

2019 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™	70	AM,LL,RR2	P7005	HAE	●	■	●	▼
P7202AM™	72	AM,LL,RR2	P7202	HAE	●	■	●	▼
P7211AM™*	72	AM,LL,RR2	P7211	HAE	●	▼	●	▼
P7211HR	72	HX1,LL,RR2	P7211	HAE	●	▼	●	▼
P7213R	72	RR2	P7213	HAE	●	▼	●	■
P7227R*	72	RR2	P7527	HAE,HTF	●	▼	●	▼
P7527AM™	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				
P7332R	73	RR2	P7332R	HTF	●	▼	●	▼
P7410HR	74	HX1,LL,RR2	P7410		●	■	●	■
P7417AM™*	74	AM,LL,RR2	P7417	HAE				
P7417R*	74	RR2	P7417	HAE				
P7455R	74	RR2	P7955	HAE,HTF				
P7955AM™	79	AM1,LL,RR2	P7955	HAE,HTF				
P7632AM™	76	AM,LL,RR2	P7632	HTF	●	▼	●	▼
P7861AM™*	78	AM,LL,RR2	P7861					
P7861R*	78	RR2	P7861					
39B90	79	RR2	39B93	HTF	●	■	●	▼
P7909AM™	79	AM,LL,RR2	P7909	HTF				
P7940AM™*	79	AM,LL,RR2	P7940	HAE				
P7958AM™	79	AM,LL,RR2	P7958	HAE	●	■	●	●
39V05	80	RR2	39V07		●	■	●	▼
39V09AM™	80	AM,LL,RR2	39V07		●	■	●	▼
P8034*	80	RR2	P8234	HTF	●	▼	●	■
P8034R*	80	RR2	P8234	HTF	●	▼	●	■
P8234AM™	82	AM,LL,RR2	P8234	HTF	●	■	●	■
P8210	82		P8210	HAE	●	▼	●	●
P8210HR	82	HX1,LL,RR2	P8210	HAE	●	▼	●	●
P8210R	82	RR2	P8210	HAE	●	▼	●	●
P8352AM™*	83	AM,LL,RR2	P8352					
P8352AMXT™*	83	AMXT,LL,RR2	P8352					
P8387AM™	83	AM,LL,RR2	P8387	HAE	●	■	●	●
P8407AM™*	84	AM,LL,RR2	P8407					
P8542AM™	85	AM,LL,RR2	P8542	YFC,HAE	●	●	●	●
P8542AMX™	85	AMX,LL,RR2	P8542	YFC,HAE	●	●	●	●
P8581R	85	RR2	P8581		●	▼	●	●
P8622R	86	RR2	P8622	HAE	●	■	●	●
P8639AM™	86	AM,LL,RR2	P8639	HTF	●	▼	●	▼
P8673R	86	RR2	P8673	HAE	●	■	●	▼
P8673XR	86	HXX,LL,RR2	P8673	HAE	●	■	●	▼
P8700AM™	87	AM,LL,RR2	P8700	HTF	●	●	●	●
P8736AM™*	87	AM,LL,RR2	P8736	HTF				
P8736R*	87	RR2	P8736	HTF				
P8761AM™	87	AM,LL,RR2	P8761	HTF	●	●	●	■
P8761AMXT™	87	AMXT,LL,RR2	P8761	HTF	●	●	●	■
P8761R	87	RR2	P8761	HTF	●	●	●	■
P8989AM™*	89	AM,LL,RR2	P8989	HTF				
P8989AMXT™*	89	AMXT,L,,LRR2	P8989	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
P8989LR[†]	89	LL,RR2	P8989	HTF				
P9120AM [™]	91	AM,LL,RR2	P9120		●	▼	●	▼
P9188	91		P9188	HTF	●	▼	●	▼
P9188AM [™]	91	AM,LL,RR2	P9188	HTF	●	▼	●	▼
P9188AMX [™]	91	AMX,LL,RR2	P9188	HTF	●	▼	●	▼
P9188AMXT	91	AMXT,LL,RR2	P9188	HTF	●	▼	●	▼
P9188R*	91	RR2	P9188	HTF	●	▼	●	▼
38N85	92	RR2	38N86	HAE	●	●	●	●
P9224AM [™]	92	AM,LL,RR2	P9224	YFC,HTF	●	▼	●	●
P9329AM [™]	93	AM,LL,RR2	P9329	HAE	●	●	●	●
P9330*	93		P9330	HES	●	■	●	●
P9330AM [™]	93	AM,LL,RR2	P9330	HES	●	■	●	●
