3.2	20.0	58.9	6.6	0.0
Century	II	20.7	43.2	10.8	3.0	20.7	58.9	6.6	0.0
Corsoy 79	II	21.5	39.6	11.7	2.2	22.7	56.8	6.6	0.0
Gnome	II	21.5	43.0	11.2	2.7	20.6	58.9	6.6	0.0
Harcor	II	20.9	41.1	11.2	2.3	23.9	56.6	6.0	0.0
Keller	II	20.4	43.3	10.7	2.8	19.6	60.0	6.9	0.0
Platte	II	21.6	40.6	10.5	2.4	22.2	58.0	6.9	0.0
Sloan	II	23.2	40.4	11.4	2.7	21.1	57.8	7.0	0.0
427.137	II	20.9	42.6	11.7	2.4	23.0	55.9	7.0	0.0
427.139	II	20.4	40.9	11.2	3.1	20.3	58.1	7.1	0.0
427.140	II	18.9	42.7	12.4	2.7	19.4	58.1	7.3	0.0
430.596	II	16.6	46.6	11.5	2.4	23.7	53.7	8.5	0.2
430.597	II	15.1	46.8	12.7	2.5	24.0	52.6	8.2	0.1
436.562	II	17.3	44.8	12.6	1.8	25.0	54.0	6.5	0.0
436.685	II	20.4	42.4	10.3	1.6	25.0	56.9	6.1	0.0
437.080	II	16.2	45.3	12.0	2.1	23.0	56.0	6.7	0.0
437.084	II	19.1	45.5	10.3	2.5	22.6	57.8	6.8	0.0
437.087	II	18.0	46.8	11.5	2.7	23.9	55.9	6.0	0.0
437.089	II	19.9	42.7	10.8	2.2	20.0	59.5	7.6	0.0
437.093	II	18.7	45.2	11.4	2.5	22.9	56.5	6.7	0.0
437.099	II	18.0	46.4	10.8	2.4	18.9	59.4	8.5	0.0
437.104	II	18.4	45.3	12.6	2.8	21.7	57.0	5.9	0.0
437.105D	II	20.2	43.1	11.2	3.0	21.0	57.7	7.1	0.0
437.109B	II	14.5	44.7	12.4	3.1	21.6	54.7	8.2	0.0
437.111	II	20.1	42.4	10.6	2.3	24.3	55.7	7.1	0.0
437.112A	II	15.4	48.2	13.0	4.1	28.8	47.7	6.4	0.0
437.112B	II	16.4	46.4	13.2	3.5	25.1	51.9	6.2	0.0
437.118B	II	19.2	44.2	12.8	2.7	22.7	55.5	6.4	0.0
437.120	II	20.1	44.3	11.0	2.4	21.1	58.5	7.0	0.0
437.121B	II	20.4	42.4	11.1	2.5	20.9	58.4	7.1	0.0
437.122	II	20.9	42.0	10.9	2.6	25.0	55.1	6.4	0.0
437.128	II	20.3	41.0	12.2	3.2	27.4	50.7	6.4	0.0
437.129A	II	17.8	45.2	12.3	3.6	21.7	54.5	7.8	0.0
437.130	II	21.9	40.6	11.6	2.5	19.9	58.6	7.3	0.0
437.131	II	20.3	43.4	11.5	2.7	25.6	53.5	6.7	0.0
437.135B	II	21.2	41.8	11.2	2.8	25.5	54.1	6.4	0.0
437.143	II	20.3	44.6	12.4	2.8	23.6	53.5	7.6	0.0
437.145B	II	16.3	47.2	12.9	3.3	18.6	56.2	8.9	0.0
437.151	II	20.4	43.9	11.1	3.0	25.0	54.0	6.9	0.0
437.153B	II	20.4	42.7	10.6	3.2	26.1	53.2	6.9	0.0
437.164	II	18.4	44.4	12.9	2.9	24.5	53.5	6.2	0.0
437.165B	II	17.4	46.0	12.3	3.3	13.8	60.2	10.4	0.0
437.169B	II	22.0	42.3	11.2	3.3	26.0	53.9	5.6	0.0
437.306B	II	17.8	45.6	12.7	2.9	24.2	53.9	6.4	0.0
437.308	II	18.6	45.0	12.5	2.7	20.2	58.0	6.6	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.309	Gorscaja 278	VIR 4552	USSR	USSR	1980	II
437.311A	Gorscaja 384	VIR 4553	USSR	USSR	1980	II
437.311B	(Gorscaja 384)	(VIR 4553)	USSR	USSR	1980	II
437.324	DV-28	VIR 4102	USSR	USSR	1980	II
437.325	DV-117	VIR 4104	USSR	USSR	1980	II
437.326	DV-184	VIR 4106	USSR	USSR	1980	II
437.328	DV-428	VIR 4105	USSR	USSR	1980	II
437.331	DV-2338	VIR 4345	USSR	USSR	1980	II
437.335	DV-2400	VIR 4383	USSR	USSR	1980	II
437.337	DV-2601	VIR 4612	USSR	USSR	1980	II
437.340B	(DVIZ 1477)	(VIR 4350)	USSR	USSR	1980	II
437.340C	(DVIZ 1477)	(VIR 4350)	USSR	USSR	1980	II
437.341	Gibrid 1126	VIR 5605	USSR	USSR	1980	II
437.344D	(L-1088)	(VIR 5606)	USSR	USSR	1980	II
437.345	Polucul'turnaja	VIR 5776	USSR	USSR	1980	II
437.346	Primorscaja 1	VIR 4124	USSR	USSR	1980	II
437.347	Primorscaja 8	VIR 4168	USSR	USSR	1980	II
437.355	Ussurijscaja 11	VIR 4220	USSR	USSR	1980	II
437.356	Ussurijscaja 19	VIR 4207	USSR	USSR	1980	II
437.358	Ussurijscaja 56-147	VIR 4161	USSR	USSR	1980	II
437.360	Ussurijscaja 88	VIR 4209	USSR	USSR	1980	II
437.361	Ussurijscaja 134	VIR 4160	USSR	USSR	1980	II
437.362	Ussurijscaja 138	VIR 4154	USSR	USSR	1980	II
437.364	Ussurijscaja 153	VIR 4126	USSR	USSR	1980	II
437.369	Ussurijscaja 190	VIR 4125	USSR	USSR	1980	II
437.371	Ussurijscaja 211	VIR 4171	USSR	USSR	1980	II
437.374	Ussurijscaja 267	VIR 4172	USSR	USSR	1980	II
437.375A	Ussurijscaja 300	VIR 4179	USSR	USSR	1980	II
437.375B	(Ussurijscaja 300)	(VIR 4179)	USSR	USSR	1980	II
437.378B	(Ussurijscaja 429)	(VIR 4174)	USSR	USSR	1980	II
437.378C	(Ussurijscaja 429)	(VIR 4174)	USSR	USSR	1980	II
437.381D	(Ussurijscaja 434)	(VIR 4131)	USSR	USSR	1980	II
437.382	Ussurijscaja 443	VIR 4184	USSR	USSR	1980	II
437.383	Ussurijscaja 446	VIR 4186	USSR	USSR	1980	II
437.386	Ussurijscaja 451	VIR 4133	USSR	USSR	1980	II
437.387	Ussurijscaja 452	VIR 4135	USSR	USSR	1980	II
437.389C	(Ussurijscaja 456)	(VIR 4136)	USSR	USSR	1980	II
437.399	Ussurijscaja 482	VIR 4194	USSR	USSR	1980	II
437.400	Ussurijscaja 482	VIR 4195	USSR	USSR	1980	II
437.402	Ussurijscaja 486	VIR 4223	USSR	USSR	1980	II
437.404	Ussurijscaja 492	VIR 4225	USSR	USSR	1980	II
437.407	Ussurijscaja 497	VIR 4228	USSR	USSR	1980	II
437.409	Ussurijscaja 505	VIR 4230	USSR	USSR	1980	II
437.410	Ussurijscaja 506	VIR 4231	USSR	USSR	1980	II
437.415	Ussurijscaja 511	VIR 4236	USSR	USSR	1980	II
437.416	Ussurijscaja 512	VIR 4237	USSR	USSR	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.309	II	W	T	E	Ssp	Lbr	D	G	G		Dab	
437.311A	II	P	T	E	Ssp	Br	I	Y	Y			
437.311B	II	P	T	E	N	Br	I	Y	Y	SAbh		
437.324	II	P	T	E	N	Br	D	Y	Y			
437.325	II	P	T	E	N	Br	D	Y	Y			
437.326	II	P	T	E	N	Br	I	Y	Y			
437.328	II	P	T	E	N	Br	D	Y	Br			
437.331	II	W	G	E	N	Br	I	Y	Y			
437.335	II	P	G	E	N	Br	D	Y	Bf			
437.337	II	P	G	E	N	Br	S	Y	Y			
437.340B	II	P	T	E	N	Br	I	G	G			
437.340C	II	P	T	E	N	Br	I	Y	Y			
437.341	II	W	G	E	N	Tn	S	Y	Bf			
437.344D	II	P	G	E	N	Br	S	Y	Bf		Na	
437.345	II	Dp	T	A	Sp	Dbr	I	Bl	Bl			Sw
437.346	II	W	T	E	N	Br	D	Y	G			
437.347	II	P	T	E	N	Br	D	Y	Bl			
437.355	II	W	G	E	N	Br	D	Y	Lbf			
437.356	II	P	T	E	Ssp	Br	D	Y	Br			
437.358	II	W	G	E	N	Br	D	Y	Y			
437.360	II	P	T	E	N	Br	S	Y	Y			
437.361	II	P	T	E	N	Br	I	Y	Br			
437.362	II	P	T	E	Ssp	Br	D	Y	Bl			
437.364	II	P	T	E	N	Br	I	Y	Y			
437.369	II	P	T	E	N	Br	D	Y	Br			
437.371	II	P	T	E	Ssp	Br	D	Y	Br			
437.374	II	P	T	E	N	Br	S	Y	Bl			
437.375A	II	P	T	E	N	Br	I	Y	Y			
437.375B	II	W	G	E	N	Dbr	S	Y	Lbf			
437.378B	II	P	T	E	N	Br	I	Y	Y			
437.378C	II	P	G	E	N	Br	S	Y	Y			
437.381D	II	P	G	E	N	Tn	D	Y	Bf			
437.382	II	W	G	E	N	Br	S	Y	Y			
437.383	II	P	T	E	Ssp	Br	D	Y	Br			
437.386	II	P	T	E	N	Br	D	Br	Br		Dab	
437.387	II	P	T	E	N	Br	S	Y	Br			
437.389C	II	P	T	E	N	Lbr	I	Y	Br			
437.399	II	P	T	E	N	Tn	D	Y	Lbl			
437.400	II	W	G	E	N	Tn	D	Y	Bf			
437.402	II	P	T	E	Ssp	Br	D	Y	Bl			
437.404	II	W	G	E	N	Br	D	Y	Bf			
437.407	II	P	T	E	N	Br	D	G	G			
437.409	II	P	T	E	Ssp	Br	I	Y	Br			
437.410	II	W	G	E	N	Bl	S	Y	Y			
437.415	II	P	T	E	Ssp	Br	D	Y	Lbl			
437.416	II	P	T	E	N	Br	D	Y	Y			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.309	35*	104*	2.8	103*	3.0	1.0	1.5	2.3	2.5	15.2	2.86
437.311A	38*	104*	2.6	103	3.0	1.0	1.0	2.5	2.5	16.0	2.78
437.311B	31	109	2.3	81*	1.5	1.0	1.0	2.5	2.5	17.0	3.07
437.324	40*	102*	2.0	96*	3.0	1.0	1.0	2.3	2.0*	17.1*	3.19
437.325	41*	106*	2.8	100	3.0	1.0	1.5	2.3	3.0*	16.6	3.11
437.326	38	105*	2.3	99	3.0	1.0	1.5	2.3	3.0*	15.2	3.07
437.328	40*	107*	2.7	113*	4.0	1.0	1.0	2.0	2.5	14.0	3.43
437.331	27*	101*	1.5	97*	3.0	1.0	1.0	2.3	1.5	20.6*	3.19
437.335	33*	104*	2.8	104*	4.0	1.0	1.0	2.8	2.0	16.3	3.18
437.337	37	108*	3.0	104	4.0	1.0	1.0	2.3	2.0*	15.2	2.97
437.340B	34	107*	2.8	133	4.0	1.0	1.0	2.8	2.5	19.8*	3.44
437.340C	41*	106*	2.7	127	4.0	1.0	1.0	2.8	2.5	13.9	2.83
437.341	40*	105	2.0	106*	3.5	1.0	1.0	2.0	1.0	15.2	3.64
437.344D	34*	105*	3.8	115*	3.5	1.0	1.0	2.5	1.0	15.1	3.21*
437.345	41*	96*	4.5	66*	5.0	1.5	1.5	1.5	-	4.2	1.56
437.346	28*	103*	2.8	101	2.5	1.0	1.0	3.0	2.0	17.6	2.97
437.347	40*	104*	3.3*	103*	3.5	1.0	1.0	2.3	2.5	10.7	2.57
437.355	31*	101*	2.0	88	3.0	1.0	1.0	2.5	2.5	20.6	2.77
437.356	37*	109*	3.9	100	3.0	1.0	1.0	2.8	2.0	15.1	2.67
437.358	26*	105*	2.1*	106*	3.0	1.0	1.0	3.0	2.0	18.6*	3.09
437.360	37	103*	3.5	134*	4.0	1.0	1.0	2.5	3.5	15.1	2.63
437.361	37	109*	3.3	113	3.0	1.0	1.0	3.5	1.5	16.8	2.96
437.362	37*	106*	3.0	107*	3.5	1.0	1.0	2.0	2.5	12.7	2.71
437.364	31*	104*	3.1	98*	3.0	1.0	1.0	2.5	2.0	16.6	3.02
437.369	33	102*	2.5	91*	3.0	1.0	1.0	2.8	2.0	17.0	2.87
437.371	33*	101*	2.5	90	3.0	1.0	1.0	2.5	2.0	16.5	3.02
437.374	30*	102*	2.1	105*	3.0	1.0	1.0	2.8	1.5	18.0*	3.12
437.375A	38*	105*	2.5	102	3.0	1.0	1.0	3.0	2.0*	15.1	2.96
437.375B	41*	113	2.5	116*	3.0	1.0	1.0	2.5	1.5	19.7	2.96
437.378B	40*	105*	3.3	96	3.0	1.0	1.0	2.3	3.0*	15.5	2.86
437.378C	36*	104*	2.8	96	3.0	1.0	1.0	2.3	2.0	15.2	3.22
437.381D	43*	109*	1.6	107	3.5	1.0	1.0	3.0	2.0	18.0	3.39
437.382	31*	102*	2.5	98*	3.0	1.0	1.0	2.5	1.5	19.6*	3.10
437.383	30*	103*	1.8	87*	3.0	1.0	1.0	2.5	2.0	16.4	2.92
437.386	30*	99*	2.8*	121*	3.5	1.0	1.0	2.0	-	11.2	2.50
437.387	40*	109*	3.1	102*	4.0	1.0	1.0	2.3	2.0	13.2	2.79
437.389C	32*	100*	3.5	115*	4.0	1.0	1.0	2.5	2.5	13.5	2.09*
437.399	29*	104*	2.8	92	3.0	1.0	1.0	2.8	2.0	15.8	3.11
437.400	43*	106*	3.8	119*	4.0	1.0	1.0	2.3	2.0	14.5	2.91
437.402	40*	105*	2.5	98*	3.0	1.0	1.0	1.8	2.5	13.0	2.34
437.404	38*	103*	2.3*	94*	3.0	1.0	1.0	2.5	2.0	15.5	2.86
437.407	39*	99*	2.4*	87*	3.0	1.0	1.0	2.5	2.5	15.8	2.75
437.409	35	102*	1.8	100*	3.5	1.0	1.0	2.5	1.5	13.7	3.07
437.410	31	105*	2.3*	92*	3.0	1.0	1.0	2.8	1.5	18.5	3.00
437.415	34*	101*	1.8	90	3.0	1.0	1.0	2.5	1.5	14.9	3.38
437.416	33*	100*	2.1	98	3.0	1.0	1.0	2.5	2.0	19.1	2.92

Table 4.3

Seed composition data for USDA soybean germplasm in maturity
group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.309	II	19.6	44.3	11.3	2.7	22.9	55.8	7.1	0.1
437.311A	II	18.6	46.0	12.5	3.1	23.7	54.8	5.8	0.1
437.311B	II	19.8	44.8	12.1	2.7	19.9	58.3	6.9	0.0
437.324	II	19.9	44.5	10.3	2.2	22.1	58.4	6.9	0.0
437.325	II	19.9	44.6	10.3	2.5	22.3	57.8	7.0	0.0
437.326	II	18.8	45.5	12.7	2.6	21.9	56.9	5.9	0.0
437.328	II	18.6	46.3	11.3	2.7	19.7	58.9	7.3	0.0
437.331	II	20.2	42.3	12.2	2.2	22.7	55.5	7.3	0.0
437.335	II	20.1	42.3	11.5	2.5	23.5	55.9	6.6	0.0
437.337	II	18.3	45.2	13.0	2.6	19.4	57.1	7.8	0.0
437.340B	II	19.8	44.9	12.3	2.4	21.1	57.5	6.5	0.0
437.340C	II	20.7	42.1	11.4	2.3	21.9	58.1	6.2	0.0
437.341	II	20.6	41.7	11.3	2.5	21.8	57.6	6.8	0.1
437.344D	II	19.1	44.0	11.8	2.6	18.9	59.2	7.5	0.0
437.345	II	13.3	44.7	13.5	2.9	16.4	57.5	9.6	0.0
437.346	II	20.4	43.8	12.1	2.5	25.3	53.5	6.7	0.0
437.347	II	19.6	39.3	11.0	2.0	19.6	59.4	7.9	0.0
437.355	II	20.4	43.5	10.3	2.2	25.6	55.4	6.3	0.1
437.356	II	20.1	42.2	11.3	1.5	20.8	59.0	7.3	0.0
437.358	II	20.5	44.7	12.1	2.4	22.3	56.6	6.6	0.0
437.360	II	19.5	44.9	11.5	3.2	21.8	56.1	7.3	0.0
437.361	II	18.4	45.2	12.2	2.7	17.6	57.3	10.1	0.0
437.362	II	17.4	47.4	12.1	2.4	19.4	58.0	8.1	0.0
437.364	II	20.7	43.2	10.7	2.3	20.6	59.3	7.1	0.0
437.369	II	19.6	45.1	10.7	2.3	24.8	55.4	6.8	0.0
437.371	II	18.3	45.1	12.0	2.4	20.8	57.0	7.8	0.1
437.374	II	20.1	43.1	11.3	2.9	24.4	54.7	6.7	0.0
437.375A	II	18.2	46.8	12.3	2.5	22.3	57.2	5.8	0.0
437.375B	II	20.8	42.3	10.3	3.0	27.7	53.2	5.8	0.0
437.378B	II	17.6	48.5	12.2	2.7	20.6	57.6	6.9	0.0
437.378C	II	17.8	47.5	11.3	2.6	20.3	59.4	6.3	0.0
437.381D	II	19.8	42.7	11.6	2.4	21.2	57.7	7.0	0.0
437.382	II	21.3	43.3	11.5	2.2	25.7	54.6	6.0	0.0
437.383	II	19.3	45.6	11.1	2.2	20.4	58.3	7.9	0.1
437.386	II	16.0	45.3	12.2	2.5	21.0	56.5	7.7	0.0
437.387	II	18.0	46.4	11.4	2.7	21.1	58.1	6.8	0.0
437.389C	II	18.7	44.0	11.0	2.7	22.0	57.0	7.3	0.0
437.399	II	19.1	44.8	11.2	3.0	23.5	57.1	5.2	0.0
437.400	II	21.3	43.0	11.0	2.7	25.0	54.6	6.7	0.0
437.402	II	16.3	46.0	12.2	2.8	17.8	58.4	8.7	0.1
437.404	II	19.2	43.9	11.8	2.0	17.3	60.0	8.9	0.0
437.407	II	20.5	43.5	10.6	2.0	24.7	55.6	7.1	0.0
437.409	II	20.1	42.4	10.7	1.6	18.4	61.6	7.8	0.0
437.410	II	18.8	45.2	12.1	2.4	26.8	51.9	6.8	0.0
437.415	II	19.0	43.4	11.2	2.4	19.6	58.8	8.1	0.0
437.416	II	20.2	43.8	10.4	2.3	21.8	58.4	7.1	0.1

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.417	Ussurijscaja 514	VIR 4238	USSR	USSR	1980	II
437.419B	(Ussurijscaja 518)	(VIR 4241)	USSR	USSR	1980	II
437.420A	Ussurijscaja 521	VIR 4242	USSR	USSR	1980	II
437.420B	(Ussurijscaja 521)	(VIR 4242)	USSR	USSR	1980	II
437.420C	(Ussurijscaja 521)	(VIR 4242)	USSR	USSR	1980	II
437.424	Ussurijscaja 542	VIR 4249	USSR	USSR	1980	II
437.426	Ussurijscaja 546	VIR 4251	USSR	USSR	1980	II
437.427A	Ussurijscaja 547	VIR 4252	USSR	USSR	1980	II
437.427B	(Ussurijscaja 547)	(VIR 4252)	USSR	USSR	1980	II
437.427C	(Ussurijscaja 547)	(VIR 4252)	USSR	USSR	1980	II
437.428B	(Ussurijscaja 548)	(VIR 4253)	USSR	USSR	1980	II
437.430	Ussurijscaja 558	VIR 4254	USSR	USSR	1980	II
437.431	Ussurijscaja 559	VIR 4258	USSR	USSR	1980	II
437.432B	(Ussurijscaja 561)	(VIR 4259)	USSR	USSR	1980	II
437.433	Ussurijscaja 562	VIR 4264	USSR	USSR	1980	II
437.434A	Ussurijscaja 564	VIR 4265	USSR	USSR	1980	II
437.434B	(Ussurijscaja 564)	(VIR 4265)	USSR	USSR	1980	II
437.435	Ussurijscaja 567	VIR 4261	USSR	USSR	1980	II
437.437A	Ussurijscaja 569	VIR 4263	USSR	USSR	1980	II
437.437B	(Ussurijscaja 569)	(VIR 4263)	USSR	USSR	1980	II
437.438	Ussurijscaja 575	VIR 4269	USSR	USSR	1980	II
437.440	Ussurijscaja 581	VIR 4272	USSR	USSR	1980	II
437.441	Ussurijscaja 585	VIR 4273	USSR	USSR	1980	II
437.446	Ussurijscaja 602	VIR 4280	USSR	USSR	1980	II
437.447	Ussurijscaja 608	VIR 4282	USSR	USSR	1980	II
437.448	Ussurijscaja 628	VIR 4288	USSR	USSR	1980	II
437.451	Ussurijscaja 639	VIR 4292	USSR	USSR	1980	II
437.453	Ussurijscaja 647	VIR 4295	USSR	USSR	1980	II
437.454	Ussurijscaja 648	VIR 4296	USSR	USSR	1980	II
437.455	Ussurijscaja 649	VIR 4297	USSR	USSR	1980	II
437.457	Ussurijscaja 653	VIR 4300	USSR	USSR	1980	II
437.458A	Ussurijscaja 658	VIR 4301	USSR	USSR	1980	II
437.458B	(Ussurijscaja 658)	(VIR 4301)	USSR	USSR	1980	II
437.459	Ussurijscaja 660	VIR 4197	USSR	USSR	1980	III
437.460	Ussurijscaja 668	VIR 4198	USSR	USSR	1980	II
437.462A	Ussurijscaja 672	VIR 4199	USSR	USSR	1980	II
437.462B	(Ussurijscaja 672)	(VIR 4199)	USSR	USSR	1980	II
437.462C	(Ussurijscaja 672)	(VIR 4199)	USSR	USSR	1980	II
437.463A	Ussurijscaja 674	VIR 4200	USSR	USSR	1980	II
437.465	Ussurijscaja 678	VIR 4147	USSR	USSR	1980	II
437.470	Ussurijscaja 887	VIR 4150	USSR	USSR	1980	II
437.472	VIR 76 (A-761)	VIR 5525	USSR	USSR	1980	II
437.475		VIR 376	USSR	USSR	1980	II
437.477B		(VIR 382)	USSR	USSR	1980	II
437.479		VIR 434	USSR	USSR	1980	II
437.480		VIR 542	USSR	USSR	1980	II

