Seed Guide

SOYBEANS

Johnson Lake, NE (68937)

PIONEER ® BRAND PRODUCTS	Relative Maturity	Technology Segment	Harvest Standability	Field Emergence	Phytoph. Resist. Gene	Phytoph. Field Tol.	Iron Def. Chlorosis	White Mold	Sudden Death Syndrome	SCN Race 1	SCN Race 2	SCN Race 3	SCN Race 5	SCN Race 14	Aphid Antibiosis	Canopy Width	Shattering	Plant Height for Maturity	% Protein at 13% Moisture	% Oil at 13% Moisture	Seed Size Range	Hila Color
P21A28X *	21	RR2X	7	8	1k	5	5	5	7	9	5**	9	9	3		6**	8**	5	33.4	20.6	2400-2800	BL
P22T41R2	22	RR2Y	8	7	1k	4	6	4	3	4		8	1**	4	A	5	8	4	33.3	19.5	2550-2950	IB
P24A99X *	24	RR2X	7	8	1k	5	5	4	7			7		8		4**	8**	6	34.6	19.7	2400-2800	BL
P25A12X *	25	RR2X	6	7	1c	4	4	3	5			9		8	A	5**	8**	6	34.9	18.8	3100-3500	IB
P27T59R	27	R	7	7	1k	3	5	3	5	9		9	9	3	A	6		6	33.3	20.1	2400-2800	BL
P28T71X	28	RR2X	6	7**	1c	6	4	3	5			8		8	AA	7	8**	6	34.6	18.7	2750-3150	IB
P31A22X *	31	RR2X	6	7	1k	6	4	4	8			9		8		4**	7**	5	34.4	19.5	2250-2650	BR
P31T77R	31	R	7	7	1k	5	5	6	5			8		8	A	4	8**	5	34.0	19.9	2500-2900	BR

8 products in this guide

See subsequent pages for complete definitions and disclaimers related to the product descriptions and ratings.
All scores of integrated refuge products are based upon the major component.

Soybeans:

P21A28X* (RR2X)

Relative Maturity:21

Positioning For:

MANAGEMENT COMMENTS

- RR2 Xtend Technology offers flexibility in weed control.
- Moderate tolerance to iron chlorosis.
- Peking source of SCN resistance.
- Good option for fields with a history of white mold.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Highly Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Suitable
High Residue	Highly Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Highly Suitable
Drought-Prone Soils	Suitable
Poorly Drained Soils	Highly Suitable
High PH Soils	Highly Suitable

CHARACTERISTIC SCORES

Harvest Standability	7
Field Emergence	8
Iron Def. Chlorosis	5
Plant Height for Maturity	5
Phytoph. Field Tol.	5
Canopy Width	6**
Technology Segment	RR2X
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	33.6

DISEASE & PEST PROTECTION TRAITS

White Mold	5
Sudden Death Syndrome	7
SCN Race 1	9
Brown Stem Rot Marker Predicted	MT
Iron Def. Chlorosis	FEC
Phytoph. Resist. Gene	PRR
Sudden Death Syndrome	SDS
SCN Race 1	SCN

TRAIT SCORE RATINGS: 9 = Excellent; 1 = Poor. Canopy Width: 9 = Extremely Bushy; 1 = Very Narrow. Plant Height: 9 = Tall; 1 = Short. Blank = Insufficient Data. ** Ratings denoted with a double asterisk (**) reflect preliminary data subject to change when additional data becomes available.

