

2022 Corn Hybrid-Herbicide Management Guide**



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 Fulltime
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.

⁵Amide (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.

⁶Phenoxy 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.

⁷Isoxazole (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.

⁸Sulfonylureas (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.

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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 ¹	Technology Segment ²	Hybrid Family ³	Market Segment ⁴	Herbicide Families			
					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P6909R	69	RR2	P6909	HAE	●	■	●	●
P6910AM™*	69	AM,LL,RR2	P6910	HTF				
P6910R*	69	RR2	P6910	HTF				
P7005AM™	70	AM,LL,RR2	P7005	HAE	●	■	●	▼
P7202AM™	72	AM,LL,RR2	P7202	HAE	●	■	●	▼
P7211AM™	72	AM,LL,RR2	P7211	HAE	●	▼	●	▼
P7211YHR	72	YGCB,HX1,LL,RR2	P7211	HAE	●	▼	●	▼
P7213R	72	RR2	P7213	HAE	●	▼	●	■
P7227LR	72	LL,RR2	P7527	HAE,HTF	●	■	●	▼
39F44	73	RR2	39F45	HTF	●	▼	●	■
P7332R	73	RR2	P7632	HTF	●	▼	●	▼
P7389AM™*	73	AM,LL,RR2	P7389	HAE				
P7417AM™	74	AM,LL,RR2	P7417	HAE	●	▼	●	●
P7417R	74	RR2	P7417	HAE	●	▼	●	●
P7455R	74	RR2	P7955	HAE,HTF	●	▼	●	●
P7527AM™	75	AM,LL,RR2	P7527	HAE,HTF	●	■	●	▼
P7527AMXT™	75	AMXT,LL,RR2	P7527	HAE,HTF	●	■	●	▼
P7574AM™*	75	AM,LL,RR2	P7574	HTF				
P7632AM™	76	AM,LL,RR2	P7632	HTF	●	▼	●	▼
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		●	■	▼	▼
P7861YHR	78	YGCB,HX1,LL,RR2	P7861		●	■	▼	▼
P7907AM™	79	AM,LL,RR2	P7907	HTF	●	●	●	●
P7940AM™	79	AM,LL,RR2	P7940	HAE	●	■	●	●
P7955AM™	79	AM1,LL,RR2	P7955	HAE,HTF	●	▼	●	●
P7958AM™	79	AM,LL,RR2	P7958		●	■	●	●
P8034	80	RR2	P8234	HTF	●	▼	●	■
P8034LR	80	LL,RR2	P8234	HTF	●	▼	●	■
P8234AM™	82	AM,LL,RR2	P8234	HTF	●	■	●	■
P8048 AM™*	80	AM,LL,RR2	P8048					
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		●	●	●	●
P8407YHR	84	YGCB,HX1,LL,RR2	P8407		●	●	●	●
P8431AM™†	84	AM,LL,RR2	P8431					
P8537AM™	85	AM,LL,RR2	P8537	HTF				
P8537Q™	85	Q,LL,RR2	P8537	HTF				
P8581R	85	RR2	P8581		●	▼	●	●
P8588AM™	85	AM,LL,RR2	P8588	HTF	●	●	●	●
P8592AM™*	85	AM,LL,RR2	P8592	HTF				
P8592YHR*	85	YGCB,HX1,LL,RR2	P8592	HTF				
P8602AM™*	85	AM,LL,RR2	P8602	HTF				
P8639AM™	86	AM,LL,RR2	P8639	HTF	●	▼	●	▼