Table 2.3
Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.417	II	P	T	E	N	Br	D	Y	Y			
437.419B	II	P	G	E	N	Br	S	Y	Y		Na	
437.420A	II	P	T	E	N	Br	I	Y	Bl			
437.420B	II	P	T	E	N	Br	S	Y	Bl			
437.420C	II	W	G	E	N	Br	D	Y	Y			
437.424	II	P	T	E	N	Br	D	Y	Br			
437.426	II	P	T	E	N	Br	D	Y	Y			
437.427A	II	P	T	E	N	Tn	S	Y	Br			
437.427B	II	P	T	Sa	N	Tn	D	Y	Lbl			
437.427C	II	P	T	Sa	N	Br	I	Y	Lbl			
437.428B	II	P	G	E	N	Br	I	Y	Y			
437.430	II	W	Ng	E	N	Br	D	Y	Br			
437.431	II	P	T	E	N	Br	I	Y	Br			
437.432B	II	P	G	E	N	Br	D	Y	Y			
437.433	II	P	G	E	N	Br	I	Y	G			
437.434A	II	P	G	E	N	Br	I	Y	G			
437.434B	II	P	T	E	N	Br	I	Y	Br			
437.435	II	P	T	E	N	Tn	I	Y	Lbl			
437.437A	II	P	G	E	N	Br	D	G	lb			
437.437B	II	P	Lt	E	N	Br	D	G	Bl			
437.438	II	P	T	E	N	Br	D	Y	Br			
437.440	II	P	T	E	Ssp	Br	D	Y	Bl			
437.441	II	P	T	E	Ssp	Br	D	Y	Br			
437.446	II	W	G	E	N	Tn	S	Y	Bf			
437.447	II	P	G	E	N	Br	I	Y	Y			
437.448	II	P	T	E	Ssp	Br	I	Y	Bl		Dab	
437.451	II	P	T	E	N	Br	S	Y	Bl			
437.453	II	P	T	E	N	Lbr	I	Y	Br			
437.454	II	P	T	E	N	Br	D	Lgn	Br			
437.455	II	P	G	E	N	Br	I	Y	Y			
437.457	II	P	T	E	N	Br	I	Y	Y			
437.458A	II	W	T	E	N	Br	I	Y	Y			
437.458B	II	P	T	E	N	Br	I	Y	Y			
437.459	III	P	G	E	Ssp	Br	I	Y	Y		Wa	
437.460	II	P	T	E	N	Br	D	Lgn	Br			
437.462A	II	W	T	E	Ssp	Br	S	Y	Br			
437.462B	II	W	T	E	Ssp	Tn	S	Y	Br			
437.462C	II	W	T	E	Ssp	Tn	S	Y	Br			
437.463A	II	P	G	E	N	Br	I	Y	Y			
437.465	II	P	T	E	N	Lbr	D	Bl	Bl	Fleck		
437.470	II	P	T	E	N	Br	S	Y	Bl			
437.472	II	P	T	E	N	Dbr	S	Y	Bl			
437.475	II	P	T	E	N	Bl	I	Br	Br		Dab	
437.477B	II	P	T	E	Ssp	Br	I	Y	Br			
437.479	II	P	T	E	Ssp	Br	I	Br	Br			
437.480	II	P	T	E	Ssp	Br	D	Y	Br			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height† (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight† (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.417	33*	99*	1.8	91	3.0	1.0	1.0	2.5	2.0	19.0	2.53
437.419B	40*	112	4.3	94	3.0	1.0	1.0	2.3	1.5	17.0	2.89
437.420A	34*	105*	2.3	105*	4.0	1.0	1.5	2.3	1.5	16.3	2.89
437.420B	40*	108*	2.8	109*	3.5	1.0	1.0	2.0	2.0*	16.1	2.61
437.420C	43*	106*	2.7	93	3.0	1.0	1.0	2.5	1.0	15.8	3.19
437.424	31	105*	2.9*	78	3.0	1.0	1.0	2.0	2.0	14.7	2.73*
437.426	30*	103*	2.8	103*	3.0	1.0	1.0	2.5	2.0	14.9	3.32
437.427A	34*	103*	2.3	87	2.0	1.0	1.0	2.8	1.0	11.7	3.10
437.427B	33*	105	2.9	88	3.0	1.0	1.0	2.5	2.0	15.5	2.91
437.427C	40*	103*	3.5	101	3.0	1.0	1.0	3.5	1.5	13.5	2.22*
437.428B	30*	102*	1.6*	94*	3.0	1.0	1.0	3.3	2.0	21.0	3.16
437.430	34*	109*	3.4	96*	3.5	1.0	1.0	2.5	2.0	15.3	3.20*
437.431	38	110*	3.5	99*	3.0	1.0	1.0	2.5	3.5	16.0	2.65
437.432B	39*	108*	3.0	100*	3.0	1.0	1.0	2.3	2.0	14.2	2.46
437.433	35*	101*	2.8	102*	3.0	1.0	1.0	2.5	2.5	15.6	2.96
437.434A	32*	101*	2.6	105*	3.0	1.0	1.0	2.5	2.0	17.5	2.95
437.434B	29*	104*	3.3*	116*	4.0	1.0	1.0	2.3	2.0	16.9	2.98*
437.435	29*	104*	2.5	93*	3.0	1.0	1.0	2.3	1.5	15.8	3.24
437.437A	33*	101*	2.3	91	3.0	1.0	1.0	2.5	1.0	18.2	3.49
437.437B	32*	101*	2.0	92*	3.0	1.0	1.0	2.3	1.5	17.3	3.30
437.438	37*	109*	3.6	114	3.5	1.0	1.0	2.5	2.0	16.9	3.20
437.440	38*	99*	2.9*	93	3.0	1.0	1.0	2.3	2.0	14.1	2.95
437.441	30	99*	2.3	92*	3.0	1.0	1.0	2.0	1.5	14.0	2.84
437.446	31*	100	1.8*	77	3.0	1.0	1.0	2.0	1.0	15.0	3.17
437.447	30	102*	2.4	92*	3.0	1.0	1.0	2.5	2.5	19.9	3.10
437.448	37*	102*	3.8	103	3.5	1.0	1.0	2.5	2.5	13.4	2.55
437.451	30*	102*	2.1	108*	3.5	1.0	1.0	2.5	1.0	16.6	2.91*
437.453	29*	102*	1.5	94*	3.0	1.0	1.0	2.0	3.0	14.6	3.12
437.454	41*	109	3.3	96*	3.0	1.0	1.0	2.3	2.0	13.6	2.39*
437.455	33*	106*	2.8	93*	3.0	1.0	1.0	2.5	2.5	14.7	2.41
437.457	36*	104*	3.8*	81*	3.0	1.0	1.0	2.5	2.5	14.9	2.79
437.458A	34*	101*	2.8	116*	3.5	1.0	1.0	3.3	2.0	17.5	2.94*
437.458B	42*	113	3.8	110	3.0	1.0	1.0	3.0	3.5	16.4	2.75*
437.459	46*	115*	3.0	113	3.5	1.0	1.0	2.5	3.5	14.8	2.96
437.460	45*	113	3.9	109	4.0	1.0	1.0	2.5	4.0	14.8	2.58*
437.462A	38	109*	2.3*	76*	1.5	1.0	1.0	1.8	2.5	13.0	2.59*
437.462B	36	108*	2.1	70	1.0	1.0	1.0	1.8	2.5	12.7	2.84
437.462C	38	109*	2.3	73	1.0	1.0	1.0	2.0	2.0	13.1	2.87
437.463A	35*	102*	2.3	107*	4.0	1.0	1.0	3.0	2.0	16.4	3.02*
437.465	42*	106*	4.0	98	4.0	1.0	1.0	2.3	-	13.5	2.32*
437.470	37*	109*	3.9	123	4.0	1.0	1.0	2.5	1.5	14.0	2.44
437.472	39*	108*	2.8	110	3.0	1.0	1.0	2.8	2.5	13.4	2.50*
437.475	40*	102*	3.8	107	3.0	1.0	1.0	2.3	-	11.5	2.62
437.477B	37	100*	1.5	87*	3.0	1.0	1.0	2.0	2.0	12.6	2.40*
437.479	37	100*	2.8	89	3.0	1.0	1.0	2.8	-	14.6	2.16*
437.480	34*	99*	2.0	99	3.0	1.0	1.0	2.3	2.0	11.9	2.53*

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.417	II	20.0	43.7	10.2	2.1	21.5	58.9	7.3	0.0
437.419B	II	18.5	45.8	11.9	2.9	24.3	54.5	6.4	0.0
437.420A	II	18.9	46.0	12.2	2.4	22.4	55.9	7.1	0.0
437.420B	II	18.1	47.1	12.9	2.7	20.9	55.7	7.8	0.0
437.420C	II	20.4	43.5	11.8	2.7	24.2	53.3	7.6	0.5
437.424	II	18.4	45.7	11.6	2.5	20.0	59.1	6.8	0.0
437.426	II	18.3	45.8	12.0	2.1	17.2	60.2	8.4	0.0
437.427A	II	18.6	45.7	11.7	1.5	17.5	60.3	9.1	0.0
437.427B	II	19.1	45.4	11.2	2.5	22.6	58.0	5.7	0.0
437.427C	II	18.5	45.1	12.2	2.7	23.2	54.8	7.1	0.0
437.428B	II	20.5	43.8	11.5	2.5	25.2	54.1	6.5	0.2
437.430	II	19.0	44.7	12.5	2.9	25.4	53.3	6.0	0.0
437.431	II	20.0	45.1	11.2	1.5	22.7	58.3	6.2	0.0
437.432B	II	18.2	46.1	13.0	2.5	18.8	57.4	8.3	0.0
437.433	II	19.9	42.7	13.2	2.5	20.5	55.4	8.5	0.0
437.434A	II	19.6	44.0	13.1	2.6	21.2	55.2	8.0	0.0
437.434B	II	18.2	46.3	11.7	2.7	21.6	56.8	7.1	0.1
437.435	II	19.3	45.2	11.4	2.8	19.8	59.7	6.3	0.0
437.437A	II	20.8	42.1	10.1	3.2	26.5	53.3	6.8	0.0
437.437B	II	21.3	42.0	9.9	3.4	25.9	53.8	7.0	0.0
437.438	II	18.4	46.4	11.2	2.4	20.4	58.2	7.8	0.0
437.440	II	19.2	45.9	11.0	2.3	23.3	56.7	6.7	0.0
437.441	II	19.5	44.0	11.2	2.5	21.2	57.6	7.6	0.0
437.446	II	20.9	41.6	11.3	2.9	26.3	53.0	6.6	0.0
437.447	II	20.7	43.2	12.0	2.3	24.2	54.8	6.8	0.0
437.448	II	17.3	46.9	11.2	2.6	21.0	57.9	7.3	0.1
437.451	II	20.3	43.0	11.5	3.3	21.6	56.4	7.1	0.1
437.453	II	18.2	46.6	11.6	1.9	18.0	60.9	7.6	0.0
437.454	II	18.9	44.5	11.7	2.3	19.2	58.6	8.3	0.0
437.455	II	18.1	45.4	13.0	2.6	19.3	56.8	8.3	0.0
437.457	II	19.5	44.2	9.9	2.3	20.5	60.3	7.0	0.0
437.458A	II	20.1	43.8	12.0	2.5	28.4	51.4	5.7	0.0
437.458B	II	16.9	45.8	11.6	3.0	25.0	52.9	7.5	0.0
437.459	III	18.1	44.2	12.7	2.6	22.2	53.6	8.8	0.0
437.460	II	17.3	44.7	11.3	2.6	25.5	53.4	7.1	0.0
437.462A	II	18.6	44.4	10.3	2.6	24.3	56.7	6.1	0.0
437.462B	II	19.0	43.9	10.4	2.8	26.9	54.8	5.0	0.0
437.462C	II	18.9	44.1	10.4	2.9	27.3	54.6	4.8	0.0
437.463A	II	18.5	44.8	11.4	3.4	22.0	55.9	7.3	0.0
437.465	II	17.3	45.9	12.5	3.3	23.9	54.0	6.4	0.0
437.470	II	19.8	42.3	11.2	2.9	20.6	57.1	8.2	0.0
437.472	II	18.9	41.9	11.4	3.3	22.1	56.1	7.0	0.0
437.475	II	16.7	46.9	12.8	3.1	18.5	56.9	8.7	0.0
437.477B	II	17.6	46.1	11.9	2.6	19.0	58.3	8.2	0.0
437.479	II	17.3	46.5	10.7	2.9	25.2	54.5	6.8	0.1
437.480	II	18.7	44.9	11.7	2.6	22.0	56.0	7.5	0.1

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.482		VIR 964	USSR	USSR	1980	III
437.484		VIR 1002	USSR	USSR	1980	II
437.485		VIR 1048	USSR	USSR	1980	II
437.488		VIR 1070	USSR	USSR	1980	II
437.489		VIR 1074	USSR	USSR	1980	II
437.493		VIR 3722	USSR	USSR	1980	II
437.494		VIR 3723	USSR	USSR	1980	II
437.495		VIR 3734	USSR	USSR	1980	II
437.497		VIR 3738	USSR	USSR	1980	II
437.505		VIR 3853	USSR	USSR	1980	II
437.513		VIR 4210	USSR	USSR	1980	II
437.515A		VIR 4600	USSR	USSR	1980	II
437.515B		(VIR 4600)	USSR	USSR	1980	II
437.517		VIR 5043	USSR	USSR	1980	II
437.520A		VIR 5627	USSR	USSR	1980	II
437.520B		(VIR 5627)	USSR	USSR	1980	II
437.525	Belotsercovscaja	VIR 5081	USSR	USSR	1980	II
437.535	Dnepropetrovscaja 11	VIR 5598	USSR	USSR	1980	II
437.550A		VIR 4879	USSR	USSR	1980	II
437.550B		(VIR 4879)	USSR	USSR	1980	II
437.554	Avan	VIR 4638	USSR	China	1980	II
437.568	Chamosidou (Guntszy 535)	VIR 5492	USSR	China	1980	II
437.569	Charbinscaja Mestnaja	VIR 5380	USSR	China	1980	II
437.572	Chejmosidou (Guntszy 540)	VIR 5484	USSR	China	1980	II
437.573B	(Che ti)	(VIR 5387)	USSR	China	1980	II
437.576	Chuan cun tiao	VIR 5644	USSR	China	1980	II
437.581	Chzeu jao dou	VIR 5276	USSR	China	1980	II
437.585	Chzu jau dou	VIR 5205	USSR	China	1980	II
437.589	Da huan li	VIR 5475	USSR	China	1980	II
437.592	Da tszin' huan	VIR 5277	USSR	China	1980	II
437.593B	(Da tszin' huan)	(VIR 5462)	USSR	China	1980	II
437.594B	(Dun haj sy tszjao)	(VIR 5344)	USSR	China	1980	III
437.601	DV-2772	VIR 4620	USSR	China	1980	II
437.602	DV-2773	VIR 4621	USSR	China	1980	II
437.604	DV-2775	VIR 4623	USSR	China	1980	II
437.605A	DV-2776	VIR 4624	USSR	China	1980	III
437.605B	(DV-2776)	(VIR 4624)	USSR	China	1980	II
437.605C	(DV-2776)	(VIR 4624)	USSR	China	1980	III
437.606	DV-2777	VIR 4625	USSR	China	1980	II
437.609B	(DV-2780)	(VIR 4628)	USSR	China	1980	II
437.610B	(DV-2782)	(VIR 4630)	USSR	China	1980	II
437.614B	(DV-2787)	(VIR 4635)	USSR	China	1980	II
437.617	DV-2791	VIR 4639	USSR	China	1980	II
437.618	DV-2793	VIR 4641	USSR	China	1980	II
437.622B	(DV-2798)	(VIR 4646)	USSR	China	1980	II
437.626	DV-2803	VIR 4651	USSR	China	1980	II

Table 2.3
Descriptive data for USDA soybean germplasm in maturity
group II, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.482	III	P	Ng	E	N	Br	S	Bl	Bl			Sw
437.484	II	P	Lt	E	N	Lbr	D	Bl	Bl	Fleck	Dab	
437.485	II	P	G	E	N	Bl	I	Gn	Bf	Gncot		
437.488	II	W	T	E	N	Br	I	Bl	Bl			
437.489	II	P	T	E	N	Lbr	I	Y	Bl			
437.493	II	P	T	E	N	Br	S	Gnbr	Gnbr			
437.494	II	P	T	E	N	Br	D	Bl	Bl		Dab	
437.495	II	P	T	E	N	Br	I	Br	Br			
437.497	II	W	T	E	N	Br	S	Y	Bl			
437.505	II	W	Lt	E	N	Br	D	Bl	Bl			
437.513	II	P	T	E	N	Br	S	Y	Y			
437.515A	II	W	G	E	N	Br	D	Y	Y			
437.515B	II	P	G	E	N	Br	D	Y	Y			
437.517	II	P	T	E	Ssp	Br	S	Y	Bl			
437.520A	II	P	T	E	Ssp	Br	D	Y	Br			
437.520B	II	P	T	E	Ssp	Br	D	Y	Br			
437.525	II	W	G	E	N	Br	I	Y	Bf			
437.535	II	P	T	E	N	Tn	I	Y	Br	Abh		
437.550A	II	P	T	E	N	Br	I	Y	Bl			
437.550B	II	W	Lt	E	N	Br	I	Y	Bl			
437.554	II	P	G	E	N	Br	I	Y	Ib			
437.568	II	P	Lt	E	N	Br	I	Gnbr	Br			
437.569	II	P	G	E	N	Br	I	Y	Y			
437.572	II	P	Lt	E	N	Br	D	Bl	Bl		Dab	
437.573B	II	P	T	E	N	Br	I	Y	Y			
437.576	II	P	G	Sa	Ssp	Tn	I	Y	Ib			
437.581	II	W	G	E	N	Br	S	Y	Lbf			
437.585	II	W	G	E	N	Br	S	Y	Lbf			
437.589	II	W	G	E	N	Br	S	Y	Lbf			
437.592	II	W	G	E	N	Dbr	I	Y	Bf			
437.593B	II	W	G	E	N	Dbr	I	Y	Bf			
437.594B	III	P	G	A	N	Br	I	Y	Ib			
437.601	II	W	G	E	Ssp	Br	D	Y	Y			
437.602	II	W	G	E	N	Br	I	Y	Bf			
437.604	II	P	T	E	N	Br	I	Y	Y			
437.605A	III	P	T	E	Ssp	Br	D	Y	Y			
437.605B	II	W	T	E	N	Br	I	Y	Y			
437.605C	III	P	G	E	N	Tn	D	Y	Y			
437.606	II	P	G	E	N	Br	I	Y	Y			
437.609B	II	W	G	E	N	Br	I	Y	Y			
437.610B	II	P	T	E	Ssp	Br	D	Y	Y			
437.614B	II	W	G	E	N	Br	I	Y	Lbf			
437.617	II	P	T	E	Ssp	Tn	I	Y	Br			
437.618	II	P	Ng	E	Ssp	Br	D	Y	Br			
437.622B	II	P	T	E	Ssp	Br	S	Y	Lbl			
437.626	II	P	G	E	N	Br	D	Y	Bf			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.482	61	116	3.6	141	4.0	1.0	1.0	2.3	-	8.8	2.17
437.484	36	101*	4.0	79	3.5	1.0	1.0	2.3	-	11.3	1.99
437.485	Tested in and reported with the groups III and IV evaluation.										
437.488	41*	105	2.5	89	3.0	2.5	5.0	2.5	-	13.7	1.92*
437.489	33*	102*	1.8*	88*	3.0	1.0	1.0	2.5	2.5	16.3	2.70
437.493	26	96*	2.3	98*	4.0	1.0	1.0	2.3	-	12.2	2.53*
437.494	27*	98*	2.5*	87	3.0	1.0	1.0	2.5	-	11.1	2.63
437.495	27*	96*	1.5	82	3.0	1.0	1.0	2.0	-	12.0	2.56
437.497	34*	105	2.8*	94	3.0	1.0	1.0	3.0	1.5	16.4	3.16
437.505	32	108*	3.1	103	3.5	1.0	1.0	2.3	-	12.3	2.97*
437.513	37*	105*	2.8	129*	4.0	1.0	1.0	2.3	2.5	15.8	2.73
437.515A	38*	99	1.5	90*	3.0	1.0	1.0	2.8	2.0	17.8	2.69
437.515B	38*	106*	2.8	97*	3.0	1.0	1.0	2.3	2.5	14.2	2.71
437.517	35*	104	2.3*	68*	2.0	1.0	1.0	2.3	1.0	14.8	3.18
437.520A	34	99*	3.0	98	4.0	1.0	1.0	2.3	1.5	12.0	2.51
437.520B	39*	106*	2.9	97	3.5	1.0	1.0	2.5	2.0	13.4	2.95*
437.525	33*	101	2.0*	67*	2.5	1.0	1.5	3.5	1.0	13.8	2.47
437.535	27*	101*	1.8	86*	3.0	1.0	1.0	3.3	1.5	16.4	2.56
437.550A	46*	108*	3.0	106*	4.0	1.0	1.0	2.3	2.0	19.6	2.32
437.550B	27*	100*	1.5	87*	3.0	1.0	1.0	2.5	2.0	25.1*	3.30
437.554	30	99*	2.8*	78*	2.0	1.0	1.0	2.8	1.0	14.9	2.84
437.568	40*	99*	2.0	117*	4.0	1.0	1.0	2.5	-	13.7	2.55
437.569	27*	96*	2.5	90*	3.0	1.0	1.0	3.0	1.0	19.6	3.06
437.572	40*	99*	3.3	94	3.5	1.0	1.0	2.3	-	11.9	2.66
437.573B	37*	104*	2.3	101	3.0	1.0	1.5	2.5	2.0	13.9	2.75
437.576	50*	111	3.9	93*	3.0	1.0	1.5	2.0	2.0	10.5	2.09
437.581	27*	99	2.1	97	3.0	1.0	1.0	2.5	1.0	18.3	3.64
437.585	27*	99*	2.0	94	3.0	1.0	1.0	2.5	1.0	18.8	3.60*
437.589	36	98*	2.8	91*	3.0	1.0	1.0	2.5	1.0	16.5	2.51
437.592	37*	100*	2.0*	89*	3.0	1.0	1.0	3.0	1.0	18.7	2.88
437.593B	38*	102*	2.8	87*	3.0	1.0	1.0	3.0	1.0	18.0	2.71
437.594B	51*	118*	3.5	101*	2.0	1.5	2.5*	2.3	2.0	13.3	2.11*
437.601	34*	105*	3.3	90*	3.0	1.0	1.0	2.8	2.5	15.7	2.78
437.602	34*	100*	2.0	86*	3.0	1.0	1.0	2.5	1.0	18.9	2.89
437.604	40*	111*	3.3	107*	3.0	1.0	1.0	3.3	2.5	15.7	2.75
437.605A	38*	116*	1.9*	107*	3.0	1.0	1.0	2.5	2.5	14.7	3.13
437.605B	36*	107*	2.0	88*	3.0	1.0	1.5	2.8	2.0	18.9*	3.01
437.605C	42*	115*	3.8	108*	3.0	1.0	1.0	2.8	2.0	16.5*	2.81
437.606	32	98*	1.8	85*	3.0	1.0	1.0	2.8	1.5	18.8	3.07
437.609B	37*	103*	1.5	80*	3.0	1.0	1.0	2.5	1.0	17.8	2.83
437.610B	32	98*	1.8	91	3.0	1.0	1.0	2.3	2.5	15.1	2.52
437.614B	26*	103*	1.5	86*	3.0	1.0	1.0	2.3	2.0	18.1	3.37
437.617	41*	103*	2.5	105	3.5	1.0	1.0	2.3	2.5	16.5	3.06
437.618	34*	98*	2.8*	73	3.0	1.0	1.0	2.3	3.5	13.2	2.61
437.622B	33*	103	2.3*	67*	2.5	1.0	1.0	2.0	1.0	13.4	2.76
437.626	35*	102*	3.0	93	3.0	1.0	1.0	2.5	2.0	14.3	2.87

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.482	III	15.0	44.8	12.4	2.4	18.3	56.9	9.8	0.0
437.484	II	16.3	45.2	13.1	3.0	22.1	55.3	6.4	0.0
437.485	II	Tested in and reported with the groups III and IV evaluation.							
437.488	II	17.5	45.0	11.8	2.6	29.4	50.2	6.0	0.0
437.489	II	18.4	46.6	11.9	2.2	22.8	56.5	6.6	0.0
437.493	II	17.3	47.3	12.2	3.2	22.6	54.2	7.8	0.0
437.494	II	19.1	45.4	10.7	2.6	28.0	53.2	5.4	0.0
437.495	II	18.1	47.0	11.9	2.5	22.2	56.8	6.6	0.0
437.497	II	19.9	43.6	11.1	2.5	23.4	56.2	6.7	0.0
437.505	II	17.8	48.1	12.2	2.9	26.0	53.5	5.4	0.0
437.513	II	19.8	45.0	11.7	3.4	22.3	55.8	6.8	0.0
437.515A	II	19.1	44.6	13.2	2.5	22.4	54.3	7.6	0.0
437.515B	II	18.4	44.9	13.0	3.0	20.8	55.1	8.0	0.1
437.517	II	19.4	44.1	11.3	3.1	22.3	55.7	7.6	0.0
437.520A	II	17.5	44.2	11.5	2.7	19.6	58.1	8.0	0.1
437.520B	II	19.3	44.4	11.0	2.3	19.1	59.6	8.0	0.0
437.525	II	21.7	41.3	10.9	3.0	25.9	53.8	6.4	0.1
437.535	II	20.7	44.4	11.1	3.5	25.7	53.2	6.5	0.0
437.550A	II	19.7	43.4	11.2	3.0	23.8	55.1	6.9	0.0
437.550B	II	21.5	41.9	11.2	3.3	24.2	54.4	6.9	0.0
437.554	II	20.6	42.7	10.8	3.0	25.1	54.0	7.0	0.0
437.568	II	20.4	41.9	11.0	2.5	26.6	53.7	6.2	0.0
437.569	II	20.3	43.9	11.4	2.9	27.9	51.9	5.9	0.0
437.572	II	15.7	46.8	10.9	2.7	21.7	56.6	8.0	0.0
437.573B	II	18.4	45.4	12.8	3.0	20.0	57.4	6.9	0.0
437.576	II	17.4	43.1	13.3	2.8	22.8	52.2	8.8	0.1
437.581	II	19.9	43.1	10.6	3.4	31.0	49.3	5.8	0.0
437.585	II	19.6	43.1	10.4	3.7	31.5	48.9	5.5	0.0
437.589	II	20.5	43.2	11.5	3.5	24.1	54.2	6.7	0.0
437.592	II	23.1	41.3	10.4	3.2	35.4	45.9	5.2	0.0
437.593B	II	21.7	41.9	10.3	3.5	35.2	45.9	5.1	0.0
437.594B	III	17.1	45.7	10.5	3.0	29.2	50.4	6.9	0.0
437.601	II	19.7	44.2	11.7	3.3	27.5	51.0	6.4	0.0
437.602	II	21.4	43.4	10.7	3.3	33.4	47.2	5.4	0.1
437.604	II	19.2	43.7	10.7	2.7	22.1	56.7	7.8	0.0
437.605A	III	18.7	44.8	10.8	3.2	24.9	53.9	7.1	0.0
437.605B	II	20.6	43.2	11.8	3.1	23.3	56.1	5.6	0.0
437.605C	III	19.0	44.9	11.1	3.1	25.6	53.4	6.7	0.0
437.606	II	18.0	46.5	12.4	3.0	21.6	55.8	7.1	0.2
437.609B	II	19.8	44.7	11.1	2.8	27.2	52.7	6.0	0.1
437.610B	II	18.8	45.6	11.2	3.0	23.6	53.8	8.2	0.2
437.614B	II	20.4	44.4	11.7	3.1	22.7	56.0	6.6	0.0
437.617	II	20.1	43.3	10.3	3.1	24.8	55.3	6.5	0.0
437.618	II	19.6	43.9	11.7	3.1	28.8	50.8	5.7	0.0
437.622B	II	18.5	44.5	11.4	3.2	20.1	57.0	8.2	0.1
437.626	II	18.9	43.7	12.2	3.4	20.1	56.3	7.9	0.1