P8926AM [™]	94	AM,LL,RR2	P8926					
P8926Q [™]	94	Q,LL,RR2	P8926					
P9404AM [™]	94	AM,LL,RR2	P9404	HTF,HES	●	●	●	▼
P9492AM [™]	94	AM,LL,RR2	P9492	HAE				
P9526AM [™]	95	AM,LL,RR2	P9526	AQ,HTF,HES	●	●	●	▼
P9526AMXT [™]	95	AMXT,LL,RR2	P9526	AQ,HTF,HES	●	●	●	▼
P9377AMXT [™]	96	AMXT,LL,RR2	P9377	HTF				
P9608	96		P9608	HAE	●	●	●	●
P9608AM [™]	96	AM,LL,RR2	P9608	HAE	●	●	●	●
P9608AMXT ^{™*}	96	AMXT,LL,RR2	P9608	HAE	●	●	●	●
P9608Q^{™*}	96	Q,LL,RR2	P9608	HAE	●	●	●	●
P9608R	96	RR2	P9608	HAE	●	●	●	●
P9621AMXT [™]	96	AMXT,LL,RR2	P9621	HTF,HES	●	■	●	●
P9644AM [™]	96	AM,LL,RR2	P9644		●	●	●	●
P9644AMX [™]	96	AMX,LL,RR2	P9644		●	●	●	●
P9675R	96	RR2	P9675	HTF	▼	●	●	●
P9681AMX [™]	96	AMX,LL,RR2	P9681	HTF	●	▼	●	▼
P9690AM [™]	96	AM,LL,RR2	P9690	AQ,HTF,HES	●	●	●	●
P9690R	96	RR2	P9690	AQ,HTF,HES	●	●	●	●
P9697AM [™]	96	AM,LL,RR2	P9697	AQ,HTF	●	●	●	▼
P9703AM [™]	97	AM,LL,RR2	P9703	AQ,HTF,HES	●	●	●	●
P9703AMX [™]	97	AMX,LL,RR2	P9703	AQ,HTF,HES	●	●	●	●
P9772AM^{™*}	97	AM,LL,RR2	P9772	HTF,HES				
P9789AMXT [™]	97	AMXT,LL,RR2	P9789		●	●	●	●
P9840AM [™]	98	AM,LL,RR2	P9840	HAE,HTF	●	●	●	●
P9840AMXT [™]	98	AMXT,LL,RR2	P9840	HAE,HTF	●	●	●	●
P9870AM [™]	98	AM,LL,RR2	P9870	HTF,HES	●	■	●	●
P9880AM^{™*}	98	AM,LL,RR2	P9880	HAE				
P9880AMXT^{™*}	98	AMXT,LL,RR2	P9880	HAE				
P9917R	99	RR2	P9917	HTF	●	●	●	●
P9929AM [™]	99	AM,LL,RR2	P9929	HTF	●	▼	●	▼
P9929AMXT [™]	99	AMXT,LL,RR2	P9929	HTF	●	▼	●	▼
P9946AML^{™*}	99	AML,LL,RR2	P9946					
P9998	99		P9998	AQ,HAE,HTF	●	●	●	●
P9998AM [™]	99	AM,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998AMXT [™]	99	AMXT,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998Q [™]	99	Q,LL,RR2	P9998	AQ,HAE,HTF	●	●	●	●
P9998R	99	RR2	P9998	AQ,HAE,HTF	●	●	●	●
P0046AM^{™*}	100	AM,LL,RR2	P0046	HAE,HTF				
P0075AM^{™*}	100	AM,LL,RR2	P0075	HAE,HTF				
P0075Q^{™*}	100	Q,LL,RR2	P0075	HAE,HTF				
P0157	101		P0157	AQ,HAE,HTF	●	●	●	▼
P0157AM [™]	101	AM,LL,RR2	P0157	AQ,HAE,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
P0157AMX™	101	AMX,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157AMXT™	101	AMXT,LL,RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0157E	101		P0157	WX,AQ,HAE,HTF	●	●	●	▼
P0157R	101	RR2	P0157	AQ,HAE,HTF	●	●	●	▼
P0193AMX™	101	AMX,LL,RR2	P0193	HAE,HTF	●	●	●	●
36V51	102	RR2	36V51		●	▼	●	●