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

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Hybrid/Brand***	CRM ¹	Technology Segment ²	Hybrid Family ³	Market Segment ⁴	Herbicide Families			
					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P8700AM™	87	AM,LL,RR2	P8700	HTF	●	●	●	●
P8736AM™	87	AM,LL,RR2	P8736	HTF	●	▼	●	●
P8736R	87	RR2	P8736	HTF	●	▼	●	●
P8820AM™	88	AM,LL,RR2	P8820	HTF,HES	●	●	●	●
P8820Q™	88	Q,LL,RR2	P8820	HTF,HES	●	●	●	●
P8859AM™†	88	AM,LL,RR2	P8859	HTF,HES	●	▼	●	●
P8859Q™*	88	Q,LL,RR2	P8859	HTF,HES	●	▼	●	●
P8989AM™	89	AM,LL,RR2	P8989	HTF	●	■	●	●
P8989AMXT™	89	AMXT,L,,LRR2	P8989	HTF	●	■	●	●
P8989YHR	89	YGCB,HX1,LL,RR2	P8989	HTF	●	■	●	●
P9188	91		P9188	HTF	●	▼	●	▼
P9188AM™	91	AM,LL,RR2	P9188	HTF	●	▼	●	▼
P9188AMXT™	91	AMXT,LL,RR2	P9188	HTF	●	▼	●	▼
P9188R	91	RR2	P9188	HTF	●	▼	●	▼
P9193AM™†	91	AM,LL,RR2	P9193	HES	●	●	●	●
P9193Q™†	91	Q,LL,RR2	P9193	HES	●	●	●	●
38N85	92	RR2	38N86	HAE	●	●	●	●
P9211AM™	92	AM,LL,RR2	P9211	HTF,HES	▼	■	●	●
P9211Q™	92	Q,LL,RR2	P9211	HTF,HES	▼	■	●	●
P9233AM™	92	AM,LL,RR2	P9233	HTF,HES	●	▼	●	●
P9233Q™	92	Q,LL,RR2	P9233	HTF,HES	●	▼	●	●
P9301*	93		P9301	HTF,HES	●	●	●	●
P9301AM™	93	AM,LL,RR2	P9301	HTF,HES	●	●	●	●
P9301Q™	93	Q,LL,RR2	P9301	HTF,HES	●	●	●	●
P9316Q™*	93	Q,LL,RR2	P9316	HTF	●	●	●	●
P9377AMXT™	93	AMXT,LL,RR2	P9377	HTF	●	▼	●	●
P9404AM™	94	AM,LL,RR2	P9404	HTF,HES	●	●	●	▼
P9404YHR	94	YGCB,HX1,LL,RR2	P9404	HTF,HES	●	●	●	▼
P9466AML™*	94	AM,LL,RR2	P9466		●	●	●	●
P9489AM™†	94	AM,LL,RR2	P9489	HTF	●	●	●	●
P9489Q™†	94	Q,LL,RR2	P9489	HTF	●	●	●	●
P9492*	94		P9492	HAE,HTF	●	■	●	●
P9492AM™	94	AM,LL,RR2	P9492	HAE,HTF	●	■	●	●
P9535AM™	95	AM,LL,RR2	P9535	HTF	●	●	●	●
P9540AM™†	95	AM,LL,RR2	P9540	HAE,HTF	●	●	●	●
P9551Q™	95	Q,LL,RR2	P9551	HTF,HES	●	●	●	●
P9608	96		P9608	HAE	●	●	●	●
P9608AM™	96	AM,LL,RR2	P9608		●	●	●	●
P9608Q™	96	Q,LL,RR2	P9608		●	●	●	●
P9608R	96	RR2	P9608		●	●	●	●
P9619AM™	96	AM,LL,RR2	P9619	HTF,HES	●	●	●	▼
P9621AMXT™	96	AMXT,LL,RR2	P9621	HTF,HES	●	■	●	●
P9624AM™*	96	AM,LL,RR2	P9624	HTF	●	●	●	●
P9624Q™*	96	Q,LL,RR2	P9624	HTF	●	●	●	●
P9630LR	96	LL,RR2	P9630	HAE,HTF	●	●	●	●
P9772AM™	97	AM,LL,RR2	P9772	HTF	●	●	●	●
P9789AMXT™	97	AMXT,LL,RR2	P9789		●	●	●	●
P9815AM™	98	AM,LL,RR2	P9815	HTF	●	●	●	●
P9823Q™†	98	Q,LL,RR2	P9823	HTF	●	●	●	●
P9830AM™*	98	AM,LL,RR2	P9830	HTF	●	●	●	●
P9845AM™*	98	AM,LL,RR2	P9845	AQ,HTF	●	●	●	●
P9870AM™	98	AM,LL,RR2	P9870	HTF,HES	●	■	●	●
P9880AM™	98	AM,LL,RR2	P9880	HAE	●	●	●	●
P9880AMXT™	98	AMXT,LL,RR2	P9880	HAE	●	●	●	●
P9884Q™*	98	Q,LL,RR2	P9884	BMR	●	●	●	●