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.627	DV-2805	VIR 4653	USSR	China	1980	II
437.630D	(DV-2810)	(VIR 4658)	USSR	China	1980	II
437.631	DV-2811	VIR 4659	USSR	China	1980	II
437.635B	(DV-2816)	(VIR 4664)	USSR	China	1980	II
437.635C	(DV-2816)	(VIR 4664)	USSR	China	1980	II
437.635D	(DV-2816)	(VIR 4664)	USSR	China	1980	II
437.639	DV-2820	VIR 4668	USSR	China	1980	II
437.640B	(DV-2821)	(VIR 4669)	USSR	China	1980	II
437.641A	DV-2822	VIR 4670	USSR	China	1980	II
437.643B	(DV-2825)	(VIR 4673)	USSR	China	1980	II
437.644	DV-2826	VIR 4674	USSR	China	1980	II
437.647	DV-2829	VIR 4677	USSR	China	1980	II
437.648B	(DV-2830)	(VIR 4678)	USSR	China	1980	II
437.649A	DV-2831	VIR 4679	USSR	China	1980	II
437.649B	(DV-2831)	(VIR 4679)	USSR	China	1980	II
437.651B	(DV-2833)	(VIR 4681)	USSR	China	1980	II
437.652	DV-2834	VIR 4682	USSR	China	1980	II
437.653	Er da li	VIR 5361	USSR	China	1980	II
437.656	E sen dou (Gun 691)	VIR 5367	USSR	China	1980	II
437.657	Gaj juj pin din huan	VIR 5338	USSR	China	1980	II
437.662	Gun' tszu lin 658	VIR 5674	USSR	China	1980	II
437.663	Gun' tszu lin 691	VIR 5675	USSR	China	1980	II
437.664	Guntszy 536	VIR 5488	USSR	China	1980	II
437.669	Kucitsu yen	VIR 781	USSR	China	1980	II
437.674	Lju tio tsin	VIR 5646	USSR	China	1980	III
437.678B	(Mantszantszin)	(VIR 5218)	USSR	China	1980	II
437.682B	(Ni zin do)	(VIR 5433)	USSR	China	1980	II
437.685B	(Phun zhun)	(VIR 4890)	USSR	China	1980	II
437.685C	(Phun zhun)	(VIR 4890)	USSR	China	1980	II
437.685D	(Phun zhun)	(VIR 4890)	USSR	China	1980	III
437.686	Phu shou	VIR 5127	USSR	China	1980	II
437.689	Phyn sen' sjao baj pi	VIR 5322	USSR	China	1980	II
437.695B	(S-185)	(VIR 4865)	USSR	China	1980	II
437.697	Schao hi tschi	VIR 5753	USSR	China	1980	II
437.698	Setin huan	VIR 5503	USSR	China	1980	II
437.699	Shiliden	VIR 5633	USSR	China	1980	II
437.707	Sjao he tsi	VIR 5388	USSR	China	1980	II
437.711A	Sjao tszin' huan	VIR 5212	USSR	China	1980	II
437.715	Sjao zin chuan N1	VIR 5061	USSR	China	1980	II
437.716B	(Sjuj dja pyn da do)	(VIR 5438)	USSR	China	1980	II
437.718	Ssuli pin chien pai ma	VIR 782	USSR	China	1980	II
437.722	Sy li huan	VIR 5471	USSR	China	1980	II
437.724	T'e zja chuan	VIR 5068	USSR	China	1980	II
437.743	Tu li gun	VIR 5427	USSR	China	1980	II
437.748	Zelena Echo 3	VIR 5812	USSR	China	1980	II
437.752A	Zin' jugh' N1	VIR 5064	USSR	China	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.627	II	P	G	E	N	Br	S	Y	Bf			
437.630D	II	P	G	E	N	Br	I	Y	Y			
437.631	II	W	G	E	N	Br	I	Y	Y			
437.635B	II	P	T	E	N	Tn	S	Y	Y			
437.635C	II	P	T	E	N	Br	D	Y	Br			
437.635D	II	P	T	E	N	Br	D	Y	Y	Abh		
437.639	II	P	G	E	N	Dbr	I	Y	Ib			
437.640B	II	W	G	E	N	Br	I	Y	Lbf			
437.641A	II	P	G	E	Ssp	Br	D	Y	G			
437.643B	II	W	G	E	N	Br	S	Y	Bf			
437.644	II	P	T	E	Ssp	Br	D	Y	Br			
437.647	II	P	G	E	N	Dbr	I	Y	Bf			
437.648B	II	P	G	E	N	Br	I	Y	Y			
437.649A	II	P	G	E	N	Br	I	Y	Y			
437.649B	II	W	G	E	N	Bl	D	Y	Bf			
437.651B	II	W	G	E	N	Bl	D	Y	Bf			
437.652	II	W	G	E	N	Br	I	Y	Lbf			
437.653	II	P	T	E	N	Br	D	Y	Br			
437.656	II	P	T	A	Sp	Bl	I	Gnbr	Br			Sw
437.657	II	P	G	E	N	Br	S	Y	Y			
437.662	II	P	T	Sa	Ssp	Bl	I	Bl	Bl			Sw
437.663	II	P	T	A	Sp	Bl	I	Gnbr	Br			Sw
437.664	II	P	Ng	E	N	Bl	I	Gnbr	Br			
437.669	II	P	T	E	Ssp	Br	I	Bl	Bl	Fleck		
437.674	III	W	G	E	N	Bl	S	Gn	Bf			
437.678B	II	P	G	E	N	Tn	D	Y	Y			
437.682B	II	Dp	T	E	Ssp	Br	I	Br	Br			
437.685B	II	P	G	E	N	Tn	D	Y	Ib			
437.685C	II	W	G	E	N	Br	I	Y	Bf			
437.685D	III	W	G	E	N	Tn	I	Y	Lbf			
437.686	II	P	G	E	N	Tn	I	Y	Y			
437.689	II	W	G	E	N	Br	S	Y	Bf			
437.695B	II	P	T	Sa	N	Br	I	Y	Br			
437.697	II	W	L+	E	N	Bl	I	Y	Bl			
437.698	II	W	G	E	N	Dbr	I	Y	Bf			
437.699	II	W	G	E	N	Br	I	Y	Y			
437.707	II	P	G	E	Ssp	Br	I	Y	G			
437.711A	II	P	T	E	N	Br	S	Y	Br			
437.715	II	W	G	E	N	Dbr	S	Y	Bf			
437.716B	II	P	G	Sa	Ssp	Br	I	Y	Bf			
437.718	II	P	L+	E	N	Br	D	Bl	Bl		Dab	
437.722	II	W	G	E	N	Br	I	Y	Lbf			
437.724	II	P	G	E	N	Tn	D	Y	Y			
437.743	II	W	G	Sa	N	Bl	I	Y	Bf			
437.748	II	P	T	E	Ssp	Br	I	Gn	Bl			
437.752A	II	W	G	E	N	Tn	S	Y	Bf			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- maturity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)	(days after May 31)				Early	Late				
437.627	29	95*	2.0	83*	2.5	1.0	1.0	2.3	1.0	13.6	2.69
437.630D	38*	110*	3.1*	103*	3.0	1.0	1.0	2.5	2.5	16.0	2.69*
437.631	31*	105	2.5	89*	3.5	1.0	2.5*	2.5	1.0	18.6	3.09
437.635B	40*	102*	2.5	91	3.5	1.0	1.0	2.5	2.5	12.2	2.75
437.635C	41*	108	2.3	91	4.0	1.0	1.0	2.3	2.0	14.2	2.66
437.635D	41*	107	1.3	77	3.0	1.0	1.0	2.0	1.5	14.5	3.09
437.639	29	101*	2.0*	72	3.0	1.0	1.0	3.0	1.0	14.1	2.77
437.640B	26*	97*	1.3	79*	3.0	1.0	1.0	2.5	2.0	21.8	2.92
437.641A	28*	102*	2.9	87*	3.0	1.0	1.0	2.5	1.5	15.4	2.80
437.643B	34*	97*	1.5	79*	3.0	1.0	1.0	2.8	2.0	15.0	2.69*
437.644	32*	102*	2.1	99*	3.0	1.0	1.0	2.0	2.0	13.1	3.01
437.647	32*	98*	3.0	85*	3.0	1.0	1.0	2.5	1.0	17.3	2.88
437.648B	31*	103*	2.0*	83	3.0	1.0	1.0	2.5	2.0	20.9	3.34
437.649A	29	102*	2.8*	102*	3.5	1.0	1.0	2.5	2.0	15.6	2.96
437.649B	31*	103*	2.0*	96*	3.0	1.0	1.0	3.0*	1.0	14.5	3.31
437.651B	30*	104*	1.8*	95	3.0	1.0	1.0	3.0*	1.0	14.5	3.18
437.652	28*	105*	2.1*	90*	3.0	1.0	1.5	2.8	2.0	22.4	2.96
437.653	43*	103	1.6	73*	2.0	1.0	1.0	2.0	1.5	11.5	2.70
437.656	45*	99*	4.5	61*	5.0	1.5	1.5	1.8	-	3.4	1.05
437.657	40*	107*	2.8	97*	4.0	1.0	1.0	2.3	3.0	14.8	2.51
437.662	55*	107*	4.5	133	5.0	1.0	3.5	2.0	-	3.1	1.15
437.663	45*	99*	4.5	76	5.0	1.5	2.0*	1.5	-	3.3	1.10
437.664	45*	102*	2.6	113	4.0	1.0	1.0	3.0	-	11.8	3.17
437.669	41*	97*	3.7*	109	4.0	1.0	1.0	2.0	-	10.5	1.97
437.674	47*	117	3.3	121	3.5	1.0	1.0	2.3	1.5	18.5	2.95
437.678B	39*	103	2.8	88	3.0	1.0	1.0	2.3	1.0	17.2	3.07
437.682B	46*	108*	2.2	95*	2.0	1.0	1.5	2.5	-	17.7	2.29
437.685B	46*	112	2.5	78*	1.5	1.0	1.0	1.5	1.0	14.1	2.83
437.685C	45*	112	2.5	73*	1.0	2.0	4.5	1.8	1.0	15.0	2.23
437.685D	46*	116*	2.8	83*	1.0	1.0	1.5	2.0	1.5	13.7	2.52
437.686	41*	102	3.3	89	3.0	1.0	1.0	2.5	2.0	19.4	2.78*
437.689	42*	107*	2.8	108	2.5	1.0	1.0	3.0	1.0	14.4	2.64
437.695B	37*	110*	2.3*	83*	1.5	1.0	2.0	2.3	2.5	14.2	2.47
437.697	34*	103*	1.8	112	4.0	1.0	1.0	2.5	1.0	15.6	3.49
437.698	34*	101	1.8*	84*	3.0	1.0	1.0	3.0	1.0	14.6	3.27*
437.699	32*	108*	3.0	113*	3.5	1.0	1.0	2.5	1.5	22.0*	3.14*
437.707	30*	99	2.0	86*	3.0	1.0	1.0	2.5	2.0	23.7	3.22
437.711A	38*	109*	4.1	96	3.0	1.0	1.0	2.0	3.5	12.8	2.59
437.715	32*	99	1.8	76*	3.0	1.0	1.0	3.3*	1.0	14.9	2.88
437.716B	52*	105*	2.5	80	2.0	1.5	5.0	1.8	2.5	10.8	2.17
437.718	39*	99*	2.8	93	3.5	1.0	1.0	2.0	-	11.8	2.48
437.722	28*	97*	1.5	82*	3.0	1.0	1.0	2.8	2.0	22.8	2.96
437.724	40*	103	3.5	90	3.0	1.0	1.0	2.5	1.5	19.1	3.05
437.743	47*	107	4.0	78	2.0	3.0*	5.0	2.0	2.0	12.4	2.27*
437.748	34*	96*	1.1	44*	1.0	1.5	2.0*	2.5	2.0	23.8	2.73*
437.752A	35*	100*	1.6*	82*	3.0	1.0	1.0	2.5	1.0	16.3	2.95

Table 4.3

Seed composition data for USDA soybean germplasm in maturity
group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.627	II	19.2	45.7	10.8	3.0	24.9	53.5	7.7	0.0
437.630D	II	18.0	45.8	11.3	2.9	21.7	56.1	8.0	0.0
437.631	II	19.6	45.6	11.3	2.9	25.0	53.7	6.9	0.2
437.635B	II	17.6	46.6	12.8	2.9	21.0	56.0	7.4	0.0
437.635C	II	19.0	44.8	12.3	2.8	26.1	52.9	5.9	0.0
437.635D	II	19.2	43.4	12.5	2.9	23.7	54.5	6.5	0.0
437.639	II	21.4	43.3	11.1	3.7	29.6	49.6	6.0	0.0
437.640B	II	21.3	42.2	11.3	3.1	23.5	55.6	6.5	0.0
437.641A	II	18.7	44.2	12.5	3.1	18.1	57.1	9.2	0.0
437.643B	II	19.7	44.1	11.9	2.6	26.3	53.6	5.5	0.1
437.644	II	19.6	43.4	10.9	2.8	19.8	58.5	8.0	0.0
437.647	II	20.9	41.0	10.5	3.2	30.5	50.0	5.7	0.2
437.648B	II	20.8	41.5	11.7	3.2	25.9	53.0	6.2	0.0
437.649A	II	19.8	42.3	11.2	2.9	24.2	54.1	7.6	0.0
437.649B	II	19.9	42.0	11.3	3.2	23.6	54.6	7.2	0.0
437.651B	II	21.2	41.0	11.5	3.2	22.3	55.3	7.7	0.0
437.652	II	19.5	44.5	11.6	3.3	25.9	53.0	6.2	0.0
437.653	II	18.5	42.6	11.7	2.9	30.7	48.6	6.1	0.0
437.656	II	13.6	46.4	13.0	3.4	14.9	57.0	11.7	0.0
437.657	II	17.3	45.9	12.7	3.3	20.0	55.8	8.2	0.0
437.662	II	12.4	45.8	12.5	2.8	16.4	56.8	11.5	0.0
437.663	II	12.8	45.9	13.2	3.3	13.5	57.5	12.6	0.0
437.664	II	18.8	42.2	12.0	3.1	25.7	52.5	6.8	0.0
437.669	II	14.7	45.4	11.6	3.0	26.6	52.2	6.6	0.0
437.674	III	20.4	43.8	11.0	3.6	31.2	48.2	6.0	0.0
437.678B	II	20.2	43.3	11.1	4.0	31.7	47.7	5.5	0.0
437.682B	II	17.7	43.2	11.2	3.9	32.9	46.6	5.3	0.0
437.685B	II	16.2	46.1	12.6	2.6	21.2	55.8	7.8	0.0
437.685C	II	16.4	45.7	12.9	2.6	21.3	56.2	7.0	0.0
437.685D	III	17.0	44.6	12.6	3.1	21.3	55.4	7.6	0.0
437.686	II	17.8	45.0	11.6	3.4	27.2	50.7	7.1	0.0
437.689	II	19.7	43.3	11.2	3.1	22.5	56.1	7.1	0.0
437.695B	II	17.8	43.4	12.5	2.7	19.0	57.3	8.2	0.2
437.697	II	20.1	42.0	11.5	3.0	22.9	55.8	6.8	0.0
437.698	II	20.7	41.4	11.0	3.3	24.5	54.7	6.4	0.1
437.699	II	21.3	41.4	11.6	3.0	29.1	50.6	5.6	0.0
437.707	II	19.8	42.4	11.3	3.1	28.7	51.0	6.0	0.0
437.711A	II	16.6	47.0	12.3	3.3	20.4	56.9	7.0	0.0
437.715	II	21.3	40.8	11.6	3.3	21.3	57.0	6.9	0.0
437.716B	II	15.3	46.8	11.6	3.6	21.1	54.7	9.0	0.0
437.718	II	16.1	47.2	11.1	2.8	22.3	56.3	7.4	0.0
437.722	II	21.9	40.7	11.4	3.0	24.3	54.7	6.6	0.0
437.724	II	18.8	44.1	11.5	3.7	29.0	49.5	6.3	0.1
437.743	II	16.9	46.4	11.2	3.0	26.8	51.4	7.6	0.0
437.748	II	19.5	44.4	8.9	2.7	25.4	55.6	7.4	0.0
437.752A	II	21.1	41.8	11.0	3.4	27.4	52.2	6.0	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427,136 to PI 445,845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.752B	(Zin' jugh' N1)	(VIR 5064)	USSR	China	1980	II
437.752C	(Zin' jugh' N1)	(VIR 5064)	USSR	China	1980	II
437.753B		(VIR 458)	USSR	China	1980	II
437.765		VIR 1239	USSR	China	1980	II
437.770		VIR 1278	USSR	China	1980	III
437.777		VIR 1306	USSR	China	1980	II
437.787		VIR 2946	USSR	China	1980	II
437.788A		VIR 3018	USSR	China	1980	II
437.791		VIR 3022	USSR	China	1980	II
437.793		VIR 3024	USSR	China	1980	II
437.795		VIR 5249	USSR	China	1980	II
437.797		VIR 5502	USSR	China	1980	II
437.802		VIR 5510	USSR	China	1980	II
437.803		VIR 5511	USSR	China	1980	II
437.806		VIR 5515	USSR	China	1980	II
437.810		VIR 5708	USSR	China	1980	II
437.811		VIR 5709	USSR	China	1980	II
437.814A	An'da	VIR 2445	USSR	China	1980	II
437.814B	(An'da)	(VIR 2445)	USSR	China	1980	II
437.817	Chang chung hung tou	VIR 643	USSR	China	1980	II
437.818A	Charbin 273/K	VIR 4438	USSR	China	1980	II
437.818B	(Charbin 273/K)	(VIR 4438)	USSR	China	1980	II
437.820	Charbin 336/C	VIR 5024	USSR	China	1980	II
437.825	Charbin 365/K	VIR 4475	USSR	China	1980	II
437.827	Charbinscaja 231a	VIR 3971	USSR	China	1980	II
437.828	Charbinscaja 363/C	VIR 4604	USSR	China	1980	II
437.834A	D-2390	VIR 4442	USSR	China	1980	II
437.834B	(D-2390)	(VIR 4442)	USSR	China	1980	II
437.836	DV-153	VIR 4426	USSR	China	1980	II
437.838	DV-254	VIR 5021	USSR	China	1980	II
437.839A	DV-900	VIR 4211	USSR	China	1980	II
437.840A	DV-901	VIR 4214	USSR	China	1980	II
437.840B	(DV-901)	(VIR 4214)	USSR	China	1980	II
437.841	DV-902	VIR 4213	USSR	China	1980	II
437.842	DV-904	VIR 4217	USSR	China	1980	II
437.843A	DV-905	VIR 4215	USSR	China	1980	II
437.843B	(DV-905)	(VIR 4215)	USSR	China	1980	II
437.844A	DV-909	VIR 4218	USSR	China	1980	II
437.844B	(DV-909)	(VIR 4218)	USSR	China	1980	II
437.845A	DV-910	VIR 4216	USSR	China	1980	II
437.845B	(DV-910)	(VIR 4216)	USSR	China	1980	II
437.845C	(DV-910)	(VIR 4216)	USSR	China	1980	II
437.848A	DV-1746	VIR 5023	USSR	China	1980	II
437.848B	(DV-1746)	(VIR 5023)	USSR	China	1980	II
437.850	DV-2369	VIR 4608	USSR	China	1980	II
437.851B	(DV-2369/2)	(VIR 4609)	USSR	China	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.752B	II	W	G	E	N	Dbr	S	Y	Lbf			
437.752C	II	W	G	E	N	Dbr	I	Y	Bf			
437.753B	II	P	G	E	N	Bl	I	Y	Y			
437.765	II	P	G	E	N	Tn	D	Y	Y			
437.770	III	W	Ng	E	N	Br	D	Bl	Bl			
437.777	II	P	T	E	Ssp	Br	D	Y	Br			
437.787	II	W	G	E	N	Tn	I	Y	Bf			
437.788A	II	P	T	E	Ssp	Br	S	Bl	Bl			
437.791	II	P	L†	E	N	Dbr	I	Y	Br			
437.793	II	W	G	E	N	Br	I	Y	Bf			
437.795	II	P	T	E	N	Br	I	Y	Bl			
437.797	II	P	G	E	N	Dbr	D	Y	Bf			
437.802	II	W	T	E	N	Bl	I	Y	Bl			
437.803	II	P	G	E	N	Dbr	D	Y	Bf			
437.806	II	W	G	E	N	Dbr	I	Y	Bf			
437.810	II	P	L†	E	N	Lbr	D	Y	Br			
437.811	II	W	G	E	N	Dbr	S	Y	Bf			
437.814A	II	P	T	E	N	Tn	I	Y	Y	SAbh		
437.814B	II	P	G	E	N	Bl	S	Y	Y			
437.817	II	W	G	E	N	Dbr	I	Bf	Bf			
437.818A	II	P	G	E	N	Br	I	Y	lb			
437.818B	II	P	G	E	N	Tn	I	Y	lb			
437.820	II	P	T	E	N	Br	I	Y	Br			
437.825	II	P	Ng	E	N	Tn	D	Bl	Bl			
437.827	II	P	T	E	N	Br	I	Y	Bl			
437.828	II	P	T	E	N	Br	I	Br	Br		Dab	
437.834A	II	P	T	E	N	Br	I	Y	Bl			
437.834B	II	P	T	E	N	Tn	I	Y	Br			
437.836	II	P	T	E	N	Br	I	Y	Y			
437.838	II	W	G	E	N	Br	I	Y	Lbf			
437.839A	II	W	G	E	Ssp	Br	D	Y	Y			
437.840A	II	P	L†	E	Ssp	Br	S	Gnbr	Br			
437.840B	II	P	L†	E	N	Lbr	I	Gnbr	Br			
437.841	II	W	G	E	N	Br	I	Y	Y	SAbh		
437.842	II	W	G	E	N	Br	D	Y	Bf			
437.843A	II	P	L†	E	Ssp	Br	I	Y	Y			
437.843B	II	P	G	E	Ssp	Br	I	Y	Y			
437.844A	II	P	T	E	Ssp	Br	I	Y	Y			
437.844B	II	W	G	E	N	Br	S	Y	Bf			
437.845A	II	P	T	E	N	Br	D	Y	G			
437.845B	II	P	G	E	N	Br	D	Y	Y			
437.845C	II	P	G	E	N	Br	I	Y	lb			
437.848A	II	P	L†	E	N	Br	I	Br	Br		Dab	
437.848B	II	P	T	E	N	Br	I	Br	Br	SAbh	Dab	
437.850	II	P	T	E	Ssp	Br	D	Y	Br			
437.851B	II	P	G	E	N	Br	I	Y	G			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.752B	39*	107	2.5	86	3.0	1.0	1.0	2.8	1.0	16.9	3.08
437.752C	39*	110	2.8	100	3.0	1.0	1.5	2.8	1.0	17.6	3.16*
437.753B	40*	101*	2.8	108	4.0	1.0	1.0	2.5	2.0	14.7	3.23
437.765	40*	102	3.3	92	3.0	1.0	1.0	2.3	1.5	17.6	3.03
437.770	58	117*	3.0	108*	4.0	1.0	1.0	2.5	-	11.0	1.93*
437.777	31	99	1.6*	83	3.0	1.0	1.0	2.3	2.0	12.6	2.79
437.787	42*	104*	2.3*	75*	2.0	1.0	1.5	2.0	1.0	11.3	2.86
437.788A	39*	97*	2.1	80	3.0	1.0	1.0	2.3	-	13.4	2.57
437.791	42*	108*	3.8	107	4.0	1.0	2.5	2.0	2.5	8.4	1.98
437.793	41*	113*	2.3	75	2.0	1.0	1.0	1.8	1.0	14.6	2.68
437.795	37*	101*	2.8	113	4.0	1.0	1.0	2.5	2.0	13.7	2.72
437.797	35	101*	1.5	70*	1.0	1.5	2.0*	1.5	1.0	8.1	2.55
437.802	45*	110	3.1	97	4.0	1.0	1.5	2.5	2.0	13.6	2.58*
437.803	36*	100*	1.6	67	1.0	1.0	1.0	2.0	1.0	7.5	2.62
437.806	30	99*	1.6*	80	3.0	1.0	1.0	2.8	1.0	15.4	3.26
437.810	38*	100*	2.3*	85	3.0	1.0	1.0	2.8	2.5	15.5	2.88
437.811	34*	102	2.0*	79	2.5	1.0	1.0	3.3*	1.5	14.8	3.49
437.814A	39*	108*	2.1*	60	2.0	1.0	1.0	2.5	1.5	12.9	3.05
437.814B	44*	110*	4.0	103	3.5	1.5	1.5	3.0	1.5	13.7	2.92
437.817	30	100*	2.5	96	3.0	1.0	1.0	2.5	-	17.6*	2.82
437.818A	34*	100*	2.3	93	3.0	1.0	1.0	2.5	2.0	16.9	3.22
437.818B	35*	103*	2.5	98	3.0	1.0	1.0	2.3	2.0	17.0	3.39
437.820	31*	100*	1.6	95	3.5	1.0	1.0	2.5	2.0	17.2	3.10
437.825	37*	100*	3.0	90	4.0	1.0	1.0	2.0	-	12.4	2.68
437.827	25*	96*	1.8*	80*	3.0	1.0	1.0	3.0	1.5	15.8	2.75
437.828	29	99*	3.3	104*	4.0	1.0	1.0	2.3	-	12.4	2.65*
437.834A	35*	108*	3.3	106*	3.0	1.0	1.0	2.8	1.5	16.5	3.10
437.834B	34	112*	3.1	107	3.0	1.0	1.0	2.5	2.0	14.6	2.99*
437.836	34	104*	2.5	104	3.5	1.0	1.0	2.8	2.5	17.9	3.25
437.838	29	98	2.3*	83	3.0	1.0	1.0	2.8	2.5	17.5	3.44
437.839A	32	105	2.3*	91	3.0	1.0	1.0	3.3	2.0	17.0	3.01
437.840A	47*	110	3.0	127	4.0	1.0	1.0	2.5	-	12.3	2.64
437.840B	45*	109*	2.8	131*	4.0	1.5	1.5	2.5	-	11.0	3.25
437.841	29*	96*	2.3	82*	3.0	1.0	1.0	2.8	2.0	16.8	2.88
437.842	Tested in and reported with the groups III and IV evaluation.										
437.843A	32	101*	2.5	99*	4.0	1.0	1.0	2.5	3.0*	14.1	3.01
437.843B	32*	102*	2.5	92	3.0	1.0	1.0	2.5	1.5	18.2	3.33
437.844A	34*	105*	2.0	98	3.5	1.0	1.0	2.8*	3.0*	14.9	2.86
437.844B	41*	105*	3.1	94	3.0	1.0	1.0	2.8	1.5	15.3	3.41
437.845A	27*	98*	2.1*	81*	2.0	1.0	1.0	2.3	1.5	12.8	3.12
437.845B	33*	102*	2.6	96	3.5	1.0	1.0	2.5	1.0	15.6	3.27*
437.845C	36*	106*	2.3	84	3.0	1.0	1.0	2.3	1.0	14.9	3.51
437.848A	37*	105*	3.0	102	3.5	1.0	1.0	2.3	-	14.4	3.27
437.848B	35*	104*	2.6	98	3.5	1.0	1.0	2.3	-	13.2	2.70
437.850	38*	104*	2.5	97	3.0	1.0	1.0	2.5	2.5	14.3	2.87
437.851B	30*	104*	2.3	90*	3.0	1.0	1.0	2.8	1.5	21.6	2.93