11BD Updated as of 01/2017

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DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend® technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend® technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with soybeans with Roundup Ready 2 Xtend® technology. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend® technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Roundup Ready 2 Xtend® is a trademark of Monsanto Technology LLC used under license. Always follow stewardship practices in accordance with the Product Use Guide (PUG) or other product-specific stewardship requirements including grain marketing and pesticide label directions. Varieties with BOLT® technology provide excellent plant-back flexibility for soybeans following application of SU (sulfonylurea) herbicides such as DuPont(TM) LeadOff® or DuPont(TM) Basis® Blend as a component of a burndown program or for double-crop soybeans following SU herbicides such as DuPont(TM) Finesse® applied to wheat the previous fall. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Glyphosate Tolerant trait (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Genuity® Roundup Ready 2 Yield® (RR2Y) trait contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Roundup® and Roundup Ready 2 Yield® are registered trademarks of Monsanto Technology LLC used under license. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Varieties with the DuPont(TM) STS® gene (STS) are tolerant to certain SU (sulfonylurea) herbicides. This technology allows post-emergent applications of DuPont(TM) Synchrony® XP and DuPont(TM) Classic® herbicides without crop injury or stress (see herbicide product labels). NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. Spraying herbicides not labeled for a specific soybean variety will result in severe plant injury or plant death. Always read and follow herbicide label directions and precautions for use. Varieties with the LibertyLink® gene (LL) are resistant to Liberty® herbicide. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of Bayer. (-) = Variety does not contain a herbicide resistant gene. P = Plenish®^ high oleic soy oil product for contract production only.

Soybeans:

P22T41R2 (RR2Y)

Relative Maturity:22

Positioning For:

MANAGEMENT COMMENTS

- Well suited for higher pH environments with known history of iron chlorosis deficiency.
- Solid option for early plant situations where SDS is not a concern.
- Canopy type suited to 30 inch rows or narrower.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Highly Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Poor Suitability
High Residue	Highly Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Poor Suitability
Drought-Prone Soils	Poor Suitability
Poorly Drained Soils	Highly Suitable
High PH Soils	Highly Suitable

CHARACTERISTIC SCORES

Harvest Standability	8
Field Emergence	7
Phytoph. Field Tol.	4
Iron Def. Chlorosis	6
Canopy Width	5
Plant Height for Maturity	4
Relative Maturity	22
Technology Segment	RR2Y
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	32.7

DISEASE & PEST PROTECTION TRAITS

White Mold	4
Sudden Death Syndrome	3
SCN Race 1	4
Brown Stem Rot	8**
Aphid Antibiosis	A
Phytoph. Resist. Gene	PRR
Iron Def. Chlorosis	FEC

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As of this printing no dicamba herbicide product has been approved for commercial in-crop use with soybeans with Roundup Ready 2 Xtend® technology. DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend technology IN 2016 unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. While no in-crop use of dicamba is currently approved, some dicamba products may be labeled for weed control prior to planting a crop and subject to minimum plant back restrictions. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with soybeans with Roundup Ready 2 Xtend technology and follow all pesticide product labeling. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Roundup Ready 2 Xtend® is a registered trademark of Monsanto Technology LLC used under license. Always follow stewardship practices in accordance with the Product Use Guide (PUG) or other product-specific stewardship requirements including grain marketing and pesticide label directions. Varieties with BOLT(TM) technology provide excellent plant-back flexibility for soybeans following application of SU (sulfonylurea) herbicides such as DuPont(TM) LeadOff® or DuPont(TM) Basis® Blend as a component of a burndown program or for double-crop soybeans following SU herbicides such as DuPont(TM) Finesse® applied to wheat the previous fall. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Glyphosate Tolerant trait (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Genuity® Roundup Ready 2 Yield® (RR2Y) trait contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Roundup® and Roundup Ready 2 Yield® are registered trademarks of Monsanto Technology LLC used under license. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Varieties with the DuPont(TM) STS® gene (STS) are tolerant to certain SU (sulfonylurea) herbicides. This technology allows post-emergent applications of DuPont(TM) Synchrony® XP and DuPont(TM) Classic® herbicides without crop injury or stress (see herbicide product labels). NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. Spraying herbicides not labeled for a specific soybean variety will result in severe plant injury or plant death. Always read and follow herbicide label directions and precautions for use. DuPont(TM), STS®, Synchrony® XP and Classic® are trademarks or registered trademarks of DuPont or its affiliates. Varieties with the LibertyLink® gene (LL) are resistant to Liberty® herbicide. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of Bayer. (-) = Variety does not contain a herbicide resistant gene. P = Plenish®^ high oleic soy oil product for contract production only.