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Hybrid/Brand***	CRM ¹	Technology Segment ²	Hybrid Family ³	Market Segment ⁴	Herbicide Families			
					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P9929AM™	99	AM,LL,RR2	P9929	HTF	●	▼	●	▼
P9946†	99	AML,LL,RR2	P9946		●	●	●	●
P9946AML™	99	AML,LL,RR2	P9946		●	●	●	●
P9955AM™*	99	AM,LL,RR2	P9955	HAE,HTF				
P9955Q™*	99	Q,LL,RR2	P9955	HAE,HTF				
P9998	99		P9998	AQ,HAE,HTF	●	●	●	●
P9998AM™	99	AM,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998Q™	99	Q,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998R	99	RR2	P9998	AQ,HAE,HTF	●	●	●	●
P0035AM™†	100	AM,LL,RR2	P0035	AQ,HTF	●	●	●	●
P0035Q™†	100	Q,LL,RR2	P0035	AQ,HTF	●	●	●	●
P0046AM™	100	AM,LL,RR2	P0046	HTF	●	●	●	●
P0075†	100		P0075	HTF	●	●	●	●
P0075AM™	100	AM,LL,RR2	P0075	HTF	●	●	●	●
P0075Q™	100	Q,LL,RR2	P0075	HTF	●	●	●	●
P0075YHR	100	YGCB,HX1,LL,RR2	P0075	HTF	●	●	●	●
P0157	101		P0157	AQ,HAE,HTF	●	●	●	▼
P0157AM™	101	AM,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157AMXT™	101	AMXT,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157R	101	RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157WX	101		P0157	WX,AQ,HAE,HTF	●	●	●	▼
36V51	102	RR2	36V51		●	▼	●	●
P0220AM™	102	AM,LL,RR2	P0220	HTF	●	●	●	●
P0220Q™	102	Q,LL,RR2	P0220	HTF	●	●	●	●
P0238XR	102	HXX,LL,RR2	P0238	BMR	●	■	●	●
P0242AMXT™	102	AMXT,LL,RR2	P0242	HTF,HES	▼	●	●	●
P0275Q™*	102	Q,LL,RR2	P0275	BMR				
P0031Q™	103	Q,LL,RR2	P0031	HTF	●	●	●	●
P0306AM™	103	AM,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0306Q™	103	Q,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0339AM™	103	AM,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339Q™	103	Q,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339R	103	RR2	P0339	AQ,HTF	▼	▼	●	■
P0343AML™	103	AML,LL,RR2	P0343	HTF	●	●	●	●
P0389AMXT™	103	AMXT,LL,RR2	P0389	HTF	●	●	●	●
P0256AMXT™	104	AMXT,LL,RR2	P0256	BMR				
P0404AM™†	104	AM,LL,RR2	P0404	HTF	●	▼	●	●
P0404Q™†	104	Q,LL,RR2	P0404	HTF	●	▼	●	●
P0414AM™	104	AM,LL,RR2	P0414	HTF,HES	●	▼	●	▼
P0421AM™	104	AM,LL,RR2	P0421	HAE,HTF	●	●	●	●
P0421Q™	104	Q,LL,RR2	P0421	HAE,HTF	●	●	●	●
P0434AM™	104	AM,LL,RR2	P0434	HTF	▼	●	●	●
P0434YHR	104	YGCB,HX2,LL,RR	P0434	HTF	▼	●	●	●
P0446Q™	104	Q,LL,RR2	P0446	HTF	●	●	●	●
P0487*	104		P0487	AQ,HAE	●	●	●	●
P0487Q™†	104	Q,LL,RR2	P0487	AQ,HAE	●	●	●	●
35F50AM™	105	AM,LL,RR2	35F38	YFC,HAE,HTF	●	●	●	●
P0506	105		P0506	AQ,HTF	●	●	●	●
P0506AM™	105	AM,LL,RR2	P0506	AQ,HTF	●	●	●	●
P0506LR	105	LL,RR2	P0506	AQ,HTF	●	●	●	●
P0507AM™	105	AM,LL,RR2	P0507		▼	●	●	●
P0507Q™	105	Q,LL,RR2	P0507		▼	●	●	●
P0529Q™*	105	Q,LL,RR2	P0529	HAE				
P0574	105		P0574	AQ,HAE,HTF	▼	▼	●	▼

