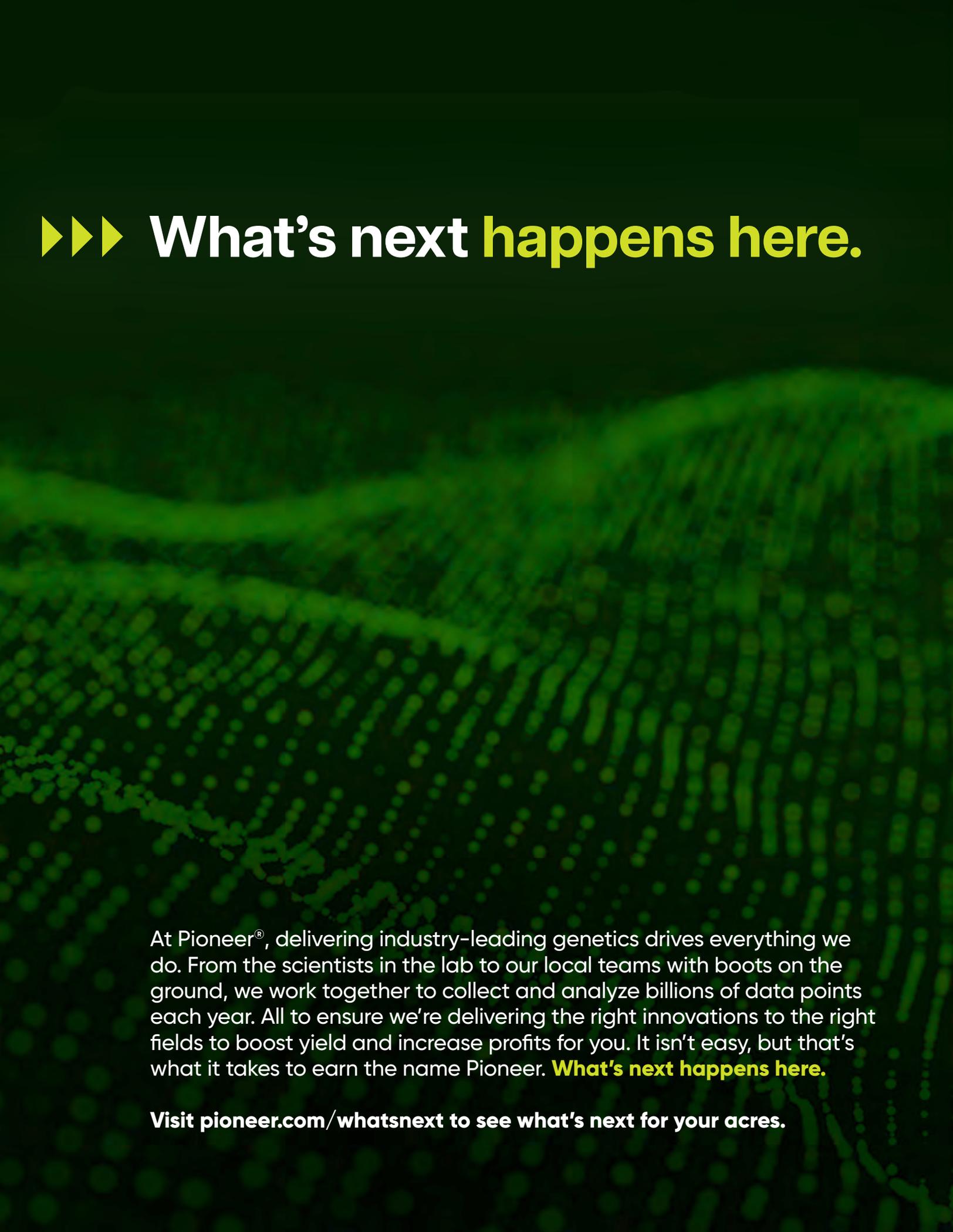




 **PIONEER**[®] 2024
BRAND PRODUCTS

 **What's next happens here.**



▶▶▶ **What's next happens here.**

At Pioneer[®], delivering industry-leading genetics drives everything we do. From the scientists in the lab to our local teams with boots on the ground, we work together to collect and analyze billions of data points each year. All to ensure we're delivering the right innovations to the right fields to boost yield and increase profits for you. It isn't easy, but that's what it takes to earn the name Pioneer. **What's next happens here.**

Visit pioneer.com/whatsnext to see what's next for your acres.





POWER OF PIONEER

The determination and expertise of our people push us to be better for Canadian farmers. Together, we're shaping the future of farming.

THE POWER OF AGRONOMY

370

Reps in the field supporting farmers.

6,100,000

Pioneer acres in Canada in 2022.

THE POWER OF SUPPORT

21,957

Corteva employees globally.

716

Corteva Canada employees.

18,500+

Yearly customers served.

THE POWER OF INNOVATION

180+

Research staff in Canada.
Plus dozens of seasonal employees.

10

Research centres across the country.

200

Canola, corn, soybean and wheat products offered in 2023.

*Pioneer internal data, 2023.

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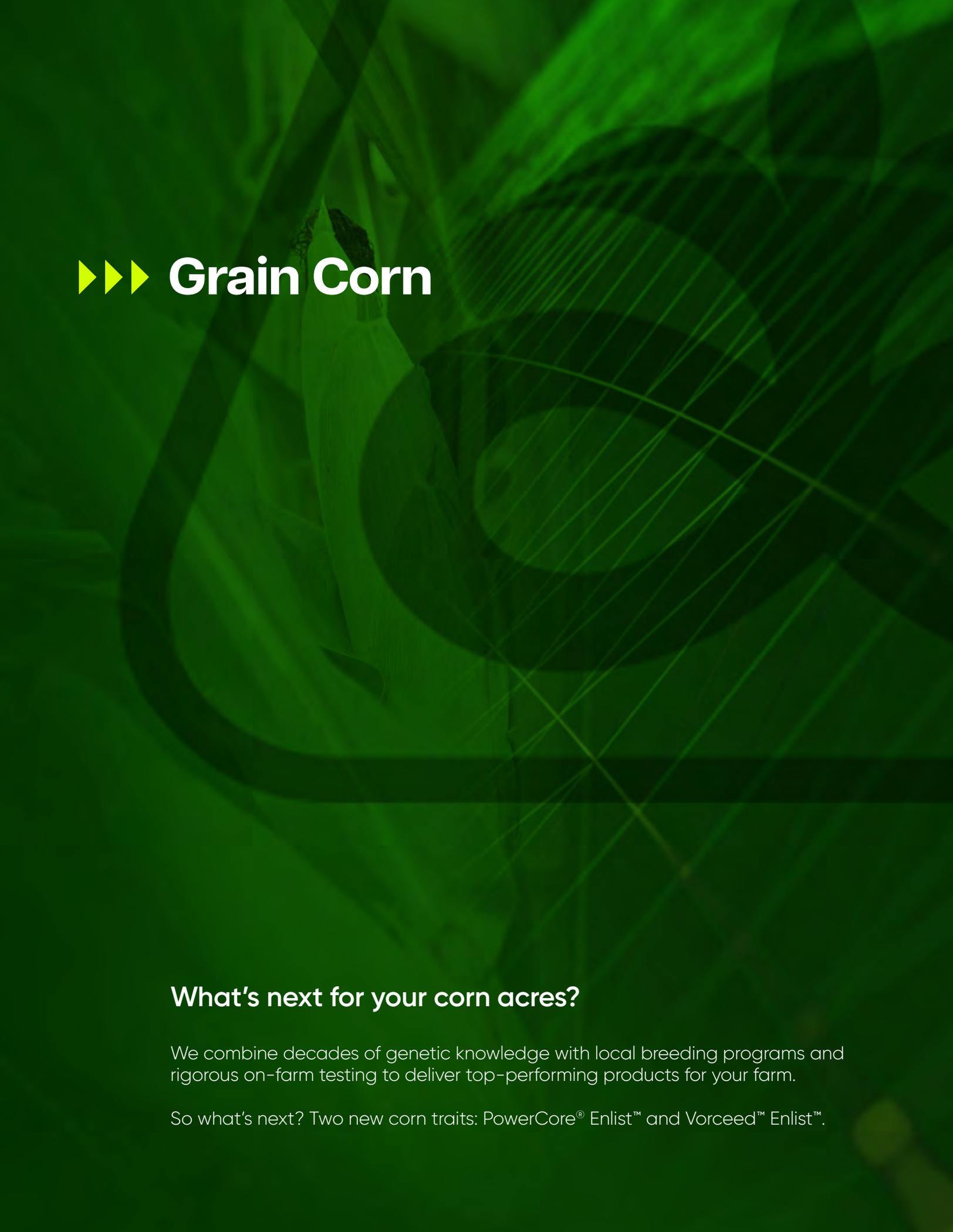
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▶▶▶ Grain Corn

What's next for your corn acres?

We combine decades of genetic knowledge with local breeding programs and rigorous on-farm testing to deliver top-performing products for your farm.

So what's next? Two new corn traits: PowerCore® Enlist™ and Vorceed™ Enlist™.

▶▶▶ What's next happens here.

Two industry-leading corn traits coming in Pioneer® brand corn hybrids



AVAILABLE NOW

- ▶ Exceptional broad-spectrum protection against above-ground pests
- ▶ Stacked with the Enlist™ herbicide corn trait for ultimate weed control flexibility



AVAILABLE NOW

Vorceed™ Enlist™ corn brings next generation corn rootworm protection along with the power and flexibility of the Enlist weed control system.

BRAND	INSECT PROTECTION MODES OF ACTION		HERBICIDE TOLERANCE
	ABOVE	BELOW	
PowerCore® Enlist™	✓ ✓ ✓		✓ ✓ ✓ ✓ 2,4-D Choline, Glyphosate, Glufosinate, FOP herbicides
RNAi TECHNOLOGY			
Vorceed™ Enlist™	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓ 2,4-D Choline, Glyphosate, Glufosinate, FOP herbicides

Talk to your Pioneer agent or visit ca.Pioneer.com.

Pioneer® brand Product	Technology Segment	Crop Heat Units	CRM	Silk CRM	Physiological CRM	Stalk Strength	Mid-Season Brittle Stalk	Root Strength	Stress Emergence	Drought Tolerance	Staygreen	Grain Drydown	Test Weight	Plant Height	Ear Height	Husk Cover	Gray Leaf Spot	Northern leaf blight	Tar Spot
P6910AM™		1950	69	69	69	5	7	5	4	6	5	3	7	4	4	4		3	
NEW P72068AM™		2100	72	73	74	5	5	6	4	7	5	8	7	5	5	5		5	
P7211AM™		2050	72	70	74	6	5	5	4	7	3	6	7	3	4	4		5	
P7389AM™		2075	73	73	73	6	5	6	4	7	6	3	6	5	5	6		5	
P7417AM™		2125	74	76	77	5	5	5	4	6	5	4	5	3	5	5		6	
P7574AM™		2150	75	77	76	6	5	4	6	5	6	5	6	6	6	5		4	
P7844AM™		2225	78	78	82	6	5	6	4	6	6	7	5	5	6	6		6	
P7955AM™		2300	79	74	75	8	7	8	5	6	4	5	7	3	4	4		5	
P8034LR™		2325	80	82	85	8	4	8	4	6	5	7	5	4	4	4		7	
P8048AM™		2350	80	79	80	6	6	6	4	6	5	7	6	5	6	6		6	
NEW P82288AM™		2400	82	82	82	6	5	6	5	7	5	6	5	6	6	5		5	
P8294AM™		2400	82	85	82	5	6	4	5	6	6	5	5	7	7	4		5	
P8294Q™		2400	82	85	82	5	6	4	5	6	6	5	5	7	7	4		5	
P8407	Conventional	2425	84	85	85	7	4	5	4	7	5	4	5	5	5	6		6	
P8407AM™		2450	84	85	85	7	4	5	4	7	5	4	5	5	5	6		6	
P8407Q™		2450	84	85	85	7	4	5	4	7	5	4	5	5	5	6		6	
P8537AM™		2550	85	83	85	7	4	6	4	6	7	3	6	5	7	5		6	
P8537Q™		2550	85	83	85	7	4	6	4	6	7	3	6	5	7	5		6	
P8602AM™		2600	86	84	86	5	7	6	5	7	5	4	5	6	6	6		5	

NEW = New Product

Disease & Pest Ratings: 8-9 = Highly Resistant; 6-7 = Resistant;

4-5 = Moderately Resistant; 1-3 = Susceptible; Blank = Insufficient Data.