Table 4.3

Seed composition data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.752B	II	20.3	41.0	12.0	3.9	28.9	49.0	6.2	0.0
437.752C	II	18.9	42.8	11.3	4.1	29.5	48.3	6.4	0.4
437.753B	II	19.4	43.6	10.3	3.4	27.8	52.0	6.6	0.0
437.765	II	19.0	44.0	11.6	3.2	25.7	52.0	7.5	0.0
437.770	III	15.8	46.3	11.9	2.7	20.6	55.9	8.9	0.0
437.777	II	20.2	41.5	11.2	2.9	19.7	57.9	8.3	0.0
437.787	II	16.9	45.8	13.0	3.8	25.6	51.0	6.5	0.0
437.788A	II	18.0	43.3	11.6	3.6	22.0	56.1	6.6	0.0
437.791	II	15.7	44.5	13.8	3.3	18.6	55.8	8.6	0.0
437.793	II	18.9	43.0	11.6	3.4	27.8	51.1	6.0	0.0
437.795	II	19.3	44.3	12.9	3.2	18.5	57.2	8.1	0.0
437.797	II	17.8	42.6	13.9	3.5	17.7	57.1	7.8	0.0
437.802	II	19.3	43.4	11.3	3.5	23.0	54.5	7.8	0.0
437.803	II	16.1	44.1	14.1	3.6	18.0	56.6	7.7	0.0
437.806	II	21.3	42.0	10.9	3.2	28.0	52.1	5.8	0.0
437.810	II	19.6	44.4	10.4	3.2	29.0	51.2	6.2	0.0
437.811	II	21.0	41.7	11.3	3.6	24.6	54.6	5.9	0.0
437.814A	II	18.3	44.5	12.4	3.4	19.2	57.1	7.9	0.0
437.814B	II	18.3	46.6	12.2	3.2	19.1	57.1	8.4	0.0
437.817	II	18.5	46.6	11.5	2.8	33.8	47.0	5.0	0.0
437.818A	II	19.6	43.8	12.2	3.1	23.3	54.2	7.3	0.0
437.818B	II	19.2	45.0	11.5	3.3	23.4	54.7	7.2	0.0
437.820	II	18.4	45.9	10.7	3.2	20.7	57.9	7.6	0.0
437.825	II	17.0	44.8	12.2	3.1	23.1	54.3	7.2	0.0
437.827	II	21.3	42.6	10.4	3.3	24.4	54.3	7.6	0.0
437.828	II	16.3	45.8	10.8	3.3	27.2	52.6	6.0	0.0
437.834A	II	19.6	45.4	10.8	3.1	22.0	57.2	6.9	0.0
437.834B	II	19.3	44.9	10.7	4.1	24.9	54.0	6.3	0.0
437.836	II	19.9	44.5	10.7	3.1	22.3	56.9	7.0	0.0
437.838	II	20.5	43.9	11.4	2.7	26.7	53.3	5.9	0.0
437.839A	II	19.6	43.0	11.9	3.1	27.2	50.5	7.2	0.0
437.840A	II	17.8	41.9	11.6	3.0	26.5	52.5	6.4	0.0
437.840B	II	18.9	42.8	12.2	2.9	23.6	54.1	7.1	0.1
437.841	II	19.7	42.7	12.9	3.0	22.7	53.8	7.6	0.0
437.842	II	Tested in and reported with the groups III and IV evaluation.							
437.843A	II	19.0	44.3	11.6	3.0	22.7	56.0	6.7	0.0
437.843B	II	20.8	44.4	11.9	2.9	25.4	54.0	5.8	0.0
437.844A	II	19.3	44.3	12.8	3.6	22.5	54.5	6.6	0.0
437.844B	II	19.6	44.3	10.9	3.2	27.1	52.1	6.7	0.0
437.845A	II	18.3	45.3	11.5	2.7	18.6	58.2	9.0	0.0
437.845B	II	18.4	47.0	11.9	2.8	21.7	56.2	7.4	0.0
437.845C	II	19.3	44.9	11.4	3.0	23.4	55.1	7.1	0.0
437.848A	II	17.9	43.8	11.9	2.5	21.2	56.8	7.6	0.0
437.848B	II	17.8	43.7	11.9	2.2	20.7	57.1	8.1	0.0
437.850	II	17.9	44.8	11.0	2.7	21.7	57.6	7.0	0.0
437.851B	II	19.6	45.8	10.6	3.2	23.2	56.9	6.1	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.856A	DV-2737	VIR 4618	USSR	China	1980	II
437.856B	(DV-2737)	(VIR 4618)	USSR	China	1980	II
437.857C	(DV-2784)	(VIR 4632)	USSR	China	1980	II
437.860B	(DV-2836)	(VIR 4684)	USSR	China	1980	II
437.863A	DV-2841	VIR 4689	USSR	China	1980	II
437.864B	(DV-2842)	(VIR 4690)	USSR	China	1980	II
437.865	DV-2844	VIR 4692	USSR	China	1980	II
437.867A	DV-2848	VIR 4696	USSR	China	1980	II
437.867B	(DV-2848)	(VIR 4696)	USSR	China	1980	II
437.870	DV-2887	VIR 4464	USSR	China	1980	II
437.871	Elita 673	VIR 4303	USSR	China	1980	II
437.873	Elita 676	VIR 4335	USSR	China	1980	II
437.874	Elita 678	VIR 4304	USSR	China	1980	II
437.875B	(Elita 691)	(VIR 4306)	USSR	China	1980	II
437.876	Elita 693	VIR 4308	USSR	China	1980	II
437.877B	(Elita 694)	(VIR 4309)	USSR	China	1980	II
437.878B	(Elita 695)	(VIR 4310)	USSR	China	1980	II
437.879	Elita 700	VIR 4313	USSR	China	1980	II
437.880	Elita 701	VIR 4314	USSR	China	1980	II
437.881	Elita 705	VIR 4315	USSR	China	1980	II
437.882A	Elita 707	VIR 4316	USSR	China	1980	II
437.882B	(Elita 707)	(VIR 4316)	USSR	China	1980	II
437.883	Elita 709	VIR 4318	USSR	China	1980	II
437.884	Elita 710	VIR 4319	USSR	China	1980	II
437.885	Elita 715	VIR 4320	USSR	China	1980	II
437.886B	(Elita 716)	(VIR 4321)	USSR	China	1980	II
437.887B	(Elita 717)	(VIR 4322)	USSR	China	1980	II
437.887C	(Elita 717)	(VIR 4322)	USSR	China	1980	II
437.889	Elita 728	VIR 4326	USSR	China	1980	II
437.890B	(Elita 729)	(VIR 4327)	USSR	China	1980	II
437.891	Elita 733	VIR 4328	USSR	China	1980	II
437.893	Elita 743	VIR 4330	USSR	China	1980	II
437.896	Elita 747	VIR 4333	USSR	China	1980	II
437.897	Elita 751	VIR 4334	USSR	China	1980	II
437.898	Elita 756	VIR 4336	USSR	China	1980	II
437.899	Elita 759	VIR 4337	USSR	China	1980	II
437.900	Elita 760	VIR 4338	USSR	China	1980	II
437.902A	Elita 764	VIR 4341	USSR	China	1980	II
437.902B	(Elita 764)	(VIR 4341)	USSR	China	1980	II
437.902C	(Elita 764)	(VIR 4341)	USSR	China	1980	II
437.902D	(Elita 764)	(VIR 4341)	USSR	China	1980	II
437.904	Elita 767	VIR 4339	USSR	China	1980	II
437.908	Hslao hei chin echo	VIR 681	USSR	China	1980	II
437.909B	(Huang tou)	(VIR 403)	USSR	China	1980	II
437.913	Manczurscaja 347/C	VIR 4595	USSR	China	1980	II
437.921	Shua hei mi	VIR 705	USSR	China	1980	II

Table 2.3
Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.856A	II	P	G	E	N	Tn	I	Y	Bf			
437.856B	II	P	G	E	N	Br	I	Y	Bf			
437.857C	II	P	L†	E	N	Lbr	I	Y	Br			
437.860B	II	W	G	E	N	Br	I	Y	Lbf			
437.863A	II	W	G	E	N	Br	I	Y	Lbf			
437.864B	II	W	G	E	N	Dbr	D	Y	Bf			
437.865	II	P	G	E	N	Br	I	Y	Y			
437.867A	II	P	G	E	N	Dbr	I	Y	lb			
437.867B	II	P	L†	E	N	Bl	I	Y	Br			
437.870	II	P	G	E	N	Br	I	Y	Bf			
437.871	II	W	G	E	N	Br	I	Y	Y			
437.873	II	W	G	E	N	Br	I	Y	Y			
437.874	II	W	G	E	N	Br	I	Y	Lbf			
437.875B	II	P	T	E	N	Br	I	Y	Y			
437.876	II	P	T	E	N	Br	D	Y	Br			
437.877B	II	W	G	E	N	Tn	I	Y	Y			
437.878B	II	W	G	E	N	Br	I	Y	Lbf			
437.879	II	W	G	E	N	Br	I	Y	Y			
437.880	II	W	G	E	N	Br	I	Y	Y			
437.881	II	W	G	E	N	Br	I	Y	Y			
437.882A	II	P	G	E	N	Br	I	Y	Y			
437.882B	II	W	G	E	N	Br	I	Y	Y			
437.883	II	W	G	E	N	Br	I	Y	Y			
437.884	II	W	G	E	N	Br	I	Y	Y			
437.885	II	W	G	E	N	Br	I	Y	Y			
437.886B	II	W	G	E	N	Br	I	Y	Y			
437.887B	II	P	G	E	N	Br	I	Y	G			
437.887C	II	W	G	E	N	Lbr	I	Y	Y			
437.889	II	P	G	Sa	N	Br	D	Y	Bf			
437.890B	II	P	T	E	N	Br	I	Y	Br			
437.891	II	P	T	E	N	Lbr	I	Lgn	Br			
437.893	II	P	T	E	N	Lbr	I	Y	Br			
437.896	II	P	T	E	N	Br	I	Y	Y			
437.897	II	P	T	E	N	Br	I	Y	Bl			
437.898	II	P	T	E	N	Br	I	Y	Br			
437.899	II	P	T	E	N	Br	I	Y	Br			
437.900	II	P	T	E	N	Br	I	Y	Bl			
437.902A	II	P	T	E	N	Br	I	Y	Br			
437.902B	II	W	T	E	N	Br	S	Y	Lbl			
437.902C	II	W	T	E	N	Br	I	Y	Br			
437.902D	II	P	T	E	N	Br	S	Y	Lbl			
437.904	II	P	T	E	N	Br	S	Y	Bl			
437.908	II	P	T	E	N	Br	S	Y	Bl			
437.909B	II	W	L†	E	N	Br	I	Y	G			
437.913	II	P	L†	E	Ssp	Br	D	Y	Bl			
437.921	II	P	G	E	N	Br	S	Y	lb			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.856A	35*	103*	2.1*	71*	2.0	1.0	1.0	2.5	1.0	15.9	3.06
437.856B	36*	107	2.5*	71*	2.0	1.0	1.0	2.3	1.0	14.3	3.12
437.857C	40*	107*	2.8	99*	4.0	1.0	1.5	2.3	3.0*	15.0	2.53
437.860B	28*	103*	2.3	97*	3.0	1.0	1.0	2.5	2.0	20.9	3.39
437.863A	34*	106	1.8	86*	2.5	1.0	1.0	3.3*	1.0	15.8	3.41
437.864B	41	103*	2.0*	75*	2.5	1.0	1.5	2.5	1.0	13.6	2.74
437.865	34*	106*	2.0	95*	3.0	1.0	1.0	2.8	2.5	15.3	3.43
437.867A	29*	100*	2.5	92*	3.0	1.0	1.0	2.5	1.5	16.5	3.32
437.867B	35	102*	2.8	105*	3.0	1.0	1.0	2.5	2.0	17.9	3.14
437.870	33*	102*	2.5*	70*	2.0	1.0	1.0	3.3*	1.0	13.8	3.45
437.871	32*	110*	3.1	114	3.5	1.0	1.0	2.8	2.5	19.5*	3.49
437.873	27*	99*	1.8	96*	3.0	1.0	1.0	2.5	1.5	21.1	3.39
437.874	30*	100*	2.1	94*	3.0	1.0	1.0	2.8	2.0*	19.7	3.33
437.875B	39*	110*	3.3	107	3.5	1.0	1.0	3.0	2.5	16.5	3.03
437.876	39*	105*	2.6	104*	3.5	1.0	1.0	2.5	2.5	15.9	2.96
437.877B	27*	102*	2.8	80*	3.0	1.0	1.0	2.8	1.5	21.7	2.99
437.878B	30*	99*	2.8*	83	3.0	1.0	1.0	3.0	2.5	21.4	2.98
437.879	32*	108*	3.0	118*	3.5	1.0	1.0	3.0	2.0	20.3*	2.84
437.880	38*	111*	2.8*	111*	3.5	1.0	1.0	2.5	1.5	19.5	3.10
437.881	32*	108*	2.9*	114*	4.0	1.0	1.0	2.5	2.5	19.5	3.28
437.882A	36*	109*	3.0	109*	4.0	1.0	1.0	2.3	3.0	16.7	2.82
437.882B	32*	106*	2.8*	110*	3.0	1.0	1.0	2.8	2.0	20.3*	3.21
437.883	32*	110*	3.4	122*	3.5	1.0	1.0	2.5	2.0	20.4	3.35
437.884	32*	108*	3.4	113*	3.5	1.0	1.0	2.5	2.0	19.6*	3.32
437.885	31	98*	2.5	92*	4.0	1.0	1.0	2.5	2.0	17.9	3.06
437.886B	32*	108*	3.3	112*	3.5	1.0	1.0	2.8	1.5	18.9*	3.42
437.887B	32*	107*	3.1*	103*	3.0	1.0	1.0	3.3	1.5	19.5*	3.33
437.887C	32*	111*	3.0	120*	3.0	1.0	1.0	3.3	1.5	20.3	3.29
437.889	41*	109	3.8	110	3.0	1.0	1.0	2.8	1.5	16.1	3.06*
437.890B	34	100*	2.7	79	3.0	1.0	1.0	2.5	1.5	13.6	2.49
437.891	39*	101*	2.3	98*	4.0	1.0	1.0	2.5	2.5	15.4	2.64*
437.893	39*	104*	2.8	111*	4.0	1.0	1.0	2.3	2.0*	15.6	2.96
437.896	33*	103*	2.5	105*	4.0	1.0	1.0	2.5	1.5	15.0	3.16
437.897	34*	103*	1.8	90*	3.0	1.0	1.0	2.5	1.5	19.4	3.24
437.898	38*	104*	2.8	109*	3.5	1.0	1.0	2.3	2.5	15.6	2.79
437.899	38*	106*	3.0	107	3.5	1.0	1.0	2.3	2.5	15.5	2.78
437.900	35*	106*	2.8	108*	3.5	1.0	1.0	2.3	2.5	14.9	3.35
437.902A	39*	106*	3.0	112*	3.5	1.0	1.0	2.3	2.5	15.0	3.04
437.902B	33*	103*	2.8	103	3.5	1.0	1.0	2.0	2.0	14.2	2.90
437.902C	39*	107*	3.1	121*	3.5	1.0	1.0	2.0	2.0	15.5	2.93
437.902D	33	105	2.5	110	3.5	1.0	1.0	2.3	2.0	15.3	3.19
437.904	40*	102*	2.6	117	3.0	1.0	1.0	2.5	2.5	13.0	2.67
437.908	28*	103*	3.3*	102*	2.5	1.0	1.0	2.8	2.0	14.1	3.00
437.909B	38*	111*	2.9	105	3.0	1.0	1.0	2.5	3.0*	18.5	3.49
437.913	27*	99*	2.0	88*	3.0	1.0	1.0	2.5	2.5	13.6	2.84
437.921	32	99*	2.3*	68*	3.0	1.0	1.0	2.8	1.5	13.7	2.77

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.856A	II	19.9	44.9	10.3	3.5	24.7	55.6	6.0	0.0
437.856B	II	19.1	44.8	10.8	2.9	21.4	57.9	7.1	0.0
437.857C	II	18.3	44.6	10.3	2.6	28.5	52.9	5.7	0.0
437.860B	II	18.4	44.6	11.6	2.8	22.2	55.9	7.4	0.0
437.863A	II	20.3	42.7	11.8	3.2	21.2	56.4	7.4	0.1
437.864B	II	18.7	45.1	11.6	3.4	24.9	53.1	7.0	0.0
437.865	II	18.8	45.5	11.1	3.0	19.6	58.7	7.6	0.0
437.867A	II	18.9	45.3	12.7	3.6	21.2	54.9	7.6	0.0
437.867B	II	19.3	44.8	11.6	3.2	28.8	50.7	5.8	0.0
437.870	II	19.4	42.7	10.9	3.4	21.1	57.2	7.2	0.1
437.871	II	20.0	44.2	12.4	3.4	26.6	51.8	5.8	0.0
437.873	II	21.6	40.7	11.8	3.4	29.6	49.3	5.9	0.0
437.874	II	21.4	43.3	11.2	3.0	26.5	53.3	6.0	0.0
437.875B	II	19.0	43.5	11.0	2.9	20.7	57.0	8.4	0.0
437.876	II	20.1	43.5	10.3	3.1	23.9	56.0	6.6	0.0
437.877B	II	17.7	47.5	10.9	2.8	24.8	55.6	5.8	0.0
437.878B	II	20.0	45.1	10.5	3.0	26.2	53.9	6.4	0.0
437.879	II	21.1	44.2	11.9	3.1	27.8	51.4	5.8	0.0
437.880	II	20.5	44.1	12.4	3.1	26.4	52.0	6.1	0.0
437.881	II	21.1	43.6	12.5	3.1	24.4	53.5	6.3	0.1
437.882A	II	17.1	46.9	12.2	3.4	23.4	53.6	7.5	0.0
437.882B	II	20.4	44.2	11.8	3.0	29.9	49.8	5.5	0.0
437.883	II	20.8	44.0	12.0	2.9	27.1	51.6	6.2	0.2
437.884	II	20.5	44.2	12.5	3.1	24.7	53.2	6.5	0.0
437.885	II	21.5	44.8	10.6	3.1	22.7	57.2	6.5	0.0
437.886B	II	20.3	44.5	11.8	3.1	26.5	52.3	6.1	0.1
437.887B	II	21.0	42.3	11.3	2.6	34.4	46.3	5.4	0.0
437.887C	II	19.0	44.2	11.7	3.0	29.7	49.4	6.2	0.0
437.889	II	19.5	43.2	10.8	2.8	24.4	54.8	7.2	0.0
437.890B	II	18.4	46.8	11.5	3.1	22.2	56.6	6.5	0.0
437.891	II	18.6	46.4	11.8	2.8	23.9	55.5	6.1	0.0
437.893	II	18.2	46.6	12.7	3.2	19.9	56.4	7.8	0.0
437.896	II	17.9	45.2	12.2	3.0	18.9	57.6	8.3	0.0
437.897	II	18.9	44.6	11.2	3.3	25.7	52.9	6.9	0.0
437.898	II	18.1	46.4	12.7	3.2	20.8	56.0	7.4	0.0
437.899	II	18.4	46.9	12.3	3.2	21.1	56.4	7.1	0.0
437.900	II	18.8	45.9	12.4	3.3	19.7	57.5	7.2	0.0
437.902A	II	18.7	45.9	12.8	3.2	19.2	57.1	7.7	0.0
437.902B	II	20.0	44.5	12.3	3.2	24.1	53.6	6.7	0.0
437.902C	II	18.4	46.6	12.7	3.4	22.1	54.5	7.3	0.0
437.902D	II	20.0	44.6	11.8	3.1	22.6	55.4	7.2	0.0
437.904	II	18.0	41.0	11.7	3.9	20.6	55.6	8.1	0.1
437.908	II	20.3	41.4	11.3	3.6	23.2	54.7	7.2	0.0
437.909B	II	20.4	43.3	11.9	3.4	26.0	52.0	6.7	0.0
437.913	II	19.4	44.3	11.0	3.1	21.0	57.3	7.6	0.0
437.921	II	20.4	44.0	11.2	3.4	27.5	52.0	5.9	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.926		VIR 271	USSR	China	1980	II
437.931		VIR 327	USSR	China	1980	II
437.932		VIR 336	USSR	China	1980	II
437.935		VIR 475	USSR	China	1980	II
437.940		VIR 508	USSR	China	1980	II
437.943		VIR 567	USSR	China	1980	II
437.944		VIR 569	USSR	China	1980	II
437.946A		VIR 765	USSR	China	1980	II
437.946B		(VIR 765)	USSR	China	1980	II
437.950		VIR 966	USSR	China	1980	II
437.954		VIR 1387	USSR	China	1980	II
437.956B		(VIR 1390)	USSR	China	1980	II
437.957B		(VIR 1402)	USSR	China	1980	II
437.961		VIR 1412	USSR	China	1980	II
437.964A		VIR 1420	USSR	China	1980	II
437.964B		(VIR 1420)	USSR	China	1980	II
437.970		VIR 1460	USSR	China	1980	II
437.973		VIR 1484	USSR	China	1980	II
437.974B		(VIR 1489)	USSR	China	1980	II
437.985A		VIR 1602	USSR	China	1980	II
437.985B		(VIR 1602)	USSR	China	1980	II
438.001		VIR 1723	USSR	China	1980	II
438.003		VIR 1739	USSR	China	1980	II
438.011		VIR 1813	USSR	China	1980	II
438.019B		(VIR 1883)	USSR	China	1980	II
438.046		VIR 2300	USSR	China	1980	II
438.051B		(VIR 2329)	USSR	China	1980	II
438.057		VIR 2390	USSR	China	1980	II
438.061		VIR 2405	USSR	China	1980	II
438.066		VIR 2426	USSR	China	1980	II
438.069A		VIR 2438	USSR	China	1980	II
438.069B		(VIR 2438)	USSR	China	1980	II
438.069C		(VIR 2438)	USSR	China	1980	III
438.070		VIR 2443	USSR	China	1980	II
438.076		VIR 2473	USSR	China	1980	II
438.080		VIR 2489	USSR	China	1980	II
438.083		VIR 2506	USSR	China	1980	II
438.084		VIR 2507	USSR	China	1980	II
438.085		VIR 2508	USSR	China	1980	II
438.086		VIR 2516	USSR	China	1980	II
438.096		VIR 2555	USSR	China	1980	II
438.098		VIR 2565	USSR	China	1980	II
438.102		VIR 2586	USSR	China	1980	II
438.103		VIR 2588	USSR	China	1980	II
438.104		VIR 2594	USSR	China	1980	II
438.105B		(VIR 2595)	USSR	China	1980	II

Table 2.3
Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.926	II	P	T	E	N	Br	I	Bl	Bl	Fleck	Dab	
437.931	II	P	L†	E	N	Tn	I	Bl	Bl	Fleck		
437.932	II	W	G	E	N	Br	I	Y	Lbf			
437.935	II	P	T	Sa	Sp	Bl	S	Gnbr	Br			Sw
437.940	II	Dp	Ng	E	N	Tn	D	Bl	Bl			
437.943	II	P	T	E	Ssp	Br	D	Y	Y			
437.944	II	P	T	E	Ssp	Bl	I	Bl	Bl		Dab	Sw
437.946A	II	P	T	E	N	Br	D	Y	Y			
437.946B	II	P	T	E	N	Tn	D	Lgn	Br			
437.950	II	P	L†	E	Ssp	Br	D	Bl	Bl		Dab	
437.954	II	P	T	E	Ssp	Br	I	Y	Br			
437.956B	II	P	G	E	N	Dbr	I	Y	Bf			
437.957B	II	P	T	E	N	Br	I	Y	Br			
437.961	II	P	T	E	N	Br	I	Y	Br			
437.964A	II	P	T	E	Ssp	Bl	S	Y	Y			
437.964B	II	P	T	E	N	Bl	S	Y	Br			
437.970	II	W	G	E	N	Bl	I	Y	Y			
437.973	II	P	T	E	Ssp	Bl	S	Y	Br			
437.974B	II	W	G	E	N	Br	S	Y	Bf			
437.985A	II	P	G	E	N	Tn	S	Y	Y			
437.985B	II	P	G	E	N	Tn	I	Y	Y			
438.001	II	P	T	E	N	Br	D	Y	Br			
438.003	II	P	T	E	N	Br	I	Y	Bl			
438.011	II	P	T	E	Ssp	Br	D	Y	Bl			
438.019B	II	P	T	E	N	Br	I	Y	Br			
438.046	II	P	T	E	N	Br	D	Y	Y			
438.051B	II	P	T	E	N	Br	D	Y	Br			
438.057	II	P	T	E	N	Br	I	Y	Bl			
438.061	II	P	T	E	Ssp	Br	D	Y	Br			
438.066	II	P	T	E	N	Br	D	Y	Br			
438.069A	II	P	T	E	Ssp	Bl	I	Y	Br			
438.069B	II	P	T	E	N	Br	D	Y	Br			
438.069C	III	P	T	E	N	Bl	I	Y	Br	SAbh		
438.070	II	W	-	C	N	Tn	I	Y	Bf			
438.076	II	P	G	E	N	Dbr	I	Y	Bf			
438.080	II	P	T	E	Ssp	Br	D	Y	Br			
438.083	II	P	G	E	N	Br	I	Y	Bf			
438.084	II	P	G	E	N	Dbr	S	Y	Lbf			
438.085	II	P	G	E	N	Dbr	I	Y	Lbf			
438.086	II	P	T	E	N	Tn	I	Y	Bl			
438.096	II	P	T	E	Ssp	Br	D	Y	Br			
438.098	II	P	T	E	Ssp	Br	D	Y	Br			
438.102	II	P	T	E	N	Br	I	Y	Bl			
438.103	II	P	G	E	N	Dbr	S	Y	Bf			
438.104	II	P	T	E	N	Br	I	Y	Bl			
438.105B	II	P	T	E	N	Br	I	Y	Bl			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.926	40*	104*	3.8	97	2.5	1.0	1.0	2.3	-	8.6	2.19*
437.931	25	102*	3.0	88	4.0	1.0	1.5	2.3	-	12.3	2.60*
437.932	32*	103*	1.6*	83	3.0	1.0	1.0	3.0	2.0	19.7	2.89
437.935	43*	96*	4.5	81	5.0	1.5	1.5	1.8	-	4.3	1.76
437.940	40*	101*	2.5	91	4.0	1.0	1.0	2.3	-	12.7	2.77
437.943	36	103*	2.8	100*	3.0	1.0	1.0	2.3	2.5	15.1	2.94
437.944	Tested in and reported with the groups III and IV evaluation.										
437.946A	32	101*	2.8*	95*	3.0	1.0	1.0	3.0	2.0	19.6	3.13
437.946B	36*	101*	2.3*	89*	3.0	1.0	1.0	2.5	2.0	16.3*	3.07
437.950	Tested in and reported with the groups III and IV evaluation.										
437.954	33*	100*	2.0	90*	3.0	1.0	1.0	2.5	2.0	14.3	3.09
437.956B	39*	107*	3.3*	93*	3.0	1.0	1.0	2.0	1.0	14.3	2.93
437.957B	40*	107*	3.0*	90*	3.0	1.0	1.0	2.3	1.5	14.0	3.23
437.961	35*	107*	2.5	90	3.0	1.0	1.0	2.8	2.0	14.8	2.94
437.964A	30	97*	2.1*	76*	3.0	1.0	1.0	2.8	2.0	15.0	2.79
437.964B	36*	99*	3.0*	80	3.0	1.0	1.0	3.0	3.0*	15.0*	2.86
437.970	31	102*	1.6*	88*	3.0	1.0	1.0	2.8	2.0	17.1*	3.37
437.973	32*	103*	3.8	87	2.0	1.0	1.0	2.5	2.5	13.6	2.62
437.974B	35*	100*	2.0	77*	3.0	1.0	1.0	2.5	1.0	14.8	3.09
437.985A	31*	97*	2.0	90	3.0	1.0	1.0	2.3	2.0	16.3	2.92
437.985B	34*	98*	2.5*	82	3.0	1.0	1.0	2.5	1.5	16.7	2.95
438.001	34*	102*	2.3*	72	3.0	1.0	1.0	2.0	1.5	12.9	2.55
438.003	24*	95*	2.8*	80*	3.0	1.0	1.0	2.8	1.0	16.3	2.69
438.011	38*	108*	2.8	120	3.5	1.0	1.0	2.5	1.5	15.5	3.08
438.019B	45*	110*	2.8	115*	3.5	1.0	1.0	2.5	3.0*	13.6	2.54
438.046	30	95*	1.8*	73*	3.0	1.0	1.0	3.0	1.0	17.3	2.94
438.051B	39*	104	2.8	93	3.5	1.0	1.0	2.5	2.5	14.5*	2.64
438.057	36	108*	3.0	111	3.0	1.0	1.0	2.8	1.5	17.7*	2.80
438.061	37*	105*	2.6	99	3.5	1.0	1.0	2.5	2.5	14.1*	3.01
438.066	36*	102*	2.8	100*	3.0	1.0	1.0	2.5	2.5	13.6	2.84
438.069A	35*	106	1.5	77*	2.0	2.0*	3.0*	2.8	2.0	12.6	2.62*
438.069B	39*	103*	2.6*	100*	4.0	1.0	1.0	2.0	2.5	14.4	2.87
438.069C	48*	116	1.5	92	2.0	1.0	1.0	2.5	2.5	14.1	3.18
438.070	34*	105	2.3	78	3.0	1.0	1.0	2.5	1.5	16.4	2.18
438.076	32	100	1.8*	71	3.0	1.0	1.0	2.5	1.5	19.2	3.38
438.080	34*	100*	2.3	98*	4.0	1.0	1.0	2.5	2.5	14.7*	3.23
438.083	34*	104	2.4	112	4.0	1.0	1.0	3.0	1.0	14.5	3.15
438.084	28	105	2.5	96	3.0	1.0	1.0	2.8	1.0	17.0	3.13
438.085	30	104	2.3	97	3.0	1.0	1.0	2.8	1.0	16.9	3.39
438.086	34*	103*	2.8	86	3.0	1.0	1.0	2.8	2.0	15.2	3.10
438.096	38*	100*	2.5	98	3.5	1.0	1.0	2.8	2.5	12.1	2.86
438.098	32*	100*	2.3	95*	3.0	1.0	1.0	2.3	1.5	13.5	3.09
438.102	34*	102*	1.8*	84*	3.0	1.0	1.0	2.5	2.0	15.4	2.77
438.103	36	106	2.0*	101*	3.5	1.0	1.0	3.3*	1.0	16.6	3.44
438.104	32	104*	2.1*	86*	3.0	1.0	1.0	3.0	2.5	16.8	2.84
438.105B	35*	103*	2.3*	90*	3.0	1.0	1.0	2.8	2.0	15.5	2.82