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P0574AM™	105	AM,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574AMXT™	105	AMXT,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574WXQ™	105	Q,LL,RR2	P0574	WX,AQ,HAE,HTF	▼	▼	●	▼
P0589	105		P0589	AQ,HTF	●	●	●	●
P0589AM™	105	AM,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0589AMXT™	105	AMX,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0595AM™	105	AM,LL,RR2	P0595	HTF	●	▼	●	▼
P0622AML™	106	AML,LL,RR2	P0622	AQ,HTF	●	▼	●	▼
P0622Q™	106	Q,LL,RR2	P0622	AQ,HTF	●	▼	●	▼
P0622VYHR	106	AVBL,YGCB,HX1,LL,RR2	P0622	AQ,HTF	●	▼	●	▼
P0677AMX™	106	AMX,LL,RR2	P0677	BMR,HTF	●	●	●	●
P0688AM™	106	AM,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0688Q™	106	Q,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0707AMXT™	107	AMXT,LL,RR2	P0707	YFC,HAE,HTF	●	●	●	●
P0720†	107		P0720	HTF	●	●	●	●
P0720AM™	107	AM,LL,RR2	P0720	HTF	●	●	●	●
P0720Q™	107	Q,LL,RR2	P0720	HTF	●	●	●	●
P0720WX†	107		P0720	WX,HTF	●	▼	●	●
P0732Q™†	107	Q,LL,RR2	P0732	HAE,HTF	●	▼	●	●
P0783XR	107	HXX,LL,RR2	P0783	BMR	●	■	●	●
P0789AMXT™	107	AMXT,LL,RR2	P0789	YFC,HAE,HTF	●	●	●	●
P0801AMXT™	108	AMXT,LL,RR2	P0801	HTF,HES	●	●	●	●
P0805AM™	108	AM,LL,RR2	P0805	YFC,HAE,HTF	●	●	●	●
P0805YHR	108	YGCB,HX1,LL,RR2	P0805	YFC,HAE,HTF	●	●	●	●
P0806AM™	108	AM,LL,RR2	P0806	HTF,HES	●	●	●	●
P0817Q™†	108	Q,LL,RR2	P0817	HTF	●	●	●	●
P0825AM™	108	AM,LLL,RR2	P0825	HTF	●	●	●	●
P0825AMXT™	108	AMXT,LLL,RR2	P0825	HTF	●	●	●	●
P0843	108		P0843	HTF,HES	●	▼	●	●
P0843AM™	108	AM,LL,RR2	P0843	HTF,HES	●	▼	●	●
P0859AM™*	108	AM,LL,RR2	P0859	HTF	●	●	●	●
34A85	109	RR2	34A85	HAE	●	●	●	●
P0908AML™†	109	AML,LL,RR2	P0908		●	●	●	●
P0919AM™	109	AM,LL,RR2	P0919	HTF,HES	●	■	●	●
P0919Q™	109	Q,LL,RR2	P0919	HTF,HES	●	■	●	●
P0921AMXT™	109	AMXT,LL,RR2	P0921	HTF	●	▼	●	●
P0924†	109	Q,LL,RR2	P0924	HAE	●	■	●	●
P0924Q™†	109	Q,LL,RR2	P0924	HAE	●	■	●	●
P0924WX*	109		P0924	WX,HAE	●	■	●	●
P0928	109		P0928	YFC,HTF,HES	●	▼	●	●
P0934WX	109		P0934	WX,HES	●	●	●	●
P0935AM™	109	AM,LL,RR2	P0935	HTF,HES	●	●	●	●
P0935YHR™	109	YGCB,HX1,LL,RR2	P0935	HTF,HES	●	●	●	●
P0947Q™	109	Q,LL,RR2	P0947	HTF	●	▼	●	●
P0950AM™	109	AM,LL,RR2	P0950	HTF	●	●	●	●
P0950Q™	109	Q,LL,RR2	P0950	HTF	●	●	●	●
P0953AM™†	109	AM,LL,RR2	P0953	HTF,HES	●	●	●	●
P0953YHR†	109	AM,LL,RR2	P0953	HTF,HES	●	●	●	●
P0956AMX™	109	AMX,LL,RR2	P0956	BMR	●	▼	●	●
P0963AM™	109	AM,LL,RR2	P0963	HTF	●	▼	●	●
P0977	109		P0977	HAE	●	●	●	●
P0977AM™	109	AM,LL,RR2	P0977	HAE	●	●	●	●
P0993HR	109	HX1,LL,RR2	P0993	HAE,HTF	●	●	●	●
P0995AM™†	109	AM,LL,RR2	P0995	AQ,HTF	▼	▼	●	●