Pioneer® brand grain corn products are protected by the industry-leading LumiGEN® seed treatment package, including Lumivia™ insecticide seed treatment, new Lumialza™ nematocide seed treatment, and our new Lumiscend™ Pro fungicide seed treatment package.

Lumivia and Lumialza are not considered a Class E pesticide under the Ontario regulation 63/09 of the Pesticides Acts. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Lumivia and clothianidin). Clothianidin is a Class E pesticide. Concerning section 74.1 of the Quebec Pesticides Management Code, Lumivia and Lumialza are not considered to be a Class 3A pesticide. For more information, talk to your Pioneer sales representative. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see **page 41**.

▶ Featured Grain Corn Products

P7574AM™
2150 CHU



- ▶ High yield potential for maturity
- ▶ Above average test weight
- ▶ Good early season emergence
- ▶ Above average stalk strength

P8048AM™
2350 CHU



- ▶ Excellent yield potential
- ▶ Early silking for maturity
- ▶ Above average stalk and root strength
- ▶ Very competitive test weight

P8294AM™
2400 CHU



- ▶ Improved test weight for maturity
- ▶ Above average stalk strength
- ▶ Excellent dual purpose hybrid

P8407AM™
2450 CHU



- ▶ High yield potential with excellent agronomics
- ▶ Very good stalk strength
- ▶ Strong tolerance to Northern leaf blight

P8537AM™
2550 CHU



- ▶ Solid performer
- ▶ Very good stalk strength
- ▶ Above average tolerance to Northern leaf blight
- ▶ Above average test weight

P8602AM™
2600 CHU



- ▶ High yield potential for maturity
- ▶ Above average root strength
- ▶ Above average Northern leaf blight tolerance



LumiGEN® seed treatments are extensively tested across multiple years, geographies and environments. LumiGEN has become a trusted mark of assurance in seed treatments. For more information, please see page 17.

Pioneer® brand Product	Technology Segment	Crop Heat Units	Crop Heat Units																		
			CRM	Silk CRM	Physiological CRM	Stalk Strength	Mid-Season Brittle Stalk	Root Strength	Stress Emergence	Drought Tolerance	Staygreen	Grain Drydown	Test Weight	Plant Height	Ear Height	Husk Cover	Gray Leaf Spot	Northern leaf blight	Anthraxnose Stalk Rot	Gibberella Ear Rot	Tar Spot
1		2	3	4	5	6	7	8	9	10	11	12	13	14							
NEW P87040AM™		2600	87	89	86	5	6	6	5	6	5	5	6	6	5	5					
P8736AM™		2575	87	88	86	4	5	4	4	7	5	5	4	7	7	5	6	6			
P8859AM™		2600	88	84	86	6	6	6	6	7	5	7	5	5	7	6	5				
P8859Q™		2575	88	84	86	6	6	6	6	7	5	7	5	5	7	6	5				
P9026AM™		2650	90	91	90	5	5	6	5	6	6	5	7	6	6	3	5				
NEW P90630Q™		2650	90	94	93	5	5	6	5	7	4	3	6	5	7	5	5				
P9188	Conventional	2600	91	89	91	6	5	8	4	7	4	4	6	4	4	6	5	7		5	
P9188AM™		2650	91	89	91	6	5	8	4	7	4	4	6	4	4	6	5	7		5	
P9233AM™		2725	92	89	93	5	3	7	4	6	6	5	6	6	7	5	3	6		5	
P9233Q™		2750	92	89	93	5	3	7	4	6	6	5	6	6	7	5	3	6		5	
P9301	Conventional	2725	93	91	91	6	6	5	6	6	6	6	7	6	6	6	4	6		4	4
P9301AM™		2750	93	91	91	6	6	5	6	6	6	6	7	6	6	6	4	6		4	4
P9316Q™		2750	93	85	90	5	5	6	4	7	7	5	7	5	6	6		6			
P9466AML™		2800	94	95	97	7	7	6	7	7	5	4	5	6	6	5	3	5		5	5
P9492	Conventional	2750	94	97	98	7	7	7	7	7	7	6	5	6	5	5	4	5		3	6
P9492AM™		2825	94	97	98	7	7	7	7	7	7	6	5	6	5	5	4	5		3	6
P9535AM™		2825	95	96	97	5	6	5	5	6	6	5	5	6	6	4	4	6		4	6

NEW = New Product

Disease & Pest Ratings: 8-9 = Highly Resistant; 6-7 = Resistant; 4-5 = Moderately Resistant; 1-3 = Susceptible; Blank = Insufficient Data.

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▶ Featured Grain Corn Products

P8859Q™
2575 CHU



- ▶ Leader platform for maturity
- ▶ With Qrome above and below ground technology
- ▶ Above average stress emergence
- ▶ Good stalk and root strength

P9026AM™
2650 CHU



- ▶ Exciting yield potential
- ▶ Very good test weight
- ▶ Very good root strength

P9233AM™
2725 CHU



- ▶ Great yield for maturity
- ▶ Above average test weight
- ▶ Very good root strength
- ▶ Earlier silking for maturity

P9316Q™
2750 CHU



- ▶ Strong yield potential
- ▶ Solid test weight
- ▶ Above average root strength
- ▶ Early silking for maturity

P9466AML™
2800 CHU



- ▶ Well balanced agronomics and high yield
- ▶ Strong stress emergence
- ▶ Above average Northern leaf blight tolerance
- ▶ Optimum® AcreMax® Leptra® Western bean cutworm protection

P9535AM™
2825 CHU



- ▶ High yield potential for maturity
- ▶ Good late season plant health
- ▶ Above average tolerance to Northern leaf blight



Lumialza™
NEMATICIDE SEED TREATMENT

- ▶ Lumialza™ nematicide seed treatment is a biological nematicide that provides protection from key yield-robbing nematodes while cooperating with beneficial organisms.
- ▶ Lumialza provides over 80 days of protection creating a large zone of protection, encompassing the entire area of root growth including lower, mid and upper root zones¹.

¹ When used in accordance with label directions

Pioneer® brand Product	Technology Segment	Crop Heat Units	Disease & Pest Ratings																		
			CRM	Silk CRM	Physiological CRM	Stalk Strength	Mid-Season Brittle Stalk	Root Strength	Stress Emergence	Drought Tolerance	Staygreen	Grain Drydown	Test Weight	Plant Height	Ear Height	Husk Cover	Gray Leaf Spot	Northern leaf blight	Anthracnose Stalk Rot	Gibberella Ear Rot	Tar Spot
	1		2		3	4	5	6	7	8	9	10	11	12	13	14					
P9608	Conventional	2800	96	95	96	7	4	7	6	7	5	6	7	5	4	8	5	5		3	5
P9608AM™	 Conventional	2850	96	95	96	7	4	7	6	7	5	6	7	5	4	8	5	5		3	5
P9608Q™	 Conventional	2850	96	95	96	7	4	7	6	7	5	6	7	5	4	8	5	5		3	5
NEW P9624	Conventional	2825	96	96	96	7	6	6	5	8	8	5	6	4	5	6	5	6		7	6
P9624Q™	 Conventional	2850	96	96	96	7	6	6	5	8	8	5	6	4	5	6	5	6		7	6
NEW P96760AM™	 Conventional	2850	96	96	98	6	7	6	6	7	7	5	5	5	5	7	4	5		3	5*
NEW P96760Q™	 Conventional	2850	96	96	98	6	7	6	6	7	7	5	5	5	5	7	4	5		3	5*
NEW P97299AM™	 Conventional	2900	97	94	99	7	6	6	5	9	6	6	5	5	5	6	4	5		4	5*
P9815AM™	 Conventional	2925	98	101	100	7	3	6	6	8	7	8	4	6	5	5	4	5		3	5
P9823Q™	 Conventional	2925	98	95	101	5	5	6	5	6	5	4	5	6	6	5	5	6	2	5	5*
NEW P9845PCE™	 Conventional	2950	98	101	99	5	5	5	6	9	6	3	6	6	6	6	4	6		5	4
P9946AML™	 Conventional	2950	99	97	103	6	6	7	5	7	5	5	7	4	6	5	4	6		6	5
NEW P0035	 Conventional	2975	100	99	101	5	3	6	5	9	7	5	5	6	5	6	4	5	5	5	7
P0035AM™	 Conventional	3000	100	99	101	5	3	6	5	9	7	5	5	6	5	6	4	5	5	5	7
P0035Q™	 Conventional	2975	100	99	101	5	3	6	5	9	7	5	5	6	5	6	4	5	5	5	7
P0075	Conventional	2975	100	103	104	6	6	6	6	8	5	5	5	5	5	5	5	6	4	6	6
P0075AM™	 Conventional	3000	100	103	104	6	6	6	6	8	5	5	5	5	5	5	5	6	4	6	6
P0075Q™	 Conventional	3000	100	103	104	6	6	6	6	8	5	5	5	5	5	5	5	6	4	6	6
P0157	 Conventional	3000	101	102	102	5	5	7	5	9	4	5	6	4	4	7	4	5	4	4	5

NEW = New Product  = Optimum® AQUAMax® trait
Disease & Pest Ratings: 8-9 = Highly Resistant; 6-7 = Resistant;
4-5 = Moderately Resistant; 1-3 = Susceptible;
Blank = Insufficient Data.
Ratings denoted with an asterisk () reflect preliminary data subject to change when additional data becomes available.

Pioneer® brand grain corn products are protected by the industry-leading LumiGEN® seed treatment package, including Lumivia™ insecticide seed treatment, new Lumialza™ nematocidal seed treatment, and our new Lumiscend™ Pro fungicide seed treatment package.
Lumivia and Lumialza are not considered a Class E pesticide under the Ontario regulation 63/09 of the Pesticides Acts. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Lumivia and clothianidin). Clothianidin is a Class E pesticide. Concerning section 74.1 of the Quebec Pesticides Management Code, Lumivia and Lumialza are not considered to be a Class 3A pesticide. For more information, talk to your Pioneer sales representative. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see **page 41**.

► **Featured Grain Corn Products**

P9624Q™
2850 CHU



- ▶ Well balanced agronomics with high yield potential
- ▶ Above average stalk strength and staygreen
- ▶ Very good drought tolerance

P9823Q™
2925 CHU



- ▶ Excellent yield for maturity
- ▶ Favourable root strength
- ▶ Above average Northern leaf blight tolerance

NEW

P9845PCE™
2950 CHU



- ▶ Balanced agronomic performance with high yield potential
- ▶ Excellent drought tolerance with the Optimum® AQUAmax® designation
- ▶ Enlist™ weed control system includes herbicide tolerance to 2,4-D Choline, glyphosate, glufosinate, FOP herbicides
- ▶ Platform available in PowerCore® Enlist™ for above-ground insect control OR Vorceed™ Enlist™ for above- and below-ground insect control

NEW

P9845V™
2950 CHU



P0035AM™
3000 CHU



- ▶ Delivers increased yield potential
- ▶ Excellent drought tolerance with Optimum® AQUAmax® trait

P0075AM™
3000 CHU



- ▶ Solid agronomics
- ▶ Above average stalk and root strength
- ▶ Very good drought tolerance
- ▶ Above average Northern leaf blight tolerance



Lumivia™
INSECTICIDE SEED TREATMENT

- ▶ Outstanding protection against key early season insect pests to help develop uniform and healthy stands that maximize yield potential.
- ▶ Offers a favourable environmental profile¹.

