

47J9090 VIP3220EZREF

90 DAY

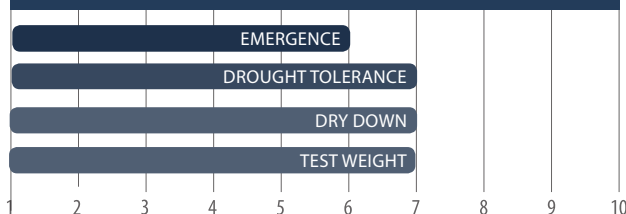
Also available as 30J190 CONV



HYBRID FEATURES

- Good stalks and above average roots
- Responds to fertility management practices
- Best performance at moderate to moderate-high plant densities
- Good choice as a dual-purpose silage option

HYBRID BENEFITS



PLACEMENT RECOMMENDATIONS

- Herbicide Tolerance: Glyphosate & Glufosinate
- Best performance when kept in maturity zone and north
- Aggressive root mass with lateral branching and deep penetrating roots
- Avoid placing in environments with known high incidence of Goss's Wilt
- May require fungicide in environments with high disease pressure
- Best performance in corn/soybean rotations due to average disease package
- Check bag tag for refuge - only those labeled as tolerant to glufosinate ammonium based herbicides

Rating Scale: 10-1; 10 = Superior, 5 = Average, 1 = Poor

Flowering: 10 = Very Early, 1 = Very Late

Plant Height: MS = Medium Short, M = Medium, MT = Medium Tall, T = Tall

Ear Height: MH = Moderately High, M = Moderate, ML = Moderately Low

Ear Type: F = Flex, S = Semi-Determinant / Semi-Flex, D = Determinant

Recommended Planting Population:

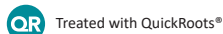
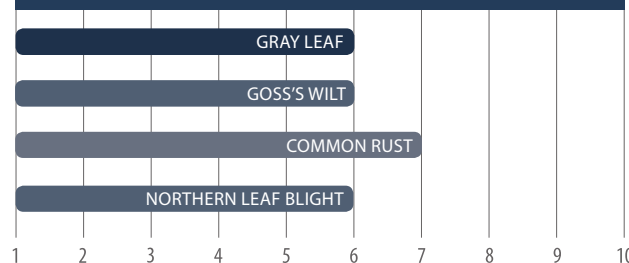
L = Low, ML = Moderately Low, M = Medium, MH = Medium High, H = High

Characteristics: HR = Highly Recommend, R = Recommend, C = Caution, N/A = Not Available

AGRONOMIC CHARACTERISTICS

Maturity Zone	3-4
Flowering	3
GDU Flowering	1350
GDU Black Layer	2250
Plant Height	MT
Ear Height	MH
Ear Type	D
Kernel Rows	16-18
Cob Color	Pink
Husk Cover	Average
Root Strength	6
Stalk Strength	7
Stay Green	7
Recommended Planting Population	ML-MH
Irrigation	HR
No-till	HR
Coarse Texture (CEC<8)	C
Medium Texture (CEC 8-14)	HR
Fine Texture (CEC>14)	R
Silage	HR
Corn on Corn	R

DISEASE TOLERANCE



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IRM - Properly managing trait technology is key to preserving it as a long term crop protection tool. Growers who fail to comply with IRM requirements risk losing access to this product. To help preserve the effectiveness of B.t. com technologies, growers planting B.t. com technologies are required to follow an IRM Plan. Consult the Com Product Use Guide for appropriate refuge configuration options.

Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, **including applicable refuge requirements for insect resistance management**, for the biotechnology traits expressed in the seed as set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.

For complete details on IRM requirements for hybrids with Bt technology, including refuge examples and important information on the use of insecticides on refuge and Bt com acres, please consult appropriate Product Use Guide. Go to www.corteva.us/Resources/traits-stewardship.html to download the latest Dow AgroSciences Com Product Use Guide.

Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include but are not limited to Genuity® Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, Genuity® Roundup Ready® spring canola, and Genuity® Roundup Ready® winter canola. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement and the Monsanto Technology Use Guide. U.S. patents for Monsanto technologies can be found at the following webpage: <http://www.monsantotech.com>

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Biotechnology Industry Organization.

B.t. products may not yet be registered in all states. Check with your representative for the registration status in your state.

IMPORTANT IRM INFORMATION: RIB Complete® com blend products do not require the planting of a structured refuge **except** in the Cotton-Growing Area where corn earworm is a significant pest. SmartStax® RIB Complete® com blend is not allowed to be sold for planting in the Cotton-Growing Area. **See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.**

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready technology contain genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate.

