

A REPORT OF THE
NATIONAL SOYBEAN VARIETY REVIEW BOARD



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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NATIONAL SOYBEAN VARIETY REVIEW BOARD
(FEBRUARY 2009)

The Association of Official Seed Certifying Agencies (AOSCA) National Soybean Variety Review Board reviewed the following varieties on February 16, 2009, at the St. Louis Westport Hotel, St. Louis, Missouri. The Board recommended the inclusion of these varieties for certification. Seed of these varieties may be certified, providing production meets all standards of the Certifying Agency of the jurisdiction in which the seed is grown.

All variety information, including descriptions, claims, and research data to support any claim, was supplied to the National Soybean Variety Review Board by the applicants. The National Soybean Variety Review Board makes judgments regarding recommendation of varieties included in this report for inclusion into certification based on the data supplied. Beyond this, the National Soybean Variety Review Board takes no position on the accuracy or truthfulness of any description or claim made by the applicants.

Further information on current procedures, application forms, details regarding the National Soybean Variety Review Board, can be obtained from:

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Respectively submitted,

John Armstrong, Chair
National Soybean Variety Review Board

2009 AOSCA SOYBEAN NVRB

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Variety name: MK 0508 Experimental name BPR06-321
Applicant Bio Plant Research

1. MK 0508 is a selection from the cross Nornatto x 3206. It was selected for small seed size, yellow hila, and improved yield.
2. MK 0508 is a small seeded variety adapted to areas planting group 0 maturities. Testing was performed in eastern North Dakota and northwestern Minnesota and will be for sale in these areas.
3. MK 0508 is moderately resistant to iron chlorosis on calcareous soils
4.

Plant type: Intermediate	Hypocotyl color: Green
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 0.6	Flower color: White
Leaf shape: Lanceolate	Mature pod color: Tan
Seed shape: Spherical flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Yellow
Herbicide resistance: None	

Variants and other identifying characteristics: Purple flowers, black seeds, brown seeds all < 1/10,000 plants
5. Foundation, registered, and certified class will be recognized. Bio Plant Research will be responsible for maintaining the variety and may license registered and certified seed production from foundation seed produced by Bio Plant Research. Breeder seed production was sufficient to last for the life of the variety. If new breeder seed is required Bio Plant Research will re-generate by plant rowing and screening for variants and impurities.
6. Certified seed will likely be available for the 2010 growing season.
7. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
8. Certified seed production acreage may not be published by AOSCA.



Variety name: HS 02R28 Experimental name T54028RR
Applicant Hyland Seeds

1. HS 02R28 was developed using bulk pedigree selection up through the F3 generation. Then plan to row was used up through and including f* generation.
2. HS 02R28 is an early group 0 maturity soybean developed and adapted to the northern tier of North Dakota, Minnesota, and Michigan. Primarily to be used for the profitable production of commercial crush soybeans.
3. HS 02R28 tested and advanced under normal environmental pressures, including aphid infestation, opportunity disease selection, and climate conditions at 48 degrees north latitude. It has a better than average ability to establish stand under cooler northern spring conditions.
4.

Plant type: Intermediate	Hypocotyl color: Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating: 0.2	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Tan
Seed shape: Spherical	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Brown
Herbicide resistance: Round Ready	
Variants and other identifying characteristics: <1% late, tall, gray off-types	
5. Certified Seed will be the only class recognized, with Hyland Seed responsible. Breeder seed is maintained with third party produce (Hanson Seed), a recognized MCIA seed producer. At this time, variety is not subject royalty, production, or stewardship agreements.
6. March, 2009
7. No application for PVP will be submitted.
8. Do not publish seed production acreage.



Variety name: IA1024 Experimental name A06-816003
Applicant Iowa State University Research Foundation, Inc.

1. IA1024 is a F₃ plant selection from the cross 99294 X IA2066. Seeds with less than 7.5% saturate acid were selected for further evaluation throughout the development history.
2. IA1024 will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA1024 has not been tested against soybean diseases. It is susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 1.9	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: none	

Variants and other identifying characteristics: IA1024 has about 7% palmitic + stearic acids compared with about 15% palmitic + stearic acids in conventional varieties. Seed must meet genetic purity standards and have a palmitic + stearic acids content of less than 8% to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA1024 is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA2053LF Experimental name IA2053LF
Applicant Iowa State University Research Foundation, Inc.

1. IA2053LF is made up of 16 BC₃F₃-derived lines with uniform agronomic and seed characteristics obtained by backcrossing into IA2053 the lx₁, lx₂, and lx₃ alleles that control the absence of three lipoxygenase isozymes. The source of the lx₁, lx₂, and lx₃ alleles was IA2042LF. IA2042LF is a lipoxygenase-free variety developed by Iowa State University. IA2053 is a large-seeded, high-protein variety developed by Iowa State University. Seeds lacking the three isozymes of lipoxygenase were selected for further evaluation throughout the development history.
2. IA2053LF will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA2053LF has not been tested against soybean diseases.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 2.9	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: None	
Variants and other identifying characteristics: IA2053LF is a large-seed, high-protein variety that lacks the three isozymes of lipoxygenase.	
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA2053LF is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA2095 Experimental name A05-215007
Applicant Iowa State University Research Foundation, Inc.

1. IA2095 is a F₃ plant selection from the cross S16-Y6 X IA2066. Seeds with less than 7.5% saturate acid were selected for further evaluation throughout the development history.
2. IA2095 will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA2095 has not been tested against soybean diseases. It is susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 2.2	Flower color: purple
Leaf shape: ovate	Mature pod color: tan
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: none	

Variants and other identifying characteristics: IA2095 has about 7% palmitic + stearic acids compared with about 15% palmitic + stearic acids in conventional varieties. Seed must meet genetic purity standards and have a palmitic + stearic acids content of less than 8% to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA2095 is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA2096 Experimental name A06-715003
Applicant Iowa State University Research Foundation, Inc.

