

2024 Corn Hybrid-Herbicide Management Guide & Ratings**



PIONEER

Pioneer developed the Corn Hybrid-Herbicide Management Guide to help our customers manage our products to the best of their abilities. One of four possible ratings is assigned: adequate tolerance, requires careful management, crop response warning, or insufficient data. Ratings are based on replicated research trials and field observations. Under certain environmental conditions any 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 professional or herbicide representative regarding herbicide families that require careful management. Any herbicide family NOT listed in the chart below indicates Pioneer has NO evidence of a hybrid by herbicide interaction concern. Always read and follow all label instructions and precautions. Pioneer makes no warranty regarding the herbicide crop response information in this guide.

Herbicide Families Evaluated	Trade Name Tested	Example Products In Herbicide Family
Amide (Chloroacetamide and Others)	Harness®	Surpass®, Dual II Magnum®, Outlook®, Lasso®, Topnotch®, Zidua®, Degree®, Define®, Ramrod®, Keystone®, Cinch® Breakfree® and FulTime®
Benzoic Acid, Phenoxy (Synthetic Auxins)	Clarity®	Clarity®, 2,4-D, Banvel®, Distinct®, DiFlexx® and Status®
Isoxazole (4-HPPD Inhibitors)	Balance® Flexx, Balance® Pro or Callisto®	Balance Pro, Balance Flexx, Callisto, Impact® and Laudis®
Sulfonylureas (ALS Inhibitors)	Resolve® Q, Option® or Unsafened Resolve®.	Accent®, Basis®, Beacon®, Permit®, Elim®, Steadfast®, Resolve® and sulfonanilides (Python®)

● ADEQUATE TOLERANCE: With the 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 labeled herbicide rate used and the method or timing of application as well as the addition of additives.

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.

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 labeled 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.
6. Enlist® containing corn hybrids, VORCEED™ Enlist® Corn, Powercore® Enlist®, Powercore® Ultra Enlist®, SmartStax Enlist®, or LRE (Liberty®, Roundup® and Enlist®) corn hybrids have built-in tolerance to 2,4-D Choline. They do not have added tolerance to benzoic acid herbicides. Thus, ratings for these hybrids are associated only with benzoic herbicides (i.e., P00177V™)

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 labeled 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.

Sulfonylureas (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:

● Adequate Tolerance ▼ Requires Careful Management ■ Crop Response Warning □ Insufficient Data

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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.

 **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 product.

Hybrid/Brand***	CRM	Technology Segment	Hybrid Family	Market Segment	Herbicide Families			
					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P6909R	69	RR2	P6909		●	■	●	●
P6910AM™	69	AM,LL,RR2	P6910		●	●	●	●
P6910R	69	RR2	P6910		●	●	●	●
P7202AM™	72	AM,LL,RR2	P7202		●	■	●	▼
P72068AM™†	72	AM,LL,RR2	P72068		□	□	□	□
P7211AM™	72	AM,LL,RR2	P7211		●	▼	●	▼
P7213R	72	RR2	P7213		●	▼	●	■
P7227LR	72	LL,RR2	P7527		●	■	●	▼
39F44	73	RR2	39F45		●	▼	●	■
P7389AM™	73	AM,LL,RR2	P7389		●	▼	●	●
P7417AM™	74	AM,LL,RR2	P7417		●	▼	●	●
P7455R	74	RR2	P7955		●	▼	●	●
P74691PCE™*	74	PW,ENL,RIB	P74691					
P7527AM™	75	AM,LL,RR2	P7527		●	■	●	▼
P7527AMXT™	75	AMXT,LL,RR2	P7527		●	■	●	▼
P7574AM™	75	AM,LL,RR2	P7574		●	■	●	▼
P76843PCE™*	76	PW,ENL,RIB	P76843					
P7822AM™	78	AM,LL,RR2	P7822		●	■	●	●
P7822R	78	RR2	P7822		●	■	●	●
P7844AM™	78	AM,LL,RR2	P7844		●	▼	●	●
P7861AM™	78	AM,LL,RR2	P7861		●	■	▼	■
P7861R	78	RR2	P7861		●	■	▼	▼
P78934PCE™*	78	PW,ENL,RIB	P78934					
P78934Q™*	78	Q,LL,RR2	P78934					
P7955AM™	79	AM1,LL,RR2	P7955		●	▼	●	●
P7958AM™	79	AM,LL,RR2	P7958		●	■	●	●
P8034	80	RR2	P8234		●	▼	●	■
P8034LR	80	LL,RR2	P8234		●	▼	●	■
P8048AM™	80	AM,LL,RR2	P8048		●	□	●	●
P82288AM™†	82	AM,LL,RR2	P82288		●	●	●	●
P82288PCE™*	82	PW,ENL,RIB	P82288		●	●	●	●
P8294AM™	82	AM,LL,RR2	P8294		●	●	●	●
P8294Q™	82	Q,LL,RR2	P8294		●	●	●	●
P8352AM™	83	AM,LL,RR2	P8352		●	▼	●	●
P8407	84		P8407		●	●	●	●
P8407AM™	84	AM,LL,RR2	P8407		●	●	●	●
P8407Q™	84	Q,LL,RR2	P8407		●	●	●	●
P8581R	85	RR2	P8581		●	▼	●	●
P8588AM™	85	AM,LL,RR2	P8588		●	▼	●	●
P8592AM™	85	AM,LL,RR2	P8592		●	■	●	●
P8602AM™	85	AM,LL,RR2	P8602		●	■	●	●
P8639AM™	86	AM,LL,RR2	P8639		●	▼	●	▼
P87040†	87		P87040		●	□	●	□
P87040AM™†	87	AM,LL,RR2	P87040		●	□	●	□

