

EASTERN TRAITS AND STEWARDSHIP GUIDE 2018

While you're working through your yearly routine of planting, fertilizing, spraying and harvesting, the seed and traits industries continue to change and grow, and producers must do the same.

Each new growing season means more new corn and soybean hybrids are in the fields and on the horizon. These hybrids embody traits and innovations that are intended to provide greater protection, reduce a grower's risk and add value to the bottom line.

The agriculture industry is constantly working; innovating and creating to ensure product demand can be met when farmers call for it. But the onus is on producers to make decisions to ensure the best results.

This kind of forward thinking reflects our philosophy at *Top Crop Manager*. With a wealth of new technologies emerging, we do our best to help you make smart decisions to prepare for the coming year, and we are happy to provide you with our annual Eastern Traits and Stewardship Guide.

Besides being a resource, the guide is a reflection of how the industry continues to change. Our goal is to ensure our readers are aware of research being done now that will potentially change the way they farm. By highlighting new technologies, we strive to help producers stay ahead of the curve and we're proud to be able to give early adopters the information they need to plan ahead.

The information herein is intended to assist in making decisions. We aim to provide you with the most up-to-date and accurate information possible. For a better idea of what will work for you and your operation, please talk with your seed dealer for more information.

STEFANIE CROLEY | EDITOR





Welcome to the world of Brevant™ seeds.

Welcome to a world of smart simplicity – welcome to the world of Brevant™ seeds. A place where decisions are easier and service is there when you need it. We're bringing new life to the seed industry with a focused seed portfolio of corn, soybeans, winter wheat and alfalfa. We're excited to bring you leading genetics specifically engineered for your local area and growing conditions. Our team is ready to grow with you and help make your business thrive.

**For a peek inside the world of Brevant seeds,
visit Brevant.ca**

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seeds

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TRAITS AND STEWARDSHIP GUIDE 2018

CORN						PESTS CONTROLLED						HERBICIDE TOLERANCE				
COMMERCIAL NAME	GENETIC EVENT	PARTICIPATING SEED COMPANIES	APPROVED IN EUROPE	ECB REFUGE REQUIRED	CRW REFUGE REQUIRED	ECB	CRW (NORTHERN AND WESTERN)	CORN EARWORM	BLACK CUTWORM	FALL ARMYWORM	WESTERN BEAN CUTWORM	GLYPHOSATE	GLUFOSINATE	IMI	2,4-D	DICAMBA
Roundup Ready Corn 2	NK603	Brevant Seeds, Country Farm Seeds, Croplan, Dekalb, DLF Pickseed, Elite, General Seeds, Legend Seeds, Maizex Seeds, Pioneer, Pride Seeds	Yes	N/A	N/A	N	N	N	N	N	N	■				
VT Double PRO RIB Complete	MON 89034 + NK603	Country Farm Seeds, Croplan, Dekalb, DLF Pickseed, Elite, Legend Seeds, Maizex Seeds, Pride Seeds	Yes	5% RIB	N/A	CC	N	CC	N	CC	N	■				
Genuity VT Triple PRO RIB Complete	MON 88017 + MON 89034	Country Farm Seeds, Croplan, Dekalb, DLF Pickseed, Elite, General Seeds, Maizex Seeds, Pride Seeds	Yes	10% RIB	10% RIB	CC	C	CC	N	CC	N	■				
SmartStax RIB Complete	MON 88017 + MON 89034 + TC1507 + DAS-59122-7	Country Farm Seeds, Croplan, Dekalb, DLF Pickseed, Elite, General Seeds, Legend Seeds, Maizex Seeds, Pride Seeds	No	5% RIB	5% RIB	CCC	CC	CC	C	CCC	S	■	■			
Dow AgroSciences SmartStax	MON 88017 + MON 89034 + TC1507 + DAS-59122-7	Brevant Seeds	Yes	5%	5%	CCC	CC	CC	C	CCC	N	■	■			
SmartStax Refuge Advanced	MON 88017 + MON 89034 + TC1507 + DAS-59122-7	Brevant Seeds	Yes	5% RIB	5% RIB	CCC	CC	CC	C	CCC	N	■	■			
Herculex I with Roundup Ready Corn 2	TC1507 + NK603	Pioneer	Yes	20%	N/A	C	N	S	C	C	N	■	■			
Optimum AcreMax	TC1507 + MON 810 + NK603	Pioneer	Yes	5% integrated	N/A	CC	N	SS	C	C	N	■	■			
Optimum AcreMax Xtreme	TC1507 + DAS-59122-7 + MON 810 + MIR604 + NK603	Pioneer	No	5% integrated	5% integrated	CC	CC	SS	C	C	N	■	■			

