



# 2022 SEED GUIDE



**MASTER**  
**FARMER®**

## TRAITED CORN

### Brand Profiles

#### BRAND MBZ-E800

TRAIT: 3220EZ

RM 80 Day

- Above-ground trait group
- Great yield opportunity
- Does best West
- Focus on late planting or replant situations
- Complete husk cover for bird protection
- Good in continuous corn
- Fairly poor dry-down
- East of Red River Valley there is Fusarium sensitivity

#### BRAND MG-S891

TRAIT: GT

RM 89 Day

- Herbicide tolerance trait group
- Good GT silage option
- Stronger yields following soybean or alfalfa rotations
- Strong plant vigor and canopy aid in weed control

#### BRAND MG-Y810

TRAIT: GT

RM 81 Day

- Herbicide tolerance trait group
- Best focused in the West
- Showy plant with wide leaves
- Plant at medium to higher populations
- Good agronomics

#### BRAND MBZ-P920

TRAIT: 3220EZ

RM 92 Day

- Above-ground trait group
- Great looking product
- Best in Minnesota and Wisconsin
- Tends to have a later maturity 95-96
- Does best in warm soils for fast emergence
- Place South of zone
- Provides great silage tonnage, but lower on quality
- Big, showy plant

#### BRAND MG-C840

TRAIT: GT

RM 84 Day

- Herbicide tolerance trait group
- Does well under stress
- Fits tough acres
- Strong in North Dakota, but does fit Minnesota as well
- Good yield potential and seed quality
- Great supporting product to MG-A869

#### BRAND MBZ-C939

TRAIT: 3220EZ

RM 93 Day

- Above-ground trait group
- Broadly adaptable product
- Good yield potential across environments
- Performs well across range of populations
- For good emergence keep off cold soils
- Good agronomics
- Great silage product with tonnage and quality
- Responds to high management practices
- Consider a fungicide to maximize yield
- Keep off poorly drained soils

#### BRAND MG-A869

TRAIT: GT

RM 86 Day

- Herbicide tolerance trait group
- Potential for industry yield lead in the 86-87 RM
- Good stand in higher populations
- Slower dry-down
- Occasional emergence issues
- Moves East to West well
- Drought tolerant
- Plant in warmer soils
- Avoid cold shocking seed

#### BRAND MBZ-F950

TRAIT: 3220EZ

RM 95 Day

- Above-ground trait group
- Attractive plant with girthy ears
- Great top-end yield potential
- Needs warm, well drained soils or tilled fields
- Performs best under balanced fertility treatment
- Plant at moderate to high populations to maximize yield
- Great choice Central and East

#### BRAND MG-P019

TRAIT: GTA

RM 101 Day

- Herbicide tolerance trait group
- Extremely stable across environments
- Strong stalks
- Place in and North of zone (MN, SD, WI, NY, MI)
- Good silage potential
- Very upright canopy, plant in 30" rows or narrower
- Workhorse type hybrid that is durable and dependable
- Best planted at above normal populations

#### BRAND MBZ-S050

TRAIT: 3220EZ

RM 105 Day

- Above-ground trait group
- Very good yield potential
- Performs best with timely rains
- Best if harvested early (17% moisture or above)
- Has good flex
- Good agronomics

#### BRAND MR-W019

TRAIT: 3000GT

RM 101 Day

- Above/below ground trait group
- Good stalk strength
- Responds well to higher populations
- Typically does not require fungicide
- Good on Fusarium, average on other disease

#### BRAND MG-K089

TRAIT: GT

RM 108 Day

- Herbicide tolerance trait group
- Great product
- Drought/heat stress tolerance
- Excellent standability
- Reliable product
- Position in low to moderate yield environments
- Do not use a fungicide unless disease is present
- Will run out of gas above 230 Bu/A

#### BRAND MRZ-Q010

TRAIT: 3122EZ

RM 101 Day

- Above/below ground trait group
- Great for silage tonnage
- Performs well in high corn rootworm
- Does good in moderate yield environments
- Does not handle stress
- Good in Central/West, performance drops East

#### BRAND MBZ-T090

TRAIT: 3220EZ

RM 109 Day

- Above-ground trait group
- Yield potential across environments
- Foliar disease tolerance
- Keep East of I-35 in IA
- Great Gray Leaf Spot tolerance
- Plant at moderately high to high populations
- Do not use a fungicide unless disease is present

#### BRAND MG-G040

TRAIT: GT

RM 104 Day

- Herbicide tolerance trait group
- Great yield potential for this RM
- Drought tolerance
- Good early vigor
- Moves West very well
- Performs at below normal populations
- Consider a fungicide to maximize yield potential
- More susceptible to disease (Fusarium)
- If planted East or at high populations, root strength lessens

#### BRAND MG-T090

TRAIT: GT

RM 109 Day

- Herbicide tolerance trait group
- Yield potential across environments
- Foliar disease tolerance
- Keep East of I-35 in IA
- Great Gray Leaf Spot tolerance
- Plant at moderately high to high populations
- Do not use a fungicide unless disease is present