1. IA2096 is a F₃ plant selection from the cross 99345 x IA2064. Seeds with less than 1.5% linolenic acid were selected for further evaluation throughout the development history.
2. IA2096 will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA2096 has not been tested against soybean diseases. It is moderately susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: green
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 2.0	Flower color: white
Leaf shape: ovate	Mature pod color: brown
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: none	

Variants and other identifying characteristics: IA2096 has about 1.3% linolenic acid compared with about 7.5% linolenic acid in conventional varieties. Seed must meet genetic purity standards and have a linolenic acid content of 2% or less to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA2096 is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA2097 Experimental name A06-815026
Applicant Iowa State University Research Foundation, Inc.

1. IA2097 is a F₃ plant selection from the cross 99047 x IA3017. Seeds with less than 1.5% linolenic acid were selected for further evaluation throughout the development history.
2. IA2097 will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA2097 has not been tested against soybean diseases. It is moderately susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 2.6	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: none	

Variants and other identifying characteristics: IA2097 has about 1.3% linolenic acid compared with about 7.5% linolenic acid in conventional varieties. Seed must meet genetic purity standards and have a linolenic acid content of 2% or less to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA2097 is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA2098RR Experimental name A07-529010
Applicant Iowa State University Research Foundation, Inc.

1. IA2098RR is a F₄ plant selection from the cross IA3024 x SDX00R-039-42. Seeds with less than 1.5% linolenic acid were selected for further evaluation throughout the development history.
2. IA2098RR will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.
3. IA2098RR has not been tested against soybean diseases.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: gray
Relative maturity rating: 2.5	Flower color: purple
Leaf shape: ovate	Mature pod color: tan
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: imperfect black
Herbicide resistance: Glyphosate	

Variants and other identifying characteristics: IA2098RR has about 1.3% linolenic acid compared with about 7.5% linolenic acid in conventional varieties. Seed must meet genetic purity standards and have a linolenic acid content of 2% or less to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA2098RR is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA3027LF Experimental name IA3027LF
Applicant Iowa State University Research Foundation, Inc.

1. IA3027LF is made up of 20 BC₃F₂-derived lines with uniform agronomic and seed characteristics obtained by backcrossing into IA3027 the lx₁, lx₂, and lx₃ alleles that control the absence of three lipoxygenase isozymes. The source of the lx₁, lx₂, and lx₃ alleles was IA2042LF, a lipoxygenase-free variety developed by Iowa State University. Seeds lacking the three isozymes of lipoxygenase were selected for further evaluation throughout the development history.
2. IA3027LF will be grown in the southern half of Iowa and similar latitudes in other parts of the United States.
3. IA3027LF has not been tested against soybean diseases. It is intermediately susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: green
Stem termination: indeterminate	Pubescence color: gray
Relative maturity rating: 3.1	Flower color: white
Leaf shape: ovate	Mature pod color: tan
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: None	
Variants and other identifying characteristics: IA3027LF is a large-seed, high-protein variety that lacks the three isozymes of lipoxygenase.	
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA3027LF is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



Variety name: IA3042 Experimental name A05-213034
Applicant Iowa State University Research Foundation, Inc.

1. IA3042 is a F₃ plant selection from the cross T-3211 X A15025B011. Seeds with less than 1.5% linolenic acid were selected for further evaluation throughout the development history.
2. IA3042 will be grown in the southern half of Iowa and similar latitudes in other parts of the United States.
3. IA3042 has not been tested against soybean diseases. It is susceptible to Iron chlorosis on calcareous soils.
4.

Plant type: intermediate	Hypocotyl color: green
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 3.0	Flower color: white
Leaf shape: ovate	Mature pod color: tan
Seed shape: elongate	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: brown
Herbicide resistance: none	

Variants and other identifying characteristics: IA3042 has about 1.3% linolenic acid compared with about 7.5% linolenic acid in conventional varieties. Seed must meet genetic purity standards and have a linolenic acid content of 2% or less to be certified.
5. Foundation, Registered, and Certified are seed classes to be recognized. Iowa State University Research Foundation, Inc. is the responsible party. IA3042 is subject to collection of a royalty fee and production under a licensing agreement.
6. November 2008 the likely date that certified seed will first be offered for sale.
7. Application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Certified seed production acreage can not be published by AOSCA and certifying agencies



IA2079 (Amendment)

IA2079 has about 1.1% linolenic acid compared with about 7.5% linolenic acid in conventional varieties. IA2079 has a relative maturity of 2.3, purple flowers, light tawny pubescence, brown pods, and intermediate seed coat luster. At least 95% of the seeds have black hila and up to 5% of the seeds have brown hila. Seed must meet genetic purity standards and have a linolenic acid content of 2% or less to be certified.



Variety name: IA1008BC SCN/Phyto Experimental name IA1008BC
Applicant Iowa State University

1. IA1008BC SCN/Phyto is a BC₄F₇ plant selection from the backcross of IA1008 x IA2021. IA1008 is a selection from the cross of Northrup King S20-20 x Jack, has a high yield potential, and is resistant to the Soybean Cyst Nematode (PI 88788 source). IA2021 is a selection from the cross of Elgin 87 x Marcus, has a high yield potential, and is resistant to Phytophthora Root Rot (Rps1k gene). At F₂, 552 plants were selected and screened for Phytophthora resistance using race 3 Phytophthora. 96 lines were then selected and planted for yield and other agronomic evaluation in 1st year yield trials (1 replication, 1 location). These lines were also screened again for resistance to Phytophthora. The 34 highest yielding resistant lines were then selected from the 1st year yield trials and planted in the 2nd year yield trials (3 replications, 1 location) and once again, screened for Phytophthora resistance. 11 selections from the 2nd year yield trials were planted in the 3rd year yield trials (3 replications, 1 location) and the best of the 11 lines was entered in the Iowa State University Soybean Cyst Nematode Resistant Soybean Variety Trials (4 replications, 3 locations). At this time, IA1008BC SCN/Phyto also began purification.
2. IA1008BC SCN/Phyto is a late Group I maturity variety. It has been tested at six locations in Iowa over a three year period, including testing in the Iowa State University SCN Resistant Soybean Variety Trials where it was tested not only for agronomic traits including yield, but also screened in field for resistance to SCN. IA1008BC SCN/Phyto is a non GMO variety well suited for fields with Soybean Cyst Nematodes and Phytophthora.
3. IA1008BC SCN/Phyto is resistant to Soybean Cyst Nematodes and Phytophthora. SCN resistance is from the PI 88788 source and Phytophthora resistance is from the Rps1k gene.
4.