P0216AM™	102	AM,LL,RR2	P0216	HTF	●	●	●	●
P0238XR	102	HXX,LL,RR2	P0238	BMR	●	■	●	●
P0242AMXT™	102	AMXT,LL,RR2	P0242	HTF,HES	▼	●	●	●
P0031Q™*	103	Q,LL,RR2	P0031	HTF				
P0306AM™	103	AM,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0306AMXT™	103	AMXT,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0306Q™	103	Q,LL,RR2	P0306	AQ,HAE,HTF	●	●	●	▼
P0339AM™	103	AM,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339AMT™	103	AMT,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339AMXT™	103	AMXT,LLL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339Q	103	Q,LL,RR2	P0339	AQ,HTF	▼	▼	●	■
P0339R*	103	RR2	P0339	AQ,HTF	▼	▼	●	■
P0365AM™	103	AM,LL,RR2	P0365	AQ,HTF,HES	●	●	●	●
P0365YHR	103	YGCB,HX1,LL,RR2	P0365	AQ,HTF,HES	●	●	●	●
P0389AMXT™	103	AMXT,LL,RR2	P0389	HTF,HES				
P0414AM™	104	AM,LL,RR2	P0414	HTF,HES	●		●	
P0421AM™*	104	AM,LL,RR2	P0421	HAE,HTF				
P0421Q™*	104	Q,LL,RR2	P0421	HAE,HTF				
P0496AMX™	104	AMX,LL,RR2	P0496	AQ,YFC,HAE,HTF	●	▼	●	●
35F37	105	RR2	35F38	YFC,HAE,HTF	●	●	●	●
35F50AM™	105	AM,LL,RR2	35F38	YFC,HAE,HTF	●	●	●	●
P0506	105		P0506	AQ,HTF	●	●	●	●
P0506AM™	105	AM,LL,RR2	P0506	AQ,HTF	●	●	●	●
P0506R	105	RR2	P0506	AQ,HTF	●	●	●	●
P0533AM1™	105	AM1,LL,RR2	P0533	YFC,HTF	●	●	●	●
P0533E	105		P0533	WX,HTF	●	●	●	●
P0533EXR	105	HXX,LL,RR2	P0533	WX,HTF	●	●	●	●
P0533XR	105	HXX,LL,RR2	P0533	YFC,HTF	●	●	●	●
P0574	105		P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574AM™	105	AM,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574AMXT™	105	AMXT,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0574Q™	105	Q,LL,RR2	P0574	AQ,HAE,HTF	▼	▼	●	▼
P0589	105		P0589	AQ,HTF	●	●	●	●
P0589AM™	105	AM,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0589AMXT™	105	AMX,LL,RR2	P0589	AQ,HTF	●	●	●	●
P0589EHR	105	HX1,LL,RR2	P0589	WX,AQ,HTF	●	●	●	●
P0589R	105	RR2	P0589	AQ,HTF	●	●	●	●
P0591AMX™	105	AMX,LL,RR2	P0591	HAE,HTF	●	●	●	●
P0604	106		P0604	YFC,HTF,HES	●	●	●	●
P0604AM™	106	AM,LL,RR2	P0604	YFC,HTF,HES	●	●	●	●
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				
P0636AMX™	106	AMX,LL,RR2	P0636	AQ,HTF,HES	●	●	●	●
P0636E	106		P0636	WX,AQ,HTF,HES	●	●	●	●
P0636ER	106	RR2	P0636	WX,AQ,HTF,HES	●	●	●	●
P0657AM™	106	AM,LL,RR2	P0657	AQ,HAE				
P0657AMXT™	106	AMXT,LL,RR2	P0657	AQ,HAE				
P0677AMX™	106	AMX,LL,RR2	P0677	BMR,HTF	●	●	●	●

