

A REPORT OF THE
NATIONAL SOYBEAN VARIETY REVIEW BOARD



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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NATIONAL SOYBEAN VARIETY REVIEW BOARD
(MARCH 2013)

The Association of Official Seed Certifying Agencies (AOSCA) National Soybean Variety Review Board reviewed the following varieties on March 07, 2013. 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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Respectfully submitted,

Jim Rouse, Chair
National Soybean Variety Review Board

2013 AOSCA SOYBEAN NVRB

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IA1026

Applicant: Iowa State University Research Foundation, Inc.

Variety name: IA1026

Experimental name: A09-754003

1. IA1026 is a F3 plant selection from the cross IA3042 x A04-543043. Lines with less than 1.5% linolenic acid, SCN resistance and yellow hilum were selected for further evaluation throughout the development history.

2. IA1026 will be grown in the northern half of Iowa and similar latitudes in other parts of the United States.

3. It is resistant to HG Type 0 of SCN. It is moderately susceptible to Iron chlorosis on calcareous soils.

Plant Description	Mature Seed Description
Relative maturity: <u>1.9</u>	Mature hilum color: <u>Yellow</u>
Plant type: <u>Intermediate</u>	Mature seed color: <u>Yellow</u>
Stem termination: <u>Indeterminate</u>	Seed shape: <u>Elongate</u>
Leaf shape: <u>Ovate</u>	Average Number of Seeds per pound: <u>3050</u>
Pod color (mature): <u>Brown</u>	Herbicide resistance: None
Flower color: <u>Purple</u>	
Hypocotyl color: <u>Dark Purple</u>	
Pubescence color: <u>Tawny</u>	

Variants and other identifying characteristics:

IA1026 has about 1.4% linolenic acid compared with about 7.3% 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. The Iowa State University Research Foundation, Inc. is the responsible party. Seed stocks will be maintained by roguing off-types from Foundation seed production fields. IA1026 is subject to production under a licensing agreement with the Iowa State University Research Foundation, Inc.

6. Date first offered for sale (anticipated month/year): November, 2012

7.1 Has Plant Variety Protection been applied for? No

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed?

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? Yes

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

IA3045RA12

Applicant: Iowa State University Research Foundation, Inc.

Variety name: IA3045RA12

Experimental name: IA3045RA12

1. IA3045RA12 was developed by backcrossing the Rag1 and Rag2 alleles into IA3045.

2. IA3045RA12 was tested in the southern half of Iowa and will be grown for use in the production of soyfoods in similar latitudes in other parts of the United States.

3. IA3045RA12 has not been tested against specific soybean diseases. IA3045RA12 possesses soybean aphid resistance conferred by the Rag1 and Rag2 alleles

Plant Description	Mature Seed Description
Relative maturity: <u>3.1</u>	Mature hilum color: <u>Yellow</u>
Plant type: <u>Intermediate</u>	Mature seed color: <u>Yellow</u>
Stem termination: <u>Indeterminate</u>	Seed shape: <u>Elongate</u>
Leaf shape: <u>Ovate</u>	Average Number of Seeds per pound: <u>2320</u>
Pod color (mature): <u>Tan</u>	Herbicide resistance: None
Flower color: <u>White</u>	
Hypocotyl color: <u>Green</u>	
Pubescence color: <u>Light Tawny</u>	

Variants and other identifying characteristics:

There are no other distinguishing characteristics.

5. Foundation, Registered, and Certified are seed classes to be recognized. The Iowa State University Research Foundation, Inc. is the responsible party. Seed stocks will be maintained by roguing off-types from Foundation seed production fields. IA3045RA12 is subject to production under a licensing agreement with the Iowa State University Research Foundation, Inc.

6. Date first offered for sale (anticipated month/year): November, 2012

7.1 Has Plant Variety Protection been applied for? No

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed?

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? Yes

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

IAR1901 BSR (AR08-186008)

1. IAR1901 BSR (experimental designation AR08-186008) is a late group I, BSR resistant soybean variety, intended for commodity, non-GMO, or organic markets. This line was developed by Dr. Silvia R. Cianzio of Iowa State University and is the property of the Iowa State University Research Foundation (ISURF).
2. IAR1901 BSR was selected for high yield and resistance to brown stem rot. Yield was determined by early generation yield testing and inclusion of the variety in the Northern Uniform Soybean Test. BSR resistance was determined by greenhouse screening.
3. IAR 1901 BSR was tested for yield at two locations in Iowa. The following three years, it was tested at 11 to 14 locations, throughout the Midwest and Canada, in the Northern Uniform Soybean Test.
4. IAR1901 BSR is resistant to brown stem rot, and performs especially well in soils with the disease.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1.9</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>lanceolate</u>
Hypocotyl Color:	<u>Dark Purple</u>	Pubescence Color:	<u>tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>elongated flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>none</u>		

Variants and other identifying characteristics:

IAR1901 BSR is non-GMO and was developed using standard breeding procedures. A sample of this variety was bioassay tested by the Iowa State University Seed Lab. The lab found 0.25% Roundup resistant seeds (1 in 400 seeds) in the sample. Although great care was taken in the development and purification of this variety, we cannot guarantee that this seed stock is 100% GMO free.

6. Seed of IAR1901 BSR will be produced as Foundation, Registered, and Certified seed through the Iowa State University Research Foundation, Inc. IAR1901 BSR is subject to collection of a royalty fee and production under a licensing agreement.
7. Seed will be offered for sale by February 2013.
8. 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.
9. Seed production acreage may be published by AOSCA and certifying agencies.

01045637

1. 01045637 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045637 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045637 is adapted to mid group 00 growing areas.
4. Soybean variety 01045637 disease and or pest reaction data is not currently available.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>6</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>glyphosate</u>		

Variants and other identifying characteristics:

0.07% other hilum variants/off types (buff and brown) have been observed.

- Recognized classes of 01045637 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

01045639

1. 01045639 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045639 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045639 is adapted to mid group 00 growing areas.
4. Soybean variety 01045639 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>6</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: glyphosate

Variants and other identifying characteristics: No variants have been observed.

- Recognized classes of 01045639 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

01045640

1. 01045640 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045640 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045640 is adapted to mid group 00 growing areas.
4. Soybean variety 01045640 disease and or pest reaction data is unavailable at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: Glyphosate

Variants and other identifying characteristics:

0.128% other hilum color variants/off types (gray and imperfect black) have been observed

6. Recognized classes of 01045640 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

01045642

1. 01045642 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045642 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045642 is adapted to mid group 00 growing areas.
4. Soybean variety 01045642 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: glyphosate

Variants and other identifying characteristics: 0.294% other color hilums have been observed

- Recognized classes of 01045642 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.
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01045646

1. 01045646 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045646 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045646 is adapted to later group 00 growing areas.
4. Soybean variety 01045646 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>2</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

0.334% other hilum color variants/off types (buff, gray and imperfect yellow) have been observed.

- Recognized classes of 01045646 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. Recognized classes of 01045646 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
 7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

01045647

1. 01045647 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045647 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045647 is adapted to later group 00 growing areas.
4. Soybean variety 01045647 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>2</u>
Plant Type:	<u>Bushy</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: glyphosate

0.023% other hilum color variants/off types (brown) have been observed.

6. Recognized classes of 01045647 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

01045648

1. 01045648 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety 01045648 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety 01045648 is adapted to later group 00 growing areas.
4. Soybean variety 01045648 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>1</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Gray</u>		

Herbicide Resistance: glyphosate

10.65% other hilum color variants / off types (brown) have been observed.

6. Recognized classes of 01045648 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035309

1. A1035309 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035309 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035309 is adapted to mid group 0 growing areas.
4. Soybean variety A1035309 disease and or pest reaction data is identified as susceptible to SCN Race3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Light tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		
Herbicide Resistance:	<u>glyphosate</u>		

Variants and other identifying characteristics:

Up to 0.25% black and gray hilum color variants have been observed.