Soybeans:

P24A99X* (RR2X)

Relative Maturity:24

Positioning For:

MANAGEMENT COMMENTS

- RR2 Xtend Technology offers flexibility in weed control.
- Good option for fields with a history of iron chlorosis.
- Strong tolerance to Sudden Death Syndrome.
- Canopy type suited to 30 inch rows or narrower.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Highly Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Highly Suitable
High Residue	Highly Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Highly Suitable
Drought-Prone Soils	Manage Appropriately
Poorly Drained Soils	Highly Suitable
High PH Soils	Highly Suitable

CHARACTERISTIC SCORES

Harvest Standability	7
Field Emergence	8
Iron Def. Chlorosis	5
Plant Height for Maturity	6
Phytoph. Field Tol.	5
Canopy Width	4**
Technology Segment	RR2X
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	34.3

DISEASE & PEST PROTECTION TRAITS

White Mold	4
Sudden Death Syndrome	7
Brown Stem Rot Marker Predicted	MT
SCN Race 1	
Iron Def. Chlorosis	FEC
Phytoph. Resist. Gene	PRR
Sudden Death Syndrome	SDS

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Soybeans:

P25A12X* (RR2X)

Relative Maturity:25

Positioning For:

MANAGEMENT COMMENTS

- RR2 Xtend Technology offers flexibility in weed control.
- Acceptable tolerance to Sudden death syndrome.
- Avoid fields with a history of white mold.
- Above average plant height and canopy width make it a good choice for dryland environments.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Suitable
High Residue	Highly Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Suitable
Drought-Prone Soils	Suitable
Poorly Drained Soils	Highly Suitable
High PH Soils	Suitable

CHARACTERISTIC SCORES

Harvest Standability	6
Field Emergence	7
Iron Def. Chlorosis	4
Plant Height for Maturity	6
Phytoph. Field Tol.	4
Canopy Width	5**
Technology Segment	RR2X
Phytoph. Resist. Gene	1c
% Protein at 13% Moisture	

DISEASE & PEST PROTECTION TRAITS

White Mold	3
Sudden Death Syndrome	5
Brown Stem Rot Marker Predicted	HT
SCN Race 1	
Phytoph. Resist. Gene	PRR

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Soybeans:

P27T59R* (R)

Relative Maturity:27

Positioning For:

MANAGEMENT COMMENTS

- Respectable Sudden Death Syndrome tolerance.
- Peking source of SCN resistance.
- Avoid fields with a history of heavy white mold pressure
- Above average plant height and canopy allow rapid row closure.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Highly Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Suitable
High Residue	Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Suitable
Drought-Prone Soils	Highly Suitable
Poorly Drained Soils	Highly Suitable
High PH Soils	Suitable

CHARACTERISTIC SCORES

Field Emergence	7
Phytoph. Field Tol.	3
Iron Def. Chlorosis	4
Canopy Width	6
Plant Height for Maturity	6
Relative Maturity	27
Technology Segment	R
Harvest Standability	7**
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	32.9

DISEASE & PEST PROTECTION TRAITS

White Mold	3
Sudden Death Syndrome	5
SCN Race 1	9
Brown Stem Rot	
Aphid Antibiosis	A
Phytoph. Resist. Gene	PRR
SCN Race 1	SCN

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Soybeans:

P28T71X (RR2X)

Relative Maturity:28

Positioning For:

MANAGEMENT COMMENTS

- Contains Roundup Ready 2 Xtend technology to give growers flexibility in herbicide options.
- Acceptable option for fields with a history of SDS.
- Favorable canopy width and plant height make it a good choice for dryland environments.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Suitable
High Residue	Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Suitable
Drought-Prone Soils	Highly Suitable
Poorly Drained Soils	Highly Suitable
High PH Soils	Suitable

CHARACTERISTIC SCORES

Harvest Standability	6
Iron Def. Chlorosis	4
Canopy Width	7
Plant Height for Maturity	6
Phytoph. Field Tol.	6
Field Emergence	7**
Technology Segment	RR2X
Phytoph. Resist. Gene	1c
% Protein at 13% Moisture	34.6

DISEASE & PEST PROTECTION TRAITS

White Mold	3
Sudden Death Syndrome	5
Brown Stem Rot Marker Predicted	HT
SCN Race 1	
Phytoph. Resist. Gene	PRR
Phytoph. Field Tol.	PFT

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11BD Updated as of 04/2017

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ROUNDUP READY 2 XTEND SOYBEANS

