

2021 Corn Hybrid-Herbicide Management Guide**



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. **Always read and follow all label instructions and precautions. Pioneer makes no warranty regarding the herbicide crop response information in this 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
P7005AM™ brand	70	AM,LL,RR2	P7005	HAE	●	■	●	▼
P7202AM™ brand	72	AM,LL,RR2	P7202	HAE	●	■	●	▼
P7211AM™ brand	72	AM,LL,RR2	P7211	HAE	●	▼	●	▼
P7213R	72	RR2	P7213	HAE	●	▼	●	■
P7227LR	72	LL,RR2	P7527	HAE,HTF	●	■	●	▼
P7527AM™ brand	75	AM,LL,RR2	P7527	HAE,HTF	●	■	●	▼
P7527AMXT™	75	AMXT,LL,RR2	P7527	HAE,HTF	●	■	●	▼
39F44	73	RR2	39F45	HTF	●	▼	●	■
P6909R	73	RR2	P6909	HAE	●	■	●	●
P7417AM™ brand	74	AM,LL,RR2	P7417	HAE				
P7417R	74	RR2	P7417	HAE				
P7455R	74	RR2	P7955	HAE,HTF	●	▼	●	●
P7574AM™ brand*	75	AM,LL,RR2	P7574	HTF				
P7332R	76	AM,LL,RR2	P7632	HTF	●	▼	●	▼
P7632AM™ brand	76	AM,LL,RR2	P7632	HTF	●	▼	●	▼
P7844AM™ brand*	78	AM,LL,RR2	P7844					
P7861AM™ brand	78	AM,LL,RR2	P7861	YFC	●	■	▼	▼
P7861R	78	RR2	P7861	YFC	●	■	▼	▼
P7907AM™ brand	79	AM,LL,RR2	P7907	HTF	●	●	●	●
P7940AM™ brand	79	AM,LL,RR2	P7940	HAE	●		●	
P7955AM™ brand	79	AM1,LL,RR2	P7955	HAE,HTF	●	▼	●	●
P7958AM™ brand	79	AM,LL,RR2	P7958		●	■	●	●
39V09AM™ brand	80	AM,LL,RR2	39V07					
P8034	80	RR2	P8234	HTF	●	▼	●	■
P8034LR	80	LL,RR2	P8234	HTF	●	▼	●	■
P8234AM™ brand	82	AM,LL,RR2	P8234	HTF	●	■	●	■
P8294AM™ brand*	82	AM,LL,RR2	P8294	HTF, HES				
P8352AM™ brand	83	AM,LL,RR2	P8352		●	▼	●	●
P8407AM™ brand	84	AM,LL,RR2	P8407		●	●	●	●
P8407Q™ brand	84	Q,LL,RR2	P8407		●	●	●	●
P8431AM™ brand*	84	AM,LL,RR2	P8431	HTF				
P8581R	85	RR2	P8581		●	▼	●	●
P8588AM™ brand	85	AM,LL,RR2	P8588					
P8639AM™ brand	86	AM,LL,RR2	P8639	HTF	●	▼	●	▼
P8700AM™ brand	87	AM,LL,RR2	P8700	HTF	●	●	●	●
P8736AM™ brand	87	AM,LL,RR2	P8736	HTF	●	▼	●	●
P8736R	87	RR2	P8736	HTF	●	▼	●	●
P8820AM™ brand	88	AM,LL,RR2	P8820	HTF,HES				
P8820Q™ brand	88	Q,LL,RR2	P8820	HTF,HES				
P8859AM™ brand*	88	AM,LL,RR2	P8859	HTF,HES				
P8989AM™ brand	89	AM,LL,RR2	P8989	HTF	●	■	●	●
P8989AMXT™ brand	89	AMXT,L,,LRR2	P8989	HTF	●	■	●	●
P9188	91		P9188	HTF	●	▼	●	▼
P9188AM™ brand	91	AM,LL,RR2	P9188	HTF	●	▼	●	▼
P9188AMXT™ brand	91	AMXT,LL,RR2	P9188	HTF	●	▼	●	▼
P9188R	91	RR2	P9188	HTF	●	▼	●	▼
P9193AM™ brand*	91	AM,LL,RR2	P9193	HTF,HES				
P9193Q™ brand*	91	Q,LL,RR2	P9193	HTF,HES				
38N85	92	RR2	38N86	HAE	●	●	●	●