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P0688AM™	106	AM,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0688Q™	106	Q,LL,RR2	P0688	HAE,HTF	●	●	●	●
P068YHR	106	YGCB,HX1,LL,RR2	P0688	HAE,HTF	●	●	●	●
P0707AM™	107	AMLL,RR2	P0707	YFC,HAE,HTF	●	●	●	●
P0707AMXT™	107	AMXT,LL,RR2	P0707	YFC,HAE,HTF	●	●	●	●
P0720AM™*	107	AM,LL,RR2	P0720	HTF,HES				
P0720AMXT™*	107	AMXT,LL,RR2	P0720	HTF,HES				
P0720Q™*	107	Q,LL,RR2	P0720	HTF,HES				
P0720YHR*	107	YGCB,HX1,LL,RR2	P0720	HTF,HES				
P0760	107		P0760	AQ,YFC,HAE,HES	●	▼	●	●
P0760AMXT™	107	AMXT,LL,RR2	P0760	AQ,YFC,HAE,HES	●	▼	●	●
P0783XR	107	HXX,LL,RR2	P0783XR	BMR	●	■	●	●
P0789AMXT™	107	AMXT,LL,RR2	P0789	YFC,HTF	●	●	●	●
P0801AM™	108	AM,LL,RR2	P0801	HTF,HES	●	●	●	●
P0801AMXT™	108	AMXT,LL,RR2	P0801	HTF,HES	●	●	●	●
P0805AM™	108	AM,LL,RR2	P0805	YFC,HAE,HTF	●	●	●	●
P0825AM™	108	AM,LLL,RR2	P0825	HTF	●	●	●	●
P0825AMXT™	108	AMXT,LLL,RR2	P0825	HTF	●	●	●	●
P0825R	108	RR2	P0825	HTF	●	●	●	●
P0843	108		P0843	HTF,HES	●	▼	●	●
P0843AM™	108	AM,LL,RR2	P0843	HTF,HES	●	▼	●	●
34A85	109	RR2	34A85	HAE	●	●	●	●
P0905EXR	109	HXX,LL,RR2	P0905	WX,HTF,HES	●	●	●	●
P0916EHR	109	HX1,LL,RR2	P0916	WX,HTF,HES	●	▼	●	■
P0919AM™	109	AM,LL,RR2	P0919	HTF,HES	●	■	●	●
P0919EHR*	109	HX1,LL,RR2	P0919	WX,HTF,HES	●	■	●	●
P0919Q	109	Q,LL,RR2	P0919	HTF,HES	●	■	●	●
P0921AMXT™	109	AMXT,LL,RR2	P0921	HTF	●	▼	●	●
P0928	109		P0928	YFC,HTF,HES	●	▼	●	●
P0934E	109			WX,HES				
P0937AM™	109	AM,LL,RR2	P0937	HTF,HES	●	●	●	●
P0950AM™	109	AM,LL,RR2	P0950	HTF				
P0950EQ™	109	Q,LL,RR2	P0950	WX,HTF				
P0950Q™	109	Q,LL,RR2	P0950	HTF				
P0956AMXT™	109	AMX,LL,RR2	P0956	BMR	●	▼	●	●
P0963AM™*	109	AM,LL,RR2	P0963	HTF				
P0977[†]	109		P0977	HAE				
P0977AM™	109	AM,LL,RR2	P0977	HAE				
P0987AMXT™	109	AMX,LL,RR2	P0987	YFC,HAE,HTF	●	▼	●	●
P0987R	109	RR2	P0987	YFC,HAE,HTF	●	▼	●	●
P0993	109	AM1,LL,RR2	P0993	HAE,HTF	●	●	●	●
P0993HR	109	HX1,LL,RR2	P0993	HAE,HTF	●	●	●	●
P1099Q™*	110	Q,LL,RR2	P1099					
P0807Q™*	110	Q,LL,RR2	P0807	YFC,HTF				
P1017AMXT™	110	AMXT,LL,RR2	P1017	HTF,HES				
P1018E	110		P1018	WX	●	●	●	●
P1018EHR	110	HX1,LL,RR2	P1018	WX	●	●	●	●
P1055AM™	110	AM,LL,RR2	P1055					
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				
P1093AMXT™	110	AMXT,LL,RR2	P1093	YFC				

