



19E152N

NEW!
1.9 RM



FEATURES

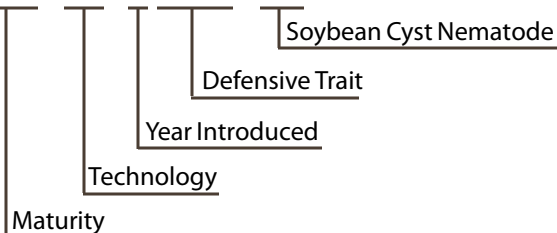
- Impressive emergence for no-till situations
- Very good Iron Deficiency Chlorosis tolerance
- Good standability and very good stress tolerance
- Improved Sclerotinia White Mold and Iron Deficiency Chlorosis tolerance over LS 21E964N

MANAGEMENT RECOMMENDATIONS

- Suitable for no-till environments with very good emergence
- Strong yield potential to work well in all planting practices and soil types
- Use caution when placing on fields with a history of heavy pressure for Sclerotinia White Mold and Sudden Death Syndrome
- Performance is best when kept north in zone

PRODUCT NAME KEY

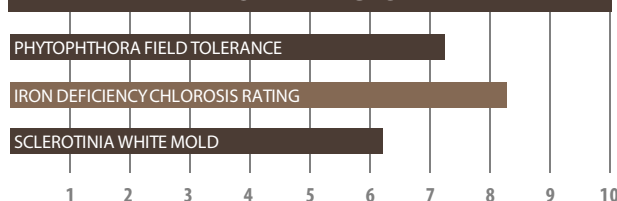
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AGRONOMIC CHARACTERISTICS

Plant Height	MT
Plant Type	SB
Emergence	8
Drought Tolerance	8
Lodging	7
Soybean Cyst Nematode Resistance (SCN)	R3, MR14
Phytophthora Root Rot Gene (PRR)	Het Rps1k
Brown Stem Rot (BSR)	R
Flower Color	Purple
Pubescence Color	Buff
Pod Color	Tan
Hilum Color	Imp. Black
No-till	HR
Coarse Texture (CEC<8)	HR
Medium Texture (CEC 8-14)	HR
Fine Texture (CEC> 14)	HR

TOLERANCES



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

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

Plant Type: B= Bush style; SB= Semi-Bush style; U= Upright style

Brown Stem Rot: R= Resistant; MR= Moderately Resistant; MS= Moderately Susceptible; S= Susceptible; NA= Not Available

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



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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. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn 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 Use Agreement and Product Use Guide. 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 corn acres, please consult appropriate Product Use Guide. Go to www.corteva.us/Resources/trait-stewardship.html to download the latest Corteva Agriscience Corn 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 Roundup Ready 2 Yield[®] soybeans, Roundup Ready 2 Xtend[®] soybeans, TruFlex[®] Canola, 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.monsantotechnology.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 Excellence Through Stewardship.

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[®] corn 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[®] corn 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 contains 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.

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 contain 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 Monsanto Technology Use Guide for recommended weed control programs.

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.

Canola seeds containing the Roundup Ready[®] trait can only be used to plant a single commercial crop. It is unlawful to save and replant 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: www.monsantotechnology.com.

Acceleron[®], Roundup Ready 2 Xtend[®], Roundup Ready 2 Yield[®], RIB Complete and Design[®], RIB Complete[®], Roundup Ready 2 Technology and Design[®], Roundup Ready[®], Roundup[®], SmartStax and Design[®], SmartStax[®], and VT Double PRO[®] are trademarks of Bayer Group. LibertyLink[®] and the Water Droplet Design[®] are registered trademarks of BASF Corporation. Herculex[®] is a registered trademark of Corteva Agrisciences 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.



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.

Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship[®] (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. HarvXtra[®] Alfalfa with Roundup Ready[®] Technology and Roundup Ready[®] Alfalfa have pending import approvals. GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA[®] ALFALFA WITH ROUNDUP READY[®] TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE. 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. Growers should refer to <http://www.biotradestatus.com/> for any updated information on import country approvals. Excellence Through Stewardship[®] is a registered trademark of Excellence Through Stewardship.

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. Roundup Ready[®] is a registered trademark of Bayer Group, used under license by Forage Genetics International, LLC.