¹ When used in accordance with label directions

Pioneer® brand Product	Technology Segment	Crop Heat Units																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14						
		CRM	Silk CRM	Physiological CRM	Stalk Strength	Mid-Season Brittle Stalk	Root Strength	Stress Emergence	Drought Tolerance	Staygreen	Grain Drydown	Test Weight	Plant Height	Ear Height	Husk Cover	Gray Leaf Spot	Northern leaf blight	Anthraxnose Stalk Rot	Gibberella Ear Rot	Tar Spot	
P0306AM™		3100	103	101	104	6	4	8	5	9	6	5	6	3	4	6	4	5	4	4	5
P0306Q™		3100	103	101	104	6	4	8	5	9	6	5	6	3	4	6	4	5	4	4	5
P0404AM™		3125	104	100	102	5	6	7	5	8	4	3	5	5	5	6	5	5	4	4	5
P0404Q™		3125	104	100	102	5	6	7	5	8	4	3	5	5	5	6	5	5	4	4	5
P0414AM™		3125	104	104	107	4	5	4	6	8	5	5	6	7	6	5	5	5	6	5	
P0434AM™		3125	104	99	103	6	5	7	5	6	5	5	7	6	5	6	6	5	5	4	5
NEW P04511AM™		3125	104	102	101	6	5	6	5	6	7	3	6	6	5	6	4	6	7	5	5
P0487		3100	104	103	105	5	6	5	6	9	5	4	5	7	6	6	5	6	5	3	6
P0487Q™		3125	104	103	105	5	6	5	6	9	5	4	5	7	6	6	5	6	5	3	6
NEW P04922Q™		3125	104	100	104	6	5	7	6	7	5	3	6	6	6	6	4	6	5	5	8
P0506AM™		3150	105	105	105	6	6	4	5	9	7	7	5	6	5	3	5	6	5	5	6
P0529Q™		3150	105	108	106	6	6	6	5	6	5	8	5	6	6	5	5	6	5	5	6
P0720	Conventional	3200	107	106	109	6	4	7	5	8	6	5	7	5	6	5	4	6	5	4	7
P0720AM™		3225	107	106	109	6	4	7	5	8	6	5	7	5	6	5	4	6	5	4	7
P0720Q™		3250	107	106	109	6	4	7	5	8	6	5	7	5	6	5	4	6	5	4	7
P0806AM™		3250	108	109	109	6	5	6	4	6	5	5	6	6	6	5	5	5	5	4	6
P0859AM™		3250	108	111	111	6	7	6	5	7	7	5	6	6	6	7	5	5	5	3	5
P0953AM™		3300	109	111	113	6	6	6	5	6	6	3	6	6	5	7	5	6	6	3	5
P1197AM™		3400	111	113	113	7	5	5	5	6	8	7	5	6	6	5	5	6	6	5	6

NEW = New Product = Optimum® AQUAMax® trait
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▶ Featured Grain Corn Products

P0404AM™
3125 CHU



- ▶ High yield potential
- ▶ Above average root strength
- ▶ Very good drought tolerance
- ▶ Competitive test weight

P0720AM™
3225 CHU



- ▶ Full season product with good agronomics
- ▶ Above average test weight
- ▶ Very good root and stalk strength
- ▶ Very good drought tolerance

P0859AM™
3250 CHU



- ▶ Excellent yield potential
- ▶ Above average root and stalk strength

P0953AM™
3300 CHU



- ▶ Yield leader in full season maturity
- ▶ Above average root and stalk strength
- ▶ Good test weight



LumiGEN Premium Performance Corn Seed Treatment Package

Product	Group	Disease, Nematode and Insect Protection
NEW Lumiscend™ Pro	4, 7, 22	• Pythium, Rhizoctonia, Fusarium, Corn head smut
Ipconazole	3	
NEW Lumialza™	Biological	• Key nematode species including sting, needle, lance, stubby-root, root-knot, dagger and lesion
Lumivia™ 500	28	• Wireworm, White grub, Seedcorn maggot, Black cutworm

LumiGEN Premium High-Rate Insecticide Package for High Insect Pressure Environments*

Product	Group	Disease, Nematode and Increased Insect Protection
Lumivia™ 750	28	• Enhanced protection from wireworm, White grub, Seedcorn maggot, Black cutworm
Clothianidin 500	4	
NEW Lumiscend™ Pro	4, 7, 22	• Pythium, Rhizoctonia, Fusarium, Corn head smut
Ipconazole	3	
NEW Lumialza™	Biological	• Key nematode species including sting, needle, lance, stubby-root, root-knot, dagger and lesion

* The high-rate insecticide package is not available in Quebec.

▶ Herbicide Management Guide

Pioneer® brand Product	Crop Heat Unit	Technology Segment	Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
		1	23	24	25	26
CHU Range 1950 - 2450						
P6910AM™	1950	AcreMax LIBERTY LINK	●	●	●	●
P7211AM™	2050	AcreMax LIBERTY LINK	●	▼	●	▼
P7389AM™	2075	AcreMax LIBERTY LINK	●	▼	●	●
P7417AM™	2125	AcreMax LIBERTY LINK	●	▼	●	●
P7574AM™	2150	AcreMax LIBERTY LINK	●	■	●	▼
P7844AM™	2225	AcreMax LIBERTY LINK	●	▼	●	●
P7955AM™	2300	AcreMax LIBERTY LINK	●	▼	●	●
P8034LR™	2325	LIBERTY LINK	●	▼	●	■
P8294AM™	2400	AcreMax LIBERTY LINK	●	●	●	●
P8294Q™	2400	QROME LIBERTY LINK	●	●	●	●
P8407	2425	Conventional	●	●	●	●
CHU Range 2500 - 2750						
P8407AM™	2450	AcreMax LIBERTY LINK	●	●	●	●
P8407Q™	2450	QROME LIBERTY LINK	●	●	●	●
P8602AM™	2600	AcreMax LIBERTY LINK	●	■	●	●
P87040AM™	2600	AcreMax LIBERTY LINK	●	●	●	●
P8736AM™	2575	AcreMax LIBERTY LINK	●	▼	●	●
P8859AM™	2600	AcreMax LIBERTY LINK	●	▼	●	●
P8859Q™	2575	QROME LIBERTY LINK	●	▼	●	●
P9188	2600	Conventional	●	▼	●	▼
P9188AM™	2650	AcreMax LIBERTY LINK	●	▼	●	▼
P9233AM™	2725	AcreMax LIBERTY LINK	●	▼	●	●
P9233Q™	2750	QROME LIBERTY LINK	●	▼	●	●
P9301	2725	Conventional	●	●	●	●
CHU Range 2800 - 3050						
P9301AM™	2750	AcreMax LIBERTY LINK	●	●	●	●
P9316Q™	2750	QROME LIBERTY LINK	●	●	▼	●
P9466AML™	2800	AcreMax LIBERTY LINK	●	●	●	●
P9492	2750	Conventional	●	■	●	●
P9492AM™	2825	AcreMax LIBERTY LINK	●	■	●	●
P9535AM™	2825	AcreMax LIBERTY LINK	●	●	●	●
P9608	2800	Conventional	●	●	●	●
P9608AM™	2850	AcreMax LIBERTY LINK	●	●	●	●
P9608Q™	2850	QROME LIBERTY LINK	●	●	●	●
P9624	2825	Conventional	●	●	●	●
P9624Q™	2850	QROME LIBERTY LINK	●	●	●	●

Pioneer® brand Product	Crop Heat Unit	Technology Segment	Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
		1	23	24	25	26
P9815AM™	2925	AcreMax LIBERTY LINK	●	●	●	●
P9823Q™	2925	QROME LIBERTY LINK	●	●	●	●
P9845PCE™	2950	POWERCORE	●	●	●	●
P9946AML™	2950	AcreMax LIBERTY LINK	●	●	●	●
P0035	2975	Conventional	●	●	●	●
P0035AM™	3000	AcreMax LIBERTY LINK	●	●	●	●
P0035Q™	2975	QROME LIBERTY LINK	●	●	●	●
P0075	2975	Conventional	●	●	●	●
P0075AM™	3000	AcreMax LIBERTY LINK	●	●	●	●
P0075Q™	3000	QROME LIBERTY LINK	●	●	●	●
CHU Range 3100 - 3400						
P0157	3000	Conventional	●	●	●	▼
P0306AM™	3100	AcreMax LIBERTY LINK	●	●	●	▼
P0306Q™	3100	QROME LIBERTY LINK	●	●	●	▼
P0404AM™	3125	AcreMax LIBERTY LINK	●	▼	●	●
P0404Q™	3125	QROME LIBERTY LINK	●	▼	●	●
P0414AM™	3125	AcreMax LIBERTY LINK	●	▼	●	▼
P0434AM™	3125	AcreMax LIBERTY LINK	▼	●	●	●
P0487	3100	Conventional	●	●	●	●
P0487Q™	3125	QROME LIBERTY LINK	●	●	●	●
P04922Q™	3125	QROME LIBERTY LINK	●	●	●	●
P0506AM™	3150	AcreMax LIBERTY LINK	●	●	●	●
P0529Q™	3150	QROME LIBERTY LINK	●	●	●	●
P0720	3200	Conventional	●	●	●	●
P0720AM™	3225	AcreMax LIBERTY LINK	●	●	●	●
P0720Q™	3250	QROME LIBERTY LINK	●	●	●	●
P0806AM™	3250	AcreMax LIBERTY LINK	●	●	●	●
P0859AM™	3250	AcreMax LIBERTY LINK	●	▼	●	●
P0953AM™	3300	AcreMax LIBERTY LINK	●	●	●	●
P1197AM™	3400	AcreMax LIBERTY LINK	●	●	●	●

- = Adequate Tolerance
- ▼ = Requires Careful Management
- = Crop Response Warning
- = Insufficient Data

Products not listed on this chart have yet to receive Herbicide Management ratings. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see **page 41**.

Look for the LumiGEN® logo on your Pioneer® brand seed bag tag.



The LumiGEN® mark of assurance represents an industry-leading recipe of the very best seed treatment solutions, ensuring that your crop will win the start, so it can develop to its full potential.

A Mark of Assurance in Seed Treatments



Designed for our genetics



Verified on our genetics



Proven in the field with our genetics



Our industry-leading six-step **PASSER** process is used to deliver market-leading seed treatment recipes by ensuring the highest standards of **Plantability, Application, Seed safety, Stewardship, Efficacy, & Regulatory.**

Pioneer® genetics are protected with LumiGEN seed treatments. Rest assured you'll win the start.



Learn more





FINALLY, AN ENLIST E3™ SOYBEAN WITH DNA FROM PIONEER.

Elite Germplasm Meets Superior Weed Control.

What's inside our highest-yielding soybean? The most advanced weed control trait. Pioneer® brand A-Series soybeans now feature the Enlist E3™ trait, which offers growers improved weed control options with high yield potential.

Bred and Developed to Be Different.

- From lab to field, our extensive breeding and product testing programs ensure our varieties will work in your local conditions.

Pioneer brand A-Series Enlist E3 soybeans have been developed with improved native defensive traits you need to fight SCN, SDS, white mould, *Phytophthora* and other yield-robbing diseases.

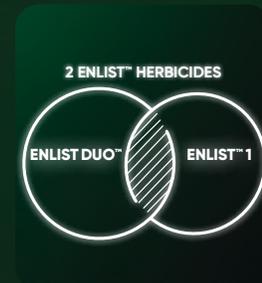
Unlock the Advantages of the Enlist™ Weed Control System.

- Enlist™ technology is the industry's most advanced and fastest-growing herbicide system.

Tolerant to 2,4-D choline, glyphosate and glufosinate.

On-target application: Enlist herbicides feature near-zero volatility with reduced drift potential.

Wide application window.



Not all Enlist E3 soybeans are created equal.

Pioneer.com/E3



Soybeans

What's next for your soybean acres?

We took Enlist™ E3 soybeans and amped them up. Pioneer® brand A-Series Enlist E3 soybeans provide high yields along with the most advanced herbicide trait and tank mix flexibility.



▶▶▶ **What's next happens here.**



High yields and clean fields. Choose Enlist E3™ soybeans from Pioneer®. For control of tough weeds, Enlist herbicides offer choice and tank mix flexibility.

Not all Enlist E3 beans are created equal.
Talk to your Pioneer sales professional.