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Soybeans:

P31A22X* (RR2X)

Relative Maturity:31

Positioning For:

MANAGEMENT COMMENTS

- Contains Roundup Ready 2 Xtend technology to give growers flexibility in herbicide options.
- Good choice for fields with a history of Sudden Death Syndrome.
- Above average phytophthora field tolerance with strong harvest standability.
- Well suited for row spacings of 30 and narrower.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Highly Suitable
High Residue	Insufficient Data

SOILS

Early Planting/Cool Soils (w/SDS)	Highly Suitable
Drought-Prone Soils	Suitable
Poorly Drained Soils	Highly Suitable
High PH Soils	Suitable

CHARACTERISTIC SCORES

Harvest Standability	6
Field Emergence	7
Iron Def. Chlorosis	4
Plant Height for Maturity	5
Phytoph. Field Tol.	6
Canopy Width	4**
Technology Segment	RR2X
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	34.0

DISEASE & PEST PROTECTION TRAITS

White Mold	4
Sudden Death Syndrome	8
Brown Stem Rot Marker Predicted	MT
SCN Race 1	
Phytoph. Resist. Gene	PRR
Sudden Death Syndrome	SDS
Phytoph. Field Tol.	PFT

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11BD Updated as of 01/2017

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Soybeans:

P31T77R (R)

Relative Maturity:31

Positioning For:

MANAGEMENT COMMENTS

- Well suited for higher pH environments with known history of iron chlorosis deficiency.
- Solid option for early plant situations where Sudden Death Syndrome is not a concern.
- Canopy type suitable for narrow row spacing.

SUITABILITY RATINGS

KEY ENVIRONMENTS

Field Prone to Lodging	Highly Suitable

SUITABILITY

SCN-Prone Environments	Highly Suitable
SDS Prone Environments	Suitable
High Residue	Suitable

SOILS

Early Planting/Cool Soils (w/SDS)	Suitable
Drought-Prone Soils	Suitable
Poorly Drained Soils	Suitable
High PH Soils	Highly Suitable

CHARACTERISTIC SCORES

Harvest Standability	7
Field Emergence	7
Phytoph. Field Tol.	5
Iron Def. Chlorosis	5
Canopy Width	4
Plant Height for Maturity	5
Relative Maturity	31
Technology Segment	R
Phytoph. Resist. Gene	1k
% Protein at 13% Moisture	33.5

DISEASE & PEST PROTECTION TRAITS

White Mold	6
Sudden Death Syndrome	5
Brown Stem Rot	
SCN Race 1	
Aphid Antibiosis	A
Phytoph. Resist. Gene	PRR
Iron Def. Chlorosis	FEC
White Mold	WM