6. Recognized classes of A1035309 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035310

1. A1035310 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035310 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035310 is adapted to mid group 0 growing areas.
4. Soybean variety A1035310 disease and or pest reaction data is susceptibility to SCN Race3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Light tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		

Herbicide Resistance: glyphosate

Variants and other identifying characteristics:

Up to 0.25% Black, Gray and Imperfect Black hilum color variants / off types have been observed.

- Recognized classes of A1035310 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035311

1. A103531 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A103531 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035311 is adapted to mid group 0 growing areas.
4. Soybean variety A103531 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

Up to 0.25% Imperfect black hilum color off types have been observed.

- Recognized classes of A103531 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035325

1. A1035325 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035325 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035325 is adapted to later group 0 growing areas.
4. Soybean variety V A1035325 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Indeterminate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Buff</u>		

Herbicide Resistance: glyphosate

Variants and other identifying characteristics:

Up to 0.25% imperfect black hilum color variants have been observed.

- Recognized classes of A1035325 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035329

1. A1035329 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035329 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035329 is adapted to later group 0 growing areas.
4. Soybean variety A1035329 disease and or pest reaction data is susceptibility to SCN Race 3
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Light tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

Up to 0.25% buff off type hilum colors have been observed.

6. Recognized classes of A1035329 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035341

1. A1035341 is a mid maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035341 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035341 is adapted to later group II growing areas.
4. Soybean variety A1035341 disease and or pest reaction data is moderately resistant to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Light tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

Up to 0.25% imperfect black off type hilums have been observed.

- Recognized classes of A1035341 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035445

1. A1035445 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035445 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035445 is adapted to mid group 0 growing areas
4. Soybean variety A1035445 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Gray</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

Up to 0.25% other hilum colors (brown) have been observed.

- Recognized classes of A1035445 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035446

1. A1035446 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035446 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035446 is adapted to mid group 0 growing areas.
4. Soybean variety A1035446 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Gray</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics: 0.265% other hilum color variants (yellow) have been observed.

6. Recognized classes of A1035446 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035698

1. A1035698 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035698 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035698 is adapted to later group 0 growing areas.
4. Soybean variety A1035698 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>7</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Gray</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics: 0.189% other hilum colors observed.

- Recognized classes of A1035698 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.
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A1035881

1. A1035881 is a mid maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035881 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035881 is adapted to mid group II growing areas.
4. Soybean variety A1035881 disease and or pest reaction data is susceptibility to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Light tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics: 0.09% off type hilum colors (imperfect black) have been observed.

6. Recognized classes of A1035881 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035922

1. A1035922 is a mid maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035922 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035922 is adapted to mid group II growing areas.
4. Soybean variety A1035922 disease and or pest reaction data is resistance to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>6</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics:

Up to 1.25% variant/off type hilum colors (buff and black) have been observed.

- Recognized classes of A1035922 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1035957

1. A1035957 is a mid maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1035957 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1035957 is adapted to later group II growing areas.
4. Soybean variety A1035957 disease and or pest reaction data is moderately resistance to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect black</u>		

Herbicide Resistance: Glyphosate

Variants and other identifying characteristics: No variants have been observed.

6. Recognized classes of A1035957 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1036442

1. A1036442 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1036442 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1036442 is adapted to mid group 00 growing areas.
4. Soybean variety A1036442 disease and or pest reaction data is moderate resistance to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>6</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics: 0.054% other hilum variants have been observed.

6. Recognized classes of A1036442 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1036601

1. A1036601 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1036601 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1036601 is adapted to mid group 0 growing areas.
4. Soybean variety A1036601 disease and or pest reaction data is resistance to SCN Race3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Gray</u>		

Herbicide Resistance: Glyphosate

Variants and other identifying characteristics:

0.16% other hilum variants (imperfect black) have been observed.

- Recognized classes of A1036601 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
 7. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1037394

1. A1037394 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1037394 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1037394 is adapted to mid group 0 growing areas.
4. Soybean variety A1037394 disease and or pest reaction data is moderate resistance to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: Glyphosate

Variants and other identifying characteristics: No variants have been observed.

6. Recognized classes of A1037394 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1037403

1. A1037403 is an mid maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1037403 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1037403 is adapted to mid group II growing areas.
4. Soybean variety A1037403 disease and or pest reaction data is moderate resistance to SCN Race 3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>2</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Buff</u>		

Herbicide Resistance: glyphosate

Variants and other identifying characteristics:

0.54% other hilum color variants/off types (imperfect black and black) have been observed.

Recognized classes of A1037403 are breeder, foundation, registered and certified. Monsanto

6. Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1037427

1. A1037427 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1037427 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1037427 is adapted to early group I growing areas.
4. Soybean variety A1037427 disease and or pest reaction data is moderate resistance to SCN Race3.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect black</u>		
Herbicide Resistance:	<u>glyphosate</u>		

Variants and other identifying characteristics: 0.126% other hilum have been observed.

6. Recognized classes of A1037427 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

A1037495

1. A1037495 is an early maturing Roundup Ready 2 Yield soybean variety developed by Monsanto and marketed thru its various brands or licensees.
2. Soybean Variety A1037495 was selected for glyphosate tolerance using the single plant selection method.
3. Soybean variety A1037495 is adapted to early group 00 growing areas.
4. Soybean variety A1037495 disease and or pest reaction data is not available at this time.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>00</u>	Maturity Sub-Group:	<u>3</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Green</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Glyphosate</u>		

Variants and other identifying characteristics: No variants have been observed.

6. Recognized classes of A1037495 are breeder, foundation, registered and certified. Monsanto Technology, LLC will maintain the variety in accordance to Monsanto's purity and stewardship standards.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is 2013.
8. Application for PVP is not planned at this time and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

201300041 (EXP041)

1. 201300041 is an early maturing group 0 soybean variety developed for the Japanese natto soybean market and marketed by Planter's Pride Seed Company, Ltd.

- 201300041 is a variety developed using conventional breeding procedures for the Japanese natto foods market. The variety was developed by crossing in the summer of 2008, advancing as a bulk population to the F-3, and subsequently selecting an F-3 plant and an F-4 plant from an F-3 plant row. The variety is F4 derived. 3 years of field testing was conducted from 20010-2012, and the variety has moved forward based on yield and acceptable seed quality characteristics.
- 2.

- 201300041 is a conventional soybean variety adapted to areas growing groups 0 varieties. The variety was tested in eastern North Dakota and western Minnesota. Seed will be available for sale in that area.
- 3.

4. 201300041 has not been tested against any specific biotic soybean diseases.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Lanceolet</u>
Hypocotyl Color:	<u>Green</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics: No variants observed.

- Foundation, registered, and certified seed class will be recognized. Planter's Pride Seed Company, Ltd is responsible for maintaining breeder seed stock of the variety. 201300041 is subject to collection of a royalty fee and production under a licensing agreement.
- 6.
 7. Certified seed will likely be available for the 2014 growing season.
 8. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
 9. Certified Seed production may not be published by AOSCA and certifying agencies.

201302409 (EXP409)

1. 201302409 is an early maturing group 0 soybean variety developed for the Japanese natto soybean market and marketed by Planter's Pride Seed Company, Ltd.

- 201302409 is a variety developed using conventional breeding procedures for the Japanese natto foods market. The variety was developed by crossing in the summer of 2008, advancing as a bulk population to the F-3, and subsequently selecting an F-3 plant and an F-4 plant from an F-3 plant row. The variety is F4 derived. 3 years of field testing was conducted from 20010-2012, and the variety has moved forward based on yield and acceptable seed quality characteristics.
- 2.

- 201302409 is a conventional small-seeded soybean variety adapted to areas growing groups 0 varieties. The variety was tested in eastern North Dakota and western Minnesota. Seed will be available for sale in that area.
- 3.