● Adequate Tolerance
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 Insufficient Data

2022 Corn Hybrid-Herbicide Management Guide**

Hybrid/Brand***	CRM ¹	Technology Segment ²	Hybrid Family ³	Market Segment ⁴	Herbicide Families			
					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P0807Q™	110	Q,LL,RR2	P0807	YFC,HTF	●	●	●	●
P1017AMXT™	110	AMXT,LL,RR2	P1017	HTF,HES	●	●	●	●
P1018WX	110		P1018	WX	●	●	●	●
P1027AM™*	110	AM,LL,RR2	P1027	HTF				
P1055Q™	110	Q,LL,RR2	P1055		▼	▼	●	▼
P1077AM™	110	AM,LL,RR2	P1077	HTF	●	●	●	●
P1077YHR	110	YGCB,HX1,LL,RR2	P1077	HTF	●	●	●	●
P1082AM™	110	AM,LL,RR2	P1082	HTF	●	●	●	●
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	HTF				
P1108Q™	111	Q,LL,RR2	P1108	HAE,HTF	●	●	●	●
P1120WAM™	111	AM,LL,RR2	P1120W	WH,HTF	●	▼	▼	●
P1120WQ™†	111	Q,LL,RR2	P1120W	WH,HTF	●	▼	▼	●
P1122AML™*	111	AML,LL,RR2	P1122	AQ,HTF				
P1136AM™†	111	AM,LL,RR2	P1136	HTF,HES	●	●	●	●
P1138AM™	111	AM,LL,RR2	P1138	HTF,HES	●	●	●	●
P1138AML™	111	AML,LL,RR2	P1138	HTF,HES	●	●	●	●
P1151	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151AM™	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151Q™	111	Q,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1164AM™*	111	AM,LL,RR2	P1164	HTF				
P1170AM™*	111	AM,LL,RR2	P1170	HTF				
P1170YHR™*	111	YGCB,HX1,LL,RR2	P1170	HTF				
P1180XR	111	HXX,LL,RR2	P1180	BMR	●	●	●	●
P1181AM™	111	AM,LL,RR2	P1181	YFC,HTF	●	●	●	●
P1185†	111		P1185	YFC,HTF	●	▼	●	▼
P1185AM™	111	AM,LL,RR2	P1185	YFC,HTF	●	▼	●	▼
P1185Q™	111	Q,LL,RR2	P1185	YFC,HTF	●	▼	●	▼
P1185YHR™	111	YGCB,HX1,LL,RR2	P1185	YFC,HTF	●	▼	●	▼
P1197	111		P1197	HTF,HES	●	●	●	●
P1197AMT™	111	AMT,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197AM™	111	AM,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197AMXT™	111	AMXT,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197LR	111	LL,RR2	P1197	HTF,HES	●	●	●	●
P1197R	111	RR2	P1197	HTF,HES	●	●	●	●
P1197WX	111		P1197	WX,HTF,HES	●	●	●	●
P1197YHR	111	YGCB,,HX1,LL,RR2	P1197	HTF,HES	●	●	●	●
P1213AM™	112	AM,LL,RR2	P1213	YFC,HTF	●	●	●	●
P1213YHR	112	YGCB,HX1,LL,RR2	P1213	YFC,HTF	●	●	●	●
P1222*	112		P1222	HTF	●	■	●	●
P1222AM™†	112	AM,LL,RR2	P1222	HTF	●	■	●	●
P1222YHR†	112	YGCB,,HX1,LL,RR2	P1222	HTF	●	■	●	●
P1237AM™†	112	AM,LL,RR2	P1237		▼	●	●	●
P1244AM™	112	AM,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1244Q™	112	Q,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1244YHR	112	YGCB,HX1,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1267Q™*	112	Q,LL,RR2	P1267	BMR				
P1272Q™	112	Q,LL,RR2	P1272	BMR				
P1278Q™†	112	Q,LL,RR2	P1278	HTF,HES	▼	■	▼	▼
P1283AM™	112	AM,LL,RR2	P1283	YFC,HAE	●	●	●	●
P1289AM™†	112	AM,LL,RR2	P1289	HTF,HES	●			▼