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437,926	II	14.9	45.6	12.4	3.5	26.9	51.4	5.8	0.0
437,931	II	15.5	47.8	12.0	2.9	19.8	57.2	8.2	0.0
437,932	II	19.7	45.3	11.6	3.0	22.9	55.7	6.8	0.0
437,935	II	12.6	45.1	13.3	3.3	15.0	57.2	11.2	0.0
437,940	II	17.4	43.9	12.3	3.1	22.3	55.1	7.2	0.0
437,943	II	17.5	45.6	12.1	3.1	20.7	56.3	7.9	0.0
437,944	II	Tested in and reported with the groups III and IV evaluation.							
437,946A	II	19.0	43.5	11.5	3.5	26.7	52.2	6.0	0.0
437,946B	II	18.4	46.0	11.8	2.8	20.4	57.1	7.9	0.0
437,950	II	Tested in and reported with the groups III and IV evaluation.							
437,954	II	20.7	43.0	11.0	2.8	21.6	57.2	7.3	0.0
437,956B	II	19.4	46.1	11.0	3.0	25.0	54.5	6.4	0.1
437,957B	II	18.5	46.3	11.9	3.3	24.7	54.1	6.0	0.0
437,961	II	19.4	45.4	12.0	3.1	21.6	55.5	7.7	0.0
437,964A	II	18.8	44.5	13.2	2.9	24.0	53.3	6.6	0.0
437,964B	II	18.8	44.6	10.7	3.0	23.9	55.7	6.6	0.0
437,970	II	18.9	45.4	12.7	3.1	24.2	52.4	7.5	0.1
437,973	II	20.2	42.5	11.9	3.2	19.6	57.7	7.6	0.0
437,974B	II	19.7	44.2	11.9	2.8	23.0	54.7	7.5	0.1
437,985A	II	19.2	44.5	12.7	2.9	27.0	50.6	6.8	0.1
437,985B	II	19.3	44.1	13.1	2.9	23.7	53.5	6.8	0.0
438,001	II	17.9	45.3	11.5	3.0	18.6	59.5	7.3	0.1
438,003	II	20.5	43.5	11.0	3.4	22.9	55.0	7.6	0.0
438,011	II	19.7	42.1	10.4	3.1	23.6	55.9	7.0	0.1
438,019B	II	18.5	45.7	13.2	3.2	21.6	54.1	7.9	0.1
438,046	II	19.1	43.6	12.2	2.3	20.4	57.9	7.2	0.0
438,051B	II	18.7	46.1	11.7	3.1	20.1	57.9	7.2	0.0
438,057	II	19.2	46.6	10.5	3.0	25.5	54.5	6.5	0.1
438,061	II	20.3	43.7	12.1	3.2	23.7	54.5	6.5	0.0
438,066	II	17.8	44.8	11.8	2.6	17.9	58.6	9.1	0.0
438,069A	II	17.2	45.7	13.2	3.1	19.8	55.5	8.3	0.1
438,069B	II	17.6	46.0	12.1	3.0	18.9	57.5	8.5	0.0
438,069C	III	18.7	43.4	12.2	3.0	18.9	57.1	8.6	0.3
438,070	II	19.2	46.1	10.9	2.7	29.3	51.0	6.1	0.0
438,076	II	19.7	44.3	11.8	2.8	25.5	53.2	6.6	0.0
438,080	II	19.5	44.1	11.2	3.0	21.4	56.6	7.8	0.0
438,083	II	18.8	44.0	12.2	2.8	21.2	56.4	7.4	0.0
438,084	II	21.1	41.4	11.7	3.0	24.3	54.0	7.0	0.1
438,085	II	20.3	41.8	11.9	3.2	25.9	52.4	6.6	0.1
438,086	II	18.3	44.3	11.9	2.9	20.8	56.4	8.0	0.0
438,096	II	20.0	42.9	11.8	2.8	18.5	58.9	7.8	0.1
438,098	II	20.2	42.6	11.2	2.7	20.5	58.0	7.6	0.0
438,102	II	20.1	44.0	11.6	2.8	22.3	56.2	6.9	0.1
438,103	II	20.4	43.1	11.0	3.2	21.5	57.0	7.2	0.0
438,104	II	19.5	44.4	12.1	2.8	21.6	56.5	7.0	0.0
438,105B	II	19.9	43.0	12.1	2.8	19.9	57.7	7.4	0.1

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.109C		(VIR 2608)	USSR	China	1980	II
438.114		VIR 2628	USSR	China	1980	II
438.129		VIR 2814	USSR	China	1980	II
438.130		VIR 2822	USSR	China	1980	II
438.131		VIR 2826	USSR	China	1980	II
438.132		VIR 2848	USSR	China	1980	II
438.133A		VIR 2868	USSR	China	1980	II
438.133B		(VIR 2868)	USSR	China	1980	II
438.139		VIR 2875	USSR	China	1980	II
438.144		VIR 2880	USSR	China	1980	II
438.152		VIR 3759	USSR	China	1980	II
438.153		VIR 3767	USSR	China	1980	II
438.164B		(VIR 4111)	USSR	China	1980	II
438.167		VIR 4418	USSR	China	1980	II
438.168		VIR 4420	USSR	China	1980	II
438.173		VIR 4429	USSR	China	1980	II
438.175		VIR 4432	USSR	China	1980	II
438.176		VIR 4433	USSR	China	1980	II
438.177		VIR 4435	USSR	China	1980	II
438.178		VIR 4436	USSR	China	1980	II
438.183		VIR 4447	USSR	China	1980	II
438.185		VIR 4450	USSR	China	1980	II
438.186		VIR 4452	USSR	China	1980	II
438.192		VIR 4460	USSR	China	1980	II
438.194		VIR 4473	USSR	China	1980	II
438.197		VIR 4478	USSR	China	1980	II
438.198		VIR 4479	USSR	China	1980	II
438.199		VIR 4481	USSR	China	1980	II
438.212C		(VIR 4503)	USSR	China	1980	II
438.214		VIR 4505	USSR	China	1980	II
438.216		VIR 4507	USSR	China	1980	II
438.219		VIR 4510	USSR	China	1980	II
438.222		VIR 4513	USSR	China	1980	II
438.223		VIR 4514	USSR	China	1980	II
438.226		VIR 4517	USSR	China	1980	II
438.227		VIR 4518	USSR	China	1980	II
438.228		VIR 4519	USSR	China	1980	II
438.229		VIR 4520	USSR	China	1980	II
438.234B		(VIR 4525)	USSR	China	1980	II
438.235		VIR 4528	USSR	China	1980	II
438.236		VIR 4529	USSR	China	1980	II
438.237		VIR 4531	USSR	China	1980	II
438.242		VIR 4583	USSR	China	1980	II
438.244		VIR 4586	USSR	China	1980	II
438.249A		VIR 4704	USSR	China	1980	II
438.249B		(VIR 4704)	USSR	China	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.109C	II	P	G	E	N	Br	I	Y	Lg			
438.114	II	P	T	E	N	Br	I	Y	Bl			
438.129	II	P	G	E	N	Br	I	Y	Bf			
438.130	II	P	G	E	N	Br	I	Y	Bf			
438.131	II	P	T	E	Ssp	Br	S	Y	Bl			
438.132	II	W	G	E	N	Bl	I	Y	Bf			
438.133A	II	W	G	E	N	Tn	I	Y	Y			
438.133B	II	W	G	E	N	Bl	I	Y	Y			
438.139	II	W	G	E	N	Dbr	S	Y	Lbf			
438.144	II	P	G	E	N	Br	D	Y	Y			
438.152	II	P	T	A	Sp	Bl	S	Bl	Bl	Fleck		Sw
438.153	II	Lp	Lt	E	N	Br	I	Y	Br			
438.164B	II	P	G	E	N	Br	S	Y	lb			
438.167	II	W	G	E	N	Br	I	Y	Y			
438.168	II	W	G	E	N	Br	I	Y	Y			
438.173	II	P	G	Sa	Ssp	Dbr	I	Y	lb			
438.175	II	P	G	Sa	N	Br	D	Y	Bf			
438.176	II	W	G	E	N	Dbr	I	Y	Bf			
438.177	II	W	G	E	N	Br	I	Y	Lbf			
438.178	II	P	G	E	N	Br	S	Y	Bf			
438.183	II	P	T	E	N	Br	I	Br	Br			
438.185	II	P	G	E	N	Dbr	S	Y	lb			
438.186	II	P	G	E	N	Dbr	I	Y	Bf			
438.192	II	W	G	E	N	Bl	I	Y	Y			
438.194	II	W	G	E	N	Br	I	Y	Y			
438.197	II	P	G	E	N	Br	S	Y	Y			
438.198	II	P	G	E	N	Br	I	Y	Y			
438.199	II	W	G	E	Ssp	Br	D	Y	Bf			
438.212C	II	P	G	E	N	Lbr	D	Y	Bf			
438.214	II	P	G	E	N	Br	I	Y	Bf			
438.216	II	P	G	E	N	Br	I	Y	Bf			
438.219	II	W	G	E	N	Br	I	Y	Y			
438.222	II	P	T	E	Ssp	Br	D	Y	Br			
438.223	II	P	T	E	N	Br	I	Y	Br			
438.226	II	P	T	E	N	Br	I	Y	Br			
438.227	II	P	T	E	Ssp	Br	S	Y	Bl			
438.228	II	P	T	E	N	Dbr	S	Y	Bl			
438.229	II	P	T	E	N	Br	I	Y	Y			
438.234B	II	Dp	T	E	N	Br	I	Y	Y			
438.235	II	P	T	E	Ssp	Br	I	Y	Y			
438.236	II	P	T	E	N	Br	I	Y	Br			
438.237	II	W	G	E	N	Br	I	Y	Bf			
438.242	II	W	G	E	N	Br	I	Y	Y			
438.244	II	W	G	E	N	Br	I	Y	Y			
438.249A	II	P	T	E	Ssp	Dbr	D	Br	Br			
438.249B	II	P	T	E	Ssp	Tn	I	Gnbr	Br		Dab	

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.109C	29*	107*	1.8	88*	3.0	1.0	1.0	2.8*	1.5	16.0	3.15
438.114	34*	101*	2.8	100	3.5	1.0	1.0	2.0	2.5	14.5	2.83
438.129	32	103	2.6*	82	3.0	1.0	1.0	2.8	1.0	15.7	3.17
438.130	29*	101*	2.3*	72*	2.0	1.0	1.0	2.8	1.0	14.0	3.31
438.131	35*	101*	2.0	93*	3.0	1.0	1.0	2.5	2.0	14.6	2.63
438.132	36*	97*	2.3*	84*	3.0	1.0	1.0	3.0	1.5	15.6	2.57
438.133A	32*	106	1.8*	86*	3.0	1.0	1.0	3.8	2.5	22.6	2.85
438.133B	33*	107	1.5	85	3.0	1.0	1.0	4.5	2.0	21.9	2.94
438.139	42*	113*	2.5	119	4.0	1.0	1.5	2.3	1.5	19.7	2.91
438.144	33*	100*	2.5	90*	3.0	1.0	1.0	2.5	2.0	19.9	3.06
438.152	43*	97*	4.5	58	5.0	1.5	2.0*	2.0	-	5.1	2.01
438.153	43*	109*	3.3	108	4.0	1.5	2.5	1.8	2.0	9.4	2.29*
438.164B	38*	104	1.8	93	2.5	1.0	1.0	2.3	1.0	14.2	3.29
438.167	26*	104	1.8*	70*	2.5	1.0	1.0	2.8	1.0	17.9	3.40
438.168	26*	102*	1.6*	74*	2.5	1.0	1.0	2.8	1.0	18.0	3.41
438.173	33	106	2.5	97*	3.0	1.0	1.0	3.3	1.0	20.0	3.42*
438.175	41*	109	4.0	99	3.0	1.0	1.5	2.8	2.0	15.1	3.04*
438.176	33	102*	2.8	109*	3.5	1.0	1.0	2.8	1.5	16.4	2.98
438.177	40*	108*	3.6	115*	4.0	1.0	1.5	3.0	1.0	15.9	3.21
438.178	34	95*	2.5	99	3.0	1.0	1.0	2.8	1.0	16.1	3.12
438.183	29	100*	3.5	100	4.0	1.0	1.0	2.3	-	12.3	2.71*
438.185	43*	105*	3.8	84	2.5	1.0	1.0	2.5	1.5	14.6	2.82
438.186	28*	102*	2.0*	73*	2.0	1.0	1.0	2.5	1.0	15.9	3.19
438.192	29	104	1.6*	90*	3.0	1.0	1.0	3.0	2.0	18.2	3.22
438.194	27*	104	2.0*	72*	3.0	1.0	1.0	3.5	1.0	17.3	3.08
438.197	40*	97*	2.0	81*	3.0	1.0	1.0	2.5	1.5	13.9	2.64
438.198	30*	102*	1.8	92*	3.0	1.0	1.0	2.5	1.0	19.4	3.27
438.199	31*	100*	1.8*	75	3.0	1.0	1.0	2.3	2.0	13.0	3.11*
438.212C	32*	102*	2.0	96*	3.5	1.0	1.0	2.3	1.0	12.9	2.74*
438.214	29*	101	3.0*	69	2.0	1.0	1.0	2.5	1.0	14.5	3.38
438.216	29*	106	1.8	97*	3.0	1.0	1.0	2.8	1.5	17.1	3.15
438.219	32*	107*	2.6	108*	4.0	1.0	1.0	3.0	2.0*	20.4*	3.59
438.222	40*	110*	2.4	114	4.0	1.0	1.0	2.0	3.0*	13.7	3.23
438.223	38*	108*	3.0	105	4.0	1.0	1.0	2.3	1.0	16.9	3.15*
438.226	39*	105	2.8	97*	3.0	1.0	1.0	2.8	2.0	17.6	3.23
438.227	33*	106*	2.5	99*	3.5	1.0	1.5	2.5	1.5	12.8	3.01
438.228	28*	103*	2.5	101	3.0	1.0	1.0	2.8	2.0	13.2	3.20
438.229	39*	112	3.2	118*	4.0	1.0	1.0	2.8	2.5	15.6	2.71
438.234B	43*	110*	3.3	111	3.0	1.5	2.0	2.8	4.0*	15.5	2.46
438.235	31*	99*	1.7	83	3.0	1.0	1.0	2.3	2.5	16.2	2.92
438.236	34*	100*	2.5*	95*	3.5	1.0	1.0	2.3	1.5	12.1	2.47
438.237	40*	107*	2.3*	89*	3.0	1.0	1.0	2.5	1.0	16.0	2.82*
438.242	31*	111	3.5	101*	3.0	1.0	1.0	2.8	1.5	17.6*	3.21
438.244	28*	103*	1.8*	93*	3.0	1.0	1.0	2.5	1.5	20.2*	2.89*
438.249A	39*	109*	3.0	112*	4.0	1.0	1.0	2.5	-	14.7	2.93
438.249B	39*	107*	2.8*	105*	3.5	1.0	1.0	2.5	-	13.9	2.78

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.109C	II	20.5	43.1	10.9	3.0	21.3	56.9	7.9	0.0
438.114	II	18.7	45.1	12.4	2.7	20.4	57.2	7.2	0.0
438.129	II	20.6	42.2	10.9	3.2	23.4	55.6	6.8	0.1
438.130	II	21.3	42.6	11.3	3.1	22.5	56.3	6.7	0.1
438.131	II	18.7	45.1	12.0	3.1	22.3	55.0	7.6	0.0
438.132	II	20.6	42.5	11.8	2.9	24.2	53.6	7.5	0.1
438.133A	II	20.1	44.6	12.3	3.3	22.5	54.9	6.9	0.1
438.133B	II	18.8	44.7	12.0	3.1	22.2	55.6	7.1	0.1
438.139	II	21.6	42.1	10.8	3.4	27.7	52.4	5.7	0.0
438.144	II	17.5	47.4	11.0	3.0	21.8	57.2	7.0	0.0
438.152	II	13.8	45.5	14.4	2.8	15.1	57.0	10.8	0.0
438.153	II	16.7	45.2	14.0	3.0	18.3	56.6	8.1	0.0
438.164B	II	21.2	40.8	11.8	3.1	21.4	56.7	7.0	0.0
438.167	II	21.5	42.9	11.2	3.1	28.2	51.7	5.8	0.0
438.168	II	20.4	43.5	11.1	3.0	29.7	50.5	5.6	0.0
438.173	II	19.6	45.3	10.4	2.6	31.6	50.5	4.8	0.0
438.175	II	19.6	41.9	11.0	2.7	25.3	54.0	7.0	0.0
438.176	II	20.8	41.4	12.0	3.5	26.2	52.2	6.1	0.0
438.177	II	20.9	43.0	11.3	3.4	22.5	55.8	6.9	0.0
438.178	II	20.1	44.3	11.5	3.3	21.3	57.0	6.8	0.0
438.183	II	17.3	44.3	11.2	2.9	22.1	57.1	6.7	0.0
438.185	II	20.7	43.6	10.7	2.8	26.1	54.7	5.7	0.0
438.186	II	20.6	41.9	11.3	3.2	22.9	55.8	6.7	0.0
438.192	II	19.6	43.9	12.8	3.2	23.4	53.5	7.2	0.0
438.194	II	21.6	42.1	11.3	3.4	27.9	51.6	5.8	0.0
438.197	II	20.8	42.5	11.9	2.5	25.7	52.6	7.3	0.0
438.198	II	19.4	42.8	11.6	3.3	18.8	57.8	8.5	0.0
438.199	II	17.7	43.4	11.6	3.2	19.1	57.7	8.5	0.0
438.212C	II	19.4	41.2	11.6	3.2	19.3	57.5	8.4	0.0
438.214	II	19.6	44.5	11.7	3.4	20.9	56.6	7.5	0.0
438.216	II	19.2	45.1	11.6	2.9	29.9	49.4	6.2	0.0
438.219	II	21.3	42.7	12.0	3.1	28.7	50.4	5.8	0.0
438.222	II	20.5	42.5	12.2	2.9	20.0	57.8	7.1	0.0
438.223	II	19.7	44.5	11.5	3.2	22.3	56.3	6.7	0.1
438.226	II	17.5	47.1	11.4	3.1	22.1	56.7	6.7	0.0
438.227	II	19.9	40.8	12.1	2.9	18.6	58.9	7.6	0.0
438.228	II	19.6	41.5	11.3	3.1	21.9	56.5	7.2	0.0
438.229	II	19.5	41.9	11.7	3.1	23.3	54.8	7.1	0.0
438.234B	II	17.4	46.0	11.3	2.9	23.5	54.4	7.9	0.0
438.235	II	19.3	44.0	11.3	3.0	21.8	55.8	8.1	0.0
438.236	II	19.2	41.9	11.4	3.1	20.7	57.4	7.4	0.0
438.237	II	20.0	42.4	12.1	3.3	23.6	53.8	7.3	0.0
438.242	II	20.8	43.1	11.0	3.2	27.9	52.0	5.9	0.0
438.244	II	20.0	42.7	12.4	2.6	24.2	54.3	6.5	0.0
438.249A	II	19.0	43.4	11.6	3.2	22.9	56.2	6.2	0.0
438.249B	II	18.0	46.4	12.2	2.9	20.7	57.3	6.9	0.0

Table 1.3

Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.250B		(VIR 4705)	USSR	China	1980	II
438.251		VIR 4706	USSR	China	1980	II
438.252B		(VIR 4707)	USSR	China	1980	II
438.252C		(VIR 4707)	USSR	China	1980	III
438.254D		(VIR 4709)	USSR	China	1980	II
438.256B		(VIR 4711)	USSR	China	1980	II
438.257A		VIR 4713	USSR	China	1980	II
438.257B		(VIR 4713)	USSR	China	1980	II
438.258		VIR 4714	USSR	China	1980	II
438.259B		(VIR 4715)	USSR	China	1980	III
438.261		VIR 4863	USSR	China	1980	II
438.262		VIR 5016	USSR	China	1980	II
438.263		VIR 5025	USSR	China	1980	II
438.266A		VIR 5039	USSR	China	1980	II
438.266B		(VIR 5039)	USSR	China	1980	II
438.270		VIR 5053	USSR	China	1980	II
438.271B		(VIR 5055)	USSR	China	1980	II
438.290		VIR 1310	USSR	Japan	1980	II
438.298	Chu zen N1	VIR 5311	USSR	Korea	1980	II
438.301	Pinazacon	VIR 2966	USSR	Korea	1980	II
438.308A		VIR 2987	USSR	Korea	1980	II
438.314	CNS 80A	VIR 5924	USSR	Algeria	1980	II
438.325	Noir de Baumann	VIR 5920	USSR	Algeria	1980	II
438.329	Reaz 20/46-230	VIR 5939	USSR	Algeria	1980	II
438.332	Ronest 71	VIR 5895	USSR	Algeria	1980	II
438.333	Ronest 117	VIR 5940	USSR	Algeria	1980	III
438.334B	(Ronest 250-207C)	(VIR 5913)	USSR	Algeria	1980	II
438.335	SAO 196-C	VIR 5938	USSR	Algeria	1980	III
438.338	Serda 213A	VIR 5935	USSR	Algeria	1980	II
438.357A	VU-5819	VIR 5095	USSR	Bulgaria	1980	II
438.383	Stamm Dornburger	VIR 4396	USSR	Germany	1980	II
438.391	Heimkraft II	VIR 5731	USSR	W. Germany	1980	II
438.414	Riede 525	VIR 5747	USSR	Hungary	1980	II
438.434	Brun	VIR 5860	USSR	Morocco	1980	II
438.435A	CNS 657	VIR 5861	USSR	Morocco	1980	III
438.437		VIR 5318	USSR	Morocco	1980	II
438.442A	Desma	VIR 5086	USSR	Netherlands	1980	II
438.442B	(Desma)	(VIR 5086)	USSR	Netherlands	1980	II
438.450	K.P. 3025	VIR 5736	USSR	Poland	1980	II
438.485	Baird	VIR 55	USSR	USA	1980	II
438.490A	Ebony	VIR 208	USSR	USA	1980	III
438.496A	Peking	VIR 195	USSR	USA	1980	II
438.501	Wilson	VIR 199	USSR	USA	1980	III
438.503A	Wu Dow	VIR 60	USSR	USA	1980	II
438.503B	(Wu Dow)	(VIR 60)	USSR	USA	1980	III
438.503C	(Wu Dow)	(VIR 60)	USSR	USA	1980	III

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.250B	II	P	T	Sa	N	Br	D	Bl	Bl	Fleck	Dab	
438.251	II	W	G	E	N	Dbr	I	Y	Bf			
438.252B	II	P	T	E	Ssp	Br	I	Br	Br			
438.252C	III	W	T	E	Ssp	Br	I	Br	Br			
438.254D	II	W	L†	E	N	Br	I	Y	Bl			
438.256B	II	P	G	E	N	Br	S	Y	Ib			
438.257A	II	P	Ng	E	N	Br	S	Y	Bl			
438.257B	II	P	Ng	E	N	Br	S	Y	Bl			
438.258	II	P	T	E	N	Br	D	Y	Br			
438.259B	III	P	G	E	N	Br	D	Y	Y			
438.261	II	W	G	E	N	Tn	I	Y	Bf			
438.262	II	W	G	E	N	Bl	I	Y	Bf			
438.263	II	P	G	E	N	Br	S	Y	Ib			
438.266A	II	W	G	E	N	Br	I	Y	Bf	SAbh		
438.266B	II	P	G	E	N	Tn	D	Y	Bf			
438.270	II	W	G	E	N	Br	S	Y	Y			
438.271B	II	P	G	E	N	Tn	I	Y	Bf			
438.290	II	P	T	Sa	N	Br	I	Y	Br			
438.298	II	P	T	E	Ssp	Br	I	Y	Y			
438.301	II	P	T	Sa	N	Br	I	Y	Br			
438.308A	II	P	G	Sa	Ssp	Br	D	Y	Bf			
438.314	II	P	T	E	N	Br	S	Y	Br			
438.325	II	W	T	E	Ssp	Br	D	Bl	Bl			
438.329	II	W	G	E	N	Br	S	Y	Bf			
438.332	II	P	T	E	N	Tn	I	Y	Br			
438.333	III	W	T	E	Ssp	Br	D	Bl	Bl			
438.334B	II	P	G	E	N	Br	I	Y	Ib			
438.335	III	P	T	E	N	Tn	I	G	Bl			
438.338	II	P	G	E	N	Br	D	Y	Ib	Abh		
438.357A	II	W	G	E	N	Bl	D	Y	Bf			
438.383	II	W	T	E	N	Bl	S	Y	Bl			
438.391	II	W	T	E	N	Br	S	Y	Bl			
438.414	II	W	L†	E	N	Bl	I	Y	Bl			
438.434	II	W	T	E	Ssp	Dbr	I	Br	Br			
438.435A	III	W	Ng	E	N	Br	D	Y	G			
438.437	II	W	T	E	Ssp	Br	I	Br	Br			
438.442A	II	W	G	E	N	Tn	I	Y	Y			
438.442B	II	W	G	E	N	Br	I	Y	Bf			
438.450	II	P	T	E	N	Tn	I	Br	Br			
438.485	II	P	L†	E	N	Bl	I	Rbr	Rbr			
438.490A	III	P	Ng	E	N	Bl	I	Bl	Bl			
438.496A	II	P	T	E	N	Lbr	S	Bl	Bl			
438.501	III	P	Ng	E	N	Br	S	Bl	Bl			
438.503A	II	W	Ng	E	N	Tn	D	Bl	Bl			
438.503B	III	W	Ng	E	N	Bl	D	Bl	Bl			
438.503C	III	P	Ng	E	N	Bl	I	Bl	Bl			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower-	Matur-	Lodging	Height	Stem term- ina- tion	Shattering		Seed quality	Mottling	Seed weight	Seed yield
	(days after May 31)	ity				Early	Late				
			(score)	(cm)	(score)	(score)	(score)	(score)	(score)	(cg/seed)	(Mg/ha)
438.250B	30	106*	3.4	98	3.0	1.0	1.0	2.3	-	12.5	2.82
438.251	31*	105	2.3*	81*	2.5	1.0	1.0	2.8	1.0	15.0	3.36
438.252B	34*	102*	2.3*	87*	3.0	1.0	1.0	2.5	-	16.3	2.77
438.252C	37*	115*	3.5	82*	2.0	1.0	1.5	2.8	-	16.0*	2.20*
438.254D	33	104	1.8*	79*	3.0	1.0	1.0	2.3	2.5	18.8	3.35
438.256B	35	105	2.4	87*	2.5	1.0	1.0	2.3	1.0	14.9	3.34
438.257A	37*	101*	2.3	94*	3.0	1.0	1.0	2.8	2.5	17.3*	3.00*
438.257B	39*	106*	2.5	99*	3.0	1.0	1.0	2.8	2.5	14.3	3.07*
438.258	33	111	2.0	92*	3.0	1.0	1.0	2.3	2.5	14.4	2.78*
438.259B	37	115*	3.3*	96*	3.0	1.0	1.0	3.3	2.5	20.7	3.18
438.261	34	101	2.0	99	3.0	1.0	1.0	2.3	1.0	15.1	3.49
438.262	32*	106	2.3	115*	3.5	1.0	1.0	2.5	1.0	14.6	3.23
438.263	32	103	2.0	72*	2.5	1.0	1.0	2.8	1.0	14.1	3.23
438.266A	30*	103	2.0	87	3.0	1.0	1.0	2.8	1.0	15.8	3.05
438.266B	32*	106	2.5	87*	3.0	1.0	1.0	2.5	1.5	16.7	3.17
438.270	36*	112	3.0	104*	3.5	1.0	1.0	2.5	1.0	13.9	3.18*
438.271B	35*	103*	2.5*	72*	2.0	1.0	1.0	2.5	1.0	12.1	3.06*
438.290	32	100*	2.0*	77*	3.0	1.0	1.0	2.8	2.0	14.1	2.28
438.298	34*	102*	1.8*	91*	3.0	1.0	1.0	2.8	2.5	13.9	2.94*
438.301	32	103	1.6*	83*	3.0	1.0	1.0	2.0	2.5	13.2	2.85
438.308A	45*	107	2.1*	60*	1.0	1.0	1.0	2.0	1.5	13.5	2.54
438.314	30*	102	2.0	106	4.0	1.0	1.0	2.0	1.0	14.1	2.81
438.325	32	99	1.0	52*	1.5	2.0	2.0*	2.5	-	21.3	2.62*
438.329	43*	107	2.8*	76	2.0	1.0	1.0	1.8	1.0	8.8	2.48*
438.332	34	107	3.0	78*	2.0	1.0	1.0	2.3	1.0	13.8	3.25*
438.333	48*	114*	2.3*	76*	1.0	1.0	1.5	2.3	-	17.8	2.61*
438.334B	32*	100*	1.5	94*	3.5	1.0	1.0	2.3	1.0	14.6	3.45
438.335	44*	114	4.4	89	3.0	1.0	1.0	2.5	1.5	12.9	3.37
438.338	42*	113	3.3	128	4.0	1.0	1.0	2.5	1.0	18.3	3.19*
438.357A	43*	108	3.3	116	3.5	1.0	1.0	3.0	1.5	16.2	3.08
438.383	25*	105*	2.3*	100*	4.0	1.0	1.0	2.5	1.5	13.6	3.00*
438.391	33	105	3.0	123*	4.0	1.0	1.0	2.5	1.5	14.6	3.01
438.414	33*	103	2.1*	113	3.5	1.0	1.0	2.5	1.0	15.7	3.48
438.434	38*	109*	2.3*	119*	4.0	1.0	1.0	2.3	-	12.5	2.69*
438.435A	48*	117	3.8	128	4.0	1.0	1.0	2.3	1.0	13.4	3.16
438.437	37*	105*	2.0	118*	4.0	1.0	1.0	2.0	-	13.9	3.16*
438.442A	30*	102*	1.8*	85*	3.0	1.0	1.0	2.3	1.5	18.1	3.38
438.442B	28*	103	2.5	91	3.0	1.0	1.0	2.8	1.0	15.9	2.89
438.450	25*	99*	2.0*	92*	3.0	1.0	1.0	2.5	-	14.2	3.08*
438.485	32	100*	1.0	36	1.0	1.0	1.0	2.5	-	11.6	2.14
438.490A	55*	114	3.8	119	3.0	1.0	1.0	2.0	-	8.7	2.74*
438.496A	43*	110*	2.3	88*	3.0	1.0	1.5	1.8	-	9.5	2.65
438.501	60*	119*	3.3	139	4.0	1.0	1.5	2.3	-	8.6	2.14
438.503A	53*	113*	3.0	133	4.0	1.0	1.0	2.3	-	10.9	2.16*
438.503B	54*	115	3.8	125	4.0	1.0	1.0	2.0	-	9.9	2.46*
438.503C	52*	116	3.6	128	4.0	1.0	2.0	1.8	-	9.7*	2.63*