● Adequate Tolerance ▼ Requires Careful Management ■ Crop Response Warning □ Insufficient Data

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Hybrid/Brand***	CRM	Technology Segment	Hybrid Family	Market Segment	Herbicide Families			
					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P87040PCE™*	87	PW,ENL,RIB	P87040		●	□	●	□
P87040V™*	87	V,LL,RR2,ENL	P87040		●	□	●	□
P8736AM™	87	AM,LL,RR2	P8736		●	▼	●	●
P8820Q™	88	Q,LL,RR2	P8820		●	●	●	●
P8859AM™	88	AM,LL,RR2	P8859		●	▼	●	●
P8859Q™	88	Q,LL,RR2	P8859		●	▼	●	●
P8989AM™	89	AM,LL,RR2	P8989		●	■	●	●
P90630AM™†	90	AM,LL,RR2	P90630		●	▼	●	□
P90630Q™†	90	Q,LL,RR2	P90630		●	▼	●	●
P91083PCE™*	91	PW,ENL,RIB	P91083					
P91083V™*	91	V,LL,RR2,ENL	P91083					
P9188	91		P9188		●	▼	●	▼
P9188AM™	91	AM,LL,RR2	P9188		●	▼	●	▼
P9188AMXT™	91	AMXT,LL,RR2	P9188		●	▼	●	▼
P9193AM™	91	AM,LL,RR2	P9193		●	●	●	●
P9193Q™	91	Q,LL,RR2	P9193		●	●	●	●
P9211AM™	92	AM,LL,RR2	P9211		▼	■	●	●
P9233AM™	92	AM,LL,RR2	P9233		●	▼	●	●
P9233Q™	92	Q,LL,RR2	P9233		●	▼	●	●
P92399PCE™*	92	PW,ENL,RIB	P92399					
P9301	93		P9301		●	●	●	●
P9301AM™	93	AM,LL,RR2	P9301		●	●	●	●
P9316Q™	93	Q,LL,RR2	P9316		●	●	▼	●
P9377AMXT™	93	AMXT,LL,RR2	P9377		●	▼	●	●
P9466AML™	94	AM,LL,RR2	P9466		●	●	●	●
P9466PCE™*	94	PW,ENL,RIB	P9466		●	●	●	●
P9489AM™	94	AM,LL,RR2	P9489		●	●	●	●
P9489Q™	94	Q,LL,RR2	P9489		●	●	●	●
P9492	94		P9492		●	■	●	●
P9492AM™	94	AM,LL,RR2	P9492		●	■	●	●
P95075Q™†	95	Q,LL,RR2	P95075	BMR,BOV	●	●	●	●
P9535AM™	95	AM,LL,RR2	P9535		●	●	●	●
P9540AM™	95	AM,LL,RR2	P9540		●	●	●	●
P9551Q™	95	Q,LL,RR2	P9551		●	●	●	●
P95819PCE™*	95	PW,ENL,RIB	P95819					
P95819V™*	95	V,LL,RR2,ENL	P95819					
P9608	96		P9608	HAE	●	●	●	●
P9608AM™	96	AM,LL,RR2	P9608		●	●	●	●
P9608Q™	96	Q,LL,RR2	P9608		●	●	●	●
P9619AM™	96	AM,LL,RR2	P9619		●	●	●	▼
P9624†	96		P9624		●	●	●	●
P9624AM™	96	AM,LL,RR2	P9624		●	●	●	●
P9624Q™	96	Q,LL,RR2	P9624		●	●	●	●
P96567AM™*	96	AM,LL,RR2	P96567					
P96567Q™*	96	Q,LL,RR2	P96567					
P96760AM™†	96	AM,LL,RR2	P96760		●	●	●	●
P96760PCE™*	96	PW,ENL,RIB	P96760		●	●	●	●
P96760Q™†	96	Q,LL,RR2	P96760		●	●	●	●
P96760V™*	96	V,LL,RR2,ENL	P96760		●	●	●	●
P97299AM™†	97	AM,LL,RR2	P97299	AQ	●	●	●	●
P97299PCE™*	97	PW,ENL,RIB	P97299	AQ	●	●	●	●
P97299Q™†	97	Q,LL,RR2	P97299	AQ	●	●	●	●
P97299V™*	97	V,LL,RR2,ENL	P97299	AQ	●	●	●	●
P9772AM™	97	AM,LL,RR2	P9772		●	●	●	●
P9789AMXT™	97	AMXT,LL,RR2	P9789		●	●	●	●