Plant type: intermediate	Hypocotyl color:
Stem termination: indeterminate	Pubescence color: gray
Relative maturity rating: 1.9	Flower color: white
Leaf shape: ovate	Mature pod color: tan
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color:	Mature hilum color: yellow
Herbicide resistance: No	
Variants and other identifying characteristics:	
5. Seed of IA1008BC SCN/Phyto will be produced as Foundation, Registered, and Certified seed through the Iowa State University Research Foundation, Inc. IA1008BC SCN/Phyto is subject to collection of a royalty fee and production under a licensing agreement.
6. Seed will be offered for sale by February 2009.
7. An application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Seed production acreage may be published by AOSCA and certifying agencies.



Variety name: IAR2101 SCN Experimental name AR03-161009
Applicant Silvia R. Cianzio – Iowa State University

1. IAR2101 SCN is an F₉ plant selection from a three way cross of (PI 507354 x Marcus) x IA1008. The variety was first screened for resistance to SCN in the F₄ generation. It was then selected for yield in 1st year yield trials (one replication, one location) and then again screened for resistance to SCN. After further yield testing in the 2nd and 3rd year yield trials (two replications, two locations) it was placed into the SCN Regional Testing program (two replications, seven locations). In addition to agronomic evaluation, the variety was also once again screened for resistance to SCN and IDC in the SCN Regional Test. The variety was entered for a second year into the SCN Regional Test and began purification. IAR2101SCN was then entered into the Iowa Crop Improvement Associations soybean test.
2. IAR2101 SCN is a early Group II maturity variety. It has been tested at several locations in Iowa, and additional locations in Illinois, Minnesota, Nebraska and Ontario, Canada in conjunction with the SCN Regional Test. It is a non GMO variety well suited for fields with the Soybean Cyst Nematode.
3. IAR2101 SCN derives SCN resistance from IA1008 (PI 88788 source) and PI 507354. PI 507354 is a new source of resistance which gives IAR2101 SCN a broad range of resistance. IAR2101 SCN performs moderately on soils where Iron Deficiency Chlorosis is a problem.
4.

Plant type: intermediate	Hypocotyl color: Dark Purple
Stem termination: indeterminate	Pubescence color: Gray
Relative maturity rating: 2.1	Flower color: Purple
Leaf shape: ovate	Mature pod color: Tan
Seed shape: spherical flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Buff
Herbicide resistance: No	
Variants and other identifying characteristics:	
5. Seed of IAR2101 SCN will be produced as Foundation, Registered, and Certified seed through the Iowa State University Research Foundation, Inc. IAR2101 is subject to collection of a royalty fee and production under a licensing agreement.
6. Seed will be offered for sale by February 2009.
7. An application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Seed production acreage may be published by AOSCA and certifying agencies.



Variety name: IAR3001Phyto/ SCN Experimental name A95-684043BC
Applicant Silvia R. Cianzio – Iowa State University

1. IAR3001 Phyto/SCN is a BC₄F₆ plant selection from the backcross of A95-684043 x PI 399073. A95-684043 was selected as an adequate yielding parent with two sources of unique SCN resistance. PI 399073 contains the Rps8 gene providing resistance to most known races of Phytophthora. Hybrids were confirmed by screening at crossing, F₁, F₂, and F₃ stages of development. 65 lines were planted in first year yield trials (2 replications, 2 locations) and purification began at BC₄F₄. 16 lines were selected from the first year yield trials and planted in 2nd year yield trials (3 replications, 1 location). IAR3001 Phyto/SCN was then entered into the Iowa Crop Improvement Association's soybean test.
2. IAR3001 Phyto/SCN is an early Group III maturity variety. It has been tested at four locations in Iowa over a three year period. It is a non GMO variety well suited for fields with Soybean Cyst Nematode and Phytophthora.
3. IAR3001 Phyto/SCN is resistant to Phytophthora and the Soybean Cyst Nematode. IAR3001 Phyto/SCN is one of the first public releases in which the new Phytophthora resistance gene Rps8 has been incorporated. The Rps8 gene provides a very broad spectrum Phytophthora resistance. Another unique trait of IAR3001 Phyto/SCN is SCN resistance derived from PI 438489B and PI 90363 sources of resistance.
4.

Plant type: bushy	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 3.0	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: No	
Variants and other identifying characteristics:	
5. Seed of IAR3001Phyto/ SCN will be produced as Foundation, Registered, and Certified seed through the Iowa State University Research Foundation, Inc. IAR3001Phyto/SCN is subject to collection of a royalty fee and production under a licensing agreement.
6. Seed will be offered for sale by February 2009.
7. An application will not be submitted for protection under the U.S. Plant Variety Protection Act. Relevant descriptive data (morphological only) can be supplied to the PVP database.
8. Seed production acreage may be published by AOSCA and certifying agencies.



Variety name: A1015441 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015441 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	Jan	2005	
F1	May	2005	Bulk
F2	Sep	2005	Pod Pick
F3	Feb	2006	SPS
F4	May	2006	PedRow - SPS
F5	Nov	2006	Progeny Row
F6	May	2007	Yield Testing

2. Soybean variety A1015441 is adapted to mid-group 1 growing areas.
3. Soybean variety A1015441 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1k.
4.