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11BD Updated as of 09/2016

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NUMERIC RATINGS	**9 =** Excellent; **1 =** Poor; Blank = Insufficient Data or variety not tested for that particular trait. ** Ratings denoted with a double asterisk (**) reflect preliminary data subject to change when additional data becomes available. **Note:** U.S. patents, Plant Variety Protection Act (PVPA) applications and certificates, or other limitations on use may be used to protect Pioneer soybean varieties from unauthorized growing, selling or use of the seed. These protections help assure that growers will continue to have access to new and improved varieties through the research efforts of plant scientists in the years ahead.
^EXPORT APPROVAL NOTICE	This product is fully approved in the United States and Canada. Traits included in these products may or may not be approved in all global markets; therefore, the combination of these traits and the grain and certain by-products (including oil, dried distillers grain, cobs, and husks) from THESE PRODUCTS MAY NOT BE APPROVED for all markets. Growers that use this product are required and agree to adhere to the stewardship requirements as outlined in the Pioneer Product Use Guide and product-specific Stewardship Requirements for this product, which include specific grain disposition requirements. For questions regarding product stewardship and biotech traits please contact your sales representative or refer to www.pioneer.com/stewardship. Growers are required to discuss trait acceptance and grain channeling policies with their local grain handler prior to delivering grain containing biotech traits.
TECHNOLOGY SEGMENT	Always follow stewardship practices in accordance with the Product Use Guide (PUG) or other product-specific stewardship requirements including grain marketing and pesticide label directions. Varieties with BOLT™ technology provide excellent plant-back flexibility for soybeans following application of SU (sulfonylurea) herbicides such as DuPont? LeadOff® or DuPont? Basis® Blend as a component of a burndown program or for double-crop soybeans following SU herbicides such as DuPont? Finesse® applied to wheat the previous fall. DuPont?, LeadOff®, Basis® Blend and Finesse® are trademarks or registered trademarks of DuPont or its affiliates. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the glyphosate tolerant trait (including those designated by the letter ?R? in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Genuity® Roundup Ready 2 Yield® (RR2Y) trait contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Roundup® and Roundup Ready 2 Yield® are registered trademarks of Monsanto Technology LLC used under license. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. **Varieties with the DuPont? STS® gene (STS)** are tolerant to certain SU (sulfonylurea) herbicides. This technology allows post-emergent applications of DuPont? Synchrony® XP and DuPont? Classic® herbicides without crop injury or stress (see herbicide product labels). NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. Spraying herbicides not labeled for a specific soybean variety will result in severe plant injury or plant death. Always read and follow herbicide label directions and precautions for use. DuPont?, STS®, Synchrony® XP and Classic are trademarks or registered trademarks of DuPont or its affiliates. BOLT Glyphosate Tolerant genuity ROUNDUP READY 2 YIELD SOYBEANS DuPont™ STS® herbicide tolerant gene LIBERTY LINK **Varieties with the LibertyLink® gene (LL)** are resistant to Liberty® herbicide. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of Bayer. **P =** Plenish®^ high oleic soy oil product for contract production only. (-) = Variety does not contain a herbicide resistant gene.

NUMERIC RATINGS	**9 =** Excellent; **1 =** Poor; Blank = Insufficient Data or variety not tested for that particular trait.
RELATIVE MATURITY	Shows the relative maturity group rating, with the first digit representing the general maturity group, and the second digit showing relative maturity within the group on a scale of 0 to 9, with 0 early and 9 late. For example, a soybean variety with a relative maturity rating of 17 would be a mid-late variety in Group I maturity.
FIELD EMERGENCE	Rating based on speed and strength of emergence in sub-optimal temperatures. **1-3 =** Below Average; **4-6 =** Average; **7-9 =** Excellent.
HYPOCOTYL LENGTH	Ratings based on relative length of hypocotyls, which is the portion of the seedling between the cotyledons and the root. **S** = Short; **M= Medium; L = Long.**
PHYTOPHTHORA RESISTANCE GENE	**(-)** = No specific gene for resistance. **1a =** Provides resistance to races 1-2, 10-11, 13-18, 24. **1c =** Provides resistance to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36. **1k =** Provides resistance to races 1-11, 13-15, 17, 18, 21-24, 26, 36, 37. **6 =** Provides resistance to races 1-4, 10, 12, 14-16, 18-21, 25, 28, 33-35.
PHYTOPHTHORA FIELD TOLERANCE	Varieties with high tolerance scores have demonstrated an ability to thrive in the presence of Phytophthora races to which they lack specific resistance. In some varieties, tolerance is expressed only after the early seedling growth stage, making such varieties susceptible to damping off during emergence and early seed growth.
WHITE MOLD	Scores based on Pioneer research observations of comparative white mold tolerance among various soybean varieties across multiple locations and years. All varieties are capable of developing white mold symptoms under severe infestations. To our knowledge, there are no totally resistant varieties in the industry. However, differences exist in the ability of varieties to tolerate white mold (i.e., the rate at which the infection develops and the extent of damage it causes). These scores reflect those differences.
BROWN STEM ROT MARKER PREDICTED	**HT** = Highly Tolerant; **MT** = Moderately Tolerant; **MS** = Moderately Susceptible.
SCN RESISTANCE SOURCE	There are three sources of genetic resistance to SCN currently deployed in the marketplace: PI88788; PI548402 (also known as Peking); and PI437654 (also known as Hartwig).
SOYBEAN CYST NEMATODE [SCN]	Resistance to each of the major SCN races is scored on a 1-9 scale. **9 =** Excellent resistance; **8-7** = Very good resistance; **6** = Good resistance; **5** = Average resistance; **4** = Below average resistance; **3-2** = Susceptible; **1** = Highly susceptible; to the specific race indicated.
APHID ANTIBIOSIS	A type of resistance that measures the plant?s ability to naturally reduce the rate of growth, survival and reproduction of soybean aphids on soybean plants. Antibiosis is measured by comparing the rate of aphid reproduction on different varieties. Since no varieties currently on the market offer complete resistance to aphids, growers should use these antibiosis ratings as a pest management tool (not a variety selection tool) to help determine field scouting and insecticide application priorities. ?E? = exceptional, ?AA? = above average, ?A? = average and ?BA? = below average antibiosis ratings. For example, varieties with exceptional ratings display much lower aphid reproduction compared to varieties with average and below average ratings.
CHARCOAL ROT DISEASE COMPLEX	A fungal disease that is enhanced by hot and dry conditions, especially during reproductive growth stages. Scores based on Pioneer research observations of the comparative ability to tolerate drought and limit losses from charcoal rot infection among various soybean varieties.
STEM CANKER GENE	**?9? =** provides resistance. **?5? =** provides moderate resistance. **?1? =** no specific gene for resistance.
CERCOSPORA	A fungal disease that is enhanced by wet periods followed by hot and dry conditions, especially during reproductive growth stages. Scores based on DuPont Pioneer research observations of the comparative ability to tolerate infection from the Cercospora kikuchii pathogen among various soybean products.
CHLORIDE SENSITIVITY	This score tracks the ability of the soybean variety screened for this trait to be able to grow and have normal yields in soils that have high levels of chloride salts.