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.250B	II	16.9	46.6	12.0	3.1	22.2	55.6	7.1	0.0
438.251	II	21.0	42.3	11.0	3.5	24.0	55.2	6.2	0.0
438.252B	II	19.9	43.7	11.3	3.1	21.6	56.0	8.0	0.0
438.252C	III	18.8	42.7	11.5	3.8	22.9	53.8	8.0	0.0
438.254D	II	20.5	42.9	10.6	3.1	24.9	55.1	6.3	0.0
438.256B	II	21.1	40.5	10.8	3.4	23.4	55.5	6.8	0.0
438.257A	II	20.0	43.4	12.1	3.5	23.3	54.0	7.2	0.0
438.257B	II	19.8	43.8	11.9	3.1	20.4	55.8	8.7	0.1
438.258	II	20.3	41.7	11.7	2.9	21.0	56.8	7.6	0.0
438.259B	III	21.5	41.4	11.2	2.8	21.4	57.5	7.2	0.0
438.261	II	21.5	40.5	11.5	3.7	25.3	53.6	5.9	0.0
438.262	II	20.3	41.1	11.9	3.7	23.7	53.4	7.2	0.0
438.263	II	21.3	41.2	11.7	3.6	23.7	54.0	7.0	0.0
438.266A	II	21.4	41.7	11.1	3.2	22.4	55.3	7.9	0.0
438.266B	II	22.6	41.5	10.7	3.0	25.1	53.6	7.6	0.0
438.270	II	20.4	40.2	12.0	4.1	22.8	52.6	8.5	0.0
438.271B	II	21.3	39.2	12.1	3.3	19.3	57.1	8.2	0.0
438.290	II	19.4	43.5	11.7	3.5	23.3	54.8	6.7	0.0
438.298	II	20.1	41.9	12.6	3.4	22.8	54.8	6.4	0.0
438.301	II	19.0	45.1	11.3	3.1	19.4	58.9	7.3	0.0
438.308A	II	19.0	43.6	12.4	3.0	21.8	54.7	8.1	0.0
438.314	II	17.1	46.9	13.1	2.9	22.0	53.1	8.7	0.2
438.325	II	20.3	42.4	12.2	3.1	24.8	52.5	7.4	0.0
438.329	II	17.8	45.9	12.3	3.8	15.0	58.2	10.5	0.2
438.332	II	18.0	43.8	13.4	2.8	26.4	49.6	7.9	0.0
438.333	III	18.8	44.9	11.5	3.3	26.9	50.1	8.2	0.0
438.334B	II	21.0	40.2	12.0	2.9	25.4	53.1	6.6	0.0
438.335	III	18.1	43.0	10.7	3.1	28.0	51.1	7.0	0.1
438.338	II	19.1	44.4	10.9	3.8	29.6	49.9	5.8	0.0
438.357A	II	19.3	44.5	11.2	3.4	27.2	51.1	7.1	0.0
438.383	II	19.1	42.5	12.6	3.3	20.5	54.4	9.2	0.0
438.391	II	20.5	42.6	11.9	2.9	20.1	57.5	7.4	0.2
438.414	II	21.4	41.0	11.4	3.5	23.2	54.8	6.9	0.2
438.434	II	18.4	42.9	14.1	3.2	18.1	55.5	9.1	0.0
438.435A	III	18.9	41.7	11.9	3.9	22.2	53.8	8.3	0.0
438.437	II	19.5	43.0	13.9	3.2	20.2	54.2	8.5	0.0
438.442A	II	22.3	39.7	11.7	3.0	23.3	55.0	7.0	0.0
438.442B	II	21.9	41.8	11.7	3.2	26.1	52.4	6.5	0.1
438.450	II	20.3	43.6	13.1	3.2	21.5	55.5	6.7	0.0
438.485	II	18.9	43.5	11.0	3.1	26.3	52.8	6.8	0.0
438.490A	III	16.2	44.5	12.5	3.2	20.9	54.3	9.1	0.0
438.496A	II	16.2	47.5	12.2	3.2	18.4	56.8	9.2	0.2
438.501	III	15.6	43.3	12.3	2.8	18.5	56.3	10.1	0.0
438.503A	II	15.5	46.0	12.0	3.1	23.5	52.8	8.6	0.0
438.503B	III	16.8	44.1	12.1	2.8	22.0	54.3	8.8	0.0
438.503C	III	17.2	43.4	11.5	3.2	20.0	56.7	8.6	0.0

Table 1.3
Identification and origin information for USDA soybean germplasm
in maturity group II, PI 427.136 to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.504B		(VIR 24a)	USSR	USA	1980	II
438.505		VIR 24b	USSR	USA	1980	II
438.506		VIR 54	USSR	USA	1980	II
438.507A		VIR 92	USSR	USA	1980	II
438.507B		(VIR 92)	USSR	USA	1980	II
438.509B		(VIR 202)	USSR	USA	1980	II
445.796	Dornburger Weissbluhende	55/74	E. Germany	E. Germany	1980	II
445.814	Kirches Stamm 2026	132/74	E. Germany	E. Germany	1980	II

Table 2.3

Descriptive data for USDA soybean germplasm in maturity
group II, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438,504B	II	P	T	E	N	Lbr	D	Bl	Bl	Fleck		
438,505	II	P	Ng	E	Ssp	Br	I	Br	Br			
438,506	II	P	G	E	N	Br	I	Y	Y			
438,507A	II	P	Lt	E	N	Tn	S	Bl	Bl			
438,507B	II	P	T	E	N	Tn	S	Bl	Bl			
438,509B	II	W	T	E	Ssp	Br	I	Bl	Bl			
445,796	II	W	T	E	N	Bl	S	Y	Bl			
445,814	II	P	T	E	Ssp	Br	S	Y	Lbr			

Table 3.3

Agronomic data for USDA soybean germplasm in maturity group II,
PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower-	Matur-	Lodging	Height	Stem term- ina- tion	Shattering		Seed quality	Mottling	Seed weight	Seed yield
	ing	ity				Early	Late				
	(days after May 31)	(score)									
438.504B	36*	99*	2.5*	84*	3.0	1.0	1.0	2.3	-	9.1*	2.37
438.505	38*	102*	2.8*	90*	3.0	1.5	1.5	1.8	-	10.4	2.73*
438.506	33*	101*	2.8*	90*	3.0	2.0*	2.5*	3.3	2.0	14.9	2.39*
438.507A	45*	112	2.0*	73	2.0	1.5	2.5	2.0	-	9.7	2.66*
438.507B	45*	112*	1.9*	70*	2.0	2.0	3.5	2.0	-	9.5	2.49*
438.509B	46*	104*	3.8	130*	4.0	1.5	1.5	2.0	-	12.0	2.49*
445.796	23*	100*	1.8	96*	4.0	1.5	2.0*	2.5	1.5	13.6	2.84*
445.814	26*	102*	3.3	125*	4.0	1.0	1.0	2.3	1.0	15.1	3.22

Table 4.3

Seed composition data for USDA soybean germplasm in maturity group II, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.504B	II	19.1	39.4	14.6	3.2	18.3	53.9	10.1	0.0
438.505	II	18.0	44.0	13.1	3.0	20.0	55.0	8.8	0.1
438.506	II	18.6	41.8	11.7	3.0	18.6	57.5	9.1	0.1
438.507A	II	18.5	42.2	11.1	3.5	24.6	52.5	8.3	0.0
438.507B	II	18.3	41.8	11.3	3.5	23.6	53.2	8.3	0.1
438.509B	II	17.7	42.0	12.4	3.8	22.6	53.2	8.0	0.0
445.796	II	18.6	44.4	12.4	3.2	19.6	54.8	10.0	0.0
445.814	II	19.8	41.5	11.4	3.8	26.4	52.1	6.3	0.0

Table 1.4

Identification and origin information for USDA soybean
germplasm in maturity groups III and IV, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
	BSR 302		USA	USA	1980	III
	Crawford		USA	USA	1977	IV
	Cumberland		USA	USA	1978	III
	DeSoto		USA	USA	1979	IV
	Douglas		USA	USA	1980	IV
	Fayette		USA	USA	1981	III
	Franklin		USA	USA	1977	IV
	Hobbit		USA	USA	1981	III
	Lawrence		USA	USA	1981	IV
	Pella		USA	USA	1979	III
	Pixie		USA	USA	1980	IV
	Sparks		USA	USA	1981	IV
	Union		USA	USA	1977	IV
	Ware		USA	USA	1978	IV
	Will		USA	USA	1979	III
	Williams 82		USA	USA	1981	III
427.136	Backchung No. 42		Canada	S. Korea	1978	III
427.142	Sipyuk No. 117		Canada	S. Korea	1978	III
430.595	58-161		China	China	1978	IV
430.598A	Shuang ching tou		China	China	1978	IV
430.598B	(Shuang ching tou)		China	China	1978	IV
430.599	Ta ching jen		China	China	1978	IV
430.619	Feng shou huang tou		China	China	1978	III
430.620	Hou tzu mao		China	China	1978	IV
430.622	Wen feng No. 5		China	China	1978	III
430.623	Wen feng No. 6		China	China	1978	III
430.624	Wen feng No. 7		China	China	1978	III
430.625	Yue chin No. 4		China	China	1978	IV
432.359	M 8413		Mexico	Mexico	1978	IV
436.684	Tie feng No. 8		China	China	1979	III
437.103	DV-0300	VIR 5007	USSR	USSR	1980	III
437.109C		(VIR 243)	USSR	USSR	1980	IV
437.110A		VIR 244	USSR	USSR	1980	III
437.110B		(VIR 244)	USSR	USSR	1980	IV
437.114		VIR 252	USSR	USSR	1980	IV
437.124	Gurijscaja	VIR 4885	USSR	USSR	1980	III
437.126A	Imeretinscaja	VIR 4884	USSR	USSR	1980	IV
437.127A	Imeretinscaja	VIR 5596	USSR	USSR	1980	IV
437.127B	(Imeretinscaja)	(VIR 5596)	USSR	USSR	1980	IV
437.129B		(VIR 555)	USSR	USSR	1980	III
437.317	Anucinscaja Mestnaja	VIR 4605	USSR	USSR	1980	III
437.321	Dunganscaja 462	VIR 4996	USSR	USSR	1980	III
437.322	Dunganscaja 471	VIR 4998	USSR	USSR	1980	III
437.323	Dunganscaja Zelena	VIR 4999	USSR	USSR	1980	III
437.338	DV-2602	VIR 4613	USSR	USSR	1980	III
437.357	Ussurijscaja 43	VIR 4219	USSR	USSR	1980	III

Table 2.4

Descriptive data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
BSR 302	III	P	T	E	N	Br	D	Y	Bl			
Crawford	IV	P	T	E	N	Br	S	Y	Bl			
Cumberland	III	P	G	E	N	Br	S	Y	lb			
DeSoto	IV	P	T	E	N	Br	D	Y	Bl			
Douglas	IV	W	T	E	N	Br	D	Y	Bl			
Fayette	III	W	T	E	N	Tn	S	Y	Bl			
Franklin	IV	P	G	E	N	Br	D	Y	lb			
Hobbit	III	W	T	E	N	Tn	S	Y	Bl			
Lawrence	IV	P	T	E	N	Tn	D	Y	Bl			
Pella	III	P	T	E	N	Tn	D	Y	Bl			
Pixie	IV	P	T	E	N	Tn	S	Y	Bl			
Sparks	IV	W	T	E	N	Tn	D	Y	Bl			
Union	IV	W	T	E	N	Tn	S	Y	Bl			
Ware	IV	P	G	E	Sdn	Tn	S	Y	Y			
Will	III	W	T	E	N	Tn	S	Y	Bl			
Williams 82	III	W	T	E	N	Tn	S	Y	Bl			
427.136	III	W	T	E	N	Br	D	Y	Bl			
427.142	III	P	G	E	Ssp	Br	D	Y	Y			
430.595	IV	P	G	A	Ssp	Tn	I	Y	Bf			
430.598A	IV	W	T	Sa	N	Br	S	Gn	Bl	Gncot		
430.598B	IV	P	T	E	N	Br	I	Gn	Bl	Gncot		
430.599	IV	W	T	E	N	Br	I	Bl	Bl	Gncot, Fleck		
430.619	III	W	T	E	N	Br	D	Y	Br			
430.620	IV	W	T	A	N	Br	I	Gn	Br			
430.622	III	W	G	A	N	Br	I	Y	Bf			
430.623	III	W	G	E	Ssp	Br	D	Y	Bf			
430.624	III	W	G	Sa	N	Br	S	Y	Bf			
430.625	IV	W	T	E	N	Br	D	Y	Br			
432.359	IV	P	T	E	N	Br	S	Y	Bl			
436.684	III	P	G	E	N	Dbr	S	Y	lb			
437.103	III	P	T	E	N	Br	S	Y	Bl			
437.109C	IV	P	Ng	E	N	Br	S	Br	Br			
437.110A	III	P	Ng	E	N	Br	S	Br	Br			
437.110B	IV	P	T	E	N	Br	S	Br	Br			
437.114	IV	W	T	E	N	Br	S	Gnbr	Br			
437.124	III	W	G	E	N	Br	I	Y	Y			
437.126A	IV	W	Ng	E	N	Br	S	Y	Bl			
437.127A	IV	W	Ng	E	N	Br	S	Y	Blbr			
437.127B	IV	W	Ng	E	N	Br	S	Y	Blbr			
437.129B	III	W	Lt	E	N	Dbr	I	Br	Br			
437.317	III	P	G	E	N	Br	D	Y	Y			
437.321	III	P	G	E	N	Br	D	Y	Bf			
437.322	III	P	G	E	N	Br	I	Y	Bf			
437.323	III	P	G	E	N	Br	D	Gn	Bf	Gncot		
437.338	III	P	G	E	N	Lbr	D	Y	Y			
437.357	III	P	T	E	N	Br	S	Y	Bl			

Table 3.4

Agronomic data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
BSR 302	44	118*	2.5	119	3.5	1.0	1.0	2.3	2.0*	17.2	3.59
Crawford	48	133*	2.3	135*	3.5	1.0	1.0	1.8	2.5	14.7	2.75
Cumberland	38	112*	1.9	104	3.0	1.0	1.0	2.3	1.5	18.6	3.96
DeSoto	45	125*	2.0	125*	3.0	1.0	1.0	1.8	2.5	15.7	3.45
Douglas	43	129*	2.0	112	3.0	1.0	1.0	2.5	1.5	17.3	3.61
Fayette	40	118*	1.5	120	3.5	1.0	1.0	2.0	1.5	16.0	3.62
Franklin	44	126	2.0	130*	3.5	1.0	1.0	1.8	1.5	13.7	2.50
Hobbit	40	117*	1.0	57	1.0	1.0	1.0	1.5	1.0	16.4	4.25
Lawrence	43	121*	1.3	117	3.5	1.0	1.0	2.5	2.0*	17.4	3.79
Pella	32	111*	1.5	108*	3.0	1.0	1.0	2.3	1.5	19.9	3.93
Pixie	43	123	1.0	68	1.0	1.0	1.0	1.5	1.5	16.5	4.05
Sparks	37	120	2.0	126*	3.5	1.0	1.0	2.5	2.5	16.5	3.87*
Union	42	121	1.8	126*	3.5	1.0	1.0	2.2	1.6	18.8	3.84*
Ware	55	132*	2.0	91	2.0	1.0	1.0	1.5	1.0	15.9*	2.88*
Will	40	113*	1.8	98*	2.0	1.0	1.0	2.0	1.5	16.8	3.62
Williams 82	41	118*	1.3	119*	3.5	1.0	1.0	2.3	1.5	17.9*	3.85*
427.136	41	114*	2.0	117*	3.0	1.0	1.0	2.3	2.0*	16.7	3.37
427.142	40	113	1.8*	66	1.0	2.0	4.5	2.8	1.5	27.6*	2.68
430.595	60*	137*	2.5	59*	1.0	1.5	.	2.5	1.0	19.2*	1.81*
430.598A	56	123	1.8	112*	3.5	1.0	1.5	2.5	3.5	16.7	2.20
430.598B	60	127*	2.8	114	3.0	1.5	1.5	2.0	3.5	13.4	1.60
430.599	61	127	3.3	134*	2.0	1.0	1.0	2.3	-	15.1*	2.03
430.619	49	120	2.8	112*	4.0	1.5	3.0*	1.8	1.0	16.5	3.01*
430.620	74	137*	3.0	107*	2.5	1.0	.	2.0	1.0	10.8*	1.60*
430.622	49	114*	2.8	109*	3.5	1.0	1.5	2.3	1.0	21.1	3.08
430.623	53	118*	3.3	123*	4.0	1.0	1.0	2.0	1.0	17.7	2.79
430.624	53	117*	2.3	112*	2.0	1.0	2.0	2.5	1.0	18.0	3.05
430.625	61	124	2.1	103	2.0	1.0	2.0*	1.5	1.0	12.3	2.49
432.359	46	124	1.8	122	3.5	1.0	1.0	2.0	2.0	16.7	3.34
436.684	49	117*	2.0	82	1.0	1.0	1.0	2.0	1.0	19.3	2.43*
437.103	40	110*	4.0	125	3.5	1.0	1.0	2.5	3.0*	11.3	2.42
437.109C	52*	122*	4.8	129*	4.0	2.0	2.5	2.8	-	8.1	2.15
437.110A	52*	121*	4.3	125*	4.0	1.5	2.5*	3.0	-	8.9	2.17
437.110B	58	126	3.5	133	4.0	1.0	1.5	2.3	-	10.3	1.71*
437.114	50*	128*	4.0	118*	2.5	1.0	1.0	2.3	-	14.2*	2.17*
437.124	38	112*	3.0	125*	4.0	1.0	1.0	3.3	1.5	18.6	3.15
437.126A	60	135*	2.3*	134*	4.0	1.0	.	2.8	2.0	16.9*	1.87*
437.127A	54	123*	3.3*	112*	4.0	1.0	1.5	2.0	2.5	15.8	3.11
437.127B	64*	137*	3.8*	119*	3.5	1.0	.	2.5	4.0*	14.9*	1.57*
437.129B	45	115*	4.0	111	3.0	1.0	1.0	2.5	-	13.5	2.69
437.317	38	111*	3.3*	109*	3.0	1.0	1.0	2.5	2.0*	15.2	2.98
437.321	48	116*	2.8	123*	2.0	1.0	1.0	2.0	1.5	8.7	2.58*
437.322	48	117*	3.3	117	2.0	1.0	1.0	2.0	1.0	8.0	2.33*
437.323	46	113*	4.0	124*	2.0	1.5	1.5	2.3	1.0	10.9	2.45
437.338	40	115*	2.5	111*	3.0	1.0	1.0	2.5	2.5	16.1*	3.31
437.357	41	111*	4.0	127*	4.0	1.0	1.0	2.5	1.5	14.4	2.57

Table 4.4.

Seed composition data for USDA soybean germplasm in maturity groups
III and IV, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
BSR 302	III	17.7	43.7	11.0	3.8	18.1	57.6	9.3	0.1
Crawford	IV	18.6	43.5	10.9	2.8	20.0	58.2	8.0	0.0
Cumberland	III	21.0	40.6	10.8	3.2	26.8	52.4	6.6	0.0
DeSoto	IV	18.8	42.7	10.8	3.3	19.8	57.8	8.1	0.0
Douglas	IV	18.9	43.1	9.6	2.8	18.1	61.3	8.1	0.0
Fayette	III	19.5	42.7	11.4	3.5	21.9	55.0	8.0	0.0
Franklin	IV	19.6	39.9	11.5	3.1	19.1	57.9	8.2	0.0
Hobbit	III	21.2	39.2	10.9	2.7	20.6	58.5	7.1	0.0
Lawrence	IV	18.9	42.9	9.9	2.9	21.8	57.8	7.3	0.1
Pella	III	20.7	40.1	10.9	3.6	22.4	56.2	6.7	0.0
Pixie	IV	19.1	43.1	10.4	3.2	22.6	56.2	7.5	0.0
Sparks	IV	19.9	41.1	9.9	3.0	21.7	57.7	7.6	0.0
Union	IV	19.1	42.8	10.6	3.0	24.6	54.9	6.8	0.0
Ware	IV	18.7	41.0	10.5	3.0	24.0	54.8	7.6	0.0
Will	III	19.7	43.1	10.8	3.1	22.7	56.0	7.3	0.0
Williams 82	III	19.5	42.4	10.7	3.2	24.5	54.5	7.0	0.1
427.136	III	19.6	42.5	10.8	3.8	25.1	53.4	6.8	0.0
427.142	III	17.0	45.8	11.3	3.1	24.2	52.3	8.9	0.1
430.595	IV	16.3	43.9	11.3	2.8	21.7	54.6	9.5	0.0
430.598A	IV	16.0	45.0	11.7	3.2	27.5	49.4	8.2	0.0
430.598B	IV	15.8	45.9	11.9	3.3	20.2	54.4	10.0	0.0
430.599	IV	15.8	44.9	12.4	3.1	21.8	52.9	9.6	0.0
430.619	III	16.5	45.0	11.9	8.3	19.3	52.3	8.2	0.0
430.620	IV	14.9	44.1	11.4	3.1	19.3	55.9	10.2	0.0
430.622	III	17.1	45.3	12.5	2.9	26.5	49.7	8.3	0.1
430.623	III	18.3	42.2	12.8	3.0	25.4	50.1	8.4	0.1
430.624	III	17.1	45.7	12.2	3.2	24.3	52.0	8.1	0.1
430.625	IV	16.7	44.9	11.8	2.9	18.3	58.3	8.6	0.0
432.359	IV	18.4	44.2	10.4	3.0	17.3	60.4	8.6	0.0
436.684	III	19.6	42.3	10.9	3.0	26.3	52.3	7.2	0.1
437.103	III	17.4	44.4	11.7	2.7	21.5	54.9	9.1	0.1
437.109C	IV	14.5	44.6	12.0	3.3	17.2	55.5	11.9	0.0
437.110A	III	14.3	44.1	12.4	3.1	19.1	54.6	10.5	0.0
437.110B	IV	14.2	48.2	12.5	2.6	14.9	58.3	11.6	0.0
437.114	IV	17.0	44.3	10.7	3.0	21.7	56.2	8.3	0.0
437.124	III	18.7	43.5	11.9	2.8	27.9	50.2	7.1	0.0
437.126A	IV	16.3	44.1	11.4	3.0	22.0	55.0	8.6	0.0
437.127A	IV	17.6	43.9	10.9	2.1	22.0	56.3	8.6	0.0
437.127B	IV	16.3	44.5	11.4	2.5	19.0	57.0	9.9	0.0
437.129B	III	17.0	43.0	12.0	3.9	29.3	47.4	7.2	0.1
437.317	III	17.6	44.8	12.3	2.9	24.2	51.6	8.7	0.2
437.321	III	16.1	42.0	13.3	3.2	22.1	53.2	7.9	0.1
437.322	III	15.9	42.1	13.3	3.0	20.2	54.6	8.6	0.1
437.323	III	18.4	42.7	11.9	3.5	22.5	54.1	7.8	0.0
437.338	III	17.0	44.8	12.8	2.8	19.4	54.8	9.8	0.1
437.357	III	19.5	41.0	11.5	3.2	20.0	55.4	9.7	0.1