#### BRAND MBZ-D120

TRAIT: 3220EZ

RM 112 Day

- Above-ground trait group
- Excellent dual-purpose potential
- Good test weight and grain quality for silage
- Yield potential at moderate to moderately high populations
- Performs best at 30-35k population
- Above-average response to fungicide in the absence of disease
- Not a drought tolerant plant
- Some susceptibility to Gray Leaf Spot

#### BRAND MG-T159

TRAIT: GT

RM 115 Day

- Herbicide tolerance trait group
- Attractive hybrid with great yield potential
- Good grain quality
- Moderately drought tolerant
- Has performed well in the Delta region
- Harvest early, especially in wet environments
- Plant at moderate populations
- Keep off poorly drained soils

#### BRAND MBZ-L149

TRAIT: 3120EZ

RM 114 Day

- Above-ground trait group
- Stable product across environments and years
- Great standability
- Good dual-purpose potential
- Add to population in yield environments over 200 Bu/A
- No need to use fungicide in the absence of disease
- Runs out of gas above 240 Bu/A
- Sound agronomics
- Good heat tolerance

#### BRAND MB-P179

TRAIT: 3110VIP

RM 117 Day

- Above-ground trait group
- Ultra-high yield potential
- Works well on poorly drained soils
- Great dual-purpose product
- Really good heat tolerance, below drought tolerance
- Recommend staying around 32k population
- Big plant size
- Best suited for 200+ Bu/A environments

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- Works well on poorly drained soils
- Great dual-purpose product
- Really good heat tolerance, below drought tolerance
- Recommend staying around 32k population
- Big plant size
- Best suited for 200+ Bu/A environments
- Works well in the Ohio River Valley and South
- Performs well in California

Master Farmer Brand	Trait	Relative Maturity	Test Weight	Plant Height	Ear Height	Stay-green	Late-season Intactness	Stalk Strength	Root Strength	Emergence	Early Vigor	Drought Tolerance	Dry-down	GDUs to Silk	GDUs to BL	Ear Type	Kernel Rows	High Population Response	Low Population Response
MBZ-E800	3220EZ	80	8	M	M	8	9	8	6	7	7	8	6	1150	2020	Semi-Flex	14-16	8	7
MG-Y810	GT	81	7	MT	M	7	8	8	6	8	8	8	6	1155	2025	Semi-Flex	14-16	8	7
MG-C840	GT	84	7	MT	M	8	8	8	7	8	7	8	7	1160	2030	Semi-Flex	16-18	9	8
MG-A869	GT	86	8	MT	M	8	8	8	8	6	7	9	7	1170	2150	Semi-Flex	16-18	9	9
MG-S891	GT	89	8	MT	M	8	8	7	8	8	9	8	8	1246	2262	Flex	14-18	7	9
MBZ-P920	3220EZ	92	7	MT	MH	7	8	8	8	9	8	7	6	1200	2200	Semi-Flex	16-20	9	7
MBZ-C939	3220EZ	93	8	MT	MH	7	8	8	8	7	9	9	6	1230	2240	Semi-Flex	16-18	9	9
MBZ-F950	3220EZ	95	7	MT	MH	7	8	7	6	8	9	6	8	1235	2245	Semi-Fixed	16-20	9	7
MG-P019	GTA	101	7	MT	MH	8	8	8	7	7	7	8	7	1280	2390	Semi-Flex	12-14	9	7
MR-W019	3000GT	101	7	MT	MH	8	8	8	7	7	7	8	7	1280	2390	Semi-Flex	12-14	9	7
MRZ-Q010	3122EZ	101	7	MT	MH	7	8	7	6	7	8	8	8	1280	2390	Semi-Flex	16-18	8	7
MG-G040	GT	104	7	MT	MH	7	6	7	6	8	7	9	7	1285	2420	Semi-Flex	16-20	8	8
MBZ-S050	3220EZ	105	6	M	M	7	7	7	6	8	8	7	7	1310	2490	Semi-Flex	14-16	8	8
MG-K089	GT	108	7	MT	M	9	9	8	9	9	8	9	8	1320	2550	Semi-Flex	14-16	9	9
MBZ-T090	3220EZ	109	6	MT	M	7	9	8	8	9	8	8	9	1310	2680	Fixed	14-16	9	5
MG-T090	GT	109	6	MT	M	7	9	8	8	9	8	8	9	1310	2680	Fixed	18-20	9	5
MBZ-D120	3220EZ	112	8	MT	MH	9	8	7	7	8	7	7	9	1300	2725	Semi-Flex	14-16	9	7
MBZ-L149	3120EZ	115	7	MT	MH	8	8	9	9	7	8	8	7	1305	2735	Semi-Fixed	16-18	9	7
MB-T159	3110VIP	115	8	MT	M	8	8	7	7	8	8	8	7	1325	2820	Semi-Flex	16-18	8	9
MBZ-T159	3220EZ	115	8	MT	M	8	8	7	7	8	8	8	7	1325	2820	Semi-Flex	16-18	8	9
MG-T159	GT	115	8	MT	M	8	8	7	7	8	8	8	7	1325	2820	Semi-Flex	16-18	9	9
MB-P179	3110VIP	117	8	MT	MH	9	8	7	8	9	8	7	6	1345	2850	Semi-Flex	16-18	9	8
MG-T179	GT	117	8	MT	MH	9	8	7	8	9	8	7	6	1345	2850	Semi-Flex	16-18	9	8
MR-T179	3000GT	117	8	MT	MH	9	8	7	8	9	8	7	6	1345	2850	Semi-Flex	16-18	9	8