● 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
P9211AM™ brand	92	AM,LL,RR2	P9211	HTF,HES	●	■	●	●
P9211Q™ brand	92	Q,LL,RR2	P9211	HTF,HES	●	■	●	●
P9233AM™ brand	92	AM,LL,RR2	P9233	HTF,HES	●	▼	●	●
P9233Q™ brand	92	Q,LL,RR2	P9233	HTF,HES	●	▼	●	●
P9301AM™ brand	93	AM,LL,RR2	P9301	HTF,HES	●	●	●	●
P9301Q™ brand†	93	Q,LL,RR2	P9301	HTF,HES	●	●	●	●
P9330	93		P9330		●	■	●	●
P9330AM™ brand	93	AM,LL,RR2	P9330		●	■	●	●
P9404AM™ brand	94	AM,LL,RR2	P9404	HTF,HES	●	●	●	▼
P9489AM™ brand*	94	AM,LL,RR2	P9489	HTF,HES				
P9489Q™ brand*	94	Q,LL,RR2	P9489	HTF,HES				
P9492AM™ brand	94	AM,LL,RR2	P9492	HAE,HTF	●	■	●	●
P9535AM™ brand	95	AM,LL,RR2	P9535	HTF	●	●	●	●
P9540AM™ brand*	95	AM,LL,RR2	P9540	HTF				
P9551Q™ brand*	95	Q,LL,RR2	P9551	HTF	●	●	●	●
P9377AMXT™ brand	96	AMXT,LL,RR2	P9377	HTF	●	▼	●	●
P9608	96		P9608		●	●	●	●
P9608AM™ brand	96	AM,LL,RR2	P9608		●	●	●	●
P9608Q™ brand	96	Q,LL,RR2	P9608		●	●	●	●
P9608R	96	RR2	P9608		●	●	●	●
P9619AM™ brand	96	AM,LL,RR2	P9619	HTF,HES	●	●	●	▼
P9621AMXT™ brand	96	AMXT,LL,RR2	P9621	HTF,HES	●	■	●	●
P9675R	96	RR2	P9675	HTF	▼	●	●	●
P9772AM™ brand	97	AM,LL,RR2	P9772	HTF	●	●	●	●
P9789AMXT™ brand	97	AMXT,LL,RR2	P9789		●	●	●	●
P9815AM™ brand	98	AM,LL,RR2	P9815	HTF	●	●	●	●
P9823Q™ brand*	98	Q,LL,RR2	P9823	HTF				
P9840AM™ brand	98	AM,LL,RR2	P9840	HTF	●	●	●	●
P9840AMXT™ brand	98	AMXT,LL,RR2	P9840	HTF	●	●	●	●
P9870AM™ brand	98	AM,LL,RR2	P9870	HTF,HES	●	■	●	●
P9880AM™ brand	98	AM,LL,RR2	P9880	HAE	●	●	●	●
P9880AMXT™ brand	98	AMXT,LL,RR2	P9880	HAE	●	●	●	●
P9929AM™ brand	99	AM,LL,RR2	P9929	HTF	●	▼	●	▼
P9946*	99		P9946					
P9946AML™ brand	99	AML,LL,RR2	P9946		●	●	●	●
P9998	99		P9998	AQ,HAE,HTF	●	●	●	●
P9998AM™ brand	99	AM,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998AMXT™ brand	99	AMXT,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998Q™ brand	99	Q,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998R	99	RR2	P9998	AQ,HAE,HTF	●	●	●	●
P0035AM™ brand*	100	AM,LL,RR2	P0035	AQ,HTF				
P0035Q™ brand*	100	Q,LL,RR2	P0035	AQ,HTF				
P0046AM™ brand	100	AM,LL,RR2	P0046	HTF	●	●	●	●
P0075*	100		P0075	HTF				
P0075AM™ brand	100	AM,LL,RR2	P0075	HTF	●	●	●	●
P0075Q™ brand	100	Q,LL,RR2	P0075	HTF	●	●	●	●
P0157	101		P0157	AQ,HAE,HTF	●	●	●	▼
P0157AM™ brand	101	AM,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157AMXT™ brand	101	AMXT,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157WX	101		P0157	WX,AQ,HAE,HTF	●	●	●	▼
P0157R	101	RR2	P0157	AQ,HAE,HTF	●	●	●	▼
36V51	102	RR2	36V51		●	▼	●	●
P0216AM™ brand	102	AM,LL,RR2	P0216	HTF	●	●	●	●
P0220AM™ brand	102	AM,LL,RR2	P0220	HTF	●	●	●	●