4. 201302409 has not been tested against any specific biotic soybean diseases.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>2</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Lanceolate</u>
Hypocotyl Color:	<u>Green and Light Purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple and White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics: Segregating for White and Purple Flower Color. Ratio 1:1

- Foundation, registered, and certified seed class will be recognized. Planter's Pride Seed Company, Ltd is responsible for maintaining breeder seed stock of the variety. 201302409 is subject to collection of a royalty fee and production under a licensing agreement.
- 6.
 7. Certified seed will likely be available for the 2014 growing season.
 8. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
 9. Certified Seed production may not be published by AOSCA and certifying agencies.

201305404 (EXP404)

1. 201305404 is an early maturing group 0 soybean variety developed for the Japanese natto soybean market and marketed by Planter's Pride Seed Company, Ltd.

201305404 is a variety developed using conventional breeding procedures for the Japanese natto foods market. The variety was developed by crossing in the summer of 2008, advancing as a bulk population to the F-3, and subsequently selecting an F-3 plant and an F-4 plant from an F-3 plant row. The variety is F4 derived. 3 years of field testing was conducted from 20010-2012, and the variety has moved forward based on yield and acceptable seed quality characteristics.

2. 201305404 is a conventional small-seeded soybean variety adapted to areas growing groups 0 varieties. The variety was tested in eastern North Dakota and western Minnesota. Seed will be available for sale in that area.
3. 201305404 has not been tested against any specific biotic soybean diseases.
4. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0.5</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Lanceolate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics: No variants observed.

5. Foundation, registered, and certified seed class will be recognized. Planter's Pride Seed Company, Ltd is responsible for maintaining breeder seed stock of the variety. 201305404 is subject to collection of a royalty fee and production under a licensing agreement.
6. Certified seed will likely be available for the 2014 growing season.
7. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
8. Certified Seed production may not be published by AOSCA and certifying agencies.

201306403 (EXP403)

1. 201306403 is an early maturing group 0 soybean variety developed for the Japanese natto soybean market and marketed by Planter's Pride Seed Company, Ltd.

- 201306403 is a variety developed using conventional breeding procedures for the Japanese natto foods market. The variety was developed by crossing in the summer of 2008, advancing as a bulk population to the F-3, and subsequently selecting an F-3 plant and an F-4 plant from an F-3 plant row. The variety is F4 derived. 3 years of field testing was conducted from 20010-2012, and the variety has moved forward based on yield and acceptable seed quality characteristics.
- 2.

- 201306403 is a conventional small-seeded soybean variety adapted to areas growing groups 0 varieties. The variety was tested in eastern North Dakota and western Minnesota. Seed will be available for sale in that area.
- 3.

4. 201306403 has not been tested against any specific biotic soybean diseases.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>6</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Lanceolate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics: No variants observed.

- Foundation, registered, and certified seed class will be recognized. Planter's Pride Seed Company, Ltd is responsible for maintaining breeder seed stock of the variety. 201306403 is subject to collection of a royalty fee and production under a licensing agreement.
- 6.
 7. Certified seed will likely be available for the 2014 growing season.
 8. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
 9. Certified Seed production may not be published by AOSCA and certifying agencies.

201309901 (EXP901)

1. 201309901 is an early maturing group 0 soybean variety developed for the Japanese natto soybean market and marketed by Planter's Pride Seed Company, Ltd.

- 201309901 is a variety developed using conventional breeding procedures for the Japanese natto foods market. The variety was developed by crossing in the summer of 2008, advancing as a bulk population to the F-3, and subsequently selecting an F-3 plant and an F-4 plant from an F-3 plant row. The variety is F4 derived. 3 years of field testing was conducted from 20010-2012, and the variety has moved forward based on yield and acceptable seed quality characteristics.
- 2.

- 201309901 is a conventional small-seeded soybean variety adapted to areas growing groups 0 varieties. The variety was tested in eastern North Dakota and western Minnesota. Seed will be available for sale in that area.
- 3.

4. 201309901 has not been tested against any specific biotic soybean diseases.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>9</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Lanceolate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics: No variants observed.

- Foundation, registered, and certified seed class will be recognized. Planter's Pride Seed Company, Ltd is responsible for maintaining breeder seed stock of the variety. 201309901 is subject to collection of a royalty fee and production under a licensing agreement.
- 6.
 7. Certified seed will likely be available for the 2014 growing season.
 8. Application for PVP protection is not planned: descriptive information may be supplied to the PVP office.
 9. Certified Seed production may not be published by AOSCA and certifying agencies.

P001T34R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P001T34R

Experimental name: XB003B12

1. Variety P001T34R was developed from the modified single seed descent method and selected based on yield, maturity, and Roundup® branded herbicides resistance.

2. P001T34R was tested in the United States and Canada. P001T34R will be well adapted for early group 00 maturity areas.

3. P001T34R is moderately resistant to iron chlorosis and has intermediate resistance to soybean cyst nematode.

	Plant Description		Mature Seed Description
4.	Relative maturity: <u>00.1</u>		Mature hilum color: <u>Brown</u>
	Plant type: <u>Slender</u>		Mature seed color: <u>Yellow</u>
	Stem termination: <u>Indeterminate</u>		Seed shape: <u>Spherical</u>
	Leaf shape: <u>Ovate</u>		Average Number of Seeds per pound: <u>3,250</u>
	Pod color (mature): <u>Brown</u>		Herbicide resistance: <u>RR1</u>
	Flower color: <u>White</u>		
	Hypocotyl color: <u>Green</u>		
	Pubescence color: <u>Tawny</u>		

Variants and other identifying characteristics:

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

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| 6. | Date first offered for sale (anticipated month/year): | <u>Mar-13</u> |
| 7.1 | Has Plant Variety Protection been applied for? | <u>Yes</u> |
| 7.2 | If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? | <u>No</u> |
| 7.3 | May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? | <u>No</u> |
| 8. | Do you want the acreage certified each year to be published by AOSCA and certifying agencies? | <u>No</u> |

P002T04R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P002T04R

Experimental name: XB003A12

1. Variety P002T04R was developed from the modified single seed descent method and selected based on yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P002T04R was tested in the United States and Canada. P002T04R will be well adapted for early group 00 maturity areas with the need for Phytophthora resistance.

3. P002T04R is resistant to Phytophthora races 4, 5, 7, moderate resistance to iron chlorosis, and intermediate resistance to soybean cyst nematode.

	Plant Description		Mature Seed Description
4.	Relative maturity: <u>00.2</u>		Mature hilum color: <u>Imperfect Yellow</u>
	Plant type: <u>Intermediate</u>		Mature seed color: <u>Yellow</u>
	Stem termination: <u>Indeterminate</u>		Seed shape: <u>Elongate</u>
	Leaf shape: <u>Ovate</u>		Average Number of Seeds per pound: <u>3,050</u>
	Pod color (mature): <u>Brown</u>		Herbicide resistance: <u>RR1</u>
	Flower color: <u>Purple</u>		
	Hypocotyl color: <u>Light Purple</u>		
	Pubescence color: <u>Tawny</u>		

Variants and other identifying characteristics:

Under certain environmental conditions some plants of P002T04R may appear light tawny.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

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| 6. | Date first offered for sale (anticipated month/year): | <u>Mar-13</u> |
| 7.1 | Has Plant Variety Protection been applied for? | <u>Yes</u> |
| 7.2 | If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? | <u>No</u> |
| 7.3 | May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? | <u>No</u> |
| 8. | Do you want the acreage certified each year to be published by AOSCA and certifying agencies? | <u>No</u> |

P008T57R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P008T57R

Experimental name: XB008J12

1. Variety P008T57R was developed from the modified single seed descent method and selected based on yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P008T57R was tested in the United States and Canada. P008T57R will be well adapted for late group 00 maturity areas with a need for Phytophthora resistance.