CANOPY WIDTH	**9** = Extremely bushy; **1** = Very narrow.
SHATTERING	**9 =** Excellent tolerance to shattering; **1 =** Poor tolerance to shattering.
PLANT HEIGHT FOR MATURITY	**9=** Tall; **1 =** Short.
PLANT HABIT	**IND =** INDETERMINATE-type soybeans grown in Group OO-IV regions. These plants typically continue to grow as they flower, resulting in a longer pod fill time. You may find nearly mature seeds at the bottom of a plant that is still flowering at the top. **DET =** DETERMINATE soybeans grown in Group V and later maturities. These plants typically stop growing once they begin to flower, and all flowering occurs within a more defined timeframe.
FLOOD TOLERANCE	Tolerance to standing water or saturated soils which are typically found at the low end of surface irrigated fields or in the low lying areas of fields after a heavy rain event. The score is a measure of the variety?s potential to continue normal growth and photosynthesis when placed under those environmental conditions for up to one week.
% PROTEIN AT 13% MOISTURE	Compare data within table only. Values can vary widely by growing season and region.
% OIL AT 13% MOISTURE	Compare data within table only. Values can vary widely by growing season and region.
SEED SIZE RANGE	Expressed in seeds per pound under normal growing conditions. Range is calculated over multiple years and locations. Since seed size may vary by growing season and region, check the "seeds/pound" information printed on the bag for actual seed count.
FLOWER COLOR	**P =** Purple; **W =** White.
PUBESCENCE COLOR	**T =** Tawny; **G =** Gray; **L =** Light tawny.
HILA COLOR	**BL =** Black; **BR =** Brown; **TN =** Tan; **G =** ; **IB =** Imperfect black; **BF =** Buff; **Y =** Yellow (Clear).
POD COLOR	**BR =** Brown; **TN =** Tan.
SEED COAT LUSTER	**S =** Shiny; **D =** Dull; **I =** Intermediate.
U.S. GERMPLASM PATENT STATUS (as of 12/1/14)	**I =** Patent issued; **A =** Patent applied for. Pioneer brand soybean products protected by patents or containing a patented gene or trait are licensed to a purchaser solely for the purpose of producing a single commercial crop.
U.S. PLANT VARIETY PROTECTION (PVP) STATUS (as of 12/1/14)	**PVP =** Certificate issued under updated PVP Act provisions enacted in 1994 (application filed/certificate issued after April 4, 1995); **A =** PVP certificate applied for. This version of the PVP Act permits only saving and planting of seed by a grower on his own farm ? and no excess seed can be sold for planting purposes.