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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
P0220Q™ brand	102	Q,LL,RR2	P0220	HTF	●	●	●	●
P0238XR	102	HXX,LL,RR2	P0238	BMR	●	■	●	●
P0242AMXT™ brand	102	AMXT,LL,RR2	P0242	HTF,HES	▼	●	●	●
P0031Q™ brand	103	Q,LL,RR2	P0031	HTF	●	●	●	●
P0306AM™ brand	103	AM,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0306Q™ brand	103	Q,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0339AM™ brand	103	AM,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339Q™ brand	103	Q,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339R	103	RR2	P0339	AQ,HTF	▼	▼	●	■
P0343AML™ brand	103	AML,LL,RR2	P0343	HTF	●	●	●	●
P0389AMXT™ brand	103	AMXT,LL,RR2	P0389	HTF	●	●	●	●
P0404AM™ brand*	104	AM,LL,RR2	P0404	HTF,HES				
P0404Q™ brand*	104	Q,LL,RR2	P0404	HTF,HES				
P0414AM™ brand	104	AM,LL,RR2	P0414	HTF,HES	●	▼	●	▼
P0421AM™ brand	104	AM,LL,RR2	P0421	HAE,HTF	●	●	●	●
P0421Q™ brand	104	Q,LL,RR2	P0421	HAE,HTF	●	●	●	●
P0434AM™ brand	104	AM,LL,RR2	P0434	HTF	▼	●	●	●
P0446Q™ brand	104	Q,LL,RR2	P0446	HTF	●	●	●	●
P0487Q™ brand*	104	Q,LL,RR2	P0487	AQ,HAE,HTF				
35F50AM™ brand	105	AM,LL,RR2	35F38	YFC,HAE,HTF	●	●	●	●
P0506	105		P0506	AQ,HTF	●	●	●	●
P0506AM™ brand	105	AM,LL,RR2	P0506	AQ,HTF	●	●	●	●
P0506LR	105	LL,RR2	P0506	AQ,HTF	●	●	●	●
P0507AM™ brand	105	AM,LL,RR2	P0507		▼	●	●	●
P0507Q™ brand	105	Q,LL,RR2	P0507		▼	●	●	●
P0574	105		P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574AM™ brand	105	AM,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574AMXT™ brand	105	AMXT,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574WXQ™ brand	105	Q,LL,RR2	P0574	WX,AQ,HAE,HTF	▼	▼	●	▼
P0589	105		P0589	AQ,HTF	●	●	●	●
P0589AM™ brand	105	AM,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0589AMXT™ brand	105	AMX,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0589R	105	RR2	P0589	AQ,HTF	●	●	●	●
P0595AM™ brand	105	AM,LL,RR2	P0595	HTF	●	▼	●	●
P0622AML™ brand	106	AML,LL,RR2	P0622	AQ,HTF		▼		
P0622Q™ brand	106	Q,LL,RR2	P0622	AQ,HTF		▼		
P0622VYHR	106	AVBL,YGCB,HX1,LL,RR2	P0622	AQ,HTF		▼		
P0677AMX™ brand	106	AMX,LL,RR2	P0677	BMR,HTF	●	●	●	●
P0688AM™ brand	106	AM,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0688Q™ brand	106	Q,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0707AMXT™ brand	107	AMXT,LL,RR2	P0707	YFC,HAE,HTF	●	●	●	●
P0720*	107		P0720	HTF	●	●	●	●
P0720AM™ brand	107	AM,LL,RR2	P0720	HTF	●	●	●	●
P0720Q™ brand	107	Q,LL,RR2	P0720	HTF	●	●	●	●
P0720WX*	107		P0720	WX,HTF	●	●	●	●
P0720YHR	107	YGCB,HX1,LL,RR2	P0720	HTF	●	●	●	●
P0732Q™ brand*	107	Q,LL,RR2	P0732	HAE,HTF				
P0783XR	107	HXX,LL,RR2	P0783	BMR	●	■	●	●
P0789AMXT™ brand	107	AMXT,LL,RR2	P0789	YFC,HAE,HTF	●	●	●	●
P0801AMXT™ brand	108	AMXT,LL,RR2	P0801	HTF,HES	●	●	●	●
P0805AM™ brand	108	AM,LL,RR2	P0805	YFC,HAE,HTF	●	●	●	●
P0805YHR	108	YGCB,HX1,LL,RR2	P0805	YFC,HAE,HTF	●	●	●	●
P0806AM™ brand	108	AM,LL,RR2	P0806	HTF,HES	●	●	●	●
P0817Q™ brand*	108	Q,LL,RR2	P0817	HTF,HES				
P0825AM™ brand	108	AM,LLL,RR2	P0825	HTF	●	●	●	●