Pioneer® brand Product	Technology Segment	Relative Maturity	Crop Heat Units	Harvest Standability	Field Emergence	Phytophthora Gene	Phytophthora Field Tolerance	White Mould	Sudden Death Syndrome	Soybean cyst nematode source	Canopy Width	Plant Height for Maturity	Hila Colour
	1	2			3	4	5	6		7	8	9	10
NEW P002A42E™		002	2325	8*	8*	1C	4*	5*	3*	-	5*	4	Y
P005A59E™		005	2400	7	7	1C	3*	6*	4*	-	5*	4	BR
NEW P007A68E™		007	2450	8*	7*	1C	5*	6*	2*	-	5*	5	BF
P04A98E™		04	2625	7*	7	1C	7*	7	4*	-	5*	3	BR
NEW P04T02E™		04	2625		7*	None	5*	3		PI88788	4*	5*	BF
P06A38E™		06	2675	7*	6	1C	7*	6	4*	-	5	4	BR
NEW P07T59E™		07	2700		7*	3A		3*		Peking	6*	5*	BF
NEW P08A44E™		08	2725	7*	6	1K	3*	4	4*	PI88788	5*	5	BR
P12T94E™		12	2825	7	7	None	7	5*	3*	PI88788	5	4	IB
NEW P14A12E™		14	2875	7*	7*	1C	3*	3	7*	Peking	7*	5	BR
P17A87E™		17	2950	7	7	1K	5*	4	6*	PI88788	5	5	BL
P18A73E™		18	2975	7	7	1K	3*	5	7*	Peking	5	4	BL

NEW = New Product

Ratings denoted with an asterisk () reflect preliminary data subject to change when additional data becomes available.

Pioneer® brand soybeans are protected by the industry-leading LumiGEN® seed treatment package, including LumiTreo™ fungicide seed treatment. Ensure that you add Lumiderm™ insecticide seed treatment for maximum protection.

Seed treated with this seed treatment is not considered a Class E pesticide under the Ontario Regulation 63/09 of the Pesticides Act or a Class 3A pesticide under Quebec regulations, sections 74.1 and 74.4 of the Management Code pesticides (Class 3A effective September 8, 2018). For more information, talk to your local ag retail. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see page 43.

Crop Protection Solutions at your Fingertips

Download the Corteva Agriscience Field Guide app! It's a straightforward and easy tool to help choose the right herbicides, insecticides and fungicides to help protect your crop and maximize your profit potential.



► Featured Soybean Products

NEW

P007A68E™

2450 CHU



- ▶ Enlist E3 soybean variety with excellent yield potential
- ▶ Very good tolerance to white mould
- ▶ Above average Phythophthora field tolerance

P04A98E™

2625 CHU



- ▶ Agronomic leader with great yield potential for maturity
- ▶ Very good Phythophthora field tolerance and Rps1C gene make this product suitable for poorly drained soils
- ▶ High tolerance to white mould

P06A38E™

2675 CHU



- ▶ Leading yield potential
- ▶ Above average tolerance to white mould
- ▶ Very good Phythophthora field tolerance

NEW

P08A44E™

2725 CHU



- ▶ Great yield potential
- ▶ Good harvest standability and highly tolerant to brown stem rot
- ▶ Good white mould tolerance and Phythophthora protection with 1K Phythophthora gene

NEW

P14A12E™

2875 CHU



- ▶ Versatile variety with Peking soybean cyst nematode protection
- ▶ Very good tolerance to sudden death syndrome and highly tolerant to brown stem rot
- ▶ Wider canopy width makes this product highly suitable for wide row production

P17A87E™

2950 CHU



- ▶ Performs well across multiple environments
- ▶ Moderate plant height, canopy and Phythophthora field tolerance
- ▶ Soybean cyst nematode Source PI88788



Look for the LumiGEN® logo on your seed bag and feel assured that you are using proven, industry-leading seed treatments that have been designed for Pioneer® seed genetics. For more information, please see page 17.

Pioneer® brand Product	Technology Segment	Relative Maturity	Crop Heat Units	Harvest Standability	Field Emergence	Phytophthora Gene	Phytophthora Field Tolerance	White Mould	Sudden Death Syndrome	Soybean cyst nematode source	Canopy Width	Plant Height for Maturity	Hila Colour
	1	2			3	4	5	6		7	8	9	10
NEW P19A37E™		19	3000	7	8	1K,3A		4	6*	PI88788	5*	5	BL
NEW P20A48E™		20	3025	7	7	1K	3*	5	4*	PI88788	4*	6	BR
P21A53E™		21	3050	7	7	1C	5*	3	5*	PI88788	5*	4	BR
NEW P22A67E™		22	3075	6	7	1K,3A		4	6*	PI88788	5*	5	BL
NEW P24A07E™		24	3125	6	6	1K	3*	5	4*	PI88788	4*	7	BR
P25A16E™		25	3150	8	7	1K	4*	6	7	Peking	6	5	BR
P28A39E™		28	3225	7	7	1K	4*	4	5*	PI88788	5*	5	BR
NEW P28A65E™		28	3225	8	6	1K	5*	4	6*	PI88788	6	4	BL
P29A19E™		29	3250	7	7	1K,3A		4	7	PI88788	6	5	BL
NEW P30A75E™		30	3275	7	7*	1K	5*	5*	6*	PI88788	6*	4	BR
NEW P33A62E™		33	3350	7	7	1C	4*	4*	5*	PI88788	4*	6	BR

NEW = New Product

Ratings denoted with an asterisk () reflect preliminary data subject to change when additional data becomes available.

Pioneer® brand soybeans are protected by the industry-leading LumiGEN® seed treatment package, including LumiTreo™ fungicide seed treatment. Ensure that you add Lumiderm™ insecticide seed treatment for maximum protection.

Seed treated with this seed treatment is not considered a Class E pesticide under the Ontario Regulation 63/09 of the Pesticides Act or a Class 3A pesticide under Quebec regulations, sections 74.1 and 74.4 of the Management Code pesticides (Class 3A effective September 8, 2018). For more information, talk to your local ag retail. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, **see page 43.**



LumiTreo™
FUNGICIDE SEED TREATMENT

NEW LumiTreo™ fungicide seed treatment provides the best, most advanced protection against phytophthora for healthier, more vigorous soybean stands and higher yield potential.

▶ **Featured Soybean Products**

NEW

P19A37E™

3000 CHU



- ▶ Versatile variety with top end yield potential and above average tolerance to sudden death syndrome
- ▶ Double stacked Phytophthora gene and exceptional emergence allow for early planting and placement on poorly drained soils
- ▶ Highly tolerant to brown stem rot

NEW

P22A67E™

3075 CHU



- ▶ Versatile early-Group 2 leader variety with best-in-class yield potential
- ▶ Attractive variety with double-stacked Phytophthora genes and strong sudden death syndrome tolerance makes this a good early planting option
- ▶ Highly tolerant to brown stem rot

NEW

P24A07E™

3125 CHU



- ▶ Versatile mid-Group 2 Enlist E3 variety with competitive white mould tolerance
- ▶ Great option for variable fields where extra height is desired
- ▶ Tighter canopy width, well suited to narrow row configurations

P25A16E™

3150 CHU



- ▶ High yield potential product with Peking soybean cyst nematode resistance
- ▶ Very good sudden death syndrome tolerance
- ▶ Excellent tolerance to frog-eye leaf spot

P29A19E™

3250 CHU



- ▶ A high yield potential product with very good sudden death syndrome tolerance
- ▶ Contains Phytophthora stacked Rps 1K/3A genes
- ▶ Position on challenging soils to leverage plant stature and manage standability

NEW

P30A75E™

3275 CHU



- ▶ Enlist E3 early-Group 3 soybean variety with very good harvest standability and leader yield potential
- ▶ Above average tolerance to sudden death syndrome



Lumiderm™
INSECTICIDE SEED TREATMENT

Add Lumiderm™ insecticide seed treatment to your soybean package – it provides broad spectrum protection against early season pests¹. Lumiderm complements LumiTreo fungicide seed treatment and results in healthier, more abundant plant stands.

¹ When used in accordance with label directions

Pioneer® brand Product	Technology Segment	Relative Maturity	Crop Heat Units	Harvest Standability	Field Emergence	Phytophthora Gene	Phytophthora Field Tolerance	White Mould	Sudden Death Syndrome	Soybean cyst nematode source	Canopy Width	Plant Height for Maturity	Hila Colour
	1	2			3	4	5	6		7	8	9	10
P05T80†	Conventional	05	2650	7	7	None	9	5		-	5	6	TN
P07A10	Conventional	07	2700	6*	8	1C	7	4	3*	PI88788	7	6	Y
NEW P09A20†	Conventional	09	2750		7*	1C 3A				-	4*	5*	TN
P11A10	Conventional	11	2800	6	7	3A		4*	4*	PI88788	4	6	Y
P11A67†	Conventional	11	2800	8	7			6*		-	6	6	TN
P13A03	Conventional	13	2850	6*	7	1C	5	4*	4*	PI88788	5	4	Y
P15A20	Conventional	15	2900	7	8	1C	7	5*	3*	PI88788	5	5	Y
P21A20	Conventional	21	3050	6	7	1C	5	4	5	PI88788	6	4	TN
P003A97x™	 ROUNDUP READY 2 XTEND SOYBEANS	003	2350	6	7	1K	4	4	3*	PI88788	5	4	TN
P005A83x™	 ROUNDUP READY 2 XTEND SOYBEANS	005	2400	7	8	1C	5	5*		Peking	5	6	BL
P006A37x™	 ROUNDUP READY 2 XTEND SOYBEANS	006	2425	7	7	1C	5	4*	3*	-	5	5	BR
P00A75x™	 ROUNDUP READY 2 XTEND SOYBEANS	00	2525	6	7	1K	5	4	4*	-	6	5	IB
P03A11x™	 ROUNDUP READY 2 XTEND SOYBEANS	03	2600	7	8	1K	6	7*	4*	PI88788	6	3	BF
P05A35x™	 ROUNDUP READY 2 XTEND SOYBEANS	06	2675	7	6	1C	6	6	3*	-	4	3	BF

NEW = New Product

† Available only in Québec

Ratings denoted with an asterisk () reflect preliminary data subject to change when additional data becomes available. **Pioneer® brand soybeans are protected by the industry-leading LumiGEN® seed treatment package, including LumiTreo™ fungicide seed treatment. Ensure that you add Lumiderm™ insecticide seed treatment for maximum protection.**

Seed treated with this seed treatment is not considered a Class E pesticide under the Ontario Regulation 63/09 of the Pesticides Act or a Class 3A pesticide under Quebec regulations, sections 74.1 and 74.4 of the Management Code pesticides (Class 3A effective September 8, 2018). For more information, talk to your local ag retail. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, **see page 43.**

Acapela™

FUNGICIDE

Acapela™ fungicide is a Group 11 fungicide that provides plant health benefits in soybeans.

- ▶ One-of-a-kind protection
- ▶ Unique movement properties
- ▶ Exceptional performance

Viatude™

Onmira™ active

FUNGICIDE

Unleash best-in-class white mould protection for stronger and more vigorous soybeans with Viatude™ fungicide.

- ▶ White mould protection from two of the strongest white mould actives
- ▶ Multiple effective modes of action
- ▶ Protects plants inside and out

Pioneer® brand Product	Technology Segment	Relative Maturity	Crop Heat Units	Harvest Standability	Field Emergence	Phytophthora Gene	Phytophthora Field Tolerance	White Mould	Sudden Death Syndrome	Soybean cyst nematode source	Canopy Width	Plant Height for Maturity	Hila Colour
	1	2			3	4	5	6		7	8	9	10
P06A48x™		06	2675	7	7	1C	4	6	4*	PI88788	5	4	BF
P07A18x™		07	2700	8	8	1K	5	5	6*	PI88788	6	5	BR
P09A53x™		09	2750	7	7	1K	5	5	3*	-	5	6	BR
P09A62x™		09	2750	5	8	1C	5	6	3*	-	5	5	BF
P13A89x™		13	2850	7	7	1K	5	4	6	Peking	5	6	BL
P16A84x™		16	2925	7	7	1K	6	6	7	PI88788	6	5	IB
P18A98x™		18	2975	7	7	1C	6	6	5	PI88788	5	6	IB
P20A22x™		20	3025	8	8	1K,3A		6	7	PI88788	6	3	BL
P21A28x™		21	3050	7	8	1K	5	6	7	Peking	6	5	BL
P24A80x™		24	3125	8	7	1K	5	6	6	PI88788	5	5	BL
P25A68x™		25	3150	7	7	1K	4	5	7	Peking	6	4	BL
P29A25x™		29	3250	7	7	1K	5	6	6	PI88788	5	6	BR
P31A95Bx™		31	3300	6	7	1K	5	4	5	PI88788	6	6	BL

NEW = New Product

Ratings denoted with an asterisk () reflect preliminary data subject to change when additional data becomes available.