HarvXtra[®] is a registered trademark of Forage Genetics International, LLC. HarvXtra[®] Alfalfa with Roundup Ready[®] Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc.



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.

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

More information about Agrisure Duracade[®] is available at www.biotradestatus.com.



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.

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.



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.



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, in select counties specified on the label, the first HPPD based herbicide for soybeans—Alite[™] 27. Other HPPD herbicides not labeled for use with LibertyLink GT27 or isoxaflutole-resistant soybeans may cause significant crop injury. Alite 27 herbicide is only available for use in labeled counties.

Always read and follow label directions. Alite 27 is a restricted use herbicide. Alite, Liberty, and LibertyLink are registered trademarks of BASF. GT27 is a registered trademark of M.S. Technologies, L.L.C. MS Technology is a trademark of M.S. Technologies, L.L.C. ©2020 BASF Corporation / M.S. Technologies, L.L.C. All Rights Reserved. APN 20-INT-0014. LibertyLink GT27 is not tolerant to all HPPD herbicides. Alite[™] 27 herbicide from BASF is the first HPPD herbicide for use on GT27 and LibertyLink GT27 soybeans is currently available in select counties in certain states.

Seeds containing the Enlist, Herculex and PowerCore traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. 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/trait-stewardship.html). To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience (or other appropriate affiliates). In consideration of the foregoing, Corteva Agriscience 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. Enlist corn contains genes that confer tolerance to 2,4-D and -fop herbicides. 2,4-D and -fop herbicides will damage or kill crops that are not tolerant to 2,4-D or -fop.

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 Corteva Agriscience 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/trait-stewardship.html.

Dow AgroSciences is a member of Excellence Through Stewardship[®] (ETS). Dow AgroSciences products are commercialized in accordance with ETS product launch stewardship guidance and Dow AgroSciences Product Launch Stewardship Policy. No crop or material produced from this product can be exported to, used, processed or sold 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. For further information about your crop or grain marketing options, contact DAS at 877-4-TRAITS (877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at: www.biotradestatus.com.



The transgenic soybeans event in Enlist E3[®] soybeans is jointly developed and owned by Dow AgroSciences LLC and M.S. Technologies, L.L.C. [™]Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of the Dow Chemical Company ("Dow") or an affiliated company of Dow. Excellence Through Stewardship is a registered trademark of Excellence Through Stewardship.

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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. DuPont[™], Express[®], ExpressSun[®] and TotalSol[™] are trademarks of DuPont or its affiliates. DuPont[™] and STS[®] are trademarks of DuPont or its affiliates.

STS[®] Varieties with the DuPont[™] STS[®] gene (STS) are tolerant to certain SU herbicide tolerant trait (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.

GT – Glyphosate Tolerant provides tolerance to in-crop applications of glyphosate-based herbicides. This hybrid is an excellent option for refuge acres in a structured refuge

SEED USE RESTRICTION AGREEMENT

This Seed Use Restriction Agreement (the “Agreement”) applies to all users (“User(s)”) of the seed (“Seed”) contained in this package. If you purchase the Seed, you agree that you and any person or entity, including employees, representatives, contractors and agents thereof, who plant, grow, cultivate or otherwise use the Seed, will abide by these use restrictions. If you open or cause any person or entity to open a package of Seed, you agree that you accept the terms of this Agreement, and you, your employees, representatives, contractors and agents will abide by these use restrictions.

SEED USE AGREEMENT

M.S. TECHNOLOGIES, L.L.C. (“MS TECH”) and its suppliers are engaged in the business of developing and supplying for sale various varieties and/or hybrids of Seed. MS TECH and its suppliers have a substantial investment in the development and production of this seed, and in the use of subsequent production of Seed. MS TECH and its suppliers have expended substantial effort in developing a market for seed. MS TECH and its suppliers have existing contractual relationships with other distributors for the sale of seed and expectations of additional contracts for sale of seed from such distributors in the future. The purchase of the Seed includes a limited license under the U.S. patents on the package and seed tag to produce a single crop.