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Hybrid/Brand***	CRM ¹	Technology Segment ²	Hybrid Family ³	Market Segment ⁴	Herbicide Families			
					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P1289YHR†	112	YGCB,,HX1,LL,RR2	P1289	HTF,HES	●			▼
P1298AM™	112	AM,LL,RR2	P1298		●	●	●	●
P1306W	113		P1306W	WH,HTF	●	●	●	●
P1306WAM™	113	AM,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1306WHR	113	HX1,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1306WYHR	113	YGCB,HX1,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1309WAM™	113	AM,LL,RR2	P1309W	WH,HAE	●	●	●	●
P1311AM™	113	AM,LL,RR2	P1311	HTF	●	●	●	▼
P1311AMXT™	113	AMXT,LL,RR2	P1311	HTF	●	●	●	▼
P1319R	113	RR2	P1319	YFC,HAE	▼	▼	▼	●
P1353AM™	113	AM,LL,RR2	P1353	HTF	▼	●	●	●
P1353Q™	113	Q,LL,RR2	P1353	HTF	▼	●	●	●
P1359*	113		P1359	HTF,HES	▼	▼	●	▼
P1359AM™	113	AM,LL,RR2	P1359	HTF,HES	▼	▼	●	▼
P1359WX*	113		P1359	WX,HTF,HES	▼	▼	●	▼
P1366AM™	113	AM,LL,RR2	P1366	HTF	●	●	●	●
P1366AML™	113	AML,LL,RR2	P1366	HTF	●	●	●	●
P1366AMXT™	113	AMXT,LL,RR2	P1366	HTF	●	●	●	●
P1366Q™	113	Q,LL,RR2	P1366	HTF	●	●	●	●
P1366VYHR	113	AVBL,YGCB,HX1,LL,RR2	P1366	HTF	●	●	●	●
P1366WX	113		P1366	WX,HTF	●	●	●	●
P1366WXQ™	113	Q,LL,RR2	P1366	WX,HTF	●	●	●	●
P1370AM™	113	AM,LL,RR2	P1370	HTF	●	▼	●	●
P1370Q™	113	Q,LL,RR2	P1370	HTF	●	▼	●	●
P1379AM™	113	AM,LL,RR2	P1379	HTF,HES	●	▼	●	●
P1380AM™	113	AM,LL,RR2	P1380	HTF	●	▼	●	●
P1380Q™	113	Q,LL,RR2	P1380	HTF	●	▼	●	●
P1380YHR	113	YGCB,HX1,LL,RR2	P1380	HTF	●	▼	●	●
P1383AM™*	113	AM,LL,RR2	P1383	HTF				
P1383YHR*	113	YGCB,HX1,LL,RR2	P1383	HTF				
P1408WAM™†	114	AM,LL,RR2	P1408W	WH	▼	●	●	●
P1413AM™*	114	AM,LL,RR2	P1413	AQ,HTF				
P1415Q™	114	Q,LL,RR2	P1415	YFC,HTF	●	●	●	●
P1422	114		P1422	YFC	▼	●	●	●
P1422AMXT™	114	AMXT,LL,RR2	P1422	YFC	▼	●	●	●
P1442	114		P1442	YFC	●	●	●	●
P1442AM™	114	AM,LL,RR2	P1442	YFC	●	●	●	●
P1449AMX™	114	AMX,LL,RR2	P1449	BMR,HAE	●	●	●	●
P1457WAM™*	116	AM,LL,RR2	P1457W	WH				
P1464AML™	114	AML,LL,RR2	P1464	HTF	●	▼	●	▼
P1464VYHR	114	AVBL,YGCB,HX1,LL,RR2	P1464	HTF	●	▼	●	▼
P1477WHR	114	HX1,LL,RR2	P1477W	WH,HAE	●	●	●	●
P1477WR	114	HX1,LL,RR2	P1477W	WH,HAE	●	●	●	●
P1479AM™	114	AM,LL,RR2	P1479	HAE	●	●	▼	●
P1498	114		P1498	AQ,YFC,HAE	●	●	▼	●
P1498AM™	114	AM,LL,RR2	P1498	AQ,YFC,HAE	●	●	▼	●
P1498WX	114		P1498	WX,AQ,YFC,HAE	●	●	▼	●
33Y74	115		33Y74	YFC,HTF,HES	●	▼	●	●
P1506AM™	115	AM,LL,RR2	P1506	YFC,HTF,HES	●	●	▼	●
P1506YHR	115	YGCB,HX1,LL,RR2	P1506	YFC,HTF,HES	●	●	▼	●
P1511AM™*	115	AM,LL,RR2	P1511	YFC,HTF				
P1511YHR*	115	YGCB,HX1,LL,RR2	P1511	YFC,HTF				
P1548AM™	115	AM,LL,RR2	P1548	AQ,HES,HTF	●	●	●	●
P1563AM™	115	AM,LL,RR2	P1563	HTF,HES	●	●	●	●