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Hybrid/Brand***	CRM¹	Technology Segment²	Hybrid Family³	Market Segment⁴	Herbicide Families			
					Amide⁵	Benzoic Acid and Phenoxy⁶	Isoxazole⁷	SU⁸
P0825AMXT™ brand	108	AMXT,LLL,RR2	P0825	HTF	●	●	●	●
P0832WX	108		P0832E	WX,HTF				
P0843	108		P0843	HTF,HES	●	▼	●	●
P0843AM™ brand	108	AM,LL,RR2	P0843	HTF,HES	●	▼	●	●
34A85	109	RR2	34A85	HAE	●	●	●	●
P0908AML™ brand*	109	AML,LL,RR2	P0908	HTF				
P0919AM™ brand	109	AM,LL,RR2	P0919	HTF,HES	●	■	●	●
P0919Q™ brand	109	Q,LL,RR2	P0919	HTF,HES	●	■	●	●
P0921AMXT™ brand	109	AMXT,LL,RR2	P0921	HTF	●	▼	●	●
P0924*	109		P0924	HTF				
P0924Q™ brand*	109	Q,LL,RR2	P0924	HTF				
P0928	109		P0928	YFC,HTF,HES	●	▼	●	●
P0934WX	109		P0934	WX,HES	●	●	●	●
P0935AM™ brand	109	AM,LL,RR2	P0935	HTF,HES	●	●	●	●
P0935YHR™	109	YGCB,HX1,LL,RR2	P0935	HTF,HES	●	●	●	●
P0947Q™ brand	109	Q,LL,RR2	P0947	HTF				
P0950AM™ brand	109	AM,LL,RR2	P0950	HTF	●	●	●	●
P0950Q™ brand	109	Q,LL,RR2	P0950	HTF	●	●	●	●
P0953AM™ brand*	109	AM,LL,RR2	P0953	HTF,HES				
P0956AMX™ brand	109	AMX,LL,RR2	P0956	BMR	●	▼	●	●
P0963AM™ brand	109	AM,LL,RR2	P0963	HTF	●	▼	●	●
P0977	109		P0977	HAE	●	●	●	●
P0977AM™ brand	109	AM,LL,RR2	P0977	HAE	●	●	●	●
P0993HR	109	HX1,LL,RR2	P0993	HAE,HTF	●	●	●	●
P0995AM™ brand*	109	AM,LL,RR2	P0995	AQ,HTF,HES				
P0807Q™ brand	110	Q,LL,RR2	P0807	YFC,HTF				
P1017AMXT™ brand	110	AMXT,LL,RR2	P1017	HTF,HES	●	●	●	●
P1018WX	110		P1018	WX	●	●	●	●
P1055AM™ brand	110	AM,LL,RR2	P1055		▼	▼	●	▼
P1055Q™ brand	110	Q,LL,RR2	P1055		▼	▼	●	▼
P1077AM™ brand	110	AM,LL,RR2	P1077	HTF	●	●	●	●
P1077YHR	110	YGCB,HX1,LL,RR2	P1077	HTF	●	●	●	●
P1082AM™ brand	110	AM,LL,RR2	P1082	HTF	●	●	●	●
P1089AM™ brand	110	AM,LL,RR2	P1089	AQ,YFC	●	●	●	●
P1089AMXT™ brand	110	AMXT,LL,RR2	P1089	AQ,YFC	●	●	●	●
P1093	110		P1093	YFC	●	●	●	●
P1093Q™ brand	110	Q,LL,RR2	P1093	YFC	●	●	●	●
P1093WXQ™ brand	110	Q,LL,RR2	P1093	WX	●	●	●	●
P1099Q™ brand	110	Q,LL,RR2	P1099	HTF				
P1108Q™ brand	111	Q,LL,RR2	P1108	HAE,HTF	●	●	●	●
P1120WAM™ brand	111	AM,LL,RR2	P1120W	WH,HTF	●	▼	▼	●
P1120WQ™ brand*	111	Q,LL,RR2	P1120W	WH,HTF	●	▼	▼	●
P1136AM™ brand*	111	AM,LL,RR2	P1136	HTF,HES				
P1138AM™ brand	111	AM,LL,RR2	P1138	HTF,HES	●	●	●	●
P1138AML™ brand	111	AML,LL,RR2	P1138	HTF,HES	●	●	●	●
P1151	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151AM™ brand	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151AMX™ brand	111	AMX,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151R	111	RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1180XR	111	HXX,LL,RR2	P1180	BMR	●	●	●	●
P1181AM™ brand	111	AM,LL,RR2	P1181	YFC,HTF	●	●	●	●
P1185*	111		P1185	YFC,HTF	●	▼	▼	
P1185AM™ brand	111	AM,LL,RR2	P1185	YFC,HTF	●	▼	▼	
P1185Q™ brand	111	Q,LL,RR2	P1185	YFC,HTF	●	▼	▼	
P1185YHR™ brand	111	YGCB,HX1,LL,RR2	P1185	YFC,HTF	●	▼	▼	