Pioneer® brand soybeans are protected by the industry-leading LumiGEN® seed treatment package, including LumiTreo™ fungicide seed treatment. Ensure that you add Lumiderm™ insecticide seed treatment for maximum protection.

Seed treated with this seed treatment is not considered a Class E pesticide under the Ontario Regulation 63/09 of the Pesticides Act or a Class 3A pesticide under Quebec regulations, sections 74.1 and 74.4 of the Management Code pesticides (Class 3A effective September 8, 2018). For more information, talk to your local ag retail. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see page 43.

Pioneer brand soybeans are protected by industry-leading LumiGEN seed treatments. Consult your Pioneer sales representative for specific treatment suggestions.



LumiGEN Premium Performance Soybean Seed Treatment Package

Product	Group	Advanced Insect and Disease Protection
LumiGEN FST with LumiTreo™	3, 4, 11, 49	<ul style="list-style-type: none"> Phytophthora Pythium Rhizoctonia Fusarium
Lumiderm™	28	<ul style="list-style-type: none"> Bean leaf beetle Seed corn maggot European chafer Masked chafer June beetle Wireworm Soybean aphid

The LumiGEN Premium Performance Soybean Seed Treatment Package may be available with an inoculant and/or nematocide for further protection.



▶▶▶ Silage Corn

Ready for what's next in silage corn?

Bovalta™ BMR is here. And it's not the BMR you think you know. Bovalta BMR combines the digestibility you've come to expect with a whole new level of yield potential.

Bovalta™
BMR

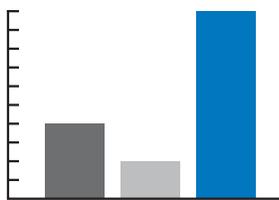
**FULL COWS.
FULL MILK TANKS.**

NEW Bovalta™ BMR.

This isn't the BMR you think you know.

Three Key Differences with Bovalta™ BMR

1. Highest standard for digestibility & milk production^{1,2}



6-8 points higher NDFD30 compared to non-BMR checks¹

2. Higher standard for yield³



Nearly one tonne per acre higher silage yield potential compared to BMR hybrids sold today³

3. Higher standard for disease resistance, agronomics^{3,4} and on-farm business impact.



Improved agronomics, disease resistance and plant health compared to BMR hybrids sold today⁴

¹ Corteva Agriscience. Research studies of NDFD. Data on file, 2021.

² Gencoglu, Hidir, Joe Lauer, and Randy Shaver. "Brown Midrib Corn Silage for Lactating Dairy Cows: A Contemporary Review." University of Wisconsin-Madison, Departments of Dairy Science and Agronomy, January 2008.

³ Corteva Agriscience. Comparisons of BMR corn hybrid yield. Data on file, 2021.

⁴ Corteva Agriscience. Comparisons of disease resistance ratings. Data on file, 2021.

Pioneer® brand Product	Technology Segment	Silage Segment	Silage Crop Heat Units	Silage CRM	Silage Yield	Starch and Sugar	Fibre Digestibility	Silage Crude Protein	Milk Per Acre	Milk Per Ton	Stalk Strength	Root Strength	Stress Emergence	Drought Tolerance	Plant Height	Ear Height	Northern leaf blight	Gibberella Ear Rot	Tar Spot
				15	16	17	18	19	20	21	5	6	9	10	12	13	14		
P9377AMXT™		Silage Specific	2500–2800	93	9	7	7	9	6	6	4	8	6	7	6	8	6	5	
P9789AMXT™		Silage Specific	2600–2900	95	8	7	8	9	8	7	5	6	6	6	6	5	6	4	
P0031q™		Silage Specific	2700–3000	101	8	9	6	6	9	7	5	6	6	6	5	6	6	5	5*
P0242AMXT™		Silage Specific	2800–3100	104	7	9	8	7	8	9	6	5	5	7	6	5	5	6	
P0789AMXT™		Silage Specific	3100–3400	107	9	6	7	7	9	7	6	5	6	4	9	8	5		
P9482SSE™		BMR	2400–2700	95	6	6	9	7	7	9	7	4	7	5	8	8	3		
NEW P95075q™		Bovalta BMR	2500–2800	95	7	7	9	8	7	8		6	5		5	6	4		
P9648SXRA™		BMR	2500–2800	95	6	6	9	8	8	9	5	4	5	4	9	6	4		
P0256AMXT™		BMR	2800–3100	104	6	7	9	7	7	8		4	6	6	5	5	5		
NEW P08133q™		Bovalta BMR	3100–3400	108	7	7	9	8	7	9		6	5		6	5	5		
NEW P13968AMXT™		Bovalta BMR	3200–3400	113	6	7	9	8	6	9		6	6		5	5	5		

NEW = New Product

Disease & Pest Ratings: 8–9 = Highly Resistant; 6–7 = Resistant; 4–5 = Moderately Resistant; 1–3 = Susceptible; Blank = Insufficient Data.

~ The minor component of this blend is not a BMR corn hybrid

^For more information, see page 41, footnote 1.

Pioneer® brand silage corn products are protected by the industry-leading LumiGEN® seed treatment package, including Lumivia™ insecticide seed treatment, new Lumialza™ nematocidal seed treatment, and our new Lumiscend™ Pro fungicide seed treatment package.

Lumivia and Lumialza are not considered a Class E pesticide under the Ontario regulation 63/09 of the Pesticides Acts. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Lumivia and clothianidin). Clothianidin is a Class E pesticide. Concerning section 74.1 of the Quebec Pesticides Management Code, Lumivia and Lumialza are not considered to be a Class 3A pesticide. For more information, talk to your Pioneer sales representative. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see **page 41**.

▶ Featured Silage Corn Products

P9789AMXT™
2600-2900 CHU



- ▶ High yielding silage specific product
- ▶ Impressive milk per acre
- ▶ Favourable stress emergence

NEW

P95075Q™
2500-2800 CHU



Bovalta
BMR

- ▶ Very good silage yield potential
- ▶ Excellent fibre digestibility

P0789AMXT™
3100-3400 CHU



- ▶ Top end yield potential
- ▶ Impressive plant height
- ▶ Great milk per acre

NEW

P08133Q™
3100-3400 CHU



Bovalta
BMR

- ▶ Very good silage yield potential
- ▶ Excellent fibre digestibility

NEW

P13968AMXT™
3200-3400 CHU



Bovalta
BMR

- ▶ Above average silage yield potential
- ▶ Excellent fibre digestibility



LumiGEN® seed treatments are extensively tested across multiple years, geographies and environments. LumiGEN seed treatments are selected and verified through our rigorous PASSER process. For more information, please see page 17.

Pioneer® brand Product	Technology Segment	Silage Segment	Silage Crop Heat Units	Silage CRM	Silage Yield	Starch and Sugar	Fibre Digestibility	Silage Crude Protein	Milk Per Acre	Milk Per Ton	Stalk Strength	Root Strength	Stress Emergence	Drought Tolerance	Plant Height	Ear Height	Northern leaf blight	Gibberella Ear Rot	Tar Spot
				15	16	17	18	19	20	21	5	6	9	10	12	13	14		
P6910AM™		Dual Purpose	1800–2100	71	6	8	7	6	6	7	5	5	4	6	4	4	3		
P7574AM™		Dual Purpose	2000–2300	79	9	7	6	8	9	6	6	4	6	5	6	6	4		
P7844AM™		Dual Purpose	2100–2400	80	7	8	7	8	6	7	6	6	4	6	5	6	6		
P8294Q™		Dual Purpose	2300–2600	83	8	7	5	7	8	6	5	4	5	6	7	7	5		
P8859Q™		Dual Purpose	2300–2600	82	7	8	7	7	7	7	6	6	6	7	5	7	5		
P8407Q™		Dual Purpose	2400–2700	86	8	8	8	8	8	8	7	5	4	7	5	5	6		
P8736AM™		Dual Purpose	2400–2700	87	8	9	7	7	7	8	4	4	4	7	7	7	6	6	
P9233Q™		Dual Purpose	2500–2800	90	8	8	7	6	8	8	5	7	4	6	6	7	6	5	
P9466AML™		Dual Purpose	2500–2800	91	8	8	7	6	8	7	7	6	7	7	6	6	5	5	5
NEW P9845PCE™		Dual Purpose	2600–2900	98	9	8	6	6	8	6	5	5	6	9	6	6	6	5	4
P9823Q™		Dual Purpose	2600–2900	98	9	7	7	7	8	7	5	6	5	6	6	6	6	5	5*
P0487Q™		Dual Purpose	2700–3000	101	8	9	7	7	8	8	5	5	6	9	7	6	6	3	6
P0035Q™		Dual Purpose	2700–3000	101	9	7	7	6	8	7	5	6	5	9	6	5	5	5	7
P0075Q™		Dual Purpose	2800–3100	106	8	7	9	7	8	8	6	6	6	8	5	5	6	6	6
P0720Q™		Dual Purpose	3100–3400	112	7	8	8	7	9	9	6	7	5	8	5	6	6	4	7

NEW = New Product

= Optimum® AQUAMax® trait

Disease & Pest Ratings: 8–9 = Highly Resistant; 6–7 = Resistant; 4–5 = Moderately Resistant; 1–3 = Susceptible; Blank = Insufficient Data.

~ The minor component of this blend is not a BMR corn hybrid

^ For more information, see page 41, footnote 1.

* Ratings denoted with an asterisk (*) reflect preliminary data subject to change when additional data becomes available.

Pioneer® brand silage corn products are protected by the industry-leading LumiGEN® seed treatment package, including Lumivia™ insecticide seed treatment, new Lumialza™ nematocidal seed treatment, and our new Lumiscend™ Pro fungicide seed treatment package.

Lumivia and Lumialza are not considered a Class E pesticide under the Ontario regulation 63/09 of the Pesticides Acts. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Lumivia and clothianidin). Clothianidin is a Class E pesticide. Concerning section 74.1 of the Quebec Pesticides Management Code, Lumivia and Lumialza are not considered to be a Class 3A pesticide. For more information, talk to your Pioneer sales representative. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, see **page 41**.

► Featured Silage Corn Products

P9823^Q[™]
2600-2900 CHU



- ▶ Qrome product for corn on corn acres
- ▶ Excellent silage yield potential
- ▶ Outstanding milk per acre
- ▶ Solid fibre digestibility

P0035^Q[™]
2700-3000 CHU



- ▶ Excellent silage yield potential
- ▶ Excellent drought tolerance with Optimum Aquamax trait
- ▶ Very good starch and sugar

NEW
P9845^{PCE}[™]
2950 CHU



- ▶ Excellent silage yield potential
- ▶ Great milk per ton
- ▶ Available in NEW Vorceed[™] Enlist[™] with RNAi technology for corn-on-corn acres
- ▶ Enlist[™] weed control system includes herbicide tolerance to 2,4-D Choline, glyphosate, glufosinate, FOP herbicides

NEW
P9845^V[™]
2950 CHU



P7574^{AM}[™]
2000-2300 CHU



- ▶ Excellent yielding early season silage hybrid
- ▶ Superb milk per acre
- ▶ Tall plant
- ▶ Good stress emergence

P8294^Q[™]
2300-2600 CHU



- ▶ Excellent yield potential
- ▶ Tall plant
- ▶ Early Qrome product for corn on corn acres
- ▶ Great milk per acre

P9233^Q[™]
2500-2800 CHU



- ▶ Dual purpose product with excellent yield potential and starch score
- ▶ Outstanding milk per acre and milk per ton



► Our Feed Solutions Bring it All Together to Set You Apart

When it comes to forages, Pioneer has the ability to provide livestock producers with great products, people and solutions through every stage of silage production. The Silage Zone® resource combines proven products, unmatched support and forage management solutions to help deliver high-quality forages for your livestock operation.