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					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P9815AM™	98	AM,LL,RR2	P9815		●	●	●	●
P9823Q™	98	Q,LL,RR2	P9823		●	●	●	●
P9823V™*	98	V,LL,RR2,ENL	P9823		●	●	●	●
P9830AM™	98	AM,LL,RR2	P9830		●	▼	●	●
P9845AM™	98	AM,LL,RR2	P9845	AQ	●	●	●	●
P9845PCE™†	98	PW,ENL,RIB	P9845	AQ	●	●	●	●
P9845V™	98	V,LL,RR2,ENL	P9845	AQ	●	●	●	●
P98533PCE™*	98	PW,ENL,RIB	P98533					
P9884Q™	98	Q,LL,RR2	P9884	BMR	●	●	●	●
P9946AML™	99	AML,LL,RR2	P9946		●	●	●	●
P9955†	99		P9955		●	●	●	●
P9955AM™	99	AM,LL,RR2	P9955		●	●	●	●
P9955PCE™*	99	PW,ENL,RIB	P9955		●	●	●	●
P9955Q™	99	Q,LL,RR2	P9955		●	●	●	●
P9955V™*	99	V,LL,RR2,ENL	P9955		●	●	●	●
P9998	99		P9998	AQ	●	●	●	●
P9998AM™	99	AM,LL,RR2	P9998	AQ	●	●	●	●
P9998Q™	99	Q,LL,RR2	P9998	AQ	●	●	●	●
P00177AM™†	100	AM,LL,RR2	P00177		●	▼ ⁶	●	●
P00177V™†	100	V,LL,RR2,ENL	P00177		●	▼ ⁶	●	●
P0031Q™	100	Q,LL,RR2	P0031		●	●	●	●
P0035†	100		P0035	AQ	●	●	●	●
P0035AM™	100	AM,LL,RR2	P0035	AQ	●	●	●	●
P0035Q™	100	Q,LL,RR2	P0035	AQ	●	●	●	●
P0046AM™	100	AM,LL,RR2	P0046		●	●	●	●
P00549PCE™*	100	PW,ENL,RIB	P00549					
P00549V™*	100	V,LL,RR2,ENL	P00549					
P0075	100		P0075		●	●	●	●
P0075AM™	100	AM,LL,RR2	P0075		●	●	●	●
P0075Q™	100	Q,LL,RR2	P0075		●	●	●	●
P0157	101		P0157	AQ	●	●	●	▼
P0157AM™	101	AM,LL,RR2	P0157	AQ	●	●	●	▼
P0157AMXT™	101	AMXT,LL,RR2	P0157	AQ	●	●	●	▼
P0157WX	101		P0157	WX,AQ	●	●	●	▼
P0220AM™	102	AM,LL,RR2	P0220		●	●	●	●
P0220Q™	102	Q,LL,RR2	P0220		●	●	●	●
P0238XR	102	HXX,LL,RR2	P0238	BMR	●	■	●	●
P0242AMXT™	102	AMXT,LL,RR2	P0242		▼	●	●	●
P0275Q™	102	Q,LL,RR2	P0275	BMR	●	●	●	●
P0306AM™	103	AM,LL,RR2	P0306	AQ	●	●	●	▼
P0306Q™	103	Q,LL,RR2	P0306	AQ	●	●	●	▼
P03115PCE™*	103	PW,ENL,RIB	P03115	AQ				
P03115V™*	103	V,LL,RR2,ENL	P03115	AQ				
P0339AM™	103	AM,LL,RR2	P0339	AQ	▼	▼	●	■
P0339Q™	103	Q,LL,RR2	P0339	AQ	▼	▼	●	■
P0343AML™	103	AML,LL,RR2	P0343		●	●	●	●
P03951PCE™*	103	PW,ENL,RIB	P03951					
P0404AM™	104	AM,LL,RR2	P0404		●	▼	●	●
P0404Q™	104	Q,LL,RR2	P0404		●	▼	●	●
P0414AM™	104	AM,LL,RR2	P0414		●	▼	●	▼
P0421AM™	104	AM,LL,RR2	P0421		●	●	●	●
P0421Q™	104	Q,LL,RR2	P0421		●	●	●	●
P0434AM™	104	AM,LL,RR2	P0434		▼	●	●	●
P04511AM™†	104	AM,LL,RR2	P04511		□	□	□	□