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P1197	111		P1197	HTF,HES	●	●	●	●
P1197AM™ brand	111	AM,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197AMXT™ brand	111	AMXT,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197WX	111		P1197	WX,HTF,HES	●	●	●	●
P1197LR	111	LL,RR2	P1197	HTF,HES	●	●	●	●
P1197R	111	RR2	P1197	HTF,HES	●	●	●	●
P1197YHR	111	YGCB,,HX1,LL,RR2	P1197	HTF,HES	●	●	●	●
P1272Q™ brand	111	Q,LL,RR2	P1272					
P1213AM™ brand	112	AM,LL,RR2	P1213	YFC,HTF				
P1213YHR	112	YGCB,HX1,LL,RR2	P1213	YFC,HTF				
P1222AM™ brand*	112	AM,LL,RR2	P1222	HTF,HES				
P1222YHR*	112	YGCB,,HX1,LL,RR2	P1222	HTF,HES				
P1237AM™ brand*	112	AM,LL,RR2	P1237	HTF				
P1244AM™ brand	112	AM,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1244Q™ brand	112	Q,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1244YHR	112	YGCB,HX1,LL,RR2	P1244	AQ,HAE	●	●	●	●
P1257AM™ brand	112	AM,LL,RR2	P1257	HTF,HES	●	●	●	●
P1278Q™ brand*	112	Q,LL,RR2	P1278	HTF,HES				
P1283AM™ brand	112	AM,LL,RR2	P1283	YFC,HAE	●	●	●	●
P1289AM™ brand*	112	AM,LL,RR2	P1289	HTF,HES				
P1289YHR*	112	YGCB,,HX1,LL,RR2	P1289	HTF,HES				
P1298AM™ brand	112	AM,LL,RR2	P1283		●	●	●	●
P1306W	113		P1306W	WH,HTF	●	●	●	●
P1306WAM™ brand	113	AM,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1306WHR	113	HX1,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1309WAM™ brand	113	AM,LL,RR2	P1309W	WH,HAE	●	●	●	●
P1311AM™ brand	113	AM,LL,RR2	P1311	HTF	●	●	●	▼
P1311AMXT™ brand	113	AMXT,LL,RR2	P1311	HTF	●	●	●	▼
P1317YHR*	113	YGCB,HX1,LL,RR2	P1317	YFC	●	●	●	●
P1319R	113	RR2	P1319	YFC,HAE	▼	▼	▼	●
P1345	113		P1345	YFC,HAE				
P1353AM™ brand	113	AM,LL,RR2	P1353	HTF	▼	●	●	●
P1353Q™ brand	113	Q,LL,RR2	P1353	HTF	▼	●	●	●
P1359AM™ brand	113	AM,LL,RR2	P1359	HTF,HES	▼	▼	●	▼
P1366AM™ brand	113	AM,LL,RR2	P1366	HTF	●	●	●	●
P1366AML™ brand	113	AML,LL,RR2	P1366	HTF	●	●	●	●
P1366AMXT™ brand	113	AMXT,LL,RR2	P1366	HTF	●	●	●	●
P1366WX	113		P1366	WX,HTF	●	●	●	●
P1366WXQ™ brand	113	Q,LL,RR2	P1366	WX,HTF	●	●	●	●
P1366Q™ brand	113	Q,LL,RR2	P1366	HTF	●	●	●	●
P1366VYHR	113	AVBL,YGCB,HX1,LL,RR2	P1366	HTF	●	●	●	●
P1366YHR	113	YGCB,HX1,LL,RR2	P1366	HTF	●	●	●	●
P1370AM™ brand	113	AM,LL,RR2	P1370	HTF	●	▼	●	●
P1370Q™ brand	113	Q,LL,RR2	P1370	HTF	●	▼	●	●
P1379AM™ brand	113	AM,LL,RR2	P1379	HTF,HES	●	▼	●	●
P1380AM™ brand	113	AM,LL,RR2	P1380	HTF	●	▼	●	●
P1380Q™ brand	113	Q,LL,RR2	P1380	HTF	●	▼	●	●
P1380YHR	113	YGCB,HX1,LL,RR2	P1380	HTF	●	▼	●	●
P1395R	113	RR2	P1395	YFC,HAE,HTF	●	●	●	▼
P1395YHR	113	YGCB,HX1,LL,RR2	P1395	YFC,HAE,HTF	●	●	●	▼
P1401VYHR	114	AVBL,YGCB,HX1,LL,RR2	P1401		●	●	●	●
P1408WAM™ brand*	114	AM,LL,RR2	P1408W	WH,HTF,HES				
P1415Q™ brand	113	Q,LL,RR2	P1415	YFC,HTF	●	●	●	●
P1422	114		P1422	YFC	▼	●	●	●
P1422AMXT™ brand	114	AMXT,LL,RR2	P1422	YFC	▼	●	●	●