Plant type: Intermediate Stem termination: Indeterminate Relative maturity rating: 1.6 Leaf shape: Ovate Seed shape: Spherical Flattened Mature cotyledon color: Yellow Herbicide resistance: Glyphosate Variants and other identifying characteristics: Seed Weight: 2788 seed/ lbs	Hypocotyl color: Dark Purple Pubescence color: Tawny Flower color: Purple Mature pod color: Brown Mature seed color: Yellow Mature hilum color: Black, with up to 3% other hila
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5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015461 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015461 was developed from an initial cross of CSR1510/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Sep	2005	Pod Pick
F2	Feb	2006	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015461 is adapted to mid to late group I growing areas.
- Soybean variety A1015461 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.8	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2797 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015468 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean Variety A1015468 was developed from the initial cross of AG0803/ GM_A19788). The variety A1015468 is uniform for breeding purposes and testing. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.
Cross	Dec	2004	Pod Pick
F1	March	2005	Bulk
F2	July	2005	Bulk
F3	Dec	2005	SPS
F4	June	2006	SPS
F5	Nov	2006	Progeny Row
F6	May	2007	Yield testing

2. Soybean variety A1015468 is adapted to late maturity group I and early maturity group II growing areas.
3. Soybean variety A1015468 is resistant to glyphosate, soybean cyst nematode, *Phytophthora* root rot conferred by Rps1k.
4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.9	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	
5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If breeding line is commercialized, it will likely be first available in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area



Variety name: A1015480 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015480 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety A1015480 is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.
Cross	May	2005	Cross
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015480 is adapted in the upper midwest in early maturity group II growing areas.
- Soybean Variety A1015480 is resistant to glyphosate, soybean cyst nematodes and *Phytophthora* root rot conferred by Rps1k.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 2.0 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2838 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the breeding line is commercialized, it is expected to be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015481 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015481 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	Pod Pick
F1	Mar	2005	Bulk
F2	Jul	2005	Bulk
F3	Dec	2005	SPS
F4	Jun	2006	SPS
F5	Nov	2006	Progeny Row
F6	May	2007	Yield Testing

2. Soybean variety A1015481 is adapted to early group II growing areas.
3. Soybean variety A1015481 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1k.

4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating:2.1	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 3110 seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015486 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015486 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	Pod Pick
F1	Mar	2005	Bulk
F2	Jul	2006	Bulk
F3	Dec	2005	SPS
F4	May	2006	SPS
F5	Nov	2006	Progeny Row
F6	May	2007	Yield Testing

- Soybean variety A1015486 is adapted to early to mid group II growing areas.
- Soybean variety A1015486 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1k.

4.

Plant type: Intermediate

Stem termination: Indeterminate

Relative maturity rating:2.2

Leaf shape: Ovate

Seed shape: Spherical Flattened

Mature cotyledon color: Yellow

Herbicide resistance: Glyphosate

Variants and other identifying characteristics:

Hypocotyl color: Light Purple

Pubescence color: Tawny

Flower color: Purple

Mature pod color: Brown

Mature seed color: Yellow

Mature hilum color: Black, with up to 3% other hila

Seed Weight: 3314 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015492 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015492 was developed from an initial cross of DAK2301A2R//DKB20-52/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Mar 2005	
F1	Sep 2005	Bulk
F2	Jan 2006	Bulk
F3	May 2006	Bulk
F4	Nov 2006	Progeny Row
F5	May 2007	Yield Testing

- Soybean variety A1015492 is adapted to early to mid group II growing areas.
- Soybean variety A1015492 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating:2.3 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 3243 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015631 Experimental name _____

(SEE 2010 SOYBEAN NVRB FINAL REPORT)



Variety name: A1015634 Experimental name _____
 Applicant Monsanto Technology, LLC

1. A1015634 was developed from an initial cross of CMK0903C0R/GM_A19788. The soybean variety is uniform for breeding purposes and testing. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	Dec	2004	
F1	March	2005	SPS
F2	July	2005	SPS
F3	May	2006	SPS
F4	Oct	2006	Progeny Row
F5	May	2007	Yield testing

2. Soybean variety A1015634 is adapted to mid-group 0 growing areas.
 3. Soybean variety A1015634 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1k.

4. Plant type: Intermediate
 Stem termination: Indeterminate
 Relative maturity rating: 0.6
 Leaf shape: Ovate
 Seed shape: Spherical Flattened
 Mature cotyledon color: Yellow
 Herbicide resistance: Glyphosate
 Variants and other identifying characteristics:
- Hypocotyl color: Dark Purple
 Pubescence color: Tawny
 Flower color: Purple
 Mature pod color: Brown
 Mature seed color: Yellow
 Mature hilum color: Brown, with up to 3% other hila

Seed Weight: 1963 seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
 6. If breeding line is commercialized, it will likely first be available for sale in 2010
 7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
 8. Please do not publish the certified seed production area.



Variety name: A1015643 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015643 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yielding Testing

- Soybean variety A1015643 is adapted to mid to late group 0 rowing areas.
- Soybean variety A1015643 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1k.

- | | |
|---|------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating:0.7 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2362 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015644 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015644 was developed from an initial cross of (DFL0804A0R)/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	Bulk
F2	Jul	2005	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yielding Testing

- Soybean variety A1015644 is adapted to late group 0 growing areas.
- Soybean variety A1015644 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating:0.8 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2326 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015645 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015645 was developed from an initial cross of DKB06-51/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	Bulk
F2	July	2005	Bulk
F3	May	2005	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015645 is adapted to late group 0 growing areas.
- Soybean variety A1015645 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating:0.8	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Gray
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2637 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015655 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015655 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield testing

- Soybean variety A1015655 is adapted to late group 0 growing areas.
- Soybean variety A1015655 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 0.8 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2308seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015657 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015657 was developed from an initial cross of CMK0903C0R/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	SPS
F2	July	2005	SPS
F3	May	2005	SPS
F4	Oct	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015657 is adapted to late group 0 - early group I growing areas.
- Soybean variety A1015657 is resistant to glyphosate.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating:0.9	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Tan
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2614 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015659 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015659 was developed from an initial cross of DKB009-51/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	March	2005	Bulk
F2	July	2005	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield testing

- Soybean variety A1015659 is adapted to late group 0 growing areas.
- Soybean variety A1015659 is resistant to glyphosate.

4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating:0.9	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2251seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015661 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015661 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	SPS
F2	Jul	2005	SPS
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yielding Testing

- Soybean variety A1015661 is adapted to late group 0 growing areas.
- Soybean variety A1015661 is resistant to glyphosate, *Phytophthora* root rot conferred by Rps1k and soybean cyst nematode.