● Adequate Tolerance
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					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P04511V™*	104	V,LL,RR2,ENL	P04511		☐	☐	☐	☐
P0487	104		P0487	AQ	●	●	●	●
P0487PCE™*	104	PW,ENL,RIB	P0487	AQ	●	●	●	●
P0487Q™	104	Q,LL,RR2	P0487	AQ	●	●	●	●
P04922Q™†	104	Q,LL,RR2	P04922		☐	☐	☐	☐
35F50AM™	105	AM,LL,RR2	35F38	YFC	●	●	●	●
P0506AM™	105	AM,LL,RR2	P0506	AQ	●	●	●	●
P0507AM™	105	AM,LL,RR2	P0507		▼	●	●	●
P0507Q™	105	Q,LL,RR2	P0507		▼	●	●	●
P05081AML™*	105	AM,LL,RR2	P05081	AQ				
P0529Q™	105	Q,LL,RR2	P0529		●	●	●	●
P05466Q™†	105	Q,LL,RR2	P05466		●	●	●	●
P05466V™*	105	V,LL,RR2,ENL	P05466		●	●	●	●
P05737*	105		P05737		●	●	●	●
P05737AM™†	105	AM,LL,RR2	P05737		●	●	●	●
P05737PCE™*	105	PW,ENL,RIB	P05737		●	●	●	●
P05737V™†	105	V,LL,RR2,ENL	P05737		●	●	●	●
P0574AM™	105	AM,LL,RR2	P0574	AQ	▼	▼	●	▼
P0574WXQ™	105	Q,LL,RR2	P0574	WX,AQ	▼	▼	●	▼
P0589	105		P0589	AQ	●	●	●	●
P0589AM™	105	AM,LL,RR2	P0589	AQ	●	●	●	●
P0589AMXT™	105	AMX,LL,RR2	P0589	AQ	●	●	●	●
P0595AM™	105	AM,LL,RR2	P0595		●	▼	●	●
P0622AML™	106	AML,LL,RR2	P0622	AQ	●	▼	●	▼
P0622Q™	106	Q,LL,RR2	P0622	AQ	●	▼	●	▼
P06391PCE™*	106	PW,ENL,RIB	P06391					
P0688AM™	106	AM,LL,RR2	P0688		●	●	●	●
P0688Q™	106	Q,LL,RR2	P0688		●	●	●	●
P0720	107		P0720		●	●	●	●
P0720AM™	107	AM,LL,RR2	P0720		●	●	●	●
P0720Q™	107	Q,LL,RR2	P0720		●	●	●	●
P0720WX	107		P0720	WX	●	●	●	●
P0732Q™	107	Q,LL,RR2	P0732		●	▼	●	●
P07340Q™†	107	Q,LL,RR2	P07340		●	●	●	●
P0789AMXT™	107	AMXT,LL,RR2	P0789	YFC	●	●	●	●
P0806AM™	108	AM,LL,RR2	P0806		●	●	●	●
P08075Q™†	108	Q,LL,RR2	P08075		●	●	●	●
P08075V™†	108	V,LL,RR2,ENL	P08075		●	●	●	●
P08133Q™†	107	Q,LL,RR2	P08133	BMR,BOV	●	●	▼	●
P0817Q™	108	Q,LL,RR2	P0817		●	●	●	●
P0843	108		P0843		●	▼	●	●
P0843AM™	108	AM,LL,RR2	P0843		●	▼	●	●
P08527V™*	108	V,LL,RR2,ENL	P08527					
P0859AM™	108	AM,LL,RR2	P0859		●	▼	●	●
34A85	109	RR2	34A85		●	●	●	●
P0908AML™	109	AML,LL,RR2	P0908		●	●	●	●
P0924	109	Q,LL,RR2	P0924		●	■	●	●
P0924Q™	109	Q,LL,RR2	P0924		●	■	●	●
P0924WX	109		P0924	WX	●	■	●	●
P09312V™*	109	V,LL,RR2,ENL	P09312					
P0934WX	109		P0934	WX	●	●	●	●
P0935AM™	109	AM,LL,RR2	P0935		●	●	●	●
P0947Q™	109	Q,LL,RR2	P0947		●	▼	●	●
P0950AM™	109	AM,LL,RR2	P0950		●	●	●	●