● 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
P1442	114		P1442	YFC	●	●	●	●
P1442AM™ brand	114	AM,LL,RR2	P1442	YFC	●	●	●	●
P1449AMX™ brand	114	AMX,LL,RR2	P1449	BMR,HAE	●	●	●	●
P1464AML™ brand	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™ brand	114	AM,LL,RR2	P1479	HAE	●	●	●	●
P1498	114		P1498	AQ,YFC,HAE	●	●	▼	●
P1498AM™ brand	114	AM,LL,RR2	P1498	AQ,YFC,HAE	●	●	▼	●
P1498WX	114		P1498	WX,AQ,YFC,HAE	●	●	▼	●
33Y74	115		33Y74	YFC,HTF,HES	●	▼	●	●
P1506AM™ brand	115	AM,LL,RR2	P1506	YFC,HTF,HES	●	●	▼	●
P1506YHR	115	YGCB,HX1,LL,RR2	P1506	YFC,HTF,HES	●	●	▼	●
P1548AM™ brand	115	AM,LL,RR2	P1548	AQ,HES,HTF	●	●	●	●
P1563AM™ brand	115	AM,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563AML™ brand	115	AML,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563Q™ brand*	115	Q,LL,RR2	P1563	HTF,HES				
P1563VYHR	115	AVBL,YGCB,HX1,LL,RR2	P1563	HTF,HES	●	●	●	●
P1572AM™ brand	115	AM,LL,RR2	P1572	HTF	●	●	●	●
P1587LR*	115	LL,RR2	P1587	YFC,HTF	▼	●	●	●
P1587Q™ brand	115	Q,LL,RR2	P1587	YFC,HTF	▼	●	●	●
P1602	116		P1602	YFC,HAE	●	▼	●	▼
P1618W	116		P1618W	WH,HAE	●	●	●	●
P1618WAM™ brand	116	AM,LL,RR2	P1618W	WH,HAE	●	●	●	●
P1620WAM™ brand	116	AM,LL,RR2	P1620W	WH,HAE	●	●	●	●
P1620WLR	116	LL,RR2	P1620W	WH,HAE	●	●	●	●
P1622AM™ brand*	114	AML,LL, RR2	P1622	YFC,HTF				
P1622VYHR*	115	AVBL,YGCB,HX1,LL,RR2	P1622	YFC,HTF				
P1625AMT™ brand	116	AMT,LL,RR2	P1625	YFC	▼	●	●	●
P1637AM™ brand	116	AM,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1637R	116	RR2	P1636	YFC,HAE	●	●	▼	▼
P1637YHR	116	YGCB,HX1,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1639W	116		P1639W	WH,HAE	●	●	●	●
P1639WAM™ brand	116	AM,LL,RR2	P1639W	WH,HAE	●	●	●	●