3. P008T57R is resistant to Phytophthora races 4,5,7 and has moderate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>00.8</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Tan</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Dark Purple</u>
Pubescence color:	<u>Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Elongate</u>
Average Number of Seeds per pound	<u>3,000</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P01T23R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P01T23R

Experimental name: XB00N12

1. Variety P01T23R was developed from the modified single seed descent method and selected for yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P01T23R was tested in the United States and Canada. P01T23R will be well adapted for early group 0 maturity areas with the need for Phytophthora resistance.

3. P01T23R is resistant to Phytophthora races 1 and 7 and has moderate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>00.1</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Brown</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Dark Purple</u>
Pubescence color:	<u>Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Elongate</u>
Average Number of Seeds per pound	<u>2,800</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P05T24R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P05T24R

Experimental name: XB04A12

1. Variety P05T24R was developed from the modified single seed descent method and selected for yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P05T24R was tested in the United States and Canada. P05T24R will be well adapted for mid group 0 maturity areas with the need for Phytophthora resistance.

3. P05T24R is resistant to Phytophthora races 1, 4, 7 and has intermediate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>0.5</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Tan</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Dark Purple</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Elongate</u>
Average Number of Seeds per pound	<u>2,650</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

P05T24R may have up to 2% off-type black hila.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P06T64R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P06T64R

Experimental name: XB05Y12

1. Variety P06T64R was developed from the modified single seed descent method and selected based on yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P06T64R was tested in the United States and Canada. P06T64R will be well adapted for mid group 0 maturity areas with the need for Phytophthora resistance.

3. P06T64R is resistant to Phytophthora races 1 and 7 and has moderate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>0.6</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Tan</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Light Purple</u>
Pubescence color:	<u>Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Black</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Elongate</u>
Average Number of Seeds per pound	<u>2,950</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

P06T64R may contain up to 1% brown or 1% tan off-type hila color.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P10T91R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P10T91R

Experimental name: XB10A12

1. Variety P10T91R was developed from modified single seed descent method and yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P10T91R was tested in the United States and Canada. P10T91R will be well adapted for early group I maturity areas with a need for soybean cyst nematode and Phytophthora resistance.

3. P10T91R is resistant to Phytophthora races 1, 4, 7, resistant to soybean cyst nematode races 3,14, and has moderate resistance to iron chlorosis on calcareous soils.

4. **Plant Description**

Relative maturity:	<u>1.0</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Brown</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Dark Purple</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Spherical</u>
Average Number of Seeds per pound	<u>2,750</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

Under certain environmental conditions some plants of PT10T91R may appear to have gray pubescence. PT10T91R may have up to 2% gray off-type hila and pubescence.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P16T04R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P16T04R

Experimental name: XB17Q12

1.

Variety P16T04R was developed from the modified single seed descent method and selected based on yield, maturity, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.
2.

P16T04R was tested in the United States and Canada. P16T04R will be well adapted for mid group I areas with the need for Phytophthora resistance.
3.

P16T04R is resistant to Phytophthora races 1, 4, 7 and has moderate resistance to iron chlorosis.

	Plant Description		Mature Seed Description
4.	Relative maturity: <u>1.6</u>		Mature hilum color: <u>Brown</u>
	Plant type: <u>Slender</u>		Mature seed color: <u>Yellow</u>
	Stem termination: <u>Indeterminate</u>		Seed shape: <u>Elongate</u>
	Leaf shape: <u>Ovate</u>		Average Number of Seeds per pound: <u>2,600</u>
	Pod color (mature): <u>Tan</u>		Herbicide resistance: <u>RR1</u>
	Flower color: <u>Purple</u>		
	Hypocotyl color: <u>Dark Purple</u>		
	Pubescence color: <u>Light Tawny</u>		

Variants and other identifying characteristics:

Under certain environmental conditions some plants of P16T04R may have hila that appear tan in color. P16T04R may contain up to 2% off-type Black hila off-type hila.

5.

DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.
6. Date first offered for sale (anticipated month/year): Mar-13
- 7.1 Has Plant Variety Protection been applied for? Yes
- 7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No
- 7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No
8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P19T01R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P19T01R

Experimental name: XB19D12

1. Variety P19T01R was developed from the modified single seed descent method and selected based on yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P19T01R was tested in the United States and Canada. P19T01R will be well adapted for late group I maturity areas with the need for soybean cyst nematode and Phytophthora resistance.

3. P19T01R is resistant to Phytophthora races 1, 4, 7, resistant to soybean cyst nematode races 3,14, and has moderate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>1.9</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Brown</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Dark Purple</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Spherical</u>
Average Number of Seeds per pound	<u>2,700</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

PT19T01R may contain up to 2% off-type black hila.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P19T60R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P19T60R

Experimental name: XB19C12

1. Variety P19T60R was developed from the modified single seed descent method and selected based on yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P19T60R was tested in the United States and Canada. P19T60R will be well adapted for late group I maturity areas with the need for soybean cyst nematode and Phytophthora resistance.

3. P19T60R is resistant to Phytophthora races 1, 7, soybean cyst nematode races 3,14, and has intermediate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>1.9</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Brown</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Light Purple</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Black</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Spherical</u>
Average Number of Seeds per pound	<u>3,000</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

PT19T60R may contain up to 2% off-type brown hila and 1% yellow hila.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P22T69R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P22T69R

Experimental name: XB22K12

1. Variety P22T69R was developed from the modified single seed descent method and selected based on yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, frogeye leaf spot resistance, and Roundup® branded herbicides resistance.

2. P22T69R was tested in the United States and Canada. P22T69R will be well adapted to early group II maturity areas with the need for soybean cyst nematode, Phytophthora, and frogeye leaf spot resistance.

3. P22T69R is resistant to Phytophthora races 1, 4, 7, soybean cyst nematode races 1,3,5, frogeye leaf spot, and has intermediate resistance to iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>2.2</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Brown</u>
Flower color:	<u>Purple</u>
Hypocotyl color:	<u>Light Purple</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Black</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Spherical</u>
Average Number of Seeds per pound	<u>3,000</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

Under certain environmental conditions the pubescence color of P22T69R may range from near gray to light tawny to a faint tawny. Under certain environmental conditions the hila color can range from light black to a very dark brown.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P24T19R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P24T19R

Experimental name: XB25E12

1.

Variety P24T19R was developed from the modified single seed descent method and selected based on yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.
2.

P24T19R was tested in the United States and Canada. P24T19R will be well adapted for mid group II maturity areas with the need for soybean cyst nematode and Phytophthora resistance.
3.

P24T19R is resistant to Phytophthora races 1, 4, 7, soybean cyst nematode races 3,14, and is moderately resistant to frogeye leaf spot and iron chlorosis.

	Plant Description	Mature Seed Description
4.	Relative maturity: <u>2.4</u>	Mature hilum color: <u>Buff</u>
	Plant type: <u>Intermediate</u>	Mature seed color: <u>Yellow</u>
	Stem termination: <u>Indeterminate</u>	Seed shape: <u>Spherical</u>
	Leaf shape: <u>Ovate</u>	Average Number of Seeds per pound: <u>2,900</u>
	Pod color (mature): <u>Brown</u>	Herbicide resistance: <u>RR1</u>
	Flower color: <u>Purple</u>	
	Hypocotyl color: <u>Light Purple</u>	
	Pubescence color: <u>Gray</u>	

Variants and other identifying characteristics:

Under certain environmental conditions the hila color of P24T19R can range from light brown to buff to imperfect black on the same plant. Up to 3% black off-types hila were observed however no light tawny or tawny plants were observed but are possible.

5.

DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.
6. Date first offered for sale (anticipated month/year): Mar-13
- 7.1 Has Plant Variety Protection been applied for? Yes
- 7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No
- 7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No
8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P25T51R

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P25T51R

Experimental name: XB26W12

1. Variety P25T51R was developed from the modified single seed descent method and selected based on yield, maturity, soybean cyst nematode resistance, Phytophthora sojae resistance, and Roundup® branded herbicides resistance.

2. P25T51R was tested in the United States and Canada. P25T51R will be well adapted for mid group II maturity areas with the need for soybean cyst and Phytophthora resistance.