Forage Products With Your Livestock In Mind

- ▶ Bovalta™ BMR hybrids
- ▶ BMR Corn Silage
- ▶ Dual-Purpose Corn Hybrids
- ▶ Inoculants
- ▶ Alfalfa
- ▶ HarvXtra® Technology

Bovalta[™]
BMR

Our team of forage experts are available for on-farm support all season. From helping you select the right products for your specific acres, to optimum harvest and storage tips, Pioneer is dedicated to your success.

Alfalfa

What's Next Happens Here.

Alfalfa is no longer a one-size-fits-all crop. Pioneer® brand alfalfa is built with unrivaled agronomic packages to stand up against yield limiting pests and winter stress, the mix of traits delivers excellent forage yield potential and quality for your operation

Pioneer® brand Product	Technology Segment	Forage Yield	Fall Dormancy	Winterhardness	Stability or Lodging Resistance	Relative Forage Quality (RFQ)	Milk Yield per Acre	Disease Resistance Index	Anthraxnose (Race 1)	Aphanomyces Root Rot (Race 1)	Aphanomyces Root Rot (Race 2)	Bacterial Wilt	Fusarium Wilt	Phytophthora Root Rot	Verticillium Wilt	Pea Aphid
	1	2	3	4	5	6	7	8								
Conventional Muscle/High Yield Varieties																
54VQ52		9	4	8	7	8	9	9	8	8	8	8	7	9	8	8
54Q29		9	4	8	7	8	9	9	8	9	7	9	8	9	8	8
55Q27		8	5	8	6	8	8	9	9	8	6	9	8	9	8	7
Forage Quality Varieties																
54HVX42 ⁺		7	4	8	7	9 ⁺	9	8	9	8	5	8	8	8	8	7
54HVX41 ⁺		7	4	8	6	9 ⁺	9	8	8	8	5	8	8	9	8	7
54Q16 [†]		8	4	8	8	9	8	9	9	9	8	9	9	9	9	7
54Q14 [†]		7	4	8	8	8	7	9	9	9	7	9	9	9	9	7
Potato Leafhopper Resistant Variety																
55H96 [^]		9	5	8	7	7	8	9	9	9	9	9	9	9	7	7
Premium Dormant Blends																
54B66 [™]		7	4	8	7	7	7	7	8	7	5	8	7	8	7	7

All Pioneer products are varieties unless designated with TM, in which case it is comprised of more than one variety
[^] Forage yield scores based on trials experiencing moderate to heavy leafhopper infestation, with no insecticide applied.
⁺ Varieties with HarvXtra® technology (reduced lignin trait) will have significantly higher RFQ values than varieties developed using conventional breeding techniques when harvested on the same date.

[†] Forage yield scores reflect the yield increase compared to standard alfalfa types under one or more lodging events at harvest.
 For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, **see page 43.**

► Sila-Bac® brand Nutrivail® feed technology

Improves Fermentation
Enhances Bunklife
Improves Fibre Digestibility

CORN FIBRE TECHNOLOGY

11CFT

Helps to improve nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering corn silage pH. Contains a proprietary *L. buchneri* strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high-production animals fed high levels of corn silage. Can allow for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

Registered product claims:

- ▶ Improved dry matter intake
- ▶ Improved neutral detergent fibre digestibility
- ▶ Improved gain/tonne of silage fed
- ▶ Improved feed efficiency
- ▶ Reduced heating at feeding
- ▶ Reduced dry matter loss at feeding

** *** ***

GRASS FIBRE TECHNOLOGY

11GFT

Helps to improve nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering grass or cereal silage pH. Contains a proprietary *L. buchneri* strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high production animals fed high levels of cereal or grass forage. Can allow for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

Registered product claims:

- ▶ Improves acid detergent fibre (ADF) digestibility
- ▶ Improves neutral detergent fibre (NDF) digestibility

** *** ***

ALFALFA FIBRE TECHNOLOGY

11AFT

Helps to improve nutrient conservation and fibre digestibility. Reduces dry matter loss and protein degradation by rapidly lowering alfalfa silage pH. Contains a proprietary *L. buchneri* strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high-production animals fed high levels of alfalfa forage. Can allow for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

Registered product claims:

- ▶ Improves acid detergent fibre (ADF)
- ▶ Improves neutral detergent fibre (NDF)
- ▶ Improves crude protein digestibility of alfalfa silage ensiled at 35%-45% dry matter

** *** ***

Sila-Bac® brand Inoculants

		Improves Fermentation	Enhances Bunklife	Improves Fibre Digestibility
CORN SILAGE				
11C33 Helps to improve corn silage nutritional value by rapidly lowering pH to conserve sugar and starch. Significantly improves bunklife as a result of the inclusion of a proprietary fast acting <i>L. buchneri</i> strain. Provides improved bunklife and stable feed in 7 days.	Registered product claims: <ul style="list-style-type: none"> Reduces heating at feeding Reduces dry matter loss at feeding Reduces dry matter loss during ensiling 	**	***	**
	Registered product claims: <ul style="list-style-type: none"> Improved silage protein quality (soluble) Improved feed efficiency (soluble) Improved fibre (ADF) digestibility (soluble) Improved fibre fraction (soluble) Improved average daily gain (soluble) 	**	*	**
HIGH-MOISTURE CORN				
11B91 Combines the benefits of 1189 with significantly improved bunklife as a result of the inclusion of a proprietary fast acting <i>L. buchneri</i> strain. Provides improved bunklife and stable feed in 7-days.	Registered product claims: <ul style="list-style-type: none"> Reduces heating at feeding Reduces dry matter loss at feeding Reduces dry matter loss during ensiling 	***	***	
	Registered product claims: <ul style="list-style-type: none"> Improved dry matter retention Increased dry matter intake, average daily gain and feed efficiency in beef Improved feed efficiency of growing-finishing beef cattle when used as directed on high moisture ear corn harvested between 30-40% moisture 	***	*	
GRASS / CEREAL				
11G22 Helps to improve grass and cereal silage nutritional value by rapidly lowering pH to conserve sugar and starch. Significantly improves bunklife as a result of the inclusion of a proprietary fast acting <i>L. buchneri</i> strain. Provides improved bunklife and stable feed in 7 days.	Registered product claims: <ul style="list-style-type: none"> Reduces heating at feeding Reduces dry matter loss at feeding Reduces dry matter loss at/during ensiling 	**	***	*
	Registered product claims: <ul style="list-style-type: none"> Improved silage protein quality (soluble) Improved feed efficiency (soluble) Improved fibre (ADF) digestibility (soluble) Improved fibre fraction (soluble) Improved average daily gain (soluble) 	***	*	*
ALFALFA SILAGE				
11H50 Helps to improve alfalfa silage nutritional value by rapidly lowering pH to conserve sugars. Significantly reduces protein degradation in alfalfa silages.	Registered product claims: <ul style="list-style-type: none"> Improved dry matter digestibility 	***	**	*

*** Exceptional ** Very Good * Good

▶▶▶ **Wheat**

What's Next Happens Here.

Built with superior winterhardness and disease resistance, Pioneer® brand wheat delivers best-in-class yield potential. Our diverse lineup of wheat varieties offers market-leading agronomic traits to fit your needs.

Pioneer® brand Product	Wheat Type	Heading Date - North	Yield for Primary Area	Test Weight	Lodging Resistance	Winterhardness	Plant Height	Leaf Blight	Leaf Rust	Stripe Rust	Powdery Mildew	Fusarium Head Blight	Spindle Streak Mosaic Virus	Soil-Borne Mosaic Virus	Flour Yield Score	Flour Softness Score	Head Type
		1					2										
NEW 25R29† 	Soft Red	1	9	9	7	8	6	6	4	4	5	7	7	6	5	6	Awned
25R40 	Soft Red	0	8	7	7	5	2	5	5	8	8	4	6	6	5	7	Awned
25R46*	Soft Red	-0.5	8	8	6	6	5	5	4	2	6	7	7	7	3	6	Awned
25R61 	Soft Red	-0.5	8	7	5	6	6	5	6	3	6	7	6	6	5	7	Awned
25R64 	Soft Red	-0.5	9	5	7	7	5	5	4	7	8	6	8	7	6	7	Awned
25R74 	Soft Red	-2	8	6	6	6	3	6	6	6	8	7	7	6	6	5	Awned
25W38 	Soft white	2	8	5	8	6	3	6	5	8	9	7	7	7	9	7	Awned

† Pending registration

* Only product available in Québec is 25R46. Not for sale outside of Québec. Trait ratings provide key information useful in selection and management of Pioneer® brand products in your area. Scores are based on period-of-years testing through 2022 harvest and were the latest available at time of printing.

Some scores may change during the 2023 season.

Contact your Pioneer sales representative before planting for the latest trait rating information. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, **see page 44**.

▶▶▶ Canola

What's Next Happens Here.

Pioneer® brand canola hybrids are bred to give you a competitive advantage by delivering disease resistance for top-end performance. Our balanced product lineup features early growth, improved standability and excellent harvestability.

Pioneer® brand Product	Herbicide Tolerant Trait	Pioneer Protector® Technology	Maturity	Pod Shatter Score	Clubroot Resistance	Clubroot	Blackleg	Blackleg	Sclerotinia	Fusarium Wilt	Verticillium Stripe	Early Growth	Green Seed Content	Standability	Plant Height
	1		2	3	4	5	6	7	8	9	10	11	12	13	14
45CM39			5	7	CR2	R	R	7		R	4	8	8	7	7
P505MSL			5	7	CR1	R	R	7	6	R	5	9	8	7	8
P506ML			5	6	CR1	R	R	7		R	4	8	8	7	8

Trait ratings provide key information useful in selection and management of Pioneer® brand products in your area. Scores are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 harvest. Contact your Pioneer sales professional before planting for the latest trait rating information. For complete definitions and disclaimers related to product descriptions, characteristic ratings and disease ratings, and all other information contained herein, **see page 44.**



The LumiGEN® Canola Seed Treatment Package provides proven, industry-leading protection from critical diseases and insects in canola.

► The Pioneer Experience



powered by



Enjoy best-in-class product management and high return on investment when you combine local knowledge, expertise, and service with our technology.



HARNESS EXPERTISE ALL SEASON LONG

Field by Field Crop Plans

Stay on track with tailored seed, crop protection, and nutrient crop plans.

- Combine product knowledge and agronomy expertise to create crop plans. For example, plan Qrome® products on corn-on-corn acres or track rotation of soybean cyst nematode resistant varieties.

Agronomic Map Layers

Visualize yield, harvest moisture, varieties planted, seeding rate, and planting date.

- Use Lasso to eliminate headlands and get true field performance data or to easily compare subfield areas across map layers.

Harvest Data Connectivity & Upload

A single place to store and visualize the seasons results.

A single place to store and visualize the seasons results.

- Create a wireless data connection to Granular Insights from your John Deere Operations Center™, Case IH AFS Connect™ or Ag Leader® AgFiniti® accounts, or manually upload data from a USB.

On-Demand Reports

Generate planning, planting, and harvest reports.

- Access planning reports in the tractor cab, share planting reports, and review performance with your Pioneer team to create next year's plans.

Field Notes & Observations

Observe, capture and share field notes with your Pioneer team.

- Geolocated notes and photos let you know which fields are trending favourably and where decisions need to be made.

Analyze Performance

Analyze machine data to understand field and product performance.

- Get a holistic view of yield by field or variety. Drill deeper into results and compare two varieties by field, seeding rate and planting date to understand performance.

Planting Data Connectivity & Upload

Store, visualize, and use data captured in the field.