Ratings: 1 = Poor | 9 = Excellent

GT = Agrisure® GT | GTA = Agrisure Artesian® GTA | 3110VIP = Agrisure Viptera® 3110 | 3111VIP = Agrisure Viptera® 3111  
3120EZ = Agrisure® 3120 E-Z Refuge® | 3220EZ = Agrisure Viptera® 3220 E-Z Refuge® | 3122EZ = Agrisure® 3122 E-Z Refuge®

Ratings are given only as a guide. All ratings are subject to cultural practices and environmental conditions. Ratings and descriptions are based on research and field observations collected by F2F Genetics Network or provided to it by its suppliers. Individual results and performance may vary depending on local growing, soil and weather conditions.

## Trait Details

This information regarding the Master Farmer® Agrisure® trait portfolio has been designed to reflect the challenges you may face, from corn rootworm to above-ground insect control. Requirements are also listed to simplify refuge planning.

Trait Stack Name	Insects Controlled			Herbicide Tolerance	
	Broad Lep	Corn Borer	Rootworm	GT	LL
No GM traits					
Conventional					
Herbicide tolerant only					
Agrisure® GT				✓	
Agrisure® GT/LL				✓	✓
Above-ground insect control					
Agrisure® 3010		1		✓	✓
Agrisure Viptera® 3110	1*	1		✓	✓
Agrisure® 3120 E-Z Refuge®	1	2		✓	✓
Agrisure Viptera® 3220 E-Z Refuge®	2*	2		✓	✓
Agrisure Viptera® 3330 E-Z Refuge®	3*	3		✓	✓
Above and below-ground insect control					
Agrisure® 3000GT		1	1	✓	✓
Agrisure Viptera® 3111	1*	1	1	✓	✓
Agrisure® 3122 E-Z Refuge®	1	2	2	✓	✓
Agrisure Duracade® 5122 E-Z Refuge®	1	2	2	✓	✓
Agrisure Duracade® 5222 E-Z Refuge®	2*	2	2	✓	✓

\*Contains Agrisure Viptera® trait for unsurpassed above-ground pest control.  
Numbers 1, 2, or 3 indicate the number of modes of action in hybrid.

Trait Stack Name	Refuge Requirements		Agrisure Artesian® Version
	Corn Growing Regions	Cotton Growing Regions	
No GM traits			
Conventional	None required	None required	Agrisure Artesian®
Herbicide tolerant only			
Agrisure® GT	None required	None required	Agrisure Artesian® GTA
Agrisure® GT/LL	None required	None required	Agrisure Artesian® GT/LLA
Above-ground insect control			
Agrisure® 3010	20% within 1/2 mile	50% within 1/2 mile	Agrisure Artesian® 3010A
Agrisure Viptera® 3110	20% within 1/2 mile	20% within 1/2 mile	Agrisure Viptera® 3110A
Agrisure® 3120 E-Z Refuge®	5% in the bag	20% within 1/2 mile	Agrisure Artesian® 3120A E-Z Refuge®
Agrisure Viptera® 3220 E-Z Refuge®	5% in the bag	20% within 1/2 mile	Agrisure Viptera® 3220A E-Z Refuge®
Agrisure Viptera® 3330 E-Z Refuge®	5% in the bag	20% within 1/2 mile	Agrisure Viptera® 3330A E-Z Refuge®
Above and below-ground insect control			
Agrisure® 3000GT	20% in field/adjacent	50% in field/adjacent	Agrisure Artesian® 3011A
Agrisure Viptera® 3111	20% in field/adjacent	20% in field/adjacent	Agrisure Viptera® 3111A
Agrisure® 3122 E-Z Refuge®	5% in the bag	20% in field/adjacent	Agrisure Artesian® 3122A E-Z Refuge®
Agrisure Duracade® 5122 E-Z Refuge®	5% in the bag	20% in field/adjacent	Agrisure Duracade® 5122A E-Z Refuge®
Agrisure Duracade® 5222 E-Z Refuge®	5% in the bag	20% in field/adjacent	Agrisure Duracade® 5222A E-Z Refuge®

For further information regarding insect or refuge requirement management, please visit <https://iwilltakeaction.com/insects/corn/principles-of-resistance>.



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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.

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.

Avicta Complete Corn 250 is a Restricted Use Pesticide. For use by certified applicators only. Growers planting Avicta treated seed are not required to be certified applicators. Avicta technology is protected by U.S. Patent No. 6,875,727.

CruiserMaxx Corn is an on-seed application of Cruiser 5FS insecticide delivered at the 0.25, 0.50 or 1.25 mg ai/seed rate and Maxim Quattro fungicide.

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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. Liberty®, LibertyLink®, and the Water Droplet logo are registered trademarks of BASF.

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 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.

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