3. P25T51R is resistant to Phytophthora races, 1, 4, 7, 25, soybean cyst nematode races 3,14, and has intermediate resistance to frogeye leaf spot and iron chlorosis.

4. **Plant Description**

Relative maturity:	<u>2.5</u>
Plant type:	<u>Intermediate</u>
Stem termination:	<u>Indeterminate</u>
Leaf shape:	<u>Ovate</u>
Pod color (mature):	<u>Tan</u>
Flower color:	<u>White</u>
Hypocotyl color:	<u>Green w/ bronze band below cotyledons</u>
Pubescence color:	<u>Light Tawny</u>

Mature Seed Description

Mature hilum color:	<u>Brown</u>
Mature seed color:	<u>Yellow</u>
Seed shape:	<u>Elongate</u>
Average Number of Seeds per pound	<u>2,800</u>
Herbicide resistance:	<u>RR1</u>

Variants and other identifying characteristics:

P25T51R may have up to 1.5% plants with tawny pubescence and or black hila off-types.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? Yes

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

P32T83L

Applicant: Pioneer Hi-Bred International, Inc

Variety name: P32T83L

Experimental name: XB31U12

1. Vareity P32T83L was developed from the single seed descent method and selected for yield, soybean cyst nematode resistance, and Liberty brand herbicide resistance.

2. P32T83L was tested in the United States and Canada. P32T83L will be well adapted for early group III maturity areas with the need for soybean cyst nematode and Liberty brand herbicide resistance.

3. P32T83L is resistant to Phytophthora race 1 & 7 and soybean cyst nematode race 3.

4. **Plant Description**

Relative maturity:	3.2
Plant type:	Intermediate
Stem termination:	Indeterminate
Leaf shape:	Ovate
Pod color (mature):	Tan
Flower color:	White
Hypocotyl color:	Green
Pubescence color:	Gray

Mature Seed Description

Mature hilum color:	Buff
Mature seed color:	Yellow
Seed shape:	Spherical
Average Number of Seeds per pound	2,750
Herbicide resistance:	Liberty Link

Variants and other identifying characteristics:

Under certain environmental conditions some plants of P32T83L may have buff hila that appear to be imperfect black. P32T83L may contain plants with up to 4% purple flowers, light tawny pubescence, and black hila.

5. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.

6. Date first offered for sale (anticipated month/year): Mar-13

7.1 Has Plant Variety Protection been applied for? No

7.2 If 7.1 is "Yes" or "Will apply", will the application specify that the variety is to be sold (Title V) by variety name only as a class of certified seed? No

7.3 May the information on this application be provided to the U.S. Plant Variety Protection Office for use in its soybean database? No

8. Do you want the acreage certified each year to be published by AOSCA and certifying agencies? No

90Y01 (XB009E11)

1. 90Y01 with experimental designation XB009E11 is an early maturity group 0 soybean variety developed and marketed by DuPont Pioneer.
2. 90Y01 was developed from the modified single seed descent method and was selected for yield, maturity, resistance to *Phytophthora*, iron chlorosis on calcareous soils, and Roundup® branded herbicides.
3. 90Y01 was tested in the United States and Canada. 90Y01 will be well adapted for early group 0 maturity areas with the need for *Phytophthora* and iron chlorosis resistance
4. 90Y01 is resistant to *Phytophthora* races 4, 5, 7 and moderately resistant to iron chlorosis on calcareous soils.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0</u>
Plant Type:	<u>Slender</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Elongate</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect Yellow</u>		
Herbicide Resistance:	<u>Glyphosate – RR1</u>		

Variants and other identifying characteristics: Up to 1% brown hila may be observed.

6. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.
7. DuPont Pioneer will sell non-certified seed of 90Y01 for the 2012 growing season in Canada and United States.
8. 90Y01 has received protection under the U.S. Plant Variety Protection Act and did not elect the certification option.
9. No certified seed production acreage may be published by AOSCA or certifying agencies.

Variety Name	<u>90Y01</u>
Experimental Designation(s)	<u>XB009E11</u>
Date NSBVRB first accepted this variety	<u>March 7, 2012</u>
Date(s) previous amendments were accepted	<u>Not applicable</u>
Date amendment submitted	<u>01/07/2013</u>

91Y81 (XB17V11)

1. 91Y81 with an experimental designation of XB17V11 is a late group 1 soybean variety developed and marketed by DuPont Pioneer.
2. 91Y81 was developed from the modified single seed descent method and selected on the basis of yield, maturity, *Phytophthora* resistance, soybean cyst nematode resistance, and Roundup® branded herbicides resistance.
3. 91Y81 was tested in the United States and Canada. 91Y81 will be well adapted for late group 1 maturity areas with the need for *Phytophthora* and soybean cyst nematode resistance.
4. 91Y81 is resistant to *Phytophthora* race 7, resistant to soybean cyst nematode race 3, resistant to brown stem rot, and intermediate resistance to iron chlorosis on calcareous soils.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Elongate</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		

Herbicide Resistance: Glyphosate – RR1

Variants and other identifying characteristics: 91Y81 has light tawny pubescence and brown hila. Under certain environmental conditions the brown hila can vary from brown, to light brown, to tan. In those environments the differences may even be seen within a single plant.

6. DuPont Pioneer will maintain seed at levels equivalent to Foundation, Registered, and Certified seed for customers. Royalty fees and/or production information is DuPont Pioneer Confidential.
7. DuPont Pioneer will sell non-certified seed of 91Y81 for the 2012 growing season in Canada and United States.
8. 91Y81 has received protection under the U.S. Plant Variety Protection Act and did not elect the certification option.
9. No certified seed production acreage may be published by AOSCA or certifying agencies.

Variety Name 91Y81

Experimental Designation(s) XB17V11

Date NSBVRB first accepted this variety March 7, 2012

Date(s) previous amendments were accepted Not applicable

Date amendment submitted 01/07/2013

AR1011118 (X2R0321)

1. AR1011118 is a mid-Group 0 Roundup Ready (RR2Y) soybean variety developed by and will be marketed by, Syngenta Canada, Inc.
2. AR1011118 was selected for early maturity and superior yield performance compared to commercial checks of similar maturity.
3. AR1011118 is to be marketed where other mid-Group 0 soybean varieties are sold.
4. AR1011118 carries the Rps 1c gene for resistance to Phytophthora Root Rot.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0.4</u>
Plant Type:	<u>Slender</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: Tolerant to glyphosate – MON89788 type tolerance

Variants and other identifying characteristics: AR1011118 has resistance to glyphosate herbicide – MON 89788 type AR1011118 was not tested in a specific herbicide tolerance trial in 2012 but has been sprayed many times, in different environments with glyphosate herbicide, in its development and found to be tolerant of this herbicide.

6. Recognized seed classes of AR1011118 are Breeder, Foundation, Registered and Certified. Syngenta will maintain variety purity with the use of plant rows to produce Breeder Seed. Syngenta will also produce all Foundation seed. No royalty or licensing agreements are anticipated.
7. AR1011118 will be commercially available in 2013.
8. Application for PVP is anticipated with the option that AR1011118 can be sold variety name only, without the option of certification.
9. Certified Seed production acreage is not to be published by AOSCA or any other seed certifying agency.

AR1011191 (X2R1021)

1. AR1011191 is a mid-Group 1 Roundup Ready (RR2Y) soybean variety developed by and will be marketed by, Syngenta Canada, Inc.
2. AR1011191 was selected for early maturity and superior yield performance compared to commercial checks of similar maturity.
3. AR1011191 is to be marketed where other mid-Group 0 soybean varieties are sold.
4. AR1011191 carries the Rps 3a gene for resistance to Phytophthora Root Rot.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1.0</u>
Plant Type:	<u>Slender</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		

Herbicide Resistance: Tolerant to glyphosate – MON89788 type tolerance

Variants and other identifying characteristics: AR1011191 has resistance to glyphosate herbicide – MON 89788 type. AR1011191 was not tested in a specific herbicide tolerance trial in 2012 but has been sprayed many times, in different environments with glyphosate herbicide, in its development and found to be tolerant of this herbicide.