- Your local team knows where Pioneer® brand products are planted to serve your operation efficiently and discuss end of year results.

Satellite Imagery

Satellite imagery combined with geolocation technology.

- Get a bird's eye view and compare imagery and yield layers to understand potential impact to yield results.

CONTACT YOUR PIONEER SALES REP TO LEARN MORE.

CORN FOOTNOTES

All scores of integrated refuge products are based upon the major component.

All Pioneer products are hybrids unless designated with Q, AM, AML, AMXT, PCE, V, SXRA and SSE, in which case they are brands.

Ratings denoted with an asterisk (*) reflect preliminary data subject to change when additional data becomes available

Product performance in water-limited environments is variable and depends on many factors such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. All products may exhibit reduced yield under water and heat stress. Individual results may vary.

IMPORTANT: Trait rating scores provide key information useful in selection and management of Pioneer® brand products in your area. Information and ratings are based on comparisons with other Pioneer brand products, not competitive products. Information and scores are assigned by Pioneer Research Managers. Scores are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types and may not predict future results. All products within a hybrid family receive the same score unless observations indicate a significant difference. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision. Refer to ca.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product and for product placement and management suggestions specific to your operation and local conditions.

- 1 TECHNOLOGY SEGMENT: AM** - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects.
- AMXT** (Optimum® AcreMax® XTreme) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, a Bt trait, and the Herculex® XTRA genes Optimum® AcreMax® XTreme products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit <http://www.biostatstatus.com/> or visit <https://seedinnovation.ca/hybrid/> to review the EU approval status for specific hybrids marketed in Canada.
- AML** - Optimum® AcreMax® Leptra® products with AVBL, YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects.
- LL** - Contains the LibertyLink® gene for resistance to Liberty® herbicide.
- RR2** - Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labelled glyphosate herbicides when applied according to label directions.
- V** - Vorceed™ Enlist™ products with V, LL, RR, ENL. Contains a single-bag integrated refuge solution with multiple modes of action for

above- and below-ground insects. The major component contains the Herculex® XTRA genes, the RW3 trait and the VTP trait. **ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready® crops 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. Enlist Duo® and Enlist™ 1 are the only 2,4-D products authorized for use with Enlist™ crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions.



Roundup Ready® is a registered trademark used under license from Monsanto Company. LIBERTY, LibertyLink and the Water Droplet are trademarks of BASF. Agrisure® is a trademark of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto. PowerCore® is a registered trademark of Monsanto Technology LLC. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. SmartStax® multi-event technology developed by Corteva Agriscience and Monsanto. SmartStax® and the SmartStax Logo are registered trademarks of Bayer Group.

- 2 CRM (COMPARATIVE RELATIVE MATURITY):** There is not an industry standard for maturity ratings so comparing product maturity and harvest moisture ratings between companies is usually difficult. Use the CRM rating to compare Pioneer® brand products with competitive products of a similar maturity and harvest moisture. CRM ratings, and harvest moistures, for products within a family may vary slightly, depending upon the level of insect (ECB and CRW) infestation. Conventional and straight products with the RR2 gene within a family will usually be 1-2 CRMs earlier than indicated, when insect infestations are moderate to heavy. One CRM difference is about ½ point of moisture difference at harvest.
- 3 PHYSIOLOGICAL CRM:** Measures differences in maturity to zero milklake stage. To help decide if a new product fits your area's growing season, compare its physiological CRM to a product that you plant or one that is successfully used in your area.
- 4 MID-SEASON BRITTLE STALK:** Ratings determined by frequency and severity of stalk snapping at lower to middle stalk internodes from conditions usually favored by rapid or optimum growth. Relative response of products can be affected by planting date, stage of growth, rate of growth, wind severity and other variables. Scores derived from both natural observations and artificial evaluation immediately prior to tasseling. NOTE: Scores do not reflect snapping enhanced by or due to herbicide interaction. The use of growth regulator herbicides such as 2,4-D and dicamba can increase the brittle snap potential of corn products. Products with lower brittle stalk ratings will require more caution and have a higher risk associated with the use

of growth regulator herbicides. Early application, proper rates and application methods, along with both product and herbicide selection can help reduce this risk.

BRITTLE STALK PRECAUTION: In areas with higher potential for brittle stalk breakage, growers must balance the risk of planting products with brittle stalk ratings of less than 4 against the overall performance of more resistant products with higher ratings. All products have a period of susceptibility to brittle stalk. Products with below average ratings may have a longer period of susceptibility, or may experience more severe breakage relative to products with higher scores during period of susceptibility.

- 5 STRESS EMERGENCE:** All products are expected to establish normal stands under average soil conditions. Stress emergence is a measure of the genetic ability or potential to emerge in the stressful environmental conditions of cold, wet soils or short periods of severe low temperatures, relative to other Pioneer brand products. Ratings of 7-9 indicate very good potential to establish normal stands under such conditions; a rating of 5-6 indicates average potential to establish normal stands under moderate stress conditions; and ratings of 1-4 indicate the product has below average potential to establish normal stands under stress and should not be used if severe cold conditions are expected immediately after planting. Stress emergence is not a rating for seedling disease susceptibility, early growth or speed of emergence.
- 6 DROUGHT TOLERANCE:** Drought tolerance is a complex trait, determined by a platform's ability to maintain yield in limited-moisture environments. A higher score indicates the potential for higher yields vs. other platforms of similar maturity in limited-moisture environments.
- 7 GRAIN DRYDOWN:** Compares products of similar maturity for rate of moisture loss during grain drydown. A higher score indicates faster drydown. A lower score indicates slower drydown, or a wider opportunity for silage and high-moisture corn harvest.
- 8 TEST WEIGHT:** Higher score indicates heavier test weight.
- 9 PLANT HEIGHT:** 9 = Very Tall; 1 = Short.
- 10 EAR HEIGHT:** 9 = High; 1 = Low.
- DISEASE PRECAUTION:** Grower should balance product yield potential, product maturity and cultural practice selection against their anticipated risk of a specific disease and need for resistance. In high disease-risk conditions, consider planting products with at least moderate resistance ratings of 4 or higher to help reduce risk. When susceptible products with disease ratings of 1 to 3 are planted in conditions of high disease pressure, the grower assumes a higher level of risk. If conditions are severe, even products rated as resistant can be adversely affected. Independent of yield reduction, diseases can predispose plants to secondary diseases such as stalk rots. This requires individual field and product monitoring for stalk stability and timely harvest when warranted.

DISEASE & PEST RATINGS:

8-9 = Highly Resistant; **6-7** = Resistant;
4-5 = Moderately Resistant; **1-3** = Susceptible;
Blank = Insufficient Data.

11 GRAY LEAF SPOT PRECAUTION: Avoid planting products with a lower gray leaf spot (GLS) rating in continuous corn fields that have a history of GLS infection, unless tillage operations that bury significant amounts of corn residue and inoculum are practiced.

12 NORTHERN LEAF BLIGHT CAUTION: In conditions where northern leaf blight (NLB) risk is high, growers should consider planting only products with at least moderate NLB resistance ratings of 4 or higher.

13 GIBBERELLA EAR ROT CAUTION: Ratings based upon visual symptoms at harvest. If Gibberella ear rot has caused significant damage in the past, growers should consider planting only products with at least moderate Gibberella ear rot ratings of 5 or higher.

14 TAR SPOT CAUTION: Tar spot scores reflect the relative sensitivity of the hybrids evaluated. Products with higher scores pose lower risk of severe disease development. In areas with tar spot pressure, consider using products with higher tar spot ratings. In addition, consider the use of fungicides labelled for use on tar spot when the disease is present. As more evidence is collected, suggested score minimums for high-risk conditions will be developed.

15 SILAGE CRM (SILAGE COMPARATIVE RELATIVE MATURITY): With no industry standard for silage maturity, comparing maturity and harvest moisture across various companies' corn-for-silage hybrids can be difficult. Pioneer silage CRM ratings provide a relative comparison among Pioneer® brand products of rates at which products reach harvestable whole plant moistures. It is on the same scale as the CRM rating provided for grain corn products and does not represent actual days from planting or emergence to harvest moisture or half milklane.

16 SILAGE YIELD: Based on whole-plant yield per acre (adjusted to 35% dry matter) from multi-year comparison with other products within a maturity range not exceeding 5 silage CRM units.

17 STARCH AND SUGAR, %: Percent starch and soluble sugars (DM basis) in the whole-plant sample predicted by NIRS.

18 FIBRE DIGESTIBILITY: Based on 30-hour rumen-fluid based estimate of the percent of ruminally degradable neutral detergent fibre (NDF) as a percent of total NDF in whole-plant samples, predicted by NIRS. Brown MidRib Corn hybrids are designated with "B" since NDFD30 averages 6-8 percentage points higher than non-BMR silage hybrids. To optimize fibre digestibility, growers should consider use of BMR Corn hybrids.

19 SILAGE CRUDE PROTEIN: Based on the amount of crude protein in the whole plant, predicted by NIRS.

20 MILK PER ACRE/BEEF PER ACRE:

9 = Outstanding; **1** = Poor, based on University of Wisconsin MILK2006 utilizing silage yield, nutrient content and digestibility.

21 MILK PER TON/BEEF PER ACRE:

9 = Outstanding; **1** = Poor, based on University of Wisconsin MILK2006 utilizing silage nutrient content and digestibility.

HERBICIDE PRODUCT MANAGEMENT GUIDE:

Under certain environmental conditions any corn product can be injured by any herbicide. This guide can assist in selecting and managing herbicide programs. It is based on replicated research trials and field observations. See your Pioneer sales representative or herbicide representative regarding herbicide families that require careful management. **ALWAYS READ AND FOLLOW ALL LABEL INSTRUCTIONS AND PRECAUTIONS. PIONEER MAKES NO WARRANTY REGARDING THE HERBICIDE CROP RESPONSE INFORMATION IN THIS GUIDE.**

● **ADEQUATE TOLERANCE.** With this particular product, available research and/or field observations suggest this herbicide is unlikely to result in material crop injury under normal circumstances.

▼ **REQUIRES CAREFUL MANAGEMENT.** With this particular product, available research and or field observations suggest this herbicide may exhibit crop injury in challenging environments such as, heavy rainfall during seed germination or seedling emergence, sandy soils, soils low in organic matter, high pH soils, or during periods of excessively cold, hot, dry or wet weather. *University research indicates products within a herbicide class may vary in their degree of crop selectivity. The potential for herbicide interaction may also be impacted by the labelled herbicide rate used and the method or timing of application as well as the addition of additives

■ **CROP RESPONSE WARNING:** With this product in field observations and/or research, crop injury has occurred with this herbicide.

□ **INSUFFICIENT DATA:** Additional testing is needed to evaluate this variety

23 AMIDE (CHLOROACETAMIDE AND OTHERS)

Injury from chloroacetamide herbicides is more prevalent on sandy soils with low organic matter. Additional conditions that may increase the potential for injury include deep planting, cool wet conditions, and/or soil crusting. Management comments for reducing injury potential include:

1. Monitor planting depth.
2. Avoid sandy soils with low organic matter.
3. Use a chloroacetamide herbicide with a safener.
4. Use rotary hoe if crusting occurs, to aid in emergence.
5. Avoid ultra early planting dates.

24 PHENOXY AND BENZOIC ACID (SYNTHETIC AUXINS)

Potential for crop injury from growth regulator herbicides increases when product is under stress, herbicide is applied at a late stage of growth, or high winds occur after application. Management comments for reducing injury potential include:

1. Apply herbicide early within label recommendations (up to 5-6" or V3 for dicamba).
2. Avoid spraying when daytime temperatures are high and corn plants are growing rapidly.

3. Follow labelled rates for specific stages of growth.

4. Avoid spraying when environmental conditions such as drought, cold soils, or wind damage cause abnormal stress.

5. Please read labels carefully. Many herbicides include growth regulator herbicides as part of their pre-mix. Many tank mixes require use of NIS or other additives that may increase injury potential.