- | | |
|---|---|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating:0.9 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black, with up to 3% other hila |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2344seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015663 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015663 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield testing

2. Soybean variety A1015663 is adapted to late group 0growing areas.
3. Soybean variety A1015663 is resistant to glyphosate, *Phytophthora* root rot conferred by Rps1c and soybean cyst nematode.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating:0.9	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2296 seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto’s purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015667 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015667 was developed from an initial cross of (DFL0804A0R)/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	Bulk
F2	Jul	2005	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

2. Soybean variety A1015667 is adapted to early group 1 growing areas.
3. Soybean variety A1015667 is resistant to glyphosate and *Phytophthora* root rot conferred Rps1c.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating: 1.0	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2387seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015674 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015674 was developed from an initial cross of AP1275A*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Sep	2005	Bulk
F2	Mar	2006	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015674 is adapted to early group 1 growing areas.
- Soybean variety A1015674 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1k.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.1	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Tan
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black, with up to 3% other hila
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2994 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015862 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015862 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015862 is adapted to early group 1 growing areas.
- Soybean variety A1015862 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c. Soybean variety A1015862 is moderately resistant to soybean cyst nematode.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Light Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 1.1 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2758 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015863 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015863 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

2. Soybean variety A1015863 is adapted to early group I growing areas.
3. Soybean variety A1015863 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c. Soybean variety A1015863 is moderately resistant to soybean cyst nematode.

4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.1	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2567 seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015873 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015873 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

2. Soybean variety A1015873 is adapted to mid-group I growing areas.
3. Soybean variety A1015873 is resistant to glyphosate, *Phytophthora* root rot conferred by Rps1c, and soybean cyst nematode.

4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.3	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2703 seed/ lbs

5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto’s purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015876 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015876 was developed from an initial cross of CSR1510/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Sep	2005	Pod Pick
F2	Feb	2006	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015876 is adapted to early to mid group I growing areas.
- Soybean variety A1015876 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1k.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Light Tawny
Relative maturity rating:1.3	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 3044 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015878 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015878 was developed from an initial cross of (DFL0804A0R)/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	Bulk
F2	Jul	2005	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015878 is adapted to group 1.4 growing areas.
- Soybean variety A1015878 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|---|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating: 1.4 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black, with up to 3% other hila |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2930 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015879 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015879 was developed from an initial cross of AP1275A*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2004	
F1	Sep	2005	Bulk
F2	Mar	2006	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1015879 is adapted to mid-group I growing areas.
- Soybean variety A1015879 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1k.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating: 1.4	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2966 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015881 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015881 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	Mar	2005	Bulk
F2	Jul	2005	Bulk
F3	Jan	2006	SPS
F4	May	2006	Progeny Row
F5	Nov	2006	Bulk
F6	May	2007	Yield Testing

- Soybean variety A1015881 is adapted to mid-group I growing areas.
- Soybean variety A1015881 is resistant to glyphosate, moderately resistant to soybean cyst nematode, and *Phytophthora* root rot conferred by Rps1k.

- | | |
|---|------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating: 1.4 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2894 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015883 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015883 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015883 is adapted to mid group I growing areas.
- Soybean variety A1015883 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c. Soybean variety A1015883 is moderately resistant to soybean cyst nematode.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Light Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 1.4 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2812 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015888 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean variety A1015888 was developed from an initial cross of CRM1603C0R/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	May	2005	
F1	Sept	2005	Pod Pick
F2	Feb	2006	Bulk
F3	May	2006	SPS
F4	Nov	2006	Progeny Row
F5	May	2007	Yield Testing

2. Soybean variety A1015888 is adapted to mid-group 0 growing areas.
3. Soybean variety A1015888 is resistant to glyphosate
4.

Plant type: Intermediate Stem termination: Indeterminate Relative maturity rating: 1.4 Leaf shape: Ovate Seed shape: Spherical Flattened Mature cotyledon color: Yellow Herbicide resistance: Glyphosate Variants and other identifying characteristics: Seed Weight: 2856 seed/ lbs	Hypocotyl color: Dark Purple Pubescence color: Light Tawny Flower color: Purple Mature pod color: Tan Mature seed color: Yellow Mature hilum color: Black, with up to 3% other hila
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5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the line is commercialized, it will likely first be available for sale in 2010.
7. No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1015895 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015895 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015895 is adapted to mid- group I growing areas.
- Soybean variety A1015895 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1k. Soybean variety A1015895 is moderately resistant to soybean cyst nematode.

- | | |
|---|---|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Tawny |
| Relative maturity rating: 1.5 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Black, with up to 3% other hila |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2942 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015896 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015896 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015896 is adapted to mid- group 1 growing areas.
- Soybean variety A1015896 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Light Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 1.5 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2760 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1015897 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1015897 was developed from an initial cross of AG0803/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	May	2005	
F1	Nov	2005	SPS
F2	May	2006	Bulk/SPS
F3	Nov	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1015897 is adapted to mid group I growing areas.
- Soybean variety A1015897 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

4.

Plant type: Intermediate	Hypocotyl color: Dark Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 1.5	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2788 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1016004 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1016004 was developed from an initial cross of CAK2903L0R*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Mar	2005	
F1	Sep	2005	Bulk
F2	Jan	2006	Bulk
F3	May	2006	Bulk
F4	Nov	2007	Progeny Row
F5	May	2007	Yield Testing

- Soybean variety A1016004 is adapted to mid to late group II growing areas.
- Soybean variety A1016004 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating:2.8 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 2768 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1016036 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1016036 was developed from an initial cross of (DAK2804A0R)*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	Mar	2005	
F1	Sep	2005	SPS
F2	Mar	2006	SPS
F3	May	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1016036 is adapted to mid group II growing areas.
- Soybean variety A1016036 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1k.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating: 2.6 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 3847 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database
- Please do not publish the certified seed production area.