6. Recognized seed classes of AR1011191 are Breeder, Foundation, Registered and Certified. Syngenta will maintain variety purity with the use of plant rows to produce Breeder Seed. Syngenta will also produce all Foundation seed. No royalty or licensing agreements are anticipated.
7. AR1011191 will be commercially available in 2013.
8. Application for PVP is anticipated with the option that AR1011191 can be sold by variety name only, without the option of certification.
9. Certified Seed production acreage is not to be published by AOSCA or any other seed certifying agency.

BN1012650 (X2R2224)

1. BN1012650 (X2R2224) is an Early Group II Roundup Ready 2 Yield soybean variety that will be marketed by Syngenta Seeds Inc.
2. BN1012650 was selected based on yield and relative maturity plus resistance to Roundup.
3. BN1012650 was tested in 28 locations in the Midwest where early group II varieties are adapted.
4. BN1012650 has Rps 1-c gene for resistance to Phytophthora root rot which gives resistance to races 1-3 and 6-10 plus other various races. BN1012650 is also resistant to race 3 of SCN.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>II</u>	Maturity Sub-Group:	<u>2.2</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green with bronze</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>RR2</u>		

Variants and other identifying characteristics:

May contain up to 0.5% other hilum, otherwise BN1012650 is uniform and stable.

- Recognized classes of BN1012650 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
6. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is December 2012.
 7. Application for PVP is anticipated. Title V option will not be selected.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

WN1012471 (X2R2020)

1. WN1012471 (X2R2020) is an Early Group II Roundup Ready 2 Yield soybean variety that will be marketed by Syngenta Seeds Inc.
2. WN1012471 was selected based on yield and relative maturity plus resistance to Roundup.
3. WN1012471 was tested in 28 locations in the Midwest where early group II varieties are adapted.

4. WN1012471 has the Rps 1-c gene for resistance to Phytophthora root rot which gives resistance to races 1-3 and 6-10 plus other various races. WN1012471 is also resistant to race 3 of Soybean Cyst Nematode and is moderately resistant to iron deficiency Chlorosis.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>II</u>	Maturity Sub-Group:	<u>2.0</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green with bronze</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>RR2</u>		

Variants and other identifying characteristics:

May contain up to 0.5% other hilum, otherwise WN1012471 is uniform and stable.

6. Recognized classes of WN1012471 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is December 2012.
8. Application for PVP is anticipated. Title V option will not be selected.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

WN1013087 (X2R2627)

1. WN1013087 (X2R2627) is an Early Group II Roundup Ready 2 Yield soybean variety that will be marketed by Syngenta Seeds Inc.
2. WN1013087 was selected based on yield and relative maturity plus resistance to Roundup.
3. WN1013087 was tested in 26 locations in the Midwest where early group II varieties are adapted.
4. WN1013087 has Rps 1-c gene for resistance to Phytophthora root rot which gives resistance to races 1-3 and 6-10 plus other various races. WN1013087 is also resistant to race 3 of SCN.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>II</u>	Maturity Sub-Group:	<u>2.5</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: RR2

Variants and other identifying characteristics:

May contain up to 0.5% other hilum, otherwise WN1013087 is uniform and stable.

6. Recognized classes of WN1013087 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is December 2012.
8. Application for PVP is anticipated. Title V option will not be selected.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

WN1013170 (X2R2828)

1. WN1013170 (X2R2828) is an Early Group II Roundup Ready 2 Yield soybean variety that will be marketed by Syngenta Seeds Inc.
2. WN1013170 was selected based on yield and relative maturity plus resistance to Roundup.
3. WN1013170 was tested in 29 locations in the Midwest where early group II varieties are adapted.

4. WN1013170 has Rps 1-c gene for resistance to Phytophthora root rot which gives resistance to races 1-3 and 6-10 plus other various races. WN1013170 is also resistant to race 3 of SCN and is moderately resistant to iron deficiency Chlorosis.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>II</u>	Maturity Sub-Group:	<u>2.8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green with bronze</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: RR2

Variants and other identifying characteristics:

May contain up to 0.5% other hilum, otherwise WN1013170 is uniform and stable.

6. Recognized classes of WN1013170 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. The likely date that certified seed will first be offered for sale if the variety is accepted as eligible for certification is December 2012.
8. Application for PVP is anticipated. Title V option will not be selected.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

NE1115163 (GS1863)

1. NE1115163 is a mid-group I Roundup Ready 2 soybean variety with the Rps3a gene for resistance to Phytophthora developed and marketed by Green Leaf Genetics.
2. NE1115163 was selected for early maturation, RR2 herbicide resistance gene and resistance to soybean cyst nematode and iron chlorosis using the single seed descent method.
3. NE1115163 was tested at 25 locations across the upper Midwest and is intended for distribution in IA, MN and SD.
4. NE1115163 carries the Rps1c gene for resistance to Phytophthora.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Indeterminate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green with bronze ring</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		

Herbicide Resistance: Mon 89788 - RR2Y

Variants and other identifying characteristics: May contain up to 0.5% brown hilum, otherwise NE1115163 is uniform and stable.

- Recognized classes of NE1115163 are breeder, foundation, registered, and certified. Syngenta
6. Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated
 7. Certified seed will likely be offered in December 2012.
 8. NE1115163 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

GO1010146 (X2R0823)

1. GO1010146 is a late group 0 Roundup-Ready 2 (RR2Y) soybean variety developed and marketed by Syngenta, Inc.
2. GO1010146 was selected for early maturation, high yield against similar maturity checks, and moderate resistance to iron deficiency chlorosis.
3. GO1010146 is to be sold commercially when other late group 0 soybeans are grown. Yield performance is good across 21 locations both low yielding and higher yielding environments.
4. GO1010146 carries the Rps1C gene for resistance to races 1, 3, and 7 of Phytophthora sojae (root rot).

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>8</u>
Plant Type:	<u>Bushy</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		

Herbicide Resistance: Mon 98788 - RR2Y

Variants and other identifying characteristics:

6. Recognized seed classes of GO1010146 are breeder, foundation, registered, and certified. Syngenta will maintain the variety by the plant-row method to produce breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. GO1010146 will be available commercially in 2013.
8. Application for PVP is anticipated with the option that GO1010146 can be sold by variety name only without the option of certification.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW0913200 (GS2000)

1. OW0913200 is a early group II Roundup Ready 2 soybean variety with the Rps1c gene for resistance to Phytophthora developed and marketed by Syngenta, Inc.
2. OW0913200 was selected for its yield performance against similar maturity checks.
3. OW0913200 was tested at 30 locations across the upper Midwest and found to be adapted in the regions tested.
4. OW0913200 carries the Rps1c gene for resistance to Phytophthora including Races 1, 2, 3, 8, 13, 15, and 28.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>2.0</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Brown</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Buff</u>		
Herbicide Resistance:	<u>Mon 89788 – RR2Y</u>		

Variants and other identifying characteristics:

May contain 0.02% other podwall, otherwise OW0913200 is uniform and stable.

6. Recognized classes of OW0913200 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. Certified seed will likely be offered in December 2012.
8. OW0913200 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW1011073 (GS0973)

1. OW1011073 is a late group 0 Roundup Ready 2 soybean variety developed and marketed by Syngenta, Inc.
2. OW1011073 was selected for its yield performance against similar maturity checks.
3. OW1011073 was tested at 20 locations across the upper Midwest and found to be adapted to the regions tested.
4. OW1011073 is heterozygous for the Phytophthora gene Rps1k.

5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0.9</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>N/A</u>
Hypocotyl Color:	<u>N/A</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		

Herbicide Resistance: Mon 89788 – RR2Y

Variants and other identifying characteristics:

May contain 0.01% other pod and hilum, otherwise OW1011073 is uniform and stable.