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P1563AML™	115	AML,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563Q™†	115	Q,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563VYHR	115	AVBL,YGCB,HX1,LL,RR2	P1563	HTF,HES	●	●	●	●
P1572AM™	115	AM,LL,RR2	P1572	HTF	●	●	●	●
P1587LR†	115	LL,RR2	P1587	YFC,HTF	▼	●	●	●
P1587Q™	115	Q,LL,RR2	P1587	YFC,HTF	▼	●	●	●
P1608AM™*	116	AM,LL,RR2	P1608	YFC,HTF				
P1608YHR*	116	YGCB,HX1,LL,RR2	P1608	YFC,HTF				
P1618W	116		P1618W	WH,HAE	●	●	●	●
P1618WAM™	116	AM,LL,RR2	P1618W	WH,HAE	●	●	●	●
P1620WLR	116	LL,RR2	P1620W	WH,HAE	●	●	●	●
P1622AML™*	116	AML,LL,RR2	P1622	YFC	●	▼	▼	▼
P1622VYHR*	116	AVBL,YGCB,HX1,LL,RR2	P1622	YFC	●	▼	▼	▼
P1633AM™*	116	AM,LL,RR2	P1633					
P1633YHR*	116	YGCB,HX1,LL,RR2	P1633					
P1637AM™	116	AM,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1637R	116	RR2	P1636	YFC,HAE	●	●	▼	▼
P1637YHR	116	YGCB,HX1,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1639WAM™	116	AM,LL,RR2	P1639W	WH,HAE	●	●	●	●
P1639WQ™	116	Q,LL,RR2	P1639W	WH,HAE	●	●	●	●
P1656W	116		P1656W	WH,HTF	●	●	●	●
P1656WAM™	116	AM,LL,RR2	P1656W	WH,HTF	●	●	●	●
32B10	117		32B10	WH,HAE,HTF	●	●	▼	●
32B16	117	HX1,LL,RR2	32B10	WH,HAE,HTF	●	●	▼	●
P1718*	117		P1718	HTF	▼	▼	●	●
P1718AML™†	117	AML,LL,RR2	P1718	HTF	▼	▼	●	●
P1718VYHR†	117	AVBL,YGCB,HX1,LL,RR2	P1718	HTF	▼	▼	●	●
P1731YHR	117	YGCB,HX1,LL,RR2	P1731	YFC,HTF	●			
P1742Q™*	117	Q,LL,RR2	P1742	HTF				
P1751	117		P1751	YFC,HTF,HES	■	▼	●	●
P1751AM™	117	AM,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1751AMT™	117	AMT,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1751Q™	117	Q,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1759AM™*	117	AM,LL,RR2	P1759					
P1759YHR*	117	YGCB,HX1,LL,RR2	P1759					
P1790W*	117		P790W	WH				
P1828AM™	118	AM,LL,RR2	P1828	HTF	●	●	▼	●
P1828Q™	118	Q,LL,RR2	P1828	HTF	●	●	▼	●
P1847AML™	118	AML,LL,RR2	P1847	YFC,HTF	●	●	▼	●
P1847AMXT™	118	AMXT,LL,RR2	P1847	YFC,HTF	●	●	▼	●
P1847VYHR	118	AVBL,YGCB,HX1,LL,RR2	P1847	YFC,HTF	●	●	▼	●
P1870	118		P1828	YFC,HAE,HTF	●	●	●	●
P1870AM™	118	AM,LL,RR2	P1870	YFC,HAE,HTF	●	●	●	●
P1870R	118	RR2	P1870	YFC,HAE,HTF	●	●	●	●
P1870YHR	118	YGCB,HX1,LL,RR2	P1870	YFC,HAE,HTF	●	●	●	●
31G70	119	HXX,LL,RR2	31G66	YFC				
P1903AM™	119	AM,LL,RR2	P1903		●	●	●	
P1903YHR	119	YGCB,HX1,LL,RR2	P1903		●	●	●	
P2042AML™	120	AML,LL,RR2	P2042	YFC,HTF				
P2042VYHR	120	AVBL,YGCB,HX1,LL,RR2	P2042	YFC,HTF				
P2088AMX™	120	AMX,LL,RR2	P2088	HTF	●	●	▼	▼
P2089AM™	120	AM,LL,RR2	P2088	HTF	●	●	▼	▼
P2089AML™	120	AML,LL,RR2	P2088	HTF	●	●	▼	▼
P2089VYHR	120	AVBL,YGCB,HX1,LL,RR2	P2088	HTF	●	●	▼	▼
P3016VYHR	130	AVBL,YGCB,HX1,LL,RR2	P3016					