Variety name: A1016043 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1016043 was developed from an initial cross of (DAK2804A0R)*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Mar 2005	
F1	Sep 2005	SPS
F2	Mar 2006	SPS
F3	May 2006	Progeny Row
F4	May 2007	Yield Testing

- Soybean variety A1016043 is adapted to mid to late group II growing areas.
- Soybean variety A1016043 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.
- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating:2.8 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Brown |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |
| Seed Weight: 3088 seed/ lbs | |
- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto’s purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1016046 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1016046 was developed from an initial cross of (DAK2804A0R)*2/(GM_A19788). The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Mar	2005	
F1	Sep	2005	SPS
F2	Mar	2006	SPS
F3	May	2006	Progeny Row
F4	May	2007	Yield Testing

- Soybean variety A1016046 is adapted to mid to late group II growing areas.
- Soybean variety A1016046 is resistant to glyphosate, soybean cyst nematode and *Phytophthora* root rot conferred by Rps1c.

- | | |
|---|-------------------------------------|
| Plant type: Intermediate | Hypocotyl color: Dark Purple |
| Stem termination: Indeterminate | Pubescence color: Gray |
| Relative maturity rating:2.7 | Flower color: Purple |
| Leaf shape: Ovate | Mature pod color: Tan |
| Seed shape: Spherical Flattened | Mature seed color: Yellow |
| Mature cotyledon color: Yellow | Mature hilum color: Imperfect Black |
| Herbicide resistance: Glyphosate | |
| Variants and other identifying characteristics: | |

Seed Weight: 3027 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto’s purity and stewardship standards.
- If the line is commercialized, it will likely first be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: A1016467 Experimental name _____
 Applicant Monsanto Technology, LLC

1. Soybean Variety A1016467 was developed from the initial cross of DKB20-52/ GM_A19788). The variety A1016467 is uniform for breeding purposes and testing. The breeding history can be summarized as follows:

<i>Generation</i>	<i>Date</i>	<i>Planted</i>	<i>Description of Work Performed, e.g., Bulk, Pod Pick, SPS, Prow, PRYT, etc.</i>
Cross	Dec	2004	Cross
F1	May	2005	SPS
F2	Aug	2005	SPS
F3	Nov	2005	Progeny Row
F4	May	2006	Yield Testing
F5	May	2007	Yield Testing

2. Soybean Variety A1016467 is adapted to early maturity group II growing regions.
3. Soybean Variety A1016467 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.
4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 2.1	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Tan
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Imperfect Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	
5. Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
6. If the breeding line is commercialized, it is expected to be available for sale in 2010.
7. No applications for Plant Variety Protection are planned at this time. Please do not supply the morphological data to the PVP database.
8. Please do not publish the certified seed production area.



Variety name: A1016564 Experimental name _____
 Applicant Monsanto Technology, LLC

- Soybean variety A1016564 was developed by the initial cross of DKB08-51/ GM_A19788. The soybean variety is uniform for breeding purposes and testing. The soybean variety was selected based on agronomic performance, such as yield and disease and herbicide resistance. The breeding history can be summarized as follows:

Generation	Date	Planted	Description of Work Performed, e.g., Bulk, Pod Pick,SPS, Prow, PRYT, etc.
Cross	Dec	2004	
F1	March	2005	Bulk
F2	July	2005	Bulk
F3	May	2006	SPS
F4	Oct	2006	Progeny Row
F5	May	2007	Yield testing

- Soybean variety A1016564 is adapted to late group 0 growing regions.
- Soybean variety A1016564 is resistant to glyphosate and *Phytophthora* root rot conferred by Rps1c.

4.

Plant type: Intermediate	Hypocotyl color: Light Purple
Stem termination: Indeterminate	Pubescence color: Tawny
Relative maturity rating:0.9	Flower color: Purple
Leaf shape: Ovate	Mature pod color: Brown
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Black
Herbicide resistance: Glyphosate	
Variants and other identifying characteristics:	

Seed Weight: 2180 seed/ lbs

- Foundation, registered, and certified class of seed will be maintained by Monsanto Technology, LLC in accordance to Monsanto's purity and stewardship standards.
- If the breeding line is commercialized, it will likely be available for sale in 2010.
- No application for Plant Variety Protection is planned at this time. Please do not supply the morphological data to the PVP database.
- Please do not publish the certified seed production area.



Variety name: 91Y21 Experimental name XB12Q08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 91Y21 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 91Y21 was grown in a plant row yield trial in Minnesota in the summer of 2003. Subsequently, 91Y21 has undergone five years of extensive testing and purification.
2. 91Y21 is an early group 1 variety for eastern Canada and United States. Excellent choice for fields with a history of brown stem rot, soybean cyst nematodes, and Phytophthora.
3. Variety 91Y21 was advanced on the basis of yield, brown stem rot resistance, iron chlorosis resistance, soybean cyst nematode resistance (race 3), multi gene Phytophthora resistance, and resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: tawny
Relative maturity rating: 1.2	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: glyphosate	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 91Y21 for the 2009 growing season.
7. 91Y21 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 91Y80 Experimental name XB18E08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 91Y80 is an F4 reselection from an F2 derived line, which was advanced to the F4 generation using a modified pedigree selection system. The F4 progeny row of 91Y80 was grown in a plant row yield trial in Illinois in the summer of 2003. Subsequently, 91Y80 has undergone five years of extensive testing and purification.
2. 91Y80 is a late group 1 variety for eastern Canada and United States. Excellent choice for fields with a history of iron deficiency chlorosis, brown stem rot, soybean cyst nematodes, and Phytophthora.
3. Variety 91Y80 was advanced on the basis of yield, brown stem rot, iron chlorosis, and soybean cyst nematode resistance (race 3); Multi-gene Phytophthora resistance; and resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: green
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 1.8	Flower color: white
Leaf shape: ovate	Mature pod color: tan
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: glyphosate	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 91Y80 for the 2009 growing season.
7. 91Y80 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 92Y10 Experimental name XB21F08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 92Y10 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 92Y10 was grown in a plant row yield trial in Ontario, Canada in the summer of 2003. Subsequently, 92Y10 has undergone five years of extensive testing and purification.
2. 92Y10 is an early group 2 variety for Eastern Canada and United States. It is an excellent variety for fields with a history soybean cyst nematode and Phytophthora.
3. Variety 92Y10 was advanced on the basis of yield, soybean cyst nematode resistance (race 3), Phytophthora resistance, and resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: green
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 2.1	Flower color: white
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: glyphosate	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 92Y10 for the 2009 growing season.
7. 92Y10 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 92M22 Experimental name XB23B08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 92M22 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 92M22 was grown in a plant row yield trial in Chile in the winter of 1999/2002. Subsequently, 92M22 has undergone six years of extensive testing and purification.
2. 92M22 is an early group 2 variety for Italy & Romania.
3. Variety 92M22 was advanced on the basis of yield and lack of resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 2.2	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: brown
Herbicide resistance: none	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 92M22 for the 2009 growing season.
7. 92M22 will not be submitted for protection under the U.S. Plant Variety Protection Act, and morphological data may be supplied to the PVP database.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 92M35 Experimental name XB23M08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 92M35 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 92M35 was grown in a plant row yield trial in Minnesota in the summer 2002. Subsequently, 92M35 has undergone six years of extensive testing and purification.
2. 92M35 is a mid-group 2 variety for Europe. Excellent variety for areas where transgenic resistance to glyphosate is not allowed.
3. Variety 92M35 was advanced on the basis of yield, brown stem rot tolerance and lack of resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 2.3	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: brown
Herbicide resistance: none	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 92M35 for the 2010/2011 growing season.
7. 92M35 will not be submitted for protection under the U.S. Plant Variety Protection Act, but morphological data can be supplied to the PVP database.
8. No certified seed production acreage may be published by AOSCA or certifying agencies