- Recognized classes of OW1011073 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
6. Certified seed will likely be offered in December 2012.
 8. OW1011073 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW1011829 (GS2129)

1. OW1011829 is a early group II Roundup Ready 2 soybean variety with the Rps1k gene for resistance to Phytophthora, resistance to race 3 of Soybean Cyst Nematode and moderate resistance to Iron Chlorosis developed and marketed by Syngenta, Inc.
2. OW1011829 was selected for its yield performance against similar maturity checks and its desired disease and defensive traits.
3. OW1011829 was tested at 30 locations across the upper Midwest and found to be adapted to the regions tested.
4. OW1011829 carries the Rps1k gene for resistance to Phytophthora including Races 1,2,3,4,8,13 and 15 and resistance to Race 3 of soybean cyst nematode and moderate resistance to Iron Chlorosis.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>2</u>	Maturity Sub-Group:	<u>2.1</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>N/A</u>
Hypocotyl Color:	<u>N/A</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Brown</u>		
Herbicide Resistance:	<u>Mon 89788 – RR2Y</u>		

Variants and other identifying characteristics:

May contain 0.05% other flower and pubescence, and 0.5% other hilum, otherwise OW1011829 is uniform and stable

6. Recognized classes of OW1011829 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. Certified seed will likely be offered in December 2012.
8. OW1011829 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW1012750 (X2R1423)

1. OW1012750 is a mid-group I Roundup Ready 2 soybean variety with the Rps3a gene for resistance to Phytophthora developed and marketed by Syngenta, Inc.
2. OW1012750 was selected for its yield performance against similar maturity checks.
3. OW1012750 was tested at 25 locations across the upper Midwest and found to be adapted to the regions tested.
4. OW1012750 carries the Rps3a gene for resistance to Phytophthora including races 1, 2, 3, 4, 8, 13, 25, 28, and 35.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group	<u>1.4</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Mon 89788 – RR2Y</u>		

Variants and other identifying characteristics:

May contain up to 0.5% other hilum, otherwise OW1012750 is uniform and stable.

- Recognized classes of OW1012750 are breeder, foundation, registered, and certified. Syngenta
6. Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
 7. Certified seed will likely be offered in December 2012.
 8. OW1012750 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW1012936 (X2R1825)

1. OW1012936 is a mid-late group I Roundup Ready 2 soybean variety developed and marketed by Syngenta, Inc.
2. OW1012936 was selected for its yield performance against similar maturity checks.
3. OW1012936 was tested at 58 locations across the upper Midwest and found to be adapted to the regions tested.
4. OW1012936 carries no major genes for the major soybean diseases.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1.7</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Light Purple</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Mon 89788 – RR2Y</u>		

Variants and other identifying characteristics:

May contain 0.05% other pubescence and up to 0.5% other hilum, otherwise OW1012936 is uniform and stable

- Recognized classes of OW1012936 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
6. Certified seed will likely be offered in December 2012.
 7. OW1012936 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
 8. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

OW113014 (GS1014)

1. OW1113014 is an early group 1 Roundup Ready 2 variety which carries the Rps1c gene for resistance to Phytophthora variety developed and marketed by Syngenta, Inc.
2. OW1113014 was selected for its yield performance against similar maturity checks.
3. OW1113014 was tested at 20 locations across the upper Midwest and found to be adapted to the regions tested.
4. OW1113014 carries the Rps1c gene for resistance to Phytophthora including Races 1,2,3,8,13,15 and 28.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1.0</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>N/A</u>
Hypocotyl Color:	<u>N/A</u>	Pubescence Color:	<u>Light Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical Flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>Mon 89788 – RR2Y</u>		

Variants and other identifying characteristics:

May contain 0.02% other pubescence and hilum, otherwise OW1113014 is uniform and stable.

6. Recognized classes of OW1113014 are breeder, foundation, registered, and certified. Syngenta Seeds Inc will maintain the variety and breeder seed as needed. Syngenta will also produce all foundation seed. No royalty fees or licensing agreements are anticipated.
7. Certified seed will likely be offered in December 2012.
8. OW1113014 will be submitted for protection under the U.S. Plant Variety Protection Act (subject to U.S. regulatory approval) and will not elect the certification option.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

MN1311 (M03-165068)

1. MN1311 (M03-165068) is an early maturing maturity group I (MG 1.3) variety with the *Rpslk* gene for resistance to phytophthora root rot developed by the University of Minnesota Agricultural Experiment Station. It may have use as a food type variety because of its yellow hilum.
2. MN1311 (M03-165068) was selected for maturity, standability and resistance to phtophthora root rot.
3. MN1311 (M03-165068) is adapted to 43 ° to 46 ° N latitude. M03-165068 was tested in central and southern, MN central SD, central MI and southern ON and is well adapted to soils and growing conditions of these areas.
4. MN1311 (M03-165068) has resistance to races of phytophthora root rot and carries the *Rpslk* gene.
5. Description of morphological, physiological and other identifying characteristics.

Relative Maturity Group:	<u>1</u>	Maturity Sub-Group:	<u>1.3</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green</u>	Pubescence Color:	<u>Gray</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics:

Up to 0.5% field variants and up to 0.5% other hila may be present in some seed lots.

Field variants may be flower, pod and/or pubescence color variants

Hilum color variants may be other hilum colors.

6. The University of Minnesota-Minnesota Agricultural Experiment Station will maintain breeder seed by the plant-row method. The Minnesota Crop Improvement Association (MCIA) will be responsible for foundation, registered, and certified seed classes. The variety will be licensed and royalty fees collected by the University of Minnesota with the assistance of MCIA.
7. Certified seed will be available no sooner than Spring 2015.
8. Application for PVP is not currently planned and descriptive data can be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

MN0404CN (M03-149100)

1. MN0404CN (M03-149100) is a mid-maturity maturity group 0 (MG 0.4) variety with soybean cyst nematode (SCN) resistance to HG Type 0 (race 3) developed by the University of Minnesota Agricultural Experiment Station.
2. MN0404CN (M03-149100) was selected for early maturity, resistance to phytophthora root rot (Rpslk gene), resistance to SCN HG Type 0 (race 3) and iron chlorosis using a modified single seed descent procedure.
3. MN0404CN (M03-149100) is adapted from 45 ° to 48 ° N latitude. M03-149100 was tested in central and northern Minnesota and northern South Dakota where SCN is present and is well adapted to soils and growing conditions in these areas.
4. MN0404CN (M03-149100) has resistance to races 1 and 4 of phytophthora root rot and carries the Rpslk gene and is resistant to SCN HG Type 0 (race 3).
5. Description of morphological, physiological and other identifying characteristics.

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0.4</u>
Plant Type:	<u>Slender</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Black</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics:

Up to 0.5% field variants and up to 0.5% other hila colors may be present in some seed lots. Field variants may be flower, pod and/or pubescence color variants. Hilum color variants may be other hilum colors. The hilum color may vary in intensity in some environments.

6. The University of Minnesota-Minnesota Agricultural Experiment Station will maintain breeder seed by the plant-row method. The Minnesota Crop Improvement Association (MCIA) will be responsible for foundation, registered, and certified seed classes. The variety will be licensed and royalty fees collected by the University of Minnesota with the assistance of MCIA.
7. Certified seed will be available no sooner than Spring 2015.
8. Application for PVP is not currently planned and descriptive data can be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

MN0083 (M03-158071)

1. MN0083 (M03-158071) is a late maturing maturity group 00 (MG 00.8) variety developed by the University of Minnesota Agricultural Experiment Station.
2. MN0083 (M03-158071) was selected for early maturity, good standability, resistance to phytophthora and tolerance to white mold and iron chlorosis using a modified single seed descent procedure.
3. MN0083 (M03-158071) is best adapted from 47 ° to 49 ° N latitude. It was tested in northwestern MN, ND, northern MI and central ON and is well adapted to the soils and growing conditions of these areas.
4. MN0083 (M03-158071) is resistant to races 1, 4, and 12 of phytophthora root rot and carries the *Rps6* gene. It is moderately tolerant to white mold.
5. Description of morphological, physiological and other identifying characteristics

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>00.8</u>
Plant Type:	<u>Slender</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Green</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>White</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics:

Up to 0.5% field variants and up to 0.5% other hila colors may be present in some seed lots. Field variants may be flower, pod and/or pubescence color variants. Hilum color variants may be other hilum colors.