P1639WQ™ brand	116	Q,LL,RR2	P1639W	WH,HAE	●	●	●	●
P1656W	116		P1656W	WH,HTF	●	●	●	●
P1656WAM™ brand	116	AM,LL,RR2	P1656W	WH,HTF	●	●	●	●
P1662YHR	116	YGCB,HX1,LL,RR2	P1662	YFC,HAE,HTF	●	▼	●	●
P1690AM™ brand	116	AM,LL,RR2	P1690	YFC,HTF,HES	●	●	■	▼
32B10	117		32B10	WH,HAE,HTF	●	●	▼	●
32B16	117	HX1,LL,RR2	32B10	WH,HAE,HTF	●	●	▼	●
P1716Q™ brand	117	Q,LL,RR2	P1716	YFC,HTF	▼	▼	●	▼
P1718AML™ brand*	117	AML,LL, RR2	P1718	HTF,HES				
P1718VYHR*	117	AVBL,YGCB,HX1,LL,RR2	P1718	HTF,HES				
P1731YHR	117	YGCB,HX1,LL,RR2	P1731	YFC,HTF				
P1751	117		P1751	YFC,HTF,HES	■	▼	●	●
P1751AM™ brand	117	AM,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1751AMT™ brand	117	AMT,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1751Q™ brand	117	Q,LL,RR2	P1751	YFC,HTF,HES	■	▼	●	●
P1828AM™ brand	118	AM,LL,RR2	P1828	HTF	●	●	▼	●
P1828Q™ brand	118	Q,LL,RR2	P1828	HTF	●	●	▼	●
P1828YHR	118	YGCB,HX1,LL,RR2	P1828	HTF	●	●	▼	●
P1847AML™ brand	118	AML,LL,RR2	P1847	YFC,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
P1847AMXT™ brand	118	AMXT,LL,RR2	P1847	YFC,HTF	●	●	▼	●
P1847VYHR	118	AVBL,YGCB,HX1,LL,RR2	P1847	YFC,HTF	●	●	▼	●
P1870	118		P1828	YFC,HAE,HTF	●	●	●	●
P1870AM™ brand	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	●	●	●	●
P1903AM™ brand	119	AM,LL,RR2	P1903					
P1903YHR	119	YGCB,HX1,LL,RR2	P1903					
P2042AML™ brand	120	AML,LL,RR2	P2042	YFC,HTF				
P2042VYHR*	120	AVBL,YGCB,HX1,LL,RR2	P2042	YFC,HTF				
P2088AMX™ brand	120	AMX,LL,RR2	P2088	HTF	●	●	▼	▼
P2089AM™ brand	120	AM,LL,RR2	P2088	HTF	●	●	▼	▼
P2089AML™ brand	120	AML,LL,RR2	P2088	HTF	●	●	▼	▼
P2089VYHR	120	AVBL,YGCB,HX1,LL,RR2	P2088	HTF	●	●	▼	▼
30F35VYHR	135	AVBL,YGCB,HX1,LL,RR2	30F35	YFC				