Variety name: 92Y31 Experimental name XB23Q08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 92Y31 is an F5-derived line which was advanced to the F5 generation by modified single-seed descent. The F5 progeny row of 92Y31 was grown in a plant row yield trial in Ontario, Canada in the summer of 2003. Subsequently, 92Y31 has undergone five years of extensive testing and purification.
2. 92Y31 is a mid group 2 variety for Eastern Canada and United States. It is an excellent variety for fields with a history of Phytophthora and brown stem rot.
3. Variety 92Y31 was advanced on the basis of yield, brown stem rot tolerance, frogeye leaf spot tolerance, Phytophthora resistance, and resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 2.3	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: gray
Herbicide resistance: glyphosate	
Variants and other identifying characteristics: .25% Brown Hila and .5% Black Hila.	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 92Y31 for the 2009 growing season.
7. 92Y31 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 93Y13 Experimental name XB31S08
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 93Y13 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 93Y13 was grown in a plant row increase in Mexico in the winter of 2003 / 2004. Subsequently, 93Y13 has undergone five years of extensive testing and purification.
2. 93Y13 is an early group 3 variety suited for eastern Canada, and United States. Excellent choice for fields with a history of soybean cyst nematodes, frogeye leaf spot tolerance, and Phytophthora.
3. Variety 93Y13 was advanced on the basis of yield, Phytophthora resistance, soybean cyst nematode resistance (race 3), frogeye leaf spot tolerance, and resistance to Roundup® branded herbicides.
4.

Plant type: slender	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 3.1	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: glyphosate	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 93Y13 for the 2009 growing season.
7. 93Y13 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



Variety name: 93Y20 Experimental name XB34R07
Applicant Pioneer Hi-Bred International, Inc.

1. Variety 93Y20 is an F2-derived line which was advanced to the F2 generation by modified single-seed descent. The F2 progeny row of 93Y20 was grown in a plant row yield trial in Chile in the winter of 2002/2003. Subsequently, 93Y20 has undergone five seasons of extensive testing and purification in the United States.
2. 93Y20 is an early group 3 variety suited for eastern Canada, and United States. Excellent choice for fields with a history of soybean cyst nematodes, brown stem rot, and Phytophthora.
3. Variety 93Y20 advanced on the basis of yield, soybean cyst nematode resistance (Race 3), Phytophthora resistance, sudden death syndrome tolerance, brown stem rot tolerance, frogeye leaf spot tolerance, and resistance to Roundup® branded herbicides.
4.

Plant type: intermediate	Hypocotyl color: dark purple
Stem termination: indeterminate	Pubescence color: light tawny
Relative maturity rating: 3.2	Flower color: purple
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed coat color: yellow
Mature cotyledon color: yellow	Mature hilum color: black
Herbicide resistance: glyphosate	
Variants and other identifying characteristics:	
5. Pioneer Hi-Bred Int'l will maintain seed at levels equivalent to Foundation, Registered and Certified seed for customers. Royalty fees and/or production information is Pioneer Hi-Bred Int'l Confidential.
6. Pioneer Hi-Bred Int'l will sell non-certified seed of 93Y20 for the 2009 growing season.
7. 93Y20 will be submitted for protection under the U.S. Plant Variety Protection Act, and will not elect the certification option.
8. No certified seed production acreage may be published by AOSCA or certifying agencies.



CL968413 (Amendment)

CL968413 is an early MG II soybean variety with resistance to Roundup herbicide. It has the Rps1k gene for resistance to Phytophthora Root Rot. CL968413 has purple flowers, light tawny pubescence, brown podwall and a brown hilum. May contain 1% other pubescence color, 1% other podwall color and 1% other hila.



Variety name: Golden Sprout Experimental name GSG05CA-107
Applicant Unity Seed Company

1. MK 0508 is a selection from the cross Nornatto x 3206. It was selected for small seed size, yellow hila, and improved yield.
2. MK 0508 is a small seeded variety adapted to areas planting group 0 maturities. Testing was performed in eastern North Dakota and northwestern Minnesota and will be for sale in these areas.
3. Golden Sprout is intermediate to iron chlorosis on calcareous soils
4.

Plant type: Intermediate	Hypocotyl color: light Purple:Green, 3:1 ratio
Stem termination: Indeterminate	Pubescence color: Gray
Relative maturity rating: 0.7	Flower color: Purple:White, 1:1 ratio
Leaf shape: Lanceolate	Mature pod color: Tan
Seed shape: Spherical Flattened	Mature seed color: Yellow
Mature cotyledon color: Yellow	Mature hilum color: Yellow
Herbicide resistance: None	
Variants and other identifying characteristics: 1:1 ratio of Purple:White flower color	
5. Foundation, registered, and certified class will be recognized. Unity Seed Company will be responsible for maintaining the variety and may license registered and certified seed production from foundation seed produced by Unity Seed Company. Breeder seed production was sufficient to last for the life of the variety. If new breeder seed is required Unity Seed Company will re-generate by plant rowing and screening for variants and impurities.
6. Certified seed will be offered for the 2009 growing season.
7. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
8. Certified seed production acreage may not be published by AOSCA.