Table 1.4

Identification and origin information for USDA soybean
germplasm in maturity groups III to IV, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.359	Ussurijscaja 64	VIR 4152	USSR	USSR	1980	III
437.365	Ussurijscaja 154	VIR 4208	USSR	USSR	1980	III
437.367	Ussurijscaja 171	VIR 4159	USSR	USSR	1980	III
437.377	Ussurijscaja 332	VIR 4129	USSR	USSR	1980	III
437.388	Ussurijscaja 454	VIR 4134	USSR	USSR	1980	III
437.390	Ussurijscaja 458	VIR 4137	USSR	USSR	1980	III
437.391	Ussurijscaja 459	VIR 4138	USSR	USSR	1980	III
437.392	Ussurijscaja 461	VIR 4139	USSR	USSR	1980	III
437.393	Ussurijscaja 462	VIR 4140	USSR	USSR	1980	III
437.396	Ussurijscaja 470	VIR 4143	USSR	USSR	1980	III
437.397	Ussurijscaja 477	VIR 4144	USSR	USSR	1980	IV
437.401	Ussurijscaja 483	VIR 4145	USSR	USSR	1980	III
437.403	Ussurijscaja 491	VIR 4224	USSR	USSR	1980	III
437.412	Ussurijscaja 508	VIR 4233	USSR	USSR	1980	III
437.422	Ussurijscaja 525	VIR 4244	USSR	USSR	1980	III
437.444	Ussurijscaja 592	VIR 4277	USSR	USSR	1980	III
437.452B	(Ussurijscaja 640)	(VIR 4293)	USSR	USSR	1980	III
437.456	Ussurijscaja 651	VIR 4298	USSR	USSR	1980	III
437.459	Ussurijscaja 660	VIR 4197	USSR	USSR	1980	III
437.461	Ussurijscaja 670	VIR 4146	USSR	USSR	1980	III
437.462D	(Ussurijscaja 672)	(VIR 4199)	USSR	USSR	1980	III
437.463B	(Ussurijscaja 674)	(VIR 4200)	USSR	USSR	1980	III
437.464	Ussurijscaja 675	VIR 4201	USSR	USSR	1980	III
437.466	Ussurijscaja 683	VIR 4148	USSR	USSR	1980	III
437.467	Ussurijscaja 684	VIR 4203	USSR	USSR	1980	III
437.476		VIR 381	USSR	USSR	1980	III
437.478		VIR 389	USSR	USSR	1980	IV
437.482		VIR 964	USSR	USSR	1980	III
437.485		VIR 1048	USSR	USSR	1980	II
437.487		VIR 1069	USSR	USSR	1980	III
437.500B		(VIR 3810)	USSR	USSR	1980	III
437.500C		(VIR 3810)	USSR	USSR	1980	III
437.550C		(VIR 4879)	USSR	USSR	1980	III
437.563	Bujan' pin din huan	VIR 5647	USSR	China	1980	III
437.574	Chi lu schu	VIR 784	USSR	China	1980	III
437.578	Chuan da dou	VIR 5223	USSR	China	1980	III
437.580	Chun hua li	VIR 5426	USSR	China	1980	IV
437.586A	Crest'janscij A	VIR 5394	USSR	China	1980	III
437.594B	(Dun haj sy tszjao)	(VIR 5344)	USSR	China	1980	III
437.605A	DV-2776	VIR 4624	USSR	China	1980	III
437.605C	(DV-2776)	(VIR 4624)	USSR	China	1980	III
437.635E	(DV-2816)	(VIR 4664)	USSR	China	1980	III
437.641B	(DV-2822)	(VIR 4670)	USSR	China	1980	III
437.654	Er hej jan'	VIR 5268	USSR	China	1980	III
437.655	Er huan jan'	VIR 5269	USSR	China	1980	III
437.661B	(Gun' lin' 685)	(VIR 5673)	USSR	China	1980	III

Table 2.4

Descriptive data for USDA soybean germplasm in maturity groups

III and IV, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437,359	III	P	T	E	N	Br	S	Y	Bl			
437,365	III	P	T	E	N	Br	S	Y	Bl			
437,367	III	P	G	E	N	Br	I	Y	G			
437,377	III	P	T	E	Ssp	Br	D	Br	Br			
437,388	III	P	T	E	Ssp	Br	S	Bl	Bl	Fleck	Dab	
437,390	III	P	T	E	Ssp	Br	I	Br	Br		Dab	
437,391	III	P	T	E	N	Tn	D	Y	Y			
437,392	III	P	T	E	N	Br	D	Y	Y			
437,393	III	P	T	E	Ssp	Br	S	Y	G			
437,396	III	P	T	E	N	Lbr	S	Br	Br			
437,397	IV	P	T	E	N	Br	D	Gn	Bl		Dab	
437,401	III	W	T	E	N	Tn	D	Y	Bl			
437,403	III	P	T	E	Ssp	Lbr	D	Gnbr	Br		Dab	
437,412	III	P	T	E	Ssp	Br	D	Y	Bl		Dab	
437,422	III	P	T	E	Ssp	Br	I	Br	Br			
437,444	III	P	T	E	N	Tn	D	Y	Bl			
437,452B	III	P	T	E	Ssp	Br	D	Y	Br			
437,456	III	P	T	E	Ssp	Br	D	Y	Bl			
437,459	III	P	G	E	Ssp	Br	I	Y	Y		Wa	
437,461	III	P	T	E	Ssp	Br	I	Br	Br			
437,462D	III	P	T	E	Ssp	Tn	D	Y	Br			
437,463B	III	P	G	E	N	Lbr	D	Y	Y			
437,464	III	P	T	E	N	Br	I	Y	Br			
437,466	III	P	T	E	N	Br	D	Y	Y			
437,467	III	P	T	E	N	Br	D	Y	Br			
437,476	III	P	T	E	N	Br	I	Lgn	Lgn			
437,478	IV	W	T	E	N	Lbr	S	Gnbr	Br			
437,482	III	P	Ng	E	N	Br	S	Bl	Bl			Sw
437,485	II	P	G	E	N	Bl	I	Gn	Bf	Gncot		
437,487	III	P	T	E	N	Br	D	Bl	Bl		Dab	
437,500B	III	P	T	E	N	Br	D	Y	Br			
437,500C	III	P	G	E	N	Br	D	Y	Bf			
437,550C	III	W	T	E	N	Br	D	Y	Br			
437,563	III	W	G	Sa	N	Br	D	Y	Bf			
437,574	III	P	T	E	N	Br	S	Bl	Bl	Fleck		
437,578	III	W	G	E	N	Tn	I	Y	Bf			
437,580	IV	P	T	E	N	Br	I	Y	Blbr			
437,586A	III	W	T	A	Ssp	Tn	D	Y	Br			
437,594B	III	P	G	A	N	Br	I	Y	Ib			
437,605A	III	P	T	E	Ssp	Br	D	Y	Y			
437,605C	III	P	G	E	N	Tn	D	Y	Y			
437,635E	III	P	T	E	N	Dbr	D	Y	Y	Abh		
437,641B	III	P	G	E	Ssp	Br	D	Y	G			
437,654	III	P	T	E	N	Bl	I	Bl	Bl			Sw
437,655	III	P	L†	E	N	Br	I	Bl	Bl			Sw
437,661B	III	P	T	E	N	Bl	I	Bl	Bl			Sw

Table 3.4

Agronomic data for USDA soybean germplasm in maturity groups
III and IV, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.359	42	112*	3.8	121*	4.0	1.0	1.0	2.8	1.5	14.2	2.27
437.365	42	111*	4.0	130*	4.0	1.0	1.0	2.5	1.5	13.7	2.41
437.367	44	116*	2.3	115	3.0	1.0	1.0	2.8	4.0*	17.5*	2.82
437.377	44	114*	4.0	109*	4.0	1.0	1.0	2.5	-	15.9	2.74
437.388	43	115*	4.5	116*	4.0	1.0	1.0	2.3	-	10.3	2.39
437.390	38	118*	4.3	104*	3.5	1.0	1.0	2.5	-	13.5*	2.70
437.391	40	119*	4.3	130*	3.0	1.0	1.0	2.8	2.5	13.8	2.80
437.392	40	116*	3.8	111	3.0	1.0	1.0	2.5	2.5*	14.3	2.91
437.393	36	112*	1.6*	91	3.0	1.0	1.0	2.5	3.5	16.5	2.93
437.396	45	118*	4.6	138*	4.0	1.0	1.0	2.8	-	12.7*	2.49*
437.397	45	119*	4.0	123*	2.0	1.0	1.5	2.0	2.5	11.8	2.08*
437.401	41	111*	2.8*	118	4.0	1.0	1.0	2.3	3.5	14.3	2.36
437.403	42	116*	4.0	112	4.0	1.0	1.0	2.5	-	10.7	2.33
437.412	42	111*	3.9	125*	3.0	1.0	1.0	2.3	2.5	13.5	2.58
437.422	40	114	3.0*	113*	3.0	1.0	1.0	2.5	-	12.9	2.48
437.444	42	117*	3.0	123*	4.0	1.0	1.0	2.3	2.5	15.3	2.45
437.452B	43	117*	2.3	103	3.0	1.0	1.0	2.3	4.5	14.6*	2.53
437.456	44	112*	3.8	115*	4.0	1.0	1.0	2.0	3.0*	12.4	2.63
437.459	Tested in and reported with the group II evaluation.										
437.461	43	115*	4.0	114*	4.0	1.0	1.0	2.5	-	17.0	2.68*
437.462D	41	116*	2.5	101	3.0	1.0	1.0	2.5	4.5	15.4*	2.56*
437.463B	40	111*	3.3	110	2.0	1.0	1.0	3.0	3.5	18.2	2.39
437.464	43	112*	3.3	130*	3.5	1.0	1.0	3.3	3.5	16.5	2.80
437.466	41	114*	2.8*	110	4.0	1.0	1.0	2.5	4.5	15.1	2.51
437.467	41	113*	3.3	113	4.0	1.0	1.0	2.5	2.5	15.7	2.64
437.476	46	118*	2.8	107	3.0	1.0	1.0	2.5	4.5	12.5	2.16*
437.478	50	123*	4.0	109*	2.5	1.5	1.5	2.5	-	12.0	1.76*
437.482	Tested in and reported with the group II evaluation.										
437.485	42	103	3.5	89*	2.5	2.0	2.0	2.5	2.0	14.1	2.84
437.487	42	116*	4.0	100	2.0	1.0	1.5	2.3	-	11.6	2.23
437.500B	39	110*	3.3*	95*	3.0	1.0	1.5	2.0	3.0	14.5	2.72
437.500C	37	110*	3.9	97*	3.0	1.0	1.0	2.3	2.0	15.3	2.81
437.550C	40	112*	4.0	108*	3.5	1.0	1.0	2.5	2.5	14.4	3.04
437.563	58*	117*	3.8	96*	2.0	1.0	2.0*	2.0	2.0	12.5	1.82
437.574	41	111*	3.0	100*	2.5	1.0	1.0	2.0	-	10.0	1.94
437.578	47	115*	1.0	103*	3.0	1.0	1.0	2.5	1.0	16.5	3.36
437.580	54	126	3.5	130*	2.0	1.5	2.0*	2.3	2.0	11.2	1.94*
437.586A	59	117*	3.3	102*	4.0	2.0	3.5*	2.3	4.0*	12.6	1.67
437.594B	Tested in and reported with the group II evaluation.										
437.605A	Tested in and reported with the group II evaluation.										
437.605C	Tested in and reported with the group II evaluation.										
437.635E	51*	115*	2.5*	79	2.0	1.0	1.0	2.0	2.0	13.5	2.74*
437.641B	42	114*	2.5	104	3.0	1.0	1.0	2.3	2.5	15.7	2.86
437.654	50	115*	4.5	136*	4.0	1.0	1.0	2.3	-	10.1	2.19*
437.655	45	118*	4.3	125*	4.0	1.0	1.5	2.5	-	11.7	2.51*
437.661B	47	120	4.8	153	5.0	1.0	1.5	2.5	-	4.8	1.38*

Table 4.4.

Seed composition data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.359	III	19.1	41.9	11.3	3.2	20.0	55.8	9.8	0.0
437.365	III	19.1	41.4	11.4	3.3	20.3	55.3	9.5	0.1
437.367	III	17.3	45.8	10.8	2.9	25.1	52.6	8.3	0.1
437.377	III	15.3	49.6	10.6	2.6	20.5	58.1	8.1	0.1
437.388	III	16.5	45.7	11.3	2.9	21.7	56.2	7.8	0.1
437.390	III	16.2	47.0	11.7	2.9	21.7	56.2	7.4	0.0
437.391	III	17.0	45.8	11.9	2.7	21.4	55.9	7.9	0.0
437.392	III	17.0	45.8	12.3	2.6	17.6	58.2	9.2	0.0
437.393	III	18.5	44.0	11.3	2.5	21.7	55.7	8.7	0.0
437.396	III	16.0	46.4	12.0	2.6	20.8	55.7	8.9	0.0
437.397	IV	16.2	44.6	11.8	2.6	20.6	56.6	8.3	0.0
437.401	III	17.8	44.2	10.1	2.7	22.1	56.8	8.2	0.0
437.403	III	15.7	46.4	12.2	2.3	23.8	54.1	7.5	0.0
437.412	III	16.4	46.6	11.5	2.6	19.3	57.5	8.8	0.0
437.422	III	17.3	45.7	11.3	2.5	23.2	54.7	8.2	0.0
437.444	III	17.8	45.0	11.5	2.8	23.1	54.6	7.8	0.0
437.452B	III	16.6	45.3	10.8	2.3	18.7	60.0	8.0	0.0
437.456	III	16.9	44.8	11.6	2.6	21.3	56.0	8.3	0.1
437.459	III	Tested in and reported with the group II evaluation.							
437.461	III	15.6	49.4	11.6	2.4	19.8	57.4	8.6	0.0
437.462D	III	17.4	44.9	10.8	2.5	19.9	59.2	7.5	0.0
437.463B	III	16.3	46.4	11.5	2.5	21.1	56.2	8.6	0.0
437.464	III	17.3	44.7	13.5	3.0	16.8	55.6	10.8	0.0
437.466	III	17.3	44.6	12.1	2.9	19.5	57.3	8.1	0.0
437.467	III	16.8	46.4	10.9	2.0	17.5	59.7	9.7	0.0
437.476	III	16.4	45.7	10.0	2.8	25.6	54.7	6.8	0.0
437.478	IV	16.0	46.6	11.2	2.8	21.0	55.2	9.7	0.0
437.482	III	Tested in and reported with the group II evaluation.							
437.485	II	17.9	41.4	12.1	2.6	22.0	55.1	8.1	0.0
437.487	III	14.7	48.1	12.5	2.7	19.6	57.3	7.8	0.0
437.500B	III	18.7	43.5	11.9	2.6	18.3	58.8	8.4	0.0
437.500C	III	18.5	42.9	11.6	2.7	19.3	57.7	8.7	0.0
437.550C	III	17.2	45.3	11.5	2.5	17.8	58.9	9.0	0.0
437.563	III	16.6	46.7	11.1	2.9	26.7	51.9	7.3	0.0
437.574	III	16.1	45.6	11.9	2.5	20.9	56.5	8.0	0.0
437.578	III	19.1	42.0	11.3	2.7	20.7	56.9	8.2	0.1
437.580	IV	17.0	44.5	11.5	2.5	19.0	57.3	9.5	0.0
437.586A	III	15.8	45.1	12.3	2.4	24.1	53.5	7.5	0.0
437.594B	III	Tested in and reported with the group II evaluation.							
437.605A	III	Tested in and reported with the group II evaluation.							
437.605C	III	Tested in and reported with the group II evaluation.							
437.635E	III	17.0	44.6	13.0	2.6	21.2	54.8	8.3	0.0
437.641B	III	16.0	46.3	13.2	2.4	17.8	56.6	9.9	0.0
437.654	III	15.0	45.0	12.8	2.6	20.9	54.1	9.6	0.0
437.655	III	16.0	44.0	13.0	2.4	20.1	55.3	9.2	0.0
437.661B	III	13.8	44.7	12.3	2.9	16.1	58.1	10.5	0.0

Table 1.4

Identification and origin information for USDA soybean
germplasm in maturity groups III to IV, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
437.672	Lisinscaja	VIR 5643	USSR	China	1980	IV
437.674	Lju tio tsin	VIR 5646	USSR	China	1980	III
437.679	Nan cou	VIR 4895	USSR	China	1980	IV
437.683	Pa man tsin	VIR 5428	USSR	China	1980	IV
437.684	Phudihuan	VIR 5485	USSR	China	1980	III
437.685D	(Phun zhun)	(VIR 4890)	USSR	China	1980	III
437.690	Pin din guan'	VIR 5283	USSR	China	1980	III
437.695C	(S-185)	(VIR 4865)	USSR	China	1980	IV
437.703	Sin huan do	VIR 5517	USSR	China	1980	IV
437.709	Sjao sy tszjao ti huan dou	VIR 5282	USSR	China	1980	III
437.710	Sjao tsin do	VIR 5429	USSR	China	1980	III
437.711B	(Sjao tszin' huan)	(VIR 5212)	USSR	China	1980	IV
437.725	Te zu gan	VIR 5430	USSR	China	1980	IV
437.728	Tju sen' zuan' tjao cza	VIR 5334	USSR	China	1980	IV
437.745	Tun chzou	VIR 4892	USSR	China	1980	IV
437.749	Zelenaja	VIR 5479	USSR	China	1980	IV
437.751	Zinan 2	VIR 5645	USSR	China	1980	IV
437.770		VIR 1278	USSR	China	1980	III
437.776		VIR 1302	USSR	China	1980	III
437.788B		(VIR 3018)	USSR	China	1980	IV
437.789		VIR 3020	USSR	China	1980	IV
437.790		VIR 3021	USSR	China	1980	IV
437.792		VIR 3023	USSR	China	1980	III
437.794		VIR 3025	USSR	China	1980	III
437.798		VIR 5505	USSR	China	1980	IV
437.799		VIR 5506	USSR	China	1980	IV
437.800		VIR 5507	USSR	China	1980	IV
437.801		VIR 5508	USSR	China	1980	IV
437.804		VIR 5512	USSR	China	1980	III
437.805		VIR 5514	USSR	China	1980	III
437.839B	(DV-900)	(VIR 4211)	USSR	China	1980	III
437.842	DV-904	VIR 4217	USSR	China	1980	II
437.845D	(DV-910)	(VIR 4216)	USSR	China	1980	IV
437.853B	(DV-2679)	(VIR 4614)	USSR	China	1980	III
437.863B	(DV-2841)	(VIR 4689)	USSR	China	1980	III
437.877C	(Elita 694)	(VIR 4309)	USSR	China	1980	III
437.888B	(Elita 718)	(VIR 4323)	USSR	China	1980	III
437.894	Elita 744	VIR 4331	USSR	China	1980	III
437.903	Elita 766	VIR 4342	USSR	China	1980	III
437.916	M. d. H.	VIR 3985	USSR	China	1980	IV
437.919	Sancahe 268/C	VIR 5017	USSR	China	1980	III
437.944		VIR 569	USSR	China	1980	II
437.950		VIR 966	USSR	China	1980	II
438.047		VIR 2303	USSR	China	1980	III
438.069C		(VIR 2438)	USSR	China	1980	III
438.073		VIR 2458	USSR	China	1980	IV

Table 2.4

Descriptive data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
437.672	IV	W	G	E	Ssp	Br	I	Y	Bf			
437.674	III	W	G	E	N	Bl	S	Gn	Bf			
437.679	IV	P	T	E	N	Br	S	Bl	Bl			
437.683	IV	W	L†	E	N	Br	D	Gn	Br			
437.684	III	W	G	E	Ssp	Br	I	Y	Y			
437.685D	III	W	G	E	N	Tn	I	Y	Lbf			
437.690	III	W	L†	E	N	Br	S	Bl	Bl			
437.695C	IV	W	T	A	N	Br	I	Y	Br			
437.703	IV	P	G	A	Ssp	Br	D	Y	Bf			
437.709	III	P	G	E	N	Br	S	Y	Bf			
437.710	III	W	T	E	Ssp	Br	D	Gn	Br	Sph		
437.711B	IV	P	T	E	N	Br	S	Y	Br			
437.725	IV	P	T	E	N	Br	S	Bl	Bl			
437.728	IV	W	G	Sa	N	Tn	D	Y	Bf			
437.745	IV	P	G	E	N	Br	S	Gn	Bf	Gncot		
437.749	IV	P	L†	A	N	Br	S	Gn	Bl			
437.751	IV	W	G	E	N	Br	D	Y	Bf			
437.770	III	W	Ng	E	N	Br	D	Bl	Bl			
437.776	III	P	T	E	Ssp	Br	S	Y	Br		Dab	
437.788B	IV	P	T	E	N	Lbr	I	Br	Br			
437.789	IV	P	T	E	N	Bl	I	Bl	Bl			
437.790	IV	P	T	E	N	Bl	I	Bl	Bl			
437.792	III	P	T	E	N	Br	D	Y	Br			
437.794	III	W	T	E	N	Br	D	Bl	Bl			
437.798	IV	P	G	E	N	Tn	D	Lgn	Bf			
437.799	IV	W	G	E	Ssp	Br	D	Y	Bf			
437.800	IV	P	T	E	N	Dbr	I	Bl	Bl	Fleck		
437.801	IV	W	T	E	N	Bl	D	Br	Br	SAbh		
437.804	III	W	T	E	N	Br	D	Y	Bl			
437.805	III	W	T	E	N	Br	D	Bl	Bl			
437.839B	III	P	G	E	N	Br	S	Y	Y			
437.842	II	W	G	E	N	Br	D	Y	Bf			
437.845D	IV	P	G	E	N	Br	D	Y	Y			
437.853B	III	P	G	E	N	Br	S	Y	Bf			
437.863B	III	W	G	E	N	Dbr	S	Y	Y			
437.877C	III	W	G	E	N	Tn	I	Y	Y			
437.888B	III	W	G	E	N	Br	I	Y	Lbf			
437.894	III	P	T	E	N	Tn	S	Y	Y			
437.903	III	W	G	E	Sdn	Br	D	Y	Bf			
437.916	IV	P	L†	E	N	Tn	I	Bl	Bl			
437.919	III	P	T	E	N	Br	I	Y	Bl			
437.944	II	P	T	E	Ssp	Bl	I	Bl	Bl		Dab	Sw
437.950	II	P	L†	E	Ssp	Br	D	Bl	Bl		Dab	
438.047	III	P	T	E	N	Br	D	Y	Br			
438.069C	III	P	T	E	N	Bl	I	Y	Br	SAbh		
438.073	IV	P	T	E	N	Bl	I	Bl	Bl			

Table 3.4

Agronomic data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- ing	Matur- ity	Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
437.672	61	125	3.8	120	2.0	1.5	3.0*	2.3	1.0	12.6*	2.32*
437.674	Tested in and reported with the group II evaluation.										
437.679	63	123*	3.0*	117*	2.0	2.0	2.5	2.0	-	9.7	1.54
437.683	58	134*	3.8	150	4.0	1.0	.	2.3	4.0*	15.6*	1.48*
437.684	48	114*	2.5	86*	1.0	1.0	1.0	2.5	3.0*	18.8	2.77
437.685D	Tested in and reported with the group II evaluation.										
437.690	64	119*	2.3*	120*	2.0	3.5	4.5	2.0	-	7.5	1.87
437.695C	59	127*	4.5	98*	1.0	1.0	1.5	1.8	3.5	11.2	2.42
437.703	57	130*	4.0	105*	3.5	1.0	1.0	2.8*	1.0	14.6*	2.21*
437.709	55	116*	2.3*	75	2.0	1.0	1.5	1.8	1.0	14.8	2.30*
437.710	48	115	4.5	136	4.0	1.0	2.0*	2.0	2.5	11.8	3.15
437.711B	45	126	3.3	119	2.5	1.0	1.0	2.3	4.5	12.8	2.04
437.725	63	127*	2.5	104*	2.0	1.0	1.5	2.3	-	8.5	1.69
437.728	60	127*	3.8	121	2.0	1.0	1.0	1.8	1.0	12.1	2.52
437.745	56	122*	4.0	98	2.5	1.5	3.0*	2.3	1.5	14.6	2.38
437.749	63	134*	2.3	104*	1.0	1.0	2.0	2.3	1.5	22.1*	1.94*
437.751	59	128	4.3	90	1.0	3.0*	3.0*	1.8	1.0	12.2*	1.88*
437.770	Tested in and reported with the group II evaluation.										
437.776	45	116*	3.5	93*	2.0	1.0	1.5	2.5	4.0*	12.4*	2.36*
437.788B	46	122*	4.5	143	2.0	1.5	1.5	2.3	-	6.4	1.68*
437.789	47	123	5.0	133	5.0	1.0	1.5	2.3	-	5.3	1.78*
437.790	46	122	5.0	133	5.0	1.0	1.5	2.3	-	5.2	1.70*
437.792	50*	111*	4.0	149*	4.0	1.0	1.0	2.0	2.5	9.3	2.49
437.794	50*	116*	2.8	74	1.0	1.0	1.0	2.3	-	20.5	2.45
437.798	55	124	3.8	76	1.5	1.0	1.5	3.0	1.5	15.1*	1.88*
437.799	56*	120*	4.3	121*	2.0	1.5	1.5	2.3	2.0*	7.5	1.71*
437.800	56	119*	4.8	140	5.0	1.0	1.0	2.3	-	4.2	1.04*
437.801	53*	121*	3.3*	108*	2.5	1.5	1.5	2.5	-	19.0	2.03
437.804	53	117*	4.0	133	3.5	1.0	1.0	2.5	2.5	17.6	2.85
437.805	50*	117*	3.0*	75	1.0	1.0	1.0	2.5	-	20.7	2.63
437.839B	51	113*	3.5	112*	3.0	1.0	1.0	2.3	2.5	17.5	2.72
437.842	39	106	2.5	98	3.0	1.0	1.0	3.0	1.5	20.8	3.18
437.845D	55*	125	4.0	139*	2.0	1.0	1.5	2.5	1.5	13.3	2.18
437.853B	46	110*	2.5*	101	3.5	1.0	1.0	3.0	1.5	15.3	3.13
437.863B	46	113*	2.8	108*	4.0	1.0	1.0	2.3	1.0	19.3	2.55
437.877C	38	112*	3.0	88*	3.0	1.0	1.0	3.0	1.5	20.3	2.86
437.888B	42	116*	3.0	114	3.0	1.0	1.0	2.8	2.5	20.6	3.21
437.894	38	114	3.9	116*	3.0	1.0	1.0	2.0	3.0*	10.6	2.82
437.903	48	115*	2.8	116*	3.0	1.0	1.0	2.0	1.5	14.3	2.98
437.916	59*	125	3.5	95	3.5	1.5	3.0*	2.3	-	11.7	1.58*
437.919	42	111*	2.3*	95	2.5	1.0	1.0	2.8	2.0	20.5	2.95
437.944	37	106	4.1	95*	2.0	1.0	1.0	2.5	-	8.4	2.12
437.950	44	103	3.9	108*	3.0	1.0	1.0	2.0	-	11.1	2.52
438.047	43	114*	4.0	121	4.0	1.0	1.0	2.3*	2.5	14.6	3.04
438.069C	Tested in and reported with the group II evaluation.										
438.073	50*	121	4.8	118*	5.0	1.0	1.5	2.3	-	5.0	1.63

Table 4.4.