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Acceleron®, DroughtGard®, Genuity®, NemaStrike™, RIB Complete and Design®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, Roundup®, Roundup Ready 2 Xtend®, SmartStax and Design®, SmartStax®, Trecepta®, Trecepta® RIB Complete®, Roundup Ready 2 Yield®, VT Double PRO® and VT Triple PRO® are trademarks of Bayer Group. LibertyLink® and the Water Droplet Design® are registered trademarks of BASF Corporation. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of Syngenta. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners.



ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING. IT IS A VIOLATION OF FEDERAL AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. 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 Roundup Ready 2 Xtend® soybeans.

Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Contact your seed brand dealer or refer to the Technology Use Guide for recommended weed control programs.

Due to the unique cropping practices do not plant Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

In the following states, purchase and use of HarvXtra® Alfalfa with Roundup Ready® Technology is subject to a Seed and Feed Use Agreement, requiring that products of this technology can only be used on farm or otherwise be used in the United States: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. In addition, due to the unique cropping practices do not plant HarvXtra® Alfalfa with Roundup Ready® Technology in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

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Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium based herbicides.

Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty® herbicide for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF Corporation.

Agrisure® Technology incorporated into these seeds is commercialized under license from Syngenta Seeds, Inc. Herculex® Technology incorporated into these seeds is commercialized under license from Dow AgroSciences LLC. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences LLC.

YieldGard VT PRO™ is a trademark of Monsanto Technology LLC.

Agrisure®, Agrisure Artesian®, Artesian™, Agrisure Duracade®, Agrisure Viptera® and E-Z Refuge® are trademarks of a Syngenta Group Company.



Seeds containing the LibertyLink® trait may be protected under one or more U.S. patents and may be planted only to produce one (1) commercial crop in a single season, and only after signing a BASF Grower Technology Agreement. It is illegal to save seeds containing the LibertyLink trait for use as planting seed or for transfer to others for use as planting seed.

LibertyLink® GT27™ soybeans offer triple stack tolerance to Liberty, glyphosate, and, pending EPA approval, the first HPPD based herbicide for soybeans. LibertyLink GT27 is not tolerant to all HPPD herbicides. HPPD herbicides currently on the market are prohibited for use with LibertyLink GT27 soybeans and may result in significant crop injury.

Always read and follow label directions. Liberty and LibertyLink are registered trademarks of BASF. GT27 is a trademark of M.S. Technologies, L.L.C. and BASF. MS Technologies is a trademark of M.S. Technologies, L.L.C. ©2018 BASF Corporation / M.S. Technologies, L.L.C.

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By planting this seed, you acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the *Technology Use Agreement* and (ii) the *Product Use Guides* for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein (www.corteva.us/Resources/traits-stewardship.html).

To plant Enlist seed, you must have a limited license from Dow AgroSciences LLC (or other appropriate affiliates). In consideration of the foregoing, Dow AgroSciences grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the *Technology Use Agreement* in effect at the time of planting of this seed.

Always read and follow herbicide label directions prior to use: Enlist™ products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate, and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products.

WARNING: Enlist products are tolerant of over-the-top applications of glyphosate, glufosinate, and 2,4-D. **Accidental application of incompatible herbicides to this variety could result in total crop loss.** When using 2,4-D herbicides, grower agrees to only use 2,4-D products that contain Colex-D technology authorized for use in conjunction with Enlist products.

Enlist E3™ soybean seeds containing the Enlist™ trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3™ soybeans. Additional information and limitations on the use of these products are provided in the Dow AgroSciences Technology Use Agreement and Enlist™ Soybean Product Use Guide. U.S. patents for Dow AgroSciences technologies can be found at the following webpage: www.corteva.us/Resources/traits-stewardship.html.

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Enlist E3™ soybeans were jointly developed by Dow AgroSciences LLC and M.S. Technologies, L.L.C.

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herbicide tolerant gene DuPont™ and STS® are trademarks of DuPont or its affiliates.

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.

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Clearfield® and Headline® are registered trademarks of BASF Agrochemical Products B.V.

ExpressSun® Sunflower Herbicide System: Sunflower hybrids with the DuPont™ ExpressSun® trait for tolerance to DuPont™ EXPRESS® herbicide with TotalSol™ soluble granules. This unique sunflower system from DuPont and Pioneer is designed to maximize weed control in sunflower crops, enhancing ease of production and yield. This system provides improved weed control over conventional hybrids with traditional herbicides. For the best results, always use Express® herbicide with TotalSol™ soluble granules with the ExpressSun® trait system.

Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.