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					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P0950Q™	109	Q,LL,RR2	P0950		●	●	●	●
P0953AM™	109	AM,LL,RR2	P0953		●	●	●	●
P0953YHR	109	AM,LL,RR2	P0953		●	●	●	●
P0963AM™	109	AM,LL,RR2	P0963		●	▼	●	●
P0977AM™	109	AM,LL,RR2	P0977		●	●	●	●
P09944AM™†	109	AM,LL,RR2	P09944	YFC	●	●	●	●
P0995AM™	109	AM,LL,RR2	P0995	AQ	▼	▼	●	●
P0995YHR	109	YGCB,HX1,LL,RR2	P0995	AQ	▼	▼	●	●
P1018WX	110		P1018	WX	●	●	●	●
P1027AM™	110	AM,LL,RR2	P1027		●	▼	▼	●
P10477Q™†	110	Q,LL,RR2	P10477		●	●	●	●
P10477V™*	110	V,LL,RR2,ENL	P10477		●	●	●	●
P10625PCUE™*	110	PWUE,RIB	P10625					
P10625V™*	110	V,LL,RR2,ENL						
P1077AM™	110	AM,LL,RR2	P1077		●	●	●	●
P1077YHR	110	YGCB,HX1,LL,RR2	P1077		●	●	●	●
P10811AM™†	110	AM,LL,RR2	P10811		●	●	●	●
P1082AM™	110	AM,LL,RR2	P1082		●	●	●	●
P1089AM™	110	AM,LL,RR2	P1089	AQ,YFC	●	●	●	●
P1089AMXT™	110	AMXT,LL,RR2	P1089	AQ,YFC	●	●	●	●
P1093	110		P1093	YFC	●	●	●	●
P1093Q™	110	Q,LL,RR2	P1093	YFC	●	●	●	●
P1093WXQ™	110	Q,LL,RR2	P1093	WX,YFC	●	●	●	●
P1099Q™	110	Q,LL,RR2	P1099		□	□	□	□
P1108Q™	111	Q,LL,RR2	P1108		●	●	●	●
P1108WX†	111		P1108	WX	●	●	●	●
P1108WXQ™*	111	Q,LL,RR2	P1108	WX	●	●	●	●
P1120WAM™	111	AM,LL,RR2	P1120W	WH	●	▼	▼	●
P1120WQ™	111	Q,LL,RR2	P1120W	WH	●	▼	▼	●
P1122AML™	111	AML,LL,RR2	P1122	AQ	●	■	●	●
P1122VYHR	111	AVBL,YGCB,HX1,LL,RR2	P1122	AQ	●	■	●	●
P1136AM™	111	AM,LL,RR2	P1136		●	●	●	●
P1138AM™	111	AM,LL,RR2	P1138		●	●	●	●
P1138AML™	111	AML,LL,RR2	P1138		●	●	●	●
P1151	111	AM,LL,RR2	P1151	AQ	●	●	●	●
P1151AM™	111	AM,LL,RR2	P1151	AQ	●	●	●	●
P1151Q™	111	Q,LL,RR2	P1151	AQ	●	●	●	●
P1164AM™	111	AM,LL,RR2	P1164		●	●	●	●
P1164V™*	111	V,LL,RR2,ENL	P1164		●	●	●	●
P1170AM™	111	AM,LL,RR2	P1170		●	●	▼	●
P1170YHR™	111	YGCB,HX1,LL,RR2	P1170		●	●	▼	●
P1180XR	111	HXX,LL,RR2	P1180	BMR	●	●	●	●
P1185	111		P1185	YFC	●	▼	●	▼
P1185AM™	111	AM,LL,RR2	P1185	YFC	●	▼	●	▼
P1185Q™	111	Q,LL,RR2	P1185	YFC	●	▼	●	▼
P1197	111		P1197		●	●	●	●
P1197AM™	111	AM,LL,RR2	P1197		●	●	●	●
P1197LR	111	LL,RR2	P1197		●	●	●	●
P1197LRE*	111	LL,RR2,ENL	P1197		●	●	●	●
P1197WX	111		P1197	WX	●	●	●	●
P1197YHR	111	YGCB,,HX1,LL,RR2	P1197		●	●	●	●
P12065Q™†	112	Q,LL,RR2	P12065		●	▼	●	●
P1213AM™	112	AM,LL,RR2	P1213	YFC	●	■	●	●
P1222	112		P1222		●	■	●	●