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					Amide ⁵	Benzoic Acid and Phenoxy ⁶	Isoxazole ⁷	SU ⁸
P1093Q™	110	Q,LL,RR2	P1093	YFC				
P1105	110		P1105	YFC,HTF,HES	●	●	●	●
P1105AM™	110	AM,LL,RR2	P1105	YFC,HTF,HES	●	●	●	●
P1108Q™*	111	Q,LL,RR2	P1108	HAE,HTF				
P1138AML™*	111	AML,LL,RR2	P1138	HTF,HES				
P1138AM™	111	AM,LL,RR2	P1138	HTF,HES	●	●	●	●
P1138YHR	111	YGCB,HX2,LL,RR2	P1138	HTF,HES	●	●	●	●
P1151	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151AM™	111	AM,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151AMX™	111	AMX,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151Q	111	Q,LL,RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1151R	111	RR2	P1151	AQ,HAE,HTF	●	●	●	●
P1162EXR	111	HXX,LL,RR2	P1162	WX	●	●	●	▼
P1180XR	111	HXX,LL,RR2	P1180	BMR	●	●	●	●
P1181AM™*	111	AM,LL,RR2	P1181	YFC,HTF,HES				
P1197	111		P1197	HTF,HES	●	●	●	●
P1197AM™	111	AM,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197AMT™	111	AMT,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197AMXT™	111	AMXT,LL,RR2	P1197	HTF,HES	●	●	●	●
P1197E	111		P1197	WX,HTF,HES	●	●	●	●
P1197R	111	RR2	P1197	HTF,HES	●	●	●	●
P1197YHR	111	YGCB,,HX1,LL,RR2	P1197	HTF,HES	●	●	●	●
P1272Q™*	111	Q,LL,RR2	P1272					
P1244AM™	112	AM,LL,RR2	P1244	AQ,HAE				
P1244Q™	112	Q,LL,RR2	P1244	AQ,HAE				
P1257AM™	112	AM,LL,RR2	P1257	HTF,HES	●	●	●	●
P1257AMXT™	112	AMXT,LL,RR2	P1257	HTF,HES	●	●	●	●
P1257YHR	112	YGCB,HX1,LL,RR2	P1257	HTF,HES	●	●	●	●
P1271AM™	112	AM,LL,RR2	P1271	HTF	▼	▼	●	●
P1283AM™	112	AM,LL,RR2	P1283	YFC,HAE				
P1298AM™	112	AM,LL,RR2	P1283					
33T56	113		33T56	YFC,HAE	●	▼	●	▼
P1306W	113		P1306W	WH,HTF	●	●	●	●
P1306WHR	113	HX1,LL,RR2	P1306W	WH,HTF	●	●	●	●
P1309WAM™	113	am,LL,RR2	P1306W	WH,HAE	●	●	●	●
P1309WYHR	113	YGCB,HX1,LL,RR2	P1306W	WH,HAE	●	●	●	●
P1311AM™	113	AM,LL,RR2	P1311	HTF	●	●	●	▼
P1311AMXT™	113	AMXT,LL,RR2	P1311	HTF	●	●	●	▼
P1311YHR	113	YGCB,HX1,LL,RR2	P1311	HTF	●	●	●	▼
P1316AM™	113	AM,LL,RR2	P1316	HTF	●	●	●	●
P1316YHR	113	YGCB,HX1,LL,RR2	P1316	HTF	●	●	●	●
P1319HR	113	HX1,LL,RR2	P1319	YFC,HAE	▼	▼	▼	●
P1319R	113	RR2	P1319	YFC,HAE	▼	▼	▼	●
P1345	113		P1345	YFC,HAE				
P1353AM™	113	AM,LL,RR2	P1353	HES	▼	●	●	●
P1353Q™	113	Q,LL,RR2	P1353	HES	▼	●	●	●
P1365AMX™	113	AMX,LL,RR2	P1365	HAE,HTF	●	●	▼	▼
P1366AML™*	113	AML,LL,RR2	P1366	HTF	●	●	●	●
P1366AM™	113	AM,LL,RR2	P1366	HTF	●	●	●	●
P1366AMXT™	113	AMXT,LL,RR2	P1366	HTF	●	●	●	●
P1366E*	113		P1366	WX,HTF	●	●	●	●
P1366EQ™*	113	Q,LL,RR2	P1366	WX,HTF	●	●	●	●
P1366LR*	113	LL,RR2	P1366	HTF	●	●	●	●
P1366Q™	113	Q,LL,RR2	P1366	HTF	●	●	●	●
P1366VYHR*	113	YGCB,HX1,LL,RR2	P1366	HTF	●	●	●	●