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COMMERCIAL NAME	GENETIC EVENT	PARTICIPATING SEED COMPANIES	APPROVED IN EUROPE	ECB REFUGE REQUIRED	CRW REFUGE REQUIRED	ECB	CRW (NORTHERN AND WESTERN)	CORN EARWORM	BLACK CUTWORM	FALL ARMYWORM	WESTERN BEAN CUTWORM	GLYPHOSATE	GLUFOSINATE	IMI	2,4-D	DICAMBA
Optimum AcreMax Xtra	TC1507 + DAS-59122-7 + MON 810 + NK603	Pioneer	Yes	10% integrated	10% integrated	CC	C	SS	C	C	N	■	■			
Pioneer Qrome	DP 4114 + MON 810 + MIR604 + NK603	Pioneer	No	5% integrated	5% integrated	CC	CC	SS	C	C	N	■	■			
Agrisure GT	GA21	Country Farm Seeds, Elite, Horizon Seeds, NK Brand	Yes	N/A	N/A	N	N	N	N	N	N	■				
Agrisure CB/LL/RW	Bt11 + MIR604	Maizex Seeds	Yes	20%	20%	C	C	S	N	S	N		■			
Agrisure 3000GT	GA21 + Bt11 + MIR604	Brevant Seeds, Croplan, Horizon Seeds, NK Brand, Maizex Seeds	Yes	20%	20%	C	C	S	N	S	N	■	■			
Agrisure GT/CB/LL	GA21 + Bt11	Maizex Seeds	Yes	20%	N/A	C	N	S	N	S	N	■	■			
Agrisure 3010	GA21 + Bt11	Horizon Seeds, NK Brand	Yes	20%	N/A	C	N	S	N	S	N	■	■			
Agrisure Viptera 3110	GA21 + MIR162 + Bt11	Croplan, Horizon Seeds, NK Brand	No	20%	N/A	C	N	C	C	C	C	■	■			
Agrisure Viptera 3111	GA21 + Bt11 + MIR604 + MIR162	Croplan, Horizon Seeds, NK Brand	No	20%	20%	C	C	C	C	C	C	■	■	■		
Agrisure 3120 E-Z Refuge	GA21 + Bt11 + TC1507	Horizon Seeds	No	5% E-Z Refuge	N/A	CC	N	C	C	C	N	■	■			
Agrisure Viptera 3220 E-Z Refuge	GA21 + Bt11 + MIR162 + TC1507	Country Farm Seeds, Horizon Seeds, NK Brand	No	5% E-Z Refuge	N/A	CC	N	CC	CC	CC	C	■	■			
Agrisure Artesian 3011A	GA21 + Bt11 + MIR604	NK Brand	Yes	20%	20%	C	C	S	N	S	N	■	■			
Agrisure 3122	GA21 + MIR604 + Bt11 + TC1507 + DAS 59122-7	Brevant Seeds	No	5%	N/A	CC	CC	C	C	C	N	■				