● Adequate Tolerance
 ▼ Requires Careful Management
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Hybrid/Brand***	CRM	Technology Segment	Hybrid Family	Market Segment	Herbicide Families			
					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P1222AM™	112	AM,LL,RR2	P1222		●	■	●	●
P1222YHR	112	YGCB,,HX1,LL,RR2	P1222		●	■	●	●
P1237AM™	112	AM,LL,RR2	P1237		▼	●	●	●
P12393V™*	112	V,LL,RR2,ENL	P12393					
P1244AM™	112	AM,LL,RR2	P1244	AQ	●	●	●	●
P1244Q™	112	Q,LL,RR2	P1244	AQ	●	●	●	●
P1244YHR	112	YGCB,HX1,LL,RR2	P1244	AQ	●	●	●	●
P1267Q™	112	Q,LL,RR2	P1267	BMR	●	●	●	▼
P1278Q™	112	Q,LL,RR2	P1278		▼	■	▼	▼
P1289AM™	112	AM,LL,RR2	P1289		●	■	●	▼
P1289YHR	112	YGCB,,HX1,LL,RR2	P1289		●	■	●	▼
P12904AML™†	112	AML,LL,RR2	P12904		●	●	●	●
P12904Q™†	112	Q,LL,RR2	P12904		●	●	●	●
P12904V™*	112	V,LL,RR2,ENL	P12904		●	●	●	●
P13050AM™†	113	AM,LL,RR2	P13050		●	●	●	●
P13050V™*	113	V,LL,RR2,ENL	P13050		●	●	●	●
P1306W	113		P1306W	WH	●	●	●	●
P1306WAM™	113	AM,LL,RR2	P1306W	WH	●	●	●	●
P1306WHR	113	HX1,LL,RR2	P1306W	WH	●	●	●	●
P1306WYHR	113	YGCB,HX1,LL,RR2	P1306W	WH	●	●	●	●
P1309WAM™	113	AM,LL,RR2	P1309W	WH	●	●	●	●
P13131W†	113		P13131	WH	□	□	□	□
P1319R	113	RR2	P1319	YFC	▼	▼	▼	●
P13476Q™†	113	Q,LL,RR2	P13476	AQ,YFC	●	●	●	●
P13544V™*	113	V,LL,RR2,ENL	P13544	YFC	●	●	●	●
P1359	113		P1359		▼	▼	●	▼
P1359AM™	113	AM,LL,RR2	P1359		▼	▼	●	▼
P1359WX	113		P1359	WX	▼	▼	●	▼
P1366AM™	113	AM,LL,RR2	P1366		●	●	●	●
P1366AML™	113	AML,LL,RR2	P1366		●	●	●	●
P1366Q™	113	Q,LL,RR2	P1366		●	●	●	●
P1366VYHR	113	AVBL,YGCB,HX1,LL,RR2	P1366		●	●	●	●
P1366WX	113		P1366	WX	●	●	●	●
P1366WXQ™	113	Q,LL,RR2	P1366	WX	●	●	●	●
P1366YHR	113	YGCB,HX1,LL,RR2	P1366		●	●	●	●
P1370Q™	113	Q,LL,RR2	P1370		●	▼	●	●
P13777PCE™*	113	PW,ENL,RIB	P13777					
P13777PCUE™*	113	PWUE,RIB	P13777					
P13777PWUE™*	113	AVBL,VTP,HX1,LL,RR2,ENL	P13777					
P13777V™*	113	V,LL,RR2,ENL	P13777					
P1380AM™	113	AM,LL,RR2	P1380		●	▼	●	●
P1380CYFR	113	RW,YGCB,4114,LL,RR2	P1380		●	▼	●	●
P1380Q™	113	Q,LL,RR2	P1380		●	▼	●	●
P1380YHR	113	YGCB,HX1,LL,RR2	P1380		●	▼	●	●
P1383AM™	113	AM,LL,RR2	P1383		●	●	●	●
P1383YHR	113	YGCB,HX1,LL,RR2	P1383		●	●	●	●
P13841PCUE™*	113	PWUE,RIB	P13841	AQ				
P13841PWUE™*	113	AVBL,VTP,HX1,LL,RR2,ENL	P13841	AQ				
P13968AMXT™†	113	AMXT,LL,RR2	P13968	BMR,BOV	●	●	●	●
P1408WAM™	114	AM,LL,RR2	P1408W	WH	▼	●	●	●
P1413AM™	114	AM,LL,RR2	P1413	AQ	●	●	●	●
P1442	114		P1442	YFC	●	●	●	●
P1449AMX™	114	AMX,LL,RR2	P1449	BMR	●	●	●	●
P1457WAM™	116	AM,LL,RR2	P1457W	WH	●	▼	●	▼
P1464AML™	114	AML,LL,RR2	P1464		●	▼	●	▼

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2024 Corn Hybrid-Herbicide Management Guide & Ratings**