Variety name: MN0107 Experimental name M98-211046
Applicant University of Minnesota—Minnesota Agricultural Experiment Station

1. MN0107 is a selection from the cross MN0302 x Daksoy. It is the bulked F₅ progeny from an F₄ plant from a population that had been advanced by a modified single seed descent procedure.
2. A full season variety from 46° to 48° N latitude. The variety was tested at Crookston, Shelly, Kragnes and Morris, MN and in the Uniform Regional Test 00 locations from 2004-2006. It will be used as both a commodity and food soybean.
3. MN0107 carries the Rps1-k gene for resistance to phytophthora and is intermediate in reaction to iron deficiency chlorosis.
4.

Plant type: Intermediate	Hypocotyl color: dark purple
Stem termination: Inderminate	Pubescence color: gray
Relative maturity rating: 0.1	Flower color: purple
Leaf shape: ovate	Mature pod color: tan
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: none	
Variants and other identifying characteristics:	
Pod color is typically tan but may appear as brown depending on environmental conditions. Up to 2.0 field variants and 0.5% other hila may be present in some seed lots.	
5. The foundation, registered and certified classis of seed will be produced. The Minnesota Agricultural Experiment Station (University of Minnesota) will maintain breeders' seed. The variety will be produced under license agreement with royalty fees.
6. Certified seed will first be offered for sale in 2009.
7. No PVP application will be submitted. Descriptive data can be supplied to the PVP database.
8. Certified seed acreage should not be published by AOSCA and certifying agencies.



Variety name: MN0307SP Experimental name M00-412087
Applicant University of Minnesota—Minnesota Agricultural Experiment Station

1. MN0307SP is a selection from the cross IA2019 x MN1201SP. It is the bulked F5 progeny from an F4 plant from a population that had been advanced by a modified single seed descent procedure.
2. A fall season variety from 45° to 47° N latitude. The variety was tested at crookston, Shelly, Kragnes, Morris, Becker and Rosemount, MN.
3. MN0307SP carries the Rpsla gene for resistance to phytophthora and is intermediate in reaction to iron deficiency chlorosis.
4.

Plant type: Intermediate	Hypocotyl color: green
Stem termination: Indeterminate	Pubescence color: tawny
Relative maturity rating: 0.3	Flower color: white
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: none	

Variants and other identifying characteristics:
Up to 0.5% field variants and 0.5% other hila may be present in some seed lots.
MN0307SP has larger seed with approximately 2000 seeds per pound.
5. The foundation, registered and certified classis of seed will be produced. The Minnesota Agricultural Experiment Station (University of Minnesota) will maintain breeders' seed. The variety will be produced under license agreement with royalty fees.
6. Certified seed will first be offered in 2009.
7. No PVP application will be submitted. Descriptive data can be supplied to the PVP database.
8. Certified seed acreage should not be published by AOSCA and certifying agencies.



Variety name: MN1012SP Experimental name M99-327105
Applicant University of Minnesota—Minnesota Agricultural Experiment Station

1. MN1012SP is a selection from the cross MN0203SP x M94-227084. It is the bulked F₅ progeny from an F₄ plant from a population that had been advanced by a modified single seed descent procedure.
2. A fall season variety from 44° to 46° N latitude. The variety was tested at Morris, Becker, Rosemount, Waseca and Lamberton, MN.
3. MN1012SP carries the Rpsla gene for resistance to phytophthora. It is intermediate in reaction to iron deficiency chlorosis.
4.

Plant type: Slender	Hypocotyl color: green
Stem termination: Indeterminate	Pubescence color: gray
Relative maturity rating: 1.0	Flower color: white
Leaf shape: ovate	Mature pod color: tan
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: none	
Variants and other identifying characteristics: Up to 0.5% field variants and 0.5% other hila may be present in some seed lots.	
5. Only the foundation and certified seed classes will be produced. The Minnesota Agricultural Experiment Station (University of Minnesota) will maintain breeders' seed. The variety will be produced under license agreement with royalty fees.
6. Certified seed will first be offered in 2009.
7. No PVP application will be submitted. Descriptive data can be supplied to the PVP database.
8. Certified seed acreage should not be published by AOSCA or certifying agencies.



Variety name: MN1701CN Experimental name M00-114140
Applicant University of Minnesota—Minnesota Agricultural Experiment Station

1. MN1701CN is a selection from the cross M90-184111 x MN0902CN. It is the bulked F5 progeny of an F4 plant from a population that had been advanced by a modified single seed descent procedure.
2. A fall season variety from 43° 30' to 45° 30' N latitude. The variety was tested at Waseca, Lamberton, and Jackson, MN and at locations in 2007 and 2008 of the Northern Regional SCN Tests.
3. MN1701CN is resistant to Race 3 (HG Type 0 and 7) of soybean cyst nematode. It is intermediate in reaction to iron deficiency chlorosis.
4.

Plant type: Intermediate	Hypocotyl color: green
Stem termination: Indeterminate	Pubescence color: tawny
Relative maturity rating: 1.7	Flower color: white
Leaf shape: ovate	Mature pod color: brown
Seed shape: spherical flattened	Mature seed color: yellow
Mature cotyledon color: yellow	Mature hilum color: yellow
Herbicide resistance: none	

Variants and other identifying characteristics:
Up to 0.5% field variants and 0.5% other hila may be present in some seed lots.
5. Only the foundation, registered and certified seed classes will be produced. The Minnesota Agricultural Experiment Station (University of Minnesota) will maintain breeders' seed. The variety will be produced under license agreement with royalty fees.
6. Certified seed will first be offered for sale in 2010.
7. No PVP application will be submitted. Descriptive data can be supplied to the PVP database.
8. Certified seed acreage should not be published by AOSCA or certifying agencies.