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

2019 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
P1366YHR	113	YGCB,HX1,LL,RR2	P1366	HTF	●	●	●	●
P1370AM™	113	AM,LL,RR2	P1370	HTF	●	▼	●	●
P1370AMXT™	113	AMXT,LL,RR2	P1370	HTF	●	▼	●	●
P1370Q™	113	Q,LL,RR2	P1370	HTF	●	▼	●	●
P1370YHR	113	YGCB,HX1,LL,RR2	P1370	HTF	●	▼	●	●
P1379AM™	113	AM,LL,RR2	P1379	HTF,HES	●	▼	●	●
P1380AM™*	113	AM,LL,RR2	P1380	HTF,HES				
P1395AM™	113	AM,LL,RR2	P1395	YFC,HAE,HTF	●	●	●	▼
P1395R	113	RR2	P1395	YFC,HAE,HTF	●	●	●	▼
P1395YHR	113	YGCB,HX1,LL,RR2	P1395	YFC,HAE,HTF	●	●	●	▼
P1415Q™*	113	Q,LL,RR2	P1415	YFC,HAE,HTF				
33F12	114		33F12	WH,HAE	●	●	●	●
33G60	114	HX1,LL,RR2	33G58	WH,HAE,HTF	●	●	●	●
P1401VYHR	114	AVBL,YGCB,HX1,LL,RR2	P1401		●	●	●	●
P1417AMX™	114	AMX,LL,RR2	P1417	YFC,HTF,HES	●	●	●	●
P1422	114		P1422	YFC,HAE	▼	●	●	●
P1422AMXT™	114	AMXT,LL,RR2	P1422	YFC,HAE	▼	●	●	●
P1431W	114		P1431W	WH,HAE	●	■	▼	▼
P1431WR	114	RR2	P1431W	WH,HAE	●	■	▼	▼
P1442	114		P1442	YFC,HAE				
P1442AM™	114	AM,LL,RR2	P1442	YFC,HAE				
P1442YHR	114	YGCB,HX1,LL,RR2	P1442	YFC,HAE				
P1443	114		P1443	AQ,YFC,HAE,HTF	●	▼	●	●
P1443AM™	114	AM,LL,RR2	P1443	AQ,YFC,HAE,HTF	●	▼	●	●
P1443YHR	114	YGCB,HX1,LL,RR2	P1443	AQ,YFC,HAE,HTF	●	▼	●	●
P1449AMX™	114	AMX,LL,RR2	P1449	BMR,HAE	●	●	●	●