Hybrid/Brand***	CRM	Technology Segment	Hybrid Family	Market Segment	Herbicide Families			
					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P1464VYHR	114	AVBL,YGCB,HX1,LL, RR2	P1464		●	▼	●	▼
P14830AML™†	114	AML,LL,RR2	P14830		●	●	●	●
P14830Q™†	114	Q,LL,RR2	P14830		●	●	●	●
P14830VYHR†	114	AVBL,YGCB,HXQ,LL,RR2	P14830		●	●	●	●
P1506AM™	115	AM,LL,RR2	P1506	YFC	●	●	▼	●
P1506YHR	115	YGCB,HX1,LL,RR2	P1506	YFC	●	●	▼	●
P1511AM™	115	AM,LL,RR2	P1511	YFC	●	●	●	●
P1511YHR	115	YGCB,HX1,LL,RR2	P1511	YFC	●	●	●	●
P15143W*	115		P15143	WH				
P1548AM™	115	AM,LL,RR2	P1548	AQ	●	●	●	●
P1563AM™	115	AM,LL,RR2	P1563		●	●	●	●
P1563AML™	115	AML,LL,RR2	P1563		●	●	●	●
P1563Q™	115	Q,LL,RR2	P1563		●	●	●	●
P1563VYHR	115	AVBL,YGCB,HX1,LL,RR2	P1563		●	●	●	●
P1572AM™	115	AM,LL,RR2	P1572		●	●	●	●
P15784AM™†	115	AM,LL,RR2	P15784	YFC	●	●	●	●
P15784YHR†	115	YGCB,HX1,LL,RR2	P15784	YFC	●	●	●	●
P1587LR	115	LL,RR2	P1587	YFC	▼	●	●	●
P1587LRE*	115	LL,RR2,ENL	P1587	YFC	▼	●	●	●
P1587Q™	115	Q,LL,RR2	P1587	YFC	▼	●	●	●
P1608†	116		P1608	YFC	●	■	●	●
P1608AM™	116	AM,LL,RR2	P1608	YFC	●	■	●	●
P1608YHR	116	YGCB,HX1,LL,RR2	P1608	YFC	●	■	●	●
P1618W	116		P1618W	WH	●	●	●	●
P1618WAM™	116	AM,LL,RR2	P1618W	WH	●	●	●	●
P1620WLR	116	LL,RR2	P1620W	WH	●	●	●	●
P1622AML™	116	AML,LL, RR2	P1622	YFC	●	▼	▼	▼
P1622VYHR	116	AVBL,YGCB,HX1,LL,RR2	P1622	YFC	●	▼	●	▼
P1633AM™	116	AM,LL,RR2	P1633		●	■	●	▼
P16544PCE™*	116	PW,ENL,RIB	P16544	YFC				
P1656W	116		P1656W	WH	●	●	●	●
P1656WAM™	116	AM,LL,RR2	P1656W	WH	●	●	●	●
32B10	117		32B10	WH	●	●	▼	●
32B16	117	HX1,LL,RR2	32B10	WH	●	●	▼	●
P17052AM™†	117	AM,LL,RR2	P17052	YFC	●	●	●	●
P17052YHR†	117	YGCB,HX1,LL,RR2	P17052	YFC	●	●	●	●
P1716Q™	117	Q,LL,RR2	P1716	YFC				
P1718	117		P1718		▼	▼	●	●
P1718AML™	117	AML,LL, RR2	P1718		▼	▼	●	●
P1718VYHR	117	AVBL,YGCB,HX1,LL,RR2	P1718		▼	▼	●	●
P1742PCE™*	117	PW,ENL,RIB	P1742		●	●	●	●
P1742Q™	117	Q,LL,RR2	P1742		●	●	●	●
P1759AM™	117	AM,LL,RR2	P1759		●	▼	●	●
P1759YHR	117	YGCB,HX1,LL,RR2	P1759		●	▼	●	●
P17677AM™†	117	AM,LL,RR2	P17677		●	●	●	●
P17677Q™†	117	Q,LL,RR2	P17677		●	●	●	●
P17677V™*	117	V,LL,RR2,ENL	P17677		●	●	●	●
P17677YHR†	117	YGCB,HX1,LL,RR2	P17677		●	●	●	●
P1790W	117		P1790W	WH	●	●	●	●
P1790WQ™†	117	Q,LL,RR2	P1790W	WH	●	●	●	●
P1828AM™	118	AM,LL,RR2	P1828		●	●	▼	●
P1828Q™	118	Q,LL,RR2	P1828		●	●	▼	●
P1847AML™	118	AML,LL,RR2	P1847	YFC	●	●	▼	●
P1847AMXT™	118	AMXT,LL,RR2	P1847	YFC	●	●	▼	●

● Adequate Tolerance
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Hybrid/Brand***	CRM	Technology Segment	Hybrid Family	Market Segment	Herbicide Families			
					Amide	Benzoic Acid and Phenoxy	Isoxazole	SU
P1847VYHR	118	AVBL,YGCB,HX1,LL,RR2	P1847	YFC	●	●	▼	●
P1870	118		P1870	YFC	●	●	●	●
P1870AM™	118	AM,LL,RR2	P1870	YFC	●	●	●	●
P1870LRE*	118	LL,RR2,ENL	P1870	YFC	●	●	●	●
P1870R	118	RR2	P1870	YFC	●	●	●	●
P1870YHR	118	YGCB,HX1,LL,RR2	P1870	YFC	●	●	●	●
P1903AM™	119	AM,LL,RR2	P1903		●	●	●	●
P1903YHR	119	YGCB,HX1,LL,RR2	P1903		●	●	●	●
P2042AML™	120	AML,LL,RR2	P2042	YFC	●	●	●	●
P2042VYHR	120	AVBL,YGCB,HX1,LL,RR2	P2042	YFC	●	●	●	●
P2089AML™	120	AML,LL,RR2	P2088		●	●	▼	▼
P2089VYHR	120	AVBL,YGCB,HX1,LL,RR2	P2088		●	●	▼	▼
P3016VYHR	130	AVBL,YGCB,HX1,LL,RR2	P3016		□	□	□	□

* Introductory product. Quantities may be limited.

† New Product.