In consideration of the foregoing, and in consideration of the Seed that User has been sold or otherwise granted the right to use, User hereby acknowledges and agrees that the production from the Seed will be used only for feed or processing, and will not be used or sold for seed, breeding, or any variety or hybrid improvement purposes unless User has a valid agreement with MS TECH for such purposes. User acknowledges MS TECH and its suppliers have a proprietary interest in the use of subsequent production from the Seed, and agrees it would be a violation of this Agreement to allow the subsequent production of the Seed to be used to create any seed variety or seed product from said production. Any export of this Seed or its progeny from the country of purchase is strictly prohibited, except that forage or grain may be exported solely for use in feeding or processing.

User agrees and acknowledges that any use of the Seed, which is forbidden by this Agreement will constitute a misappropriation of the personal property of MS TECH and its suppliers, and will therefore result in a breach of this Agreement. User agrees that MS TECH and/or its suppliers may bring an action to recover damages as a result of the breach of this Agreement, along with reasonable attorney fees and costs associated with any action commenced in regard thereto. User further agrees that the exclusive venue for any dispute arising under this Agreement or in connection to any breach thereof shall be in the federal or state courts for Dallas County, Iowa, and hereby irrevocably consents to the personal jurisdiction of such courts. This Agreement shall be governed under the laws of the State of Iowa.

User agrees and acknowledges that any use of the Seed, which is forbidden by this Agreement, will damage MS TECH and its suppliers’ legitimate expectation of future sales of seed, and any use of Seed in violation of this Agreement will constitute an attempt to intentionally injure or destroy MS TECH and its suppliers’ prospective business expectations in future sales of seed.

User agrees and acknowledges that any use of Seed from MS TECH in violation of this Agreement will cause substantial damage to MS TECH and/or its suppliers, and that if subsequent production of the Seed is used to create a seed variety or seed product, substantial damage to MS TECH and/or its suppliers for all seed varieties or seed products thereby created will be caused. This Agreement shall not limit any other rights, legal or equitable, that MS TECH and its suppliers have but shall be accumulative.

User agrees to only use agricultural herbicide that are expressly labeled for use in conjunction with the Seed and have received government approvals as specified in a product use guide.

NOTICE OF REQUIRED ARBITRATION

Under the seed laws of several states arbitration, mediation or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed to produce as represented. The consumer shall file a complaint along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner, or Chief Agricultural Officer within such time as to permit inspection of the crops, plants or trees by the designated agency and the seller from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

OTHER TERMS & CONDITIONS

For sale in the U.S. only. MS TECH assumes no responsibility for MS TECH’s supplier’s, distributor’s or dealer’s verbal and/or written claims, promises, warranties or actions which are contrary to MS TECH’s normal operating policies. USER must notify MS TECH within fourteen (14) days of becoming aware of alleged issues regarding the quality or performance of the Seed.

LIMITATION OF WARRANTIES & DAMAGES

MS TECH warrants, to the extent of the purchase price and to the extent that the packaging and label have not been compromised, that the Seed is as described on the package and on the tag attached thereto within recognized tolerances. MS TECH gives no other WARRANTY, expressed or implied, of MERCHANTABILITY or FITNESS of the Seed for any particular purpose, nor any warranty against loss due to any cause, including environmental conditions, soil conditions, chemicals or farming practices, or the response of the Seed to any such conditions. MS TECH shall not be liable for incidental or consequential damages, including loss of profits. MS TECH’S LIABILITY for damages for any cause, including breach of contract, breach of warranty, and negligence, with respect to the sale of seed is LIMITED to the purchase price of the Seed. THIS REMEDY IS EXCLUSIVE. BY ACCEPTANCE OF THIS SEED OR OPENING THIS PACKAGE, USER ACCEPTS THE TERMS HEREIN. IF USER DOES NOT AGREE WITH THESE TERMS AND CONDITIONS, USER MUST RETURN THE ORIGINAL UNOPENED SEED PACKAGE TO MS TECH WITHIN TWENTY DAYS OF RECEIPT AND USER’S SOLE REMEDY SHALL BE FOR REFUND OF THE USER’S ORIGINAL PURCHASE PRICE. MS TECH may modify and amend the terms and conditions of this Agreement without notice and in its sole discretion.

MS TECH has utilized standard industry isolation and purity procedures in the production of seed products. Because of contamination factors beyond MS TECH’s control, MS TECH cannot warrant or represent that MS TECH seed products are free of other genetically modified organisms.

Words and phrases herein shall be construed as in the singular or plural number, according to the context.

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