P1464AML™	114	AML,LL,RR2	P1464	HTF	●	▼	●	▼
P1464VYHR	114	AVBL,YGCB,HX1,LL,RR2	P1464	HTF	●	▼	●	▼
P1477W	114		P1477W	WH,HAE	●	●	●	●
P1477WHR	114	HX1,LL,RR2	P1477W	WH,HAE	●	●	●	●
P1477WR	114	HX1,LL,RR2	P1477W	WH,HAE	●	●	●	●
P1479AM™	114	AM,LL,RR2	P1479	HAE	●	●	●	●
P1479EYHR*	114	YGCB,HX1,LL,RR2	P1479	WX,HAE	●	●	●	●
P1498	114		P1498	AQ,YFC,HAE	●	●	▼	●
P1498AM	114	AM,LL,RR2	P1498	AQ,YFC,HAE	●	●	▼	●
P1498AM1™	114	AM1,LL,RR2	P1498	AQ,YFC,HAE	●	●	▼	●
P1498E	114		P1498	WX,AQ,YFC,HAE	●	●	▼	●
P1498EHR	114	HX1,LL,RR2	P1498	WX,AQ,YFC,HAE	●	●	▼	●
P1498R	114	RR2	P1498	AQ,YFC,HAE	●	●	▼	●
P1498YHR	114	YGCB,HX1,LL,RR2	P1498	AQ,YFC,HAE	●	●	▼	●
33D47	115	RR2	33D47	YFC,HTF,HES	●	▼	●	●
33Y74	115		33Y74	YFC,HTF,HES	●	▼	●	●
P1529YHR	115	YGCB,HX1,LL,RR2	P1529	YFC,HES	●	●	●	●
P1555CHR	115	RW,HX1,LL,RR2	P1555	YFC,HAE	●	●	●	●
P1563AML™*	115	AML,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563AM™	115	AM,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563VYHR*	115	AVBL,YGCB,HX1,LL,RR2	P1563	HTF,HES	●	●	●	●
P1563YHR	115	YGCB,HX1,LL,RR2	P1563	HTF,HES	●	●	●	●
P1572AM™*	115	AM,LL,RR2	P1572	HTF				
P1572YHR*	115	YGCB,HX1,LL,RR2	P1572	HTF				
P1602	116		P1602	YFC,HAE	●	▼	●	▼
P1602AMX™	116	AMX,LL,RR2	P1602	YFC,HAE	●	▼	●	▼
P1602R	116	RR2	P1602	YFC,HAE	●	▼	●	▼
P1618W	116		P1618W	WH,HAE	●	●	●	●