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

***All Pioneer products are hybrids unless designated with AM, AML, AMT, AMX, AMXT, Q, V, PCU, PCUE, PWE & PWUE, in which case they are brands.

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.

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.



TECHNOLOGY SEGMENT: AM - Optimum® AcreMax® insect protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products. **AMT** - Optimum® AcreMax® TRIsect® insect protection system with RW,YGCB,HX1,LL,RR2. Contains a single-bag refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® I gene. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax TRIsect products. **AMX** - Optimum® AcreMax® Xtra insect protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products. **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, the Bt trait and the Herculex® XTRA gene. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products. **Q** (Qrome®) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® XTRA gene. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Qrome products. **YGCB,HX1,LL,RR2** (Optimum® Intrasect®) - Contains the Bt trait and Herculex® I gene for resistance to corn borer. **AML** - Optimum® AcreMax® Leptra® products with AVBL, YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Leptra products. **AVBL,YGCB,HX1,LL,RR2** (Optimum® Leptra®) - Contains the Agrisure Viptera® trait, the Bt trait, the Herculex® I gene, the LibertyLink® gene and the Roundup Ready® Corn 2 trait. **V** - Vorceed™ Enlist® products with V, LL, RR2, 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. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted for Vorceed Enlist products. **PCE** - Powercore® Enlist® Refuge Advanced® corn products with HX1, VTP, ENL, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with PowerCore Enlist Refuge Advanced products. **PCUE** - Powercore® Ultra Enlist® Refuge Advanced® corn products with AVBL, HX1, VTP, ENL, LL, RR2.

● Adequate Tolerance ▼ Requires Careful Management ■ Crop Response Warning □ Insufficient Data

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Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with PowerCore Ultra Enlist Refuge Advanced products. The PowerCore Ultra Enlist Refuge Advanced trait is not yet available for sale or distribution in the U.S. Corteva products are launched in accordance with Corteva Agriscience launch policies and Excellence Through Stewardship Product Launch Guidance. Grain and byproducts produced from PowerCore Ultra Enlist corn material cannot be marketed in jurisdictions where not authorized, including Mexico, until the applicable approval is granted. Refer to <http://www.biotradestatus.com/> for updated information on regulatory status, as well as <http://www.traitstewardship.com/> for additional stewardship requirements. **PWE** - PowerCore Enlist corn products with HX1, VTP, ENL, LL, RR2. A separate 5% corn borer refuge in the corn belt, and a separate 20% corn borer refuge in EPA-designated cotton-growing counties must be planted PowerCore Enlist products. **PWUE** - PowerCore Ultra Enlist corn products with AVBL, HX1, VTP, ENL, LL, RR2. A separate 5% corn borer refuge in the corn belt, and a separate 20% corn borer refuge in EPA-designated cotton-growing counties must be planted PowerCore Ultra Enlist products. The PowerCore Ultra Enlist Refuge Advanced trait is not yet available for sale or distribution in the U.S. Corteva products are launched in accordance with Corteva Agriscience launch policies and Excellence Through Stewardship Product Launch Guidance. Grain and byproducts produced from PowerCore Ultra Enlist corn material cannot be marketed in jurisdictions where not authorized, including Mexico, until the applicable approval is granted. Refer to <http://www.biotradestatus.com/> for updated information on regulatory status, as well as <http://www.traitstewardship.com/> for additional stewardship requirements. **HX1** - Contains the Herculex I insect protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm. **HXX** - Herculex XTRA contains the Herculex I and Herculex RW gene. **YGCB** - The Bt trait offers a high level of resistance to European corn borer, southwestern corn borer and southern cornstalk borer; moderate resistance to corn earworm and common stalk borer; and above average resistance to fall armyworm. **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 labeled glyphosate herbicides when applied according to label directions.

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HYBRID FAMILY: Hybrid family identifies products that have the same base genetics. Manage products within the same family similarly.

MARKET SEGMENT: Designations indicate product is also suitable for the following market: **WX** – Waxy; **WH** – White food corn; **YFC** – Yellow food corn; **AQ** – Optimum AQUAmax product; **BMR** – Brown MidRib Corn; **BOV** – BovaIta BMR Corn.

Ratings in this guide based on data collected through 2023 harvest.

References: (1) 2022 Herbicide Guide for Iowa Corn and Soybean Production, Extension Publication WC-94, B. Hartzler & M. Owen; (2) Weed Control Guide for Ohio, Indiana, Illinois, and Missouri 2023 Edition, Bulletin 789, The Ohio State University Extension, M. M. Loux, A. Essman, D. Doohan, and A. Dobbels, The Purdue Extension; W.G. Johnson, B. Young, and M. Zimmer; University of Illinois Crop Sciences: A. Hager; University of Missouri: Kevin Bradley. (3) 2023 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland, Bulletin SRP 1148, Kansas State University, Agricultural Experiment Station & Cooperative Extension Service, S.R. Lancaster, W. H. Fick, R.S. Currie, and V. Kumar.

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