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COMMERCIAL NAME	GENETIC EVENT	PARTICIPATING SEED COMPANIES	APPROVED IN EUROPE	ECB REFUGE REQUIRED	CRW REFUGE REQUIRED	ECB	CRW (NORTHERN AND WESTERN)	CORN EARWORM	BLACK CUTWORM	FALL ARMYWORM	WESTERN BEAN CUTWORM	GLYPHOSATE	GLUFOSINATE	IMI	2,4-D	DICAMBA
Agrisure 3122 E-Z Refuge	GA21 + MIR604 + Bt11 + TC1507 + DAS 59122-7	Horizon Seeds, NK Brand, Maizex Seeds	No	5% E-Z Refuge	5% E-Z Refuge	CC	CC	C	C	C	S	■	■			
Enlist	DAS-40278-9 + NK603	Brevant Seeds	No	N/A	N/A	N	N	N	N	N	N	■			■	
Enlist PowerCore	MON89034 + TC1507 + NK603 + DAS40278-9 + DAS59122-7	Brevant Seeds	No	5%	5%	CCC	N	CC	C	CCC	N	■			■	
Enlist SmartStax	DAS-40278-9 + MON 88017 + MON 89034 + TC1507 + DAS-59122-7	Brevant Seeds	No	5%	5%	CCC	CC	CC	C	CCC	N	■			■	
Genuity DroughtGard Hybrids	MON 87460	Monsanto	TBD			TBD	TBD	TBD	TBD	TBD	TBD	■				
Agrisure Duracade 5122	5307 + MIR604 + Bt11 + TC1507 + GA21	NK	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	■	■			
Agrisure Duracade 5222	5307 + MIR604 + Bt11 + TC1507 + GA21 + MIR162	NK	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	■	■			
Higher Yielding Corn	Pending	Monsanto	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
Corn Rootworm III	Pending	Monsanto	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
Corn Borer III	Pending	Monsanto	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
Dicamba- and Glufosinate-tolerant Corn	Pending	Monsanto	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	■	■			■
Drought Tolerance II Corn	Pending	Pioneer	TBD			TBD	TBD	TBD	TBD	TBD	TBD					
Nitrogen Use Efficiency	Pending	Pioneer	TBD			TBD	TBD	TBD	TBD	TBD	TBD					
New MOA Lepidopteran Protection III	Pending	Pioneer	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
New MOA Coleopteran Protection III	Pending	Pioneer	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					

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SOYBEANS			
COMMERCIAL NAME	GENETIC EVENT	PARTICIPATING SEED COMPANIES	EU APPROVAL
Roundup Ready Original	40-3-2	Pioneer	Yes
Roundup Ready 2 Yield	MON 89788	Brevant Seeds, Country Farm Seeds, Croplan, Dekalb, Elite, Maizex Seeds, NK Seeds, NorthStar, Pioneer, Pride Seeds, Pro Seeds, SeCan, Semences Prograin	Yes
LibertyLink	A2704 -12	Country Farm, Croplan, Elite, Northstar, Pride Seeds, Pioneer	Yes
Plenish High Oleic Soybeans	DP 305423 + 40-3-2	Pioneer	Yes
Enlist E3	DAS-44406-6	Brevant Seeds	Yes
Roundup Ready 2 Xtend	MON 87708 + MON 89788	Country Farm, Croplan, Dekalb, Elite, Legends Seeds, Maizex, NK Seeds, NorthStar, Pioneer, Pride Seeds, Semences Prograin, SeCan, Thunder Seeds, ProSeeds	Yes
Balance GT	Pending (FG72)	TBD	Yes
Balance GT/LL	Pending (FG72 + A5547-127)	TBD	TBD
Vistive Gold	MON 89788	Monsanto	TBD
HT3		Monsanto	TBD
SDA Omega-3 soybeans	Pending	Monsanto	TBD
Soybean Cyst Nematode Resistance	Pending	Monsanto	TBD
Next-Generation Multiple Mode Herbicide Tolerance	Pending	Pioneer	TBD
Increased Oil and Improved Feed Efficiency	Pending	Pioneer	TBD

HERBICIDE TOLERANCE					
GLYPHOSATE	GLUFOSINATE	IMI	2,4-D	DICAMBA	ISOXAFLUTOLE
■					
■					
	■				
■					
■	■		■		
■				■	
■					■
■	■				■
■	■			■	

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