* **NEW**

** 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.

† **New Product. Not Available for sale until 2022 orders and invoicing are available. Quantities may be limited.**

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.

● Adequate Tolerance. With the particular hybrid, 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 hybrid, 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.

■ Crop Response Warning. With this hybrid in field observations and/or research, crop injury has occurred with this herbicide.

□ Insufficient Data. Additional testing is needed to evaluate this hybrid.

Always read and follow all label instructions and precautions.

Pioneer makes no warranty regarding the herbicide crop response information in this guide.

1 Comparative Relative Maturity

2 TECHNOLOGY SEGMENT: 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® TRIssect® 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 YieldGard® Corn Borer gene, and the Herculex® I genes. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax TRIssect 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 YieldGard® Corn Borer gene, and the Herculex® XTRA genes. 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 YieldGard® Corn Borer gene, and the Herculex® XTRA genes. 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

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authorizations, visit <http://www.biotradestatus.com/>. **YGCB,HX1,LL,RR2** (Optimum® Intract®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. **YGCB,HXX,LL,RR2** (Optimum® Intract® Xtra) - Contains the YieldGard® Corn Borer gene and the Herculex XTRA genes 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 YieldGard Corn Borer gene, 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. **HXRW** - The Herculex® RW rootworm protection trait contains proteins that provide enhanced resistance against western corn rootworm, northern corn rootworm and Mexican corn rootworm. **HXX** - Herculex® XTRA contains the Herculex I and Herculex RW genes. **YGCB** - The YieldGard® Corn Borer gene 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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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.

⁵ **Amide** (Chloroacetamide and Others) tested was Harness. This family also includes Surpass, Dual II Magnum, Outlook, Zidua, Define, Lasso, Topnotch, Degree, Ramrod, DuPont™ Cinch® and others in pre-packaged mixes.

⁶ **Benzoic Acid** (Synthetic Auxins) tested was Banvel or Clarity. The Phenoxy family includes 2,4-D. The rating represents these products and others in pre-packaged mixes. Products may exhibit greater early season stalk breakage when Benzoic Acid or Phenoxy herbicides are applied prior to a significant windstorm.

⁷ **Isoxazole** (4-HPPD Inhibitors) tested was Balance Flexx or Balance Pro. The herbicide prevents the biosynthesis of a photosynthetic pigment (carotenoid). The carotenoid pigment prevents the degradation of chlorophyll. Susceptible plant will turn white and chlorotic.

⁸ **SU** (sulfonylureas, ALS Inhibitors) tested was Option, Resolve®, Resolve® Q. This family also includes DuPont™ Accent®, DuPont™ Basis®, Beacon, Permit, Elim, and others in pre-packaged mixes. A similar family called sulfonanilides includes Python. **CAUTION:** Some sulfonylurea products have label restrictions on products with maturity shorter than 88 CRM. Review the herbicide label before applying any sulfonylurea product to products less than 88 CRM.

Ratings in this guide based on data collected through 2020 harvest.

References: (1) 2020 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 2019 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) 2019 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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