25 ISOXAZOLE (4-HPPD INHIBITORS) Crop injury from a pigment inhibitor is more probable on sandy soils with low organic matter. Cool, wet growing conditions may also increase potential for damage. Management comments to reduce the potential for injury include:

1. Follow labelled rates for specific soil types.
2. Avoid sandy soils with low organic matter.
3. Avoid ultra early planting dates to prevent extended slow emergence under cold conditions.
4. Plant seed at least 1.5 inches deep with good seed furrow closure.
5. Aid emergence with a rotary hoe if crusting occurs.

26 SULFONYLUREAS (SU - ALS INHIBITORS) Injury from sulfonylureas is more likely when corn is sprayed after the plant is 10-12 inches tall and/or is under stress extremes such as hot humid or cool dry conditions. Management comments to reduce the potential for injury include:

1. Apply herbicide early within label recommendations (before product is 10-12 inches tall).
2. Avoid spraying when corn is under stress extremes such as hot humid or cool dry conditions.
3. Some sulfonylurea products are restricted on products with maturity shorter than 88 CRM. Review the label carefully before applying any sulfonylurea product to products less than 88 CRM.
4. Use a sulfonylurea herbicides with a safener.

References: (1) 2021 Herbicide Guide for Iowa Corn and Soybean Production, Extension Publication WC-94, B. Hartzler & M. Owen; (2) Weed Control Guide for Ohio, Indiana, and Illinois 2021 Edition, Bulletin 789, The Ohio State University Extension, M. M. Loux, D.Doohan, A. Dobbels and B. Reeb The Purdue Extension; W.G. Johnson, B. Young and J. Ikley University of Illinois Crop Sciences: A. Hager. (3) 2021 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland, Bulletin SRP 1148, Kansas State University, Agricultural Experiment Station & Cooperative Extension Service, D. E. Peterson, W. H. Fick, R.S. Currie, V. Kumar, and J.W. Slocombe.

SOYBEAN FOOTNOTES

All Pioneer products denoted with ™ are brand names.

Ratings denoted with an asterisk (*) reflect preliminary data subject to change when additional data becomes available.

IMPORTANT: Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Individual results may vary.

Trait ratings provide key information useful in selection and management of Pioneer® brand products in your area. Scores are based on testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 harvest. Information and ratings are based on average performance across area of adaptation under normal conditions, over a wide range of both climate and soil types and may not predict future results. Refer to ca.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product and for product placement and management suggestions specific to your operation and local conditions.

1 TECHNOLOGY SEGMENT: Enlist Duo™ and Enlist™ 1 are the only 2,4-D products authorized for use with Enlist™ crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions. **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. **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. Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva Agriscience policies regarding stewardship of those products. In line with these guidelines, our product launch process for responsible launches of new products includes a longstanding process to evaluate export market information, value chain consultations, and regulatory functionality. Growers and end-users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or stack, please visit www.biotechstatus.com. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C. Roundup Ready 2 Xtend® is a registered trademark of Bayer Group used under license.



2 RELATIVE MATURITY: Shows the relative maturity group rating, with the first one or two digits representing the general maturity group,

and the digit following the decimal showing relative maturity within the group on a scale of 0 to 9, with 0 early and 9 late. For example, a soybean product with a relative maturity rating of 008 would be a late product in Group 00 maturity

- 3 FIELD EMERGENCE:** Rating based on speed and strength of emergence in sub-optimal temperatures. **7-9** = Excellent; **4-6** = Average; **1-3** = Below Average.
- 4 PHYTOPHTHORA RESISTANCE GENE:**
Blank = No specific gene for resistance.
RPS1^{AA} = Contains Rps1c or Rps1k Phytophthora resistance
RPS 1A = Provides resistance to races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32 & 36
RPS 1C = Provides resistance to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36
RPS 1K = Provides resistance to races 1-11, 13-15, 17, 18, 21-24, 26, 36, 37
RPS 6 = Provides resistance to races 1-4, 10, 12, 14-16, 18-21, 25, 28, 33-35.
RPS 3A = Resistant to races 1-5, 8-9, 11, 13-14, 16, 18, 23, 25, 28-29, 31-35, 39-41, 43-45, 47-52, 54
RPS 3C = Resistant to races 1-4, 10-16, 18-36, 38-54
- 5 PHYTOPHTHORA FIELD TOLERANCE:** Products with high tolerance scores have demonstrated an ability to thrive in the presence of Phytophthora races to which they lack specific resistance. In some products, tolerance is expressed only after the early seedling growth stage, making such products susceptible to damping off during emergence and early seed growth
- 6 WHITE MOULD:** Scores based on Pioneer research observations of comparative white mold tolerance among various soybean products across multiple locations and years. All products are capable of developing white mold symptoms under severe infestations. To our knowledge, there are no totally resistant products in the industry. However, differences exist in the ability of products 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
- 7 SCN RESISTANCE SOURCE:** There are different sources of genetic resistance to SCN currently deployed in the marketplace: PI88788; PI548402 (also known as Peking).
- 8 CANOPY WIDTH:** **9** = Extremely bushy; **1** = Very narrow.
- 9 PLANT HEIGHT FOR MATURITY:** **9** = Tall; **1** = Short.
- 10 HILA COLOUR:** **BL** = Black; **BR** = Brown; **TN** = Tan; **G** = Gray; **IB** = Imperfect black; **BF** = Buff; **Y** = Yellow (Clear); **M** = Mixed

ALFALFA FOOTNOTES

1 TECHNOLOGY SEGMENT: Use Limitations for HarvXtra® Alfalfa with Roundup Ready® Technology. HarvXtra® Alfalfa with Roundup Ready® Technology hay or hay products must be directed only to Canadian or U.S. domestic uses. Do not export Pioneer® brand alfalfa seed or crops containing HarvXtra with Roundup Ready® technology including hay or hay products to China or any other nations

where import is not permitted. Purchase and use of HarvXtra® alfalfa with Roundup Ready® technology in Canada is limited to the Eastern Provinces (Ontario, Quebec, Prince Edward Island, New Brunswick, and Nova Scotia) and subject to a Seed and Feed Use Agreement. Always Read and Follow Pesticide Label Directions. HarvXtra alfalfa with the Roundup Ready® technology provides crop safety for over-the-top applications of labelled glyphosate herbicides when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. **ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.**

HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® alfalfa with Roundup Ready® technology is enabled with Technology from Nobel Research Foundation Institute, LLC. Roundup Ready® is a registered trademark of Bayer Group, used under license.

TRAIT SCORES: **9**=Outstanding; **1**=Poor; **BLANK** = Insufficient Data, unless otherwise noted are based upon period-of-years testing against other Pioneer® brand products through 2022. Pest resistance, dormancy and winterhardiness ratings based on standard test protocols prescribed by the North American Alfalfa Improvement Conference (NAAIC). Ratings may change over additional years of data collection, or if NAAIC protocols change. Scores are assigned by Pioneer Agronomists and Research Managers from research data across a range of climates and growing conditions and may not predict future results. Variety responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Refer to ca.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product.

- 2 FORAGE YIELD:** Scores are assigned based on period-of-years testing from 2012 through 2022 and includes data from Corteva research trials in CA, ID, MN, NY, OH, and WI and from University trials in CA, ID, MI, MN, NY, OH, OR, PA, WI, and ON, Canada.
- 3 FALL DORMANCY:** Fall dormancy class ratings based on standard test protocols of the NAAIC. **1**=Very fall dormant, **11**=Non-dormant.
- 4 WINTERHARDINESS:** Ratings based on comparison to standard check varieties and research observations over the life of the stand.
- 5 STANDABILITY OR LODGING RESISTANCE:** Score based on plant lodging observations in multiple environments.
- 6 RELATIVE FORAGE QUALITY (RFQ):** RFQ scores based on forage analysis of plant samples collected in multiple environments.
- 7 MILK YIELD PER ACRE:** Scores based on forage analysis results and the University of Wisconsin Milk2006 calculations representing the impact of forage yield, nutrient content and fibre digestibility.
- 8 DISEASE RESISTANCE INDEX (DRI):** Index based on average resistance scores for seven key pests: Bacterial wilt, Verticillium wilt, Fusarium wilt, Anthracnose, Phytophthora and Aphanomyces (Race 1) and Aphanomyces (Race 2).

INOCULANT FOOTNOTES

IMPORTANT: Information and ratings are based on relative comparisons with other Sila-Bac® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additive Research, based on average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future results. Product responses are variable and subject to any number of environmental and management conditions. Please use this information as only part of your product positioning decision. Refer to ca.pioneer.com or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Sila-Bac® brand product.

FERMENTATION: Rate and extent of pH decline and the composition of fermentation acids occurring in silage.

BUNKLIFE: Relative heat development compared to ambient temperature. Bunklife considers both how quickly silage begins to heat and the amount of heat generated while remaining above ambient temperature.

FIBRE DIGESTIBILITY: The digestibility of neutral detergent fibre (NDF) by the ruminant animal expressed as a percentage of the total NDF.

WHEAT FOOTNOTES

IMPORTANT: Information and ratings are based on comparisons with other Pioneer® brand products, not competitive products. Information and ratings are assigned by Pioneer Agronomists and Research Managers, based on average performance across area of adaptation under normal conditions, over a wide range of both climate and soil types, and may not predict future results. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Refer to ca.pioneer.com or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Pioneer® brand product and for product placement and management suggestions specific to your operation and local conditions.

NUMERIC RATINGS: **9** = Excellent; **1** = Poor; **Blank** = Insufficient Data

1 HEADING DATE IN AREAS OF ADAPTATION:

Heading date in days earlier (-) or later (+) than Pioneer® brand variety 25R40

2 PLANT HEIGHT: Low scores = shorter

CANOLA FOOTNOTES

IMPORTANT: Information and ratings are based on comparisons with other Pioneer® brand products, not competitive products. Information and ratings are assigned by Pioneer Agronomists and Research Managers, based on average performance across area of adaptation under normal conditions, over a wide range of both climate and soil types, and may not predict future results. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Refer to ca.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product and for product placement and management suggestions specific to your operation and local conditions.

1 HERBICIDE TOLERANT TRAIT: HYBRIDS WITH THE ROUNDUP READY® GENE (RR) are tolerant to labelled rates of Roundup® branded herbicides. This technology allows for post-emergent applications of Roundup without crop injury or stress (see herbicide label). Labelled Roundup herbicide should only be used over the top of those hybrids and varieties that carry the Roundup Ready designation. Roundup Ready® is a registered trademark of the Bayer Group.

HYBRIDS WITH THE LIBERTYLINK® GENE (LL) are resistant to Liberty® herbicide. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of BASF.

RATINGS: **9** = Excellent; **1** = Poor; **Blank** = Insufficient Data



2 MATURITY: **9** = Late; **6** = Medium; **5** = Medium-Early; **3** = Early; **1** = Very Early

3 POD SHATTER SCORE: **9** = Low risk of Shatter, **1** = High Risk of Shatter

4 CLUBROOT RESISTANCE: Shows different source of Clubroot resistance. CR1 is different from CR2; CR2 is different from CR3, etc

5 CLUBROOT: **R** = Resistant, **S** = Susceptible

6 BLACKLEG: **R** = Resistant; **MR** = Moderately Resistant; **MS** = Moderately Susceptible; **S** = Susceptible

7 BLACKLEG: **9** = Resistant; **1** = Susceptible

8 SCLEROTINIA: **9** = Highly Tolerant; **5** = Moderately Tolerant; **1** = Susceptible

9 FUSARIUM WILT: **R** = Resistant; **S** = Susceptible. Current Fusarium rating is provisional and based on limited data

10 VERTICILLIUM STRIPE: **9** = Resistant, **1** = Susceptible

11 EARLY GROWTH: **9** = Excellent, **1** = Poor. Early growth is recorded when plants are at 4-6 leaf stage. It is a subjective evaluation of healthiness of plants and the soil area covered by their leaves

12 GREEN SEED CONTENT: **9** = Very low count (desired); **1** = Very high count

13 STANDABILITY: **9** = upright (desired); **1** = Severely lodged

14 PLANT HEIGHT: **9** = Tall; **1** = Short (desired)



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