Seed composition data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
437.672	IV	16.1	44.8	12.7	2.7	20.2	53.1	11.1	0.0
437.674	III	Tested in and reported with the group II evaluation.							
437.679	IV	15.2	45.1	12.5	2.6	19.4	55.1	10.1	0.0
437.683	IV	17.0	44.3	12.4	2.9	22.5	52.8	9.4	0.0
437.684	III	17.8	43.6	12.1	2.7	23.8	53.5	7.8	0.0
437.685D	III	Tested in and reported with the group II evaluation.							
437.690	III	14.5	45.5	12.9	2.3	15.7	57.2	11.8	0.0
437.695C	IV	16.4	43.4	11.7	2.3	16.0	60.2	9.6	0.0
437.703	IV	16.7	42.8	13.4	2.9	18.4	56.4	8.8	0.0
437.709	III	17.0	43.7	13.1	2.3	21.9	54.3	8.1	0.0
437.710	III	17.3	43.1	12.5	2.7	22.2	54.6	7.9	0.0
437.711B	IV	15.6	47.6	11.4	2.7	18.7	58.2	8.9	0.0
437.725	IV	15.5	43.7	11.4	2.4	17.9	56.4	11.9	0.0
437.728	IV	17.3	43.7	11.7	2.6	19.4	57.1	9.0	0.0
437.745	IV	18.2	42.6	12.1	3.0	25.4	51.8	7.5	0.0
437.749	IV	15.5	46.6	11.4	3.0	22.2	55.3	7.9	0.0
437.751	IV	18.2	44.8	11.9	2.9	19.4	56.2	9.3	0.0
437.770	III	Tested in and reported with the group II evaluation.							
437.776	III	17.1	43.9	12.3	2.9	23.1	54.2	7.4	0.1
437.788B	IV	14.1	44.8	12.7	3.0	18.3	56.1	9.7	0.0
437.789	IV	14.6	44.1	11.7	3.0	15.9	58.6	10.7	0.0
437.790	IV	14.4	42.8	11.6	3.1	15.9	58.8	10.5	0.0
437.792	III	17.1	43.0	13.6	3.0	20.3	55.5	7.5	0.0
437.794	III	18.2	44.7	12.3	3.8	25.9	51.3	6.4	0.0
437.798	IV	16.1	45.6	13.8	2.8	22.0	53.1	8.1	0.1
437.799	IV	15.3	43.7	12.3	3.2	16.8	57.9	9.7	0.0
437.800	IV	12.9	45.2	12.4	3.3	13.8	58.6	11.8	0.0
437.801	IV	18.2	44.1	11.1	3.1	22.8	54.4	8.4	0.1
437.804	III	18.8	43.7	11.6	2.9	22.5	55.1	7.7	0.0
437.805	III	18.6	44.5	12.3	3.7	25.8	51.8	6.3	0.1
437.839B	III	17.3	46.1	11.7	2.5	23.4	54.5	7.7	0.0
437.842	II	18.0	43.9	12.2	2.5	25.7	52.3	7.2	0.0
437.845D	IV	16.4	46.3	12.1	2.7	20.0	55.8	9.1	0.1
437.853B	III	19.0	43.0	11.3	2.9	23.3	54.8	7.4	0.0
437.863B	III	20.4	41.6	10.9	3.0	29.1	50.6	6.3	0.0
437.877C	III	18.7	44.3	11.3	2.7	28.0	51.3	6.5	0.0
437.888B	III	18.8	43.1	11.7	2.7	24.8	53.6	7.2	0.0
437.894	III	17.2	43.9	11.3	2.8	19.1	57.4	9.2	0.0
437.903	III	19.8	39.4	12.4	2.9	26.4	50.8	7.2	0.1
437.916	IV	14.4	48.9	13.2	3.6	19.6	53.8	9.6	0.0
437.919	III	18.4	43.2	11.0	2.9	23.4	54.9	7.6	0.0
437.944	II	14.0	44.5	13.9	2.6	16.3	57.5	9.6	0.0
437.950	II	14.5	47.7	11.4	2.6	17.7	59.2	9.0	0.0
438.047	III	18.6	43.6	12.1	2.9	22.4	55.5	6.9	0.0
438.069C	III	Tested in and reported with the group II evaluation.							
438.073	IV	14.3	44.6	11.6	3.0	16.3	58.4	10.4	0.0

Table 1.4

Identification and origin information for USDA soybean
germplasm in maturity groups III to IV, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.075		VIR 2469	USSR	China	1980	III
438.079		VIR 2487	USSR	China	1980	III
438.101		VIR 2578	USSR	China	1980	III
438.112B		(VIR 2623)	USSR	China	1980	III
438.124B		(VIR 2795)	USSR	China	1980	III
438.252C		(VIR 4707)	USSR	China	1980	III
438.259B		(VIR 4715)	USSR	China	1980	III
438.274	Ahagara	VIR 3673	USSR	Japan	1980	IV
438.281	Kurosaya	VIR 5853	USSR	Japan	1980	III
438.286	Tyakotsubu	VIR 5849	USSR	Japan	1980	IV
438.287	Tzuru no tomo	VIR 1096	USSR	Japan	1980	III
438.295		VIR 5835	USSR	Japan	1980	IV
438.296	A-110	VIR 5628	USSR	Korea	1980	IV
438.299	Gan ge N16	VIR 5248	USSR	Korea	1980	IV
438.300	Opal kon	VIR 5629	USSR	Korea	1980	IV
438.302A	Zan dan ber mak	VIR 5247	USSR	Korea	1980	IV
438.303		VIR 2956	USSR	Korea	1980	IV
438.304B		(VIR 2962)	USSR	Korea	1980	IV
438.307		VIR 2980	USSR	Korea	1980	IV
438.308B		(VIR 2987)	USSR	Korea	1980	IV
438.310	DV-2342	VIR 4344	USSR	N. Korea	1980	III
438.311	DV-2370	VIR 4343	USSR	N. Korea	1980	IV
438.312	Blaen Small	VIR 5922	USSR	Algeria	1980	III
438.315	CNS 89A	VIR 5927	USSR	Algeria	1980	III
438.333	Ronest 117	VIR 5940	USSR	Algeria	1980	III
438.335	SAO 196-C	VIR 5938	USSR	Algeria	1980	III
438.341		VIR 5923	USSR	Algeria	1980	III
438.345	Potch 156	VIR 4467	USSR	Australia	1980	IV
438.346	Potch 313	VIR 4468	USSR	Australia	1980	IV
438.357B	(VU-5817)	(VIR 5095)	USSR	Bulgaria	1980	III
438.409	Kleverhof 527	VIR 5735	USSR	Hungary	1980	III
438.424		VIR 5481	USSR	India	1980	IV
438.427		VIR 5532	USSR	India	1980	III
438.435A	CNS 657	VIR 5861	USSR	Morocco	1980	III
438.435B	(CNS 657)	(VIR 5861)	USSR	Morocco	1980	III
438.484	AC	VIR 21	USSR	USA	1980	III
438.486	Black Eyebrow	VIR 63	USSR	USA	1980	III
438.487	Chesnut	VIR 449	USSR	USA	1980	III
438.488	Chesnut Washington	VIR 5720	USSR	USA	1980	III
438.489A	Chiquita	VIR 27	USSR	USA	1980	IV
438.489B	(Chiquita)	(VIR 27)	USSR	USA	1980	IV
438.490A	Ebony	VIR 208	USSR	USA	1980	III
438.490B	(Ebony)	(VIR 208)	USSR	USA	1980	III
438.491	Edna	VIR 56	USSR	USA	1980	IV
438.495	Laredo	VIR 85	USSR	USA	1980	IV
438.496B	(Peking)	(VIR 195)	USSR	USA	1980	III

Table 2.4

Descriptive data for USDA soybean germplasm in maturity groups

III and IV, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438.075	III	W	G	E	N	Br	I	Y	Bf			
438.079	III	P	T	E	N	Br	D	Y	Br			
438.101	III	P	T	E	N	Br	D	Y	Bl			
438.112B	III	P	T	E	N	Br	S	Y	Blbr			
438.124B	III	P	T	E	N	Lbr	D	Y	Bl			
438.252C	III	W	T	E	Ssp	Br	I	Br	Br			
438.259B	III	P	G	E	N	Br	D	Y	Y			
438.274	IV	W	G	E	N	Br	D	Y	Y			
438.281	III	P	T	E	Ssp	Br	D	Y	Br			
438.286	IV	P	L†	E	Ssp	Dbr	S	Gnbr	Br			
438.287	III	P	G	A	Ssp	Br	I	Y	Bf			
438.295	IV	W	T	A	Ssp	Br	I	Y	Br			
438.296	IV	P	G	E	Ssp	Br	D	Y	Y			
438.299	IV	P	L†	E	Ssp	Br	D	Y	Y	SS†		
438.300	IV	P	G	E	Ssp	Br	D	Y	Y			
438.302A	IV	P	G	I	N	Tn	S	Y	Y			
438.303	IV	P	T	E	N	Bl	I	Bl	Bl			
438.304B	IV	P	T	E	N	Tn	I	Bl	Bl			
438.307	IV	W	G	E	N	Tn	D	Y	Bf			
438.308B	IV	P	G	E	Ssp	Tn	D	Y	Y			
438.310	III	W	G	E	N	Br	I	Y	Bf			
438.311	IV	W	G	E	Ssp	Tn	D	Y	Bf			
438.312	III	P	T	A	Sp	Bl	B	Bl	Bl			Sw
438.315	III	P	T	E	Ssp	Br	S	Y	G	Abh		
438.333	III	W	T	E	Ssp	Br	D	Bl	Bl			
438.335	III	P	T	E	N	Tn	I	G	Bl			
438.341	III	P	T	E	N	Bl	I	Bl	Bl		Dab	
438.345	IV	W	Ng	Sa	N	Tn	I	Y	Br			
438.346	IV	W	T	E	N	Tn	S	Y	Br			
438.357B	III	W	G	E	N	Br	D	Y	Bf			
438.409	III	P	T	E	N	Br	S	Y	Bl		Dab	
438.424	IV	P	G	E	Ssp	Br	D	Y	Y			
438.427	III	P	G	E	N	Br	D	Y	Y			
438.435A	III	W	Ng	E	N	Br	D	Y	G			
438.435B	III	W	T	E	N	Br	D	Y	Bl			
438.484	III	P	T	E	N	Br	S	Br	Br			
438.486	III	W	T	E	Ssp	Br	S	Br	Bl	Saddle		
438.487	III	P	T	E	Ssp	Br	D	Br†	Br			
438.488	III	P	Ng	E	N	Bl	D	Br	Br		Dab	
438.489A	IV	W	L†	E	N	Br	S	Bl	Bl			
438.489B	IV	P	T	E	N	Bl	S	Bl	Bl			Sw
438.490A	III	P	Ng	E	N	Bl	I	Bl	Bl			
438.490B	III	Dp	Ng	E	N	Br	S	Bl	Bl			
438.491	IV	P	T	E	N	Bl	S	Bl	Bl	Fleck		
438.495	IV	P	T	E	N	Bl	I	Bl	Bl		Dab	
438.496B	III	P	T	E	N	Tn	S	Bl	Bl			

Table 3.4

Agronomic data for USDA soybean germplasm in maturity groups III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)					Early	Late				
438.075	49	114*	2.8	127*	4.0	1.0	1.0	2.3	1.0	12.9	2.91
438.079	45	115*	2.8	107*	2.5	1.5	1.5	2.5	1.0	16.6	3.16
438.101	46	115*	3.0	135	4.0	1.5	1.5	2.5	2.5	13.7	2.80
438.112B	45	113*	3.5	94*	2.5	1.0	1.0	2.3	2.5	12.7	2.41*
438.124B	42	112*	1.9	99*	3.0	1.0	1.0	2.5	1.5	15.3	2.74
438.252C	Tested in and reported with the group II evaluation.										
438.259B	Tested in and reported with the group II evaluation.										
438.274	59*	137*	1.8	81*	1.0	1.5	.	2.8	3.0	21.5*	2.07
438.281	52*	115*	1.8	86*	1.0	1.5	2.5*	2.5	1.0	15.0	2.36
438.286	62	134*	2.3	82	1.0	2.5*	.	2.0	-	8.2*	1.20*
438.287	58*	118*	2.3*	77*	1.0	3.5	4.0*	2.3	1.0	17.1*	2.11
438.295	60*	132*	1.5	92*	1.0	1.5	2.5*	2.5	1.0	17.1*	1.74*
438.296	56	124*	2.5	73*	1.5	1.5	2.0	2.5	1.0	21.3*	2.73
438.299	52*	128*	2.3	72	1.0	1.5	2.5*	2.5	4.5	24.1*	2.36
438.300	54	128*	2.5	81	1.0	1.0	1.5	2.8	2.5	28.2*	2.18
438.302A	56	128*	3.0	92*	2.0	2.0*	3.0*	2.3	2.5	22.7*	1.82*
438.303	51	122*	4.8	138*	5.0	1.0	2.0*	2.3	-	4.9	1.48
438.304B	59*	124*	4.0	61	1.0	1.5	2.5*	2.5	-	8.6	1.67
438.307	61*	136*	3.3	93	1.0	1.5	2.0*	2.3	1.0	10.8	1.66
438.308B	49	126*	1.3	58	1.0	1.0	1.5	2.3	3.5	11.8	1.87
438.310	47	114*	2.5	113*	3.0	1.0	1.0	2.3	1.5	14.3	3.21
438.311	66*	136*	3.5	99	1.0	1.5	.	2.8	1.0	10.3*	1.29*
438.312	48	113*	4.0	94*	5.0	1.0	1.0	2.3	-	5.6	2.01
438.315	45	121*	4.1	77	2.5	1.0	1.5	2.5	1.0	14.0	2.80
438.333	Tested in and reported with the group II evaluation.										
438.335	Tested in and reported with the group II evaluation.										
438.341	38	108	4.0	126*	4.5	1.0	1.0	2.3	-	8.6	2.61
438.345	55*	126*	2.5	86	3.5	1.0	1.0	1.8	1.0	14.5	2.28
438.346	61	130*	3.8	125*	2.0	1.5	1.5	2.8	4.5	17.9*	1.40
438.357B	47	114*	2.5	119*	4.0	1.0	1.0	2.3	1.0	17.0	3.06
438.409	39	113	3.8	127	2.5	1.0	1.0	2.3	3.0*	10.6	2.44
438.424	53	126*	3.5	88	1.0	1.5	2.0*	2.8	2.0	19.9*	1.90
438.427	59*	122*	3.8	114*	4.0	1.0	1.5	2.5	3.0*	13.7	1.96
438.435A	Tested in and reported with the group II evaluation.										
438.435B	44	116*	2.5	128	4.0	1.0	1.0	2.0	1.5	13.2	3.17
438.484	55*	122	2.8	99*	2.0	1.0	1.0	2.3	-	10.0	2.53*
438.486	45	116*	2.8	103*	3.0	1.0	1.0	2.3	-	18.8	2.95
438.487	47	113*	2.3*	102	3.5	1.0	1.0	2.5	-	15.1	2.61
438.488	36	112*	2.0*	77*	3.0	1.0	1.0	2.0	-	10.7	2.50*
438.489A	58	125*	3.5	129	3.0	2.0	2.0	2.5	-	11.4	2.18*
438.489B	51	122	5.0	128*	5.0	1.0	1.5	2.8	-	10.4	1.79*
438.490A	Tested in and reported with the group II evaluation.										
438.490B	61	120	3.0	141*	4.0	1.5	2.0*	2.3	-	8.2	1.94
438.491	78	136*	4.5	120*	3.5	1.0	.	2.5	-	5.7	0.68*
438.495	49	123	5.0	134*	5.0	1.0	1.5	2.3	-	5.1	1.91*
438.496B	57	123	2.3*	102	3.0	1.0	1.0	2.5	-	8.5	1.75

Table 4.4.

Seed composition data for USDA soybean germplasm in maturity groups III and IV, PI 427,136 to PI 445,845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.075	III	18.4	43.0	11.5	2.9	22.1	55.6	7.7	0.0
438.079	III	17.0	45.1	12.1	2.6	22.5	54.2	8.4	0.0
438.101	III	18.4	43.6	10.3	2.8	26.6	52.9	7.2	0.0
438.112B	III	18.3	42.8	11.8	3.4	20.1	56.8	7.7	0.0
438.124B	III	16.9	44.4	12.1	2.5	23.6	54.0	7.7	0.0
438.252C	III	Tested in and reported with the group II evaluation.							
438.259B	III	Tested in and reported with the group II evaluation.							
438.274	IV	14.4	44.5	11.1	3.5	21.6	53.5	10.1	0.0
438.281	III	19.0	43.5	11.0	2.7	30.5	49.5	6.1	0.0
438.286	IV	13.6	48.0	12.1	2.8	16.7	57.0	11.2	0.0
438.287	III	16.5	44.7	11.7	2.6	22.2	54.1	9.1	0.0
438.295	IV	17.5	42.5	11.9	2.9	21.2	54.6	9.2	0.0
438.296	IV	16.5	44.3	11.6	3.0	25.2	50.6	9.5	0.0
438.299	IV	16.1	46.6	10.9	3.1	25.8	52.3	7.7	0.0
438.300	IV	17.3	45.1	10.8	2.9	27.7	50.4	8.0	0.0
438.302A	IV	16.5	45.3	11.4	3.5	21.2	54.5	9.2	0.1
438.303	IV	14.6	43.8	11.7	3.3	16.6	57.8	10.4	0.0
438.304B	IV	14.2	47.7	12.3	3.4	19.9	54.5	9.8	0.0
438.307	IV	15.7	45.2	12.3	3.1	19.2	56.1	9.1	0.1
438.308B	IV	15.5	45.7	11.3	3.2	20.2	55.5	9.5	0.1
438.310	III	19.8	39.6	12.2	3.1	27.7	49.9	6.9	0.0
438.311	IV	15.0	45.1	11.8	3.4	17.1	57.3	10.3	0.1
438.312	III	13.0	45.1	13.8	2.4	16.2	55.8	11.7	0.0
438.315	III	17.0	45.3	11.1	2.8	19.5	57.5	8.9	0.1
438.333	III	Tested in and reported with the group II evaluation.							
438.335	III	Tested in and reported with the group II evaluation.							
438.341	III	14.5	43.4	12.9	2.6	16.4	57.8	10.1	0.0
438.345	IV	16.1	43.5	11.7	3.5	20.8	54.3	9.5	0.1
438.346	IV	16.1	46.0	12.5	3.3	20.4	54.2	9.4	0.0
438.357B	III	17.9	44.8	11.1	2.8	26.6	51.5	7.7	0.0
438.409	III	16.9	44.4	11.8	2.3	20.8	56.2	8.8	0.0
438.424	IV	.	.	.	.	.	.	.	.
438.427	III	13.9	49.3	12.5	2.5	18.8	55.7	10.2	0.0
438.435A	III	Tested in and reported with the group II evaluation.							
438.435B	III	17.9	44.6	12.9	3.3	19.9	54.9	8.8	0.0
438.484	III	15.2	45.9	12.1	2.6	17.4	57.3	10.4	0.0
438.486	III	17.0	45.6	13.4	2.8	21.1	54.7	7.6	0.1
438.487	III	17.4	44.6	11.0	2.7	29.8	48.9	7.4	0.0
438.488	III	18.2	42.0	11.7	2.6	24.9	53.2	7.3	0.0
438.489A	IV	15.1	45.1	11.1	2.5	21.5	55.8	9.0	0.0
438.489B	IV	14.7	45.6	11.7	2.9	21.2	54.1	9.9	0.0
438.490A	III	Tested in and reported with the group II evaluation.							
438.490B	III	15.0	43.8	12.6	2.5	16.5	57.6	10.8	0.0
438.491	IV	12.3	43.9	12.2	3.3	16.9	53.7	13.8	0.0
438.495	IV	14.3	44.3	11.7	3.2	16.7	57.8	10.3	0.0
438.496B	III	14.6	46.9	13.2	2.4	16.0	57.9	10.3	0.0

Table 1.4
Identification and origin information for USDA soybean
germplasm in maturity groups III to IV, PI 427.136
to PI 445.845

PI No.	Accession name	Foreign collection No.	Primary seed source	Origin of genotype	Year intro- duced or released	Matur- ity group
438.496C	(Peking)	(VIR 195)	USSR	USA	1980	IV
438.497	Peking	VIR 206	USSR	USA	1980	III
438.498	Sable	VIR 28	USSR	USA	1980	IV
438.499	Sobol 170	VIR 127	USSR	USA	1980	III
438.500	Virginia	VIR 76	USSR	USA	1980	III
438.501	Wilson	VIR 199	USSR	USA	1980	III
438.503B	(Wu Dow)	(VIR 60)	USSR	USA	1980	III
438.503C	(Wu Dow)	(VIR 60)	USSR	USA	1980	III
438.507C		(VIR 92)	USSR	USA	1980	IV
438.508		VIR 154	USSR	USA	1980	III
442.005		KAS 160-1	Canada	S. Korea	1980	IV
442.006		KAS 160-2	Canada	S. Korea	1980	IV
442.007A		KAS 160-3	Canada	S. Korea	1980	IV
442.007B		(KAS 160-3)	Canada	S. Korea	1980	IV
442.008		KAS 160-4	Canada	S. Korea	1980	IV
442.010		KAS 160-7	Canada	S. Korea	1980	IV
442.011		KAS 160-9	Canada	S. Korea	1980	IV
442.012A		KAS 160-10	Canada	S. Korea	1980	IV
442.012B		(KAS 160-10)	Canada	S. Korea	1980	IV
442.013		KAS 174-1	Canada	S. Korea	1980	IV
442.016		KAS 235-19	Canada	S. Korea	1980	IV
442.018		KAS 641-6	Canada	S. Korea	1980	IV
442.019		KAS 642-4	Canada	S. Korea	1980	III
445.844	Kan sung pe		China	China	1980	IV
445.845	Szu yueh pa		China	China	1980	III

Table 2.4

Descriptive data for USDA soybean germplasm in maturity groups

III and IV, PI 427,136 to PI 445,845

Entry	Matur- ity group	Flower color	Pubescence			Pod color	Seed coat		Hilum color	Other traits		
			Color	Form	Density		Luster	Color		Seed	Leaf	Plant
438,496C	IV	P	L†	E	N	Bl	S	Bl	Bl			
438,497	III	W	T	E	N	Br	S	Bl	Bl			
438,498	IV	P	T	E	N	Dbr	S	Bl	Bl			
438,499	III	P	Ng	E	N	Br	S	Bl	Bl			
438,500	III	P	T	E	N	Br	S	Gnbr	Br			
438,501	III	P	Ng	E	N	Br	S	Bl	Bl			
438,503B	III	W	Ng	E	N	Bl	D	Bl	Bl			
438,503C	III	P	Ng	E	N	Bl	I	Bl	Bl			
438,507C	IV	P	Ng	E	N	Br	S	Bl	Bl			
438,508	III	P	L†	E	Ssp	Tn	D	Bl	Bl	Gncot		
442,005	IV	P	G	E	Ssp	Br	D	Y	Bf			
442,006	IV	P	T	E	N	Br	S	Bl	Bl			
442,007A	IV	P	T	Sa	Ssp	Tn	D	Bl	Bl			
442,007B	IV	P	T	E	Ssp	Br	D	Bl	Bl			
442,008	IV	P	T	E	Ssp	Br	I	Bl	Bl			
442,010	IV	P	T	E	Ssp	Br	I	Bl	Bl			
442,011	IV	P	G	E	Ssp	Br	S	Y	Y			
442,012A	IV	P	G	E	Ssp	Br	D	Y	Bf			
442,012B	IV	P	G	A	Ssp	Br	I	Y	Lbf			
442,013	IV	Dp	T	E	Ssp	Br	S	Br	Br			
442,016	IV	P	G	Sa	Ssp	Br	I	Y	Y			
442,018	IV	P	G	A	Ssp	Br	D	Y	Y			
442,019	III	P	G	E	Ssp	Br	D	Y	Bf			
445,844	IV	W	G	A	N	Tn	D	Y	Bf			
445,845	III	W	G	A	N	Tn	D	Y	Bf			

Table 3.4
Agronomic data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Flower- Matur- ing ity		Lodging (score)	Height (cm)	Stem term- ina- tion (score)	Shattering		Seed quality (score)	Mottling (score)	Seed weight (cg/seed)	Seed yield (Mg/ha)
	(days after May 31)	(days after May 31)				Early	Late				
438.496C	60	122*	3.8	107*	3.5	1.5	2.5*	2.5	-	8.0	2.05*
438.497	61	120*	2.3*	99*	1.5	1.0	2.0	2.0	-	8.3	1.87
438.498	63	125*	2.8*	106*	2.0	1.0	1.5	2.3	-	7.5	1.55
438.499	65*	121	2.5	154	4.0	1.5	2.0*	2.0	-	8.1	1.94
438.500	45	111*	3.9	97*	3.5	1.0	1.0	2.8	-	14.3	2.74
438.501	Tested in and reported with the group II evaluation.										
438.503B	Tested in and reported with the group II evaluation.										
438.503C	Tested in and reported with the group II evaluation.										
438.507C	58*	125*	2.5*	95*	1.5	1.0	2.0*	2.0	-	8.2	2.66
438.508	55	122*	3.0	104	3.0	1.0	1.5	2.3	-	10.8	2.26
442.005	62	130*	2.8	96	1.5	1.5	2.0*	2.5	2.0	16.0	2.11
442.006	59*	125*	3.0	71*	1.0	1.0	1.5	2.5	-	21.1*	2.20
442.007A	61	134*	2.5	90	1.0	1.5	2.0	2.3	-	18.2*	1.66*
442.007B	56	130*	2.8*	71	1.0	1.5	5.0	2.5	-	28.4*	2.14
442.008	60*	134*	4.0	77*	1.0	1.5	1.5	2.5	-	22.0*	1.99
442.010	53	124*	3.5	78	1.0	1.5	3.0*	2.5	-	22.6	2.67
442.011	57*	129*	3.3	81*	1.0	1.5	3.0*	2.3	2.0	19.5*	2.16*
442.012A	56	122*	3.5	79*	1.5	1.0	2.0*	2.3	1.0	19.0	2.82
442.012B	55*	122*	3.5*	83	1.5	1.5	3.0*	2.3	1.0	18.4*	2.66
442.013	58	121*	2.8*	85*	1.0	1.0	1.5	2.0	-	20.3	2.22
442.016	54	123*	2.0	94	2.0	1.0	2.0*	2.5	2.0	17.7	2.16
442.018	59*	130*	2.8	91	1.0	2.0*	5.0	2.3	2.0	15.8*	1.71*
442.019	52*	119*	3.0	87*	1.5	1.0	2.0*	1.8	1.0	16.0	2.83
445.844	58*	118*	3.0	80*	1.0	2.0*	2.5*	2.3	2.0	18.0	2.00*
445.845	50	110*	3.0*	69	1.0	3.0*	5.0	2.0	1.0	16.9	1.74

Table 4.4.

Seed composition data for USDA soybean germplasm in maturity groups
III and IV, PI 427.136 to PI 445.845, grown at Urbana, IL

Entry	Matur- ity group	Seed composition		Oil composition					
		Oil (%)	Protein (%)	Pal- mitic (%)	Stearic (%)	Oleic (%)	Lino- leic (%)	Lino- lenic (%)	Other (%)
438.496C	IV	14.1	47.3	12.2	2.6	14.6	58.8	11.5	0.0
438.497	III	16.2	44.2	11.5	2.1	18.4	56.7	11.3	0.0
438.498	IV	15.8	43.2	11.9	2.6	18.2	55.6	11.6	0.0
438.499	III	15.0	44.7	12.0	2.6	18.2	56.3	10.8	0.0
438.500	III	17.5	42.6	11.4	2.9	21.8	55.7	8.0	0.0
438.501	III	Tested in and reported with the group II evaluation.							
438.503B	III	Tested in and reported with the group II evaluation.							
438.503C	III	Tested in and reported with the group II evaluation.							
438.507C	IV	17.4	42.2	11.7	3.1	20.7	54.6	9.7	0.0
438.508	III	18.0	44.9	12.2	3.1	21.8	54.8	7.9	0.0
442.005	IV	15.5	46.4	11.1	3.6	19.8	56.2	9.1	0.1
442.006	IV	16.7	45.0	11.5	3.4	21.4	55.1	8.5	0.0
442.007A	IV	16.8	44.5	12.9	3.3	18.9	55.7	9.1	0.0
442.007B	IV	15.5	47.7	11.6	3.3	21.0	55.2	8.8	0.0
442.008	IV	14.6	46.0	11.5	3.1	19.2	55.9	9.8	0.4
442.010	IV	16.3	46.5	12.4	3.1	21.6	55.1	7.6	0.0
442.011	IV	16.6	46.4	12.4	3.0	22.1	54.1	8.3	0.0
442.012A	IV	17.1	44.4	12.1	2.7	21.7	54.5	8.9	0.1
442.012B	IV	16.8	44.2	12.4	2.8	20.4	55.0	8.8	0.5
442.013	IV	17.5	44.7	11.7	3.0	22.3	54.4	8.4	0.0
442.016	IV	16.3	45.7	12.8	2.8	21.2	53.8	9.1	0.1
442.018	IV	16.2	46.3	14.0	2.4	21.0	54.5	8.0	0.0
442.019	III	18.1	44.9	12.4	2.8	19.8	56.0	9.0	0.0
445.844	IV	14.6	46.1	11.8	2.7	26.6	50.6	8.2	0.0
445.845	III	13.2	50.4	12.6	2.6	25.6	49.5	9.4	0.1