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

2019 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
P1618WAM™	116	AM,LL,RR2	P1618W	WH,HAE	●	●	●	●
P1620WAM™	116	AM,LL,RR2	P1620W	WH,HAE	●	●	●	●
P1620WR	116	RR2	P1620W	WH,HAE	●	●	●	●
P1620WYHR	116	YGCB,HX1,LL,RR2	P1620W	WH,HAE	●	●	●	●
P1625AMT™	116	AMT,LL,RR2	P1625	YFC	▼	●	●	●
P1637AM™	116	AM,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1637R	116	RR2	P1636	YFC,HAE	●	●	▼	▼
P1637VYHR	116	AVBL,YGCB,HX1,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1637YHR	116	YGCB,HX1,LL,RR2	P1636	YFC,HAE	●	●	▼	▼
P1639W*	116		P1639W	WH,HAE				
P1639WAM™	116	AM,LL,RR2	P1639W	WH,HAE				
P1639WQ™*	116	Q,LL,RR2	P1639W	WH,HTF				
P1656W*	116		P1656W	WH,HTF				
P1656WAM™*	116	AM,LL,RR2	P1656W	WH,HTF				
P1662AM™	116	AM,LL,RR2	P1662	YFC,HAE,HTF	●	●	●	●
P1662YHR	116	YGCB,HX1,LL,RR2	P1662	YFC,HAE,HTF	●	●	●	●
P1690AM™	116	AM,LL,RR2	P1690	YFC,HTF,HES	●	▼	■	▼
P1690CHR	116	RW,HX1,LL,RR2	P1690	YFC,HTF,HES	●	▼	■	▼
32B10	117		32B10	WH,HAE,HTF	●	●	▼	●
32B16	117	HX1,LL,RR2	32B10	WH,HAE,HTF	●	●	▼	●
P1739YHR	117	YGCB,HX1,LL,RR2	P1739	HAE,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	■	▼	●	●
P1794VYHR	117	AVBL,YGCB,HX1,LL,RR2	P1794	YFC,HAE				
P1828AM™	118	AM,LL,RR2	P1828	HTF				
P1828Q	118	Q,LL,RR2	P1828	HTF				
P1828YHR	118	YGCB,HX1,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,HTF	●	▼	▼	●
31N27	119		31N27	YFC	▼	▼	▼	●
P1903AM™*	119	AM,LL,RR2	P1903	HAE				
P1903YHR*	119	YGCB,HX1,LL,RR2	P1903	HAE				
P1916YHR	119	YGCB,HX1,LL,RR2	P1916	YFC,HAE	●	●	●	●
P2088AMX™	120	AMX,LL,RR2	P2088	HTF	●	●	▼	▼
P2088R	120	RR2	P2088	HTF	●	●	▼	▼
P2088YXR	120	YGCB,HXX,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	●	●	▼	▼
P2160YHR	121	YGCB,HX1,LL,RR2	P2160	YFC,HAE	●	●	●	●
30F35HR	135	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, AMRW, AMT, AMX and AMXT, in which case they are brands.

† New Product. Not Available for sale until 2019 orders and invoicing are available. Quantities may be limited.

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

2019 Corn Hybrid-Herbicide Management Guide**

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.

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: 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 and have also received approval in a number of importing countries. Pioneer pursues import approvals for Qrome in accordance with Excellence Through Stewardship product launch guidance and in compliance with Pioneer policies regarding product stewardship. Grain and byproducts produced from Qrome cannot be marketed in unapproved jurisdictions until the applicable approval is granted. Growers can refer to www.biotradestatus.com for updated status of import country approvals. **YGCB,HX1,LL,RR2** (Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. **YGCB,HXX,LL,RR2** (Optimum® Intrasect® Xtra) - Contains the YieldGard® Corn Borer gene and the Herculex XTRA genes for resistance to corn borer and corn rootworm. **RW,YGCB,HX1,LL,RR2** (Optimum® Intrasect® TRIssect®) - Contains the Agrisure® RW trait for resistance to rootworm, the YieldGard® Corn Borer gene, and the Herculex® I genes for resistance to above ground pests. Optimum Intrasect TRIssect is the major component of Optimum AcreMax TRIssect. **RW,HX1,LL,RR2** (Optimum® TRIssect®) - 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 insect 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.

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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 2018 harvest.

References: (1) 2017 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 2016 Edition, Bulletin 789, The Ohio State University Extension, M. M. Loux and D. Doohan The Purdue Extension; W.G. Johnson and T.R. Legleiter (3) 2017 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland, Bulletin SRP 1132, Kansas State University, Agricultural Experiment Station & Cooperative Extension Service, C.R. Thompson, D. E. Peterson, W. H. Fick, P.W. Stablman, and J.W. Slocombe.

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