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
30F35VYHR	135	AVBL,YGCB,HX1,LL,RR2	30F35	YFC				

* 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 AM1, AM, AML, AMT, AMX, AMXT and Q, 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.

¹ Comparative Relative Maturity



² **TECHNOLOGY SEGMENT: AM1** - Optimum® AcreMax® 1 insect protection system with an integrated corn rootworm refuge solution includes HXX, LL, RR2. Optimum AcreMax 1 products contain the LibertyLink® gene and can be sprayed with Liberty® herbicide. The required corn borer refuge can be planted up to half a mile away. **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. Qrome 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.biotradestatus.com/>. **YGCB,HX1,LL,RR2** (Optimum® Intrasect®) - Contains the Bt trait and Herculex® I gene for resistance to corn borer. **YGCB,HXX,LL,RR2** (Optimum® Intrasect® Xtra) - Contains the Bt trait and the Herculex® XTRA gene for resistance to corn borer and corn rootworm. **RW,HX1,LL,RR2** (Optimum® TRIsect®) - Contains the Herculex® I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. **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. **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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Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF.

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³ **HYBRID FAMILY:** Hybrid family identifies products that have the same base genetics. Manage products within the same family similarly.

⁴ **MARKET SEGMENT:** Designations indicate product is also suitable for the following market: **HAE** - High Available Energy (Pork & Poultry Feed); **HTF** - High Total Fermentables (Dry-Grind Ethanol); **HES** - High Extractable Starch (Wet Milling); **WX** - Waxy; **WH** - White food corn; **YFC** - Yellow food corn; **AQ** - Optimum® AQUAmax® product; **BMR** – Brown MidRib Corn.

Ratings in this guide based on data collected through 2021 harvest.



2022 Corn Hybrid-Herbicide Management Guide**

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.

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