6. The University of Minnesota Agricultural Experiment Station will maintain breeder seed by the plant-row method. The Minnesota Crop Improvement Association (MCIA) will be responsible for foundation, registered, and certified seed classes. The variety will be licensed and royalty fees collected by the University of Minnesota with the assistance of MCIA.
7. Certified seed will be available no sooner than Spring 2015.
8. Application for PVP is not currently planned and descriptive data can be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

MN0806CN (M00-355075)

1. MN0806CN (M00-355075) is a late maturing (0.8) SCN resistant variety developed by the University of Minnesota Agricultural Experiment Station.
2. MN0806CN was selected for medium maturity, good standability and resistance to SCN (HG 0) using a modified single seed descent procedure.
3. MN0806 is adapted from 44 ° to 47 ° N latitude. MN0806CN was tested under SCN conditions in west central and central Minnesota and is well adapted to soils in these areas.
4. MN0806CN is resistant to HG Type 0 (race 3) and moderately resistant to HG Type 2.5.7 (race 1) of soybean cyst nematode.
5. Description of morphological, physiological and other identifying characteristics.

Relative Maturity Group:	<u>0</u>	Maturity Sub-Group:	<u>0.8</u>
Plant Type:	<u>Intermediate</u>	Leaf Shape:	<u>Ovate</u>
Hypocotyl Color:	<u>Dark purple</u>	Pubescence Color:	<u>Tawny</u>
Cotyledon Color:	<u>Yellow</u>	Flower Color:	<u>Purple</u>
Stem Termination:	<u>Indeterminate</u>	Seed Shape:	<u>Spherical flattened</u>
Mature Pod Color:	<u>Tan</u>		
Mature Seed Coat Color:	<u>Yellow</u>		
Mature Hilum Color:	<u>Imperfect yellow</u>		
Herbicide Resistance:	<u>None</u>		

Variants and other identifying characteristics:

Up to 0.5% field variants and up to 0.5% other hila colors may be present in some seed lots. Field variants may be flower, pod and/or pubescence color variants. Hilum color variants may be other hilum colors.

6. The University of Minnesota Agricultural Experiment Station will maintain breeder seed by the plant-row method. The Minnesota Crop Improvement Association (MCIA) will be responsible for foundation and certified seed classes. The variety will be licensed and royalty fees collected by the University of Minnesota with the assistance of MCIA.
7. Certified seed will be available no sooner than Spring 2015.
8. Application for PVP is not currently planned and descriptive data can be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

09CR149117 (09CR149117)

1. 09CR149117 is an early maturing variety with strong yield and above average IDC for northern geographies marketed by Agrigenetics Inc. dba Dow AgroSciences.
2. 09CR149117 was selected for high yield in mid maturing soybean growing areas using modified single seed descent method
3. 09CR149117 was tested in WI, MN, IA, SD and is well adapted to mid maturity soybean geographies.
4. 09CR149117 has above average IDC scores.

5.

Relative maturity group: 2

Plant type: Intermediate

Hypocotyl color: Light Purple

Cotyledon color: Green

Stem termination: Indeterminate

Mature pod color: Brown

Mature seed coat color: Yellow

Mature hilum color: Imperfect Black

Herbicide resistance: Glyphosate (RR2Y)

Maturity sub-group: 2.0

Leaf shape: Ovate

Pubescence color: Gray

Flower color: Purple

Seed shape: Spherical flattened

Variants and other identifying characteristics: Up to .78% non-imperfect-black hilum, up to .60% non-gray pubescence, up to .50% late tall plants

- Recognized classes of 09CR149117 are breeder, foundation, registered, and certified.
6. Agrigenetics Inc. dba Dow AgroSciences will maintain the variety by the plant-row method to produce breeder seed as needed. Agrigenetics Inc. dba Dow AgroSciences will also produce all foundation seed.
 7. September, 2012.
 8. Application for PVP is not planned and descriptive data cannot be supplied to the PVP database.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

10CR107110

1. 10CR107110 is an early maturing variety that is resistant to Phytophthora Root Rot with gene Rps1k for northern geographies marketed by Agrigenetics, Inc. dba Dow AgroSciences.
2. 10CR107110 was selected for high yield in early maturing soybean growing areas using modified single seed descent method.
3. 10CR107110 was tested in Minnesota, Illinois, South & North Dakota, and Wisconsin and is well adapted to early maturity soybean geographies.
4. 10CR107110 has intermediate Iron Chlorosis resistance and is moderately susceptible to Soybean Cyst Nematodes of race 3.
5.

<u>Relative maturity group: 0</u>	<u>Maturity sub-group: 0.9</u>
<u>Plant type: Intermediate</u>	<u>Leaf shape: Ovate</u>
<u>Hypocotyl color: Light Purple</u>	<u>Pubescence color: Light Tawny</u>
<u>Cotyledon color: Green</u>	<u>Flower color: Purple</u>
<u>Stem termination: Indeterminate</u>	<u>Seed shape: Spherical Flattened</u>
<u>Mature pod color: Brown</u>	
<u>Mature seed coat color: Yellow</u>	
<u>Mature hilum color: Black</u>	
<u>Herbicide resistance: Glyphosate (RR2Y)</u>	

Variants and other identifying characteristics: Up to .48% non-black hilum, up to .48% non-light tawny pubescence, and up to .10% late tall plants.

Recognized classes of 10CR107110 are breeder, foundation, registered, and certified seed.
6. Agrigenetics, Inc. dba Dow AgroSciences will maintain the variety by the plant-row method to produce breeder seed as needed. Agrigenetics, Inc. dba Dow AgroSciences will also produce all foundation seed.
7. Certified seed will be available beginning in September of 2013.
8. Application for PVP is not planned and descriptive data cannot be supplied to the PVP database.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

10CR149116

1. 10CR149116 is an early maturing variety with a resistance to Phytophthora Root Rot with gene Rps1c for northern geographies marketed by Agrigenetics, Inc. dba Dow AgroSciences.
2. 10CR149116 was selected for high yield in early maturing soybean growing areas using modified single seed descent method.
3. 10CR149116 was tested in Minnesota, Illinois, South & North Dakota, and Wisconsin and is well adapted to early maturity soybean geographies.
4. 10CR149116 has a moderate resistance to Iron Chlorosis, but is susceptible to Soybean Cyst Nematodes of race 3.

5.

Relative maturity group: 1

Plant type: Intermediate

Hypocotyl color: Dark Purple

Cotyledon color: Green

Stem termination: Indeterminate

Mature pod color: Brown

Mature seed coat color: Yellow

Mature hilum color: Black

Herbicide resistance: Glyphosate (RR2Y)

Maturity sub-group: 1.3

Leaf shape: Ovate

Pubescence color: Light Tawny

Flower color: Purple

Seed shape: Spherical Flattened

Variants and other identifying characteristics: Up to .40% non-black hilum, up to .40% non-light tawny pubescence and up to .20% late tall plants.

- Recognized classes of 10CR149116 are breeder, foundation, registered, and certified seed.
6. Agrigenetics, Inc. dba Dow AgroSciences will maintain the variety by the plant-row method to produce breeder seed as needed. Agrigenetics, Inc. dba Dow AgroSciences will also produce all foundation seed.
 7. Seed will be for sale that is certified in September of 2013.
 8. Application for PVP is not planned and descriptive data cannot be supplied to the PVP database.
 9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.