

What's on your seed?

Seed treatments have been used for a number of years, mostly for protection against seedling diseases. However, there are a number of new seed treatments marketed for protection against a range of pests, including seedling diseases, insects and nematodes, and even improving plant health.

The purpose of this publication is to take some of the confusion of seed treatments away, giving you a better understanding of what is on your seed. The list covers seed treatments registered in the state of Wisconsin for use on corn, soybean, small grain and/or alfalfa seed. The seed treatments are grouped by the number of active ingredients (1-6), treatment type (fungicide, insecticide, nematicide or plant growth regulator) and then alphabetically by the product trade name. The list is not based on efficacy of the seed treatments and is not an endorsement or criticism of one product over another. You are responsible for using pesticides according to the manufacturer's current label directions.

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Treatment Type Legend

- F** Fungicide
- I** Insecticide
- N** Nematicide
- P** Plant Growth Regulator

Active Ingredient(s)	Product Trade Name	Crop
F azoxystrobin	Agri Star Azoxystrobin 100 ST	Corn, Soybean, Small Grains
	A-Zox 255C	Corn, Soybean
	Dynasty®	Corn, Soybean, Small Grains
	Start UP AZOXY	Corn, Soybean, Small Grains
F <i>Bacillus amyloliquefaciens</i> , strain MBI 600	HiStick® N/T Soybean	Soybean
	Integral®	Soybean
	L-2013 P	Corn
	L-2012 R	Corn
	PPCT 2012 Purple Biofungicide	Corn
	PPCT 2012 Red Biofungicide	Corn
F <i>Bacillus amyloliquefaciens</i> , strain D747	DoubleNickel 55 Biofungicide	Corn, Soybean, Small Grains
F <i>Bacillus pumilus</i> , strain QST2808	Sonata®	Corn, Soybean, Small Grains
F <i>Bacillus subtilis</i> var. <i>amyloliquefaciens</i> , strain FZB24	Taegro	Corn, Soybean, Small Grains
F carboxin	Vitavax-34	Corn, Soybean, Small Grains
F copper hydroxide	Champ® Formula 2	Small Grains
	NU-COP 3L	Small Grains
F difenoconazole	Difenoconazole 3L ST	Small Grains
	Dyna-Shield DEFUZE	Small Grains
	Salient 372 FS	Small Grains
	Intego™ Solo	Corn, Small Grains
F ethaboxam	Lumiante	Corn, Small Grains
	Agri Star® Fludioxonil 4L ST	Corn, Soybean, Small Grains, Alfalfa
F fludioxonil	Dyna-shield® Fludioxonil	Corn, Soybean, Small Grains, Alfalfa
	Maxim® 4 FS	Corn, Soybean, Small Grains, Alfalfa
	Spirato™ 480 FS	Corn, Soybean, Small Grains, Alfalfa
	Start Up FLUDI	Corn, Soybean, Small Grains, Alfalfa
	ILEVO	Soybean
F fluopyram	Acceleron D-281	Corn
F fluoxastrobin	Fluoxastrobin ST	Corn, Soybean, Small Grains
	Acceleron™ DX-612	Soybean
F fluxapyroxad	Systiva® XS Xemium	Small Grains

Treatment Type Legend

F Fungicide

I Insecticide

N Nematicide

P Plant Growth Regulator

	Active Ingredient(s)	Product Trade Name	Crop
F	ipconazole	Lumiflex	Corn, Soybean
		Rancona® 3.8 FS	Soybean, Small Grains
		Vortex®	Corn
F	mancozeb	Dithane® F45 Rainshield®	Corn
		Dithane M45®	Corn, Small Grains
		Manzate® Max	Corn
		Manzate ProStick™	Corn, Small Grains
		Penncozeb® 75DF	Corn, Small Grains
		Penncozeb® 80WP	Corn, Small Grains
		STartUp MANZB	Corn, Small Grains
F	mefenoxam	Apron® XL	Corn, Soybean, Small Grains, Alfalfa
F	mefentrifluconazole	Relenya	Soybean, Small, Grains
F	metalaxyl	Acceleron® DX-309	Corn, Soybean
		Acquire™	Corn, Soybean, Small Grains, Alfalfa
		Agri Star Metalaxyl® 265 ST	Corn, Soybean, Small Grains, Alfalfa
		Allegiance® FL	Corn, Soybean, Small Grains, Alfalfa
		AXYL-SHIELD ST	Corn, Soybean, Small Grains, Alfalfa
		Belmont™ 2.7 FS	Corn, Soybean, Small Grains, Alfalfa
		Dyna-shield® Metalaxyl	Corn, Soybean, Small Grains, Alfalfa
		Dyna-Shield® Metalaxyl 318 FS	Corn, Soybean, Small Grains, Alfalfa
		Metalaxyl 4.0 ST	Corn, Soybean, Small Grains, Alfalfa
		My Yield FX1	Corn, Soybean, Small Grains, Alfalfa
		ReCon 4F	Soybean
		Sebring™ 318 FS	Corn, Soybean, Small Grains, Alfalfa
		Sebring™ 480 FS	Corn, Soybean, Small Grains, Alfalfa
		STartUp METXL	Corn, Soybean, Small Grains, Alfalfa
		F	metconazole
Metlock CT	Corn, Small Grains		
F	oxathiapiprolin	Lumisena	Soybean
F	penflufen	Acceleron® D-805	Corn
F	picoxystrobin	DuPont DPX-YT669 250FS	Soybean
F	prothioconazole	Acceleron D-342	Corn
		Redigo 480	Corn, Soybean, Small Grains, Alfalfa
F	pydiflumetofen	Saltro	Soybean
F	pyraclostrobin	Acceleron® DX-109	Soybean
		Stamina®	Corn, Small Grains, Alfalfa
F	<i>Reynoutria sachalinensis</i>	MBI-106 12 Biofungicide	Corn, Soybean, Small Grain, Alfalfa
F	sedaxane	Vibrance™ Fungicide	Corn, Soybean, Small Grains
F	<i>Streptomyces lydicus</i> , WYEC 108	Actinovate® AG	Corn, Soybean, Small Grains, Alfalfa
		Actinovate® SP	Corn, Soybean, Small Grains, Alfalfa
		Actinovate® STP	Corn, Soybean, Small Grains, Alfalfa
F	<i>Streptomyces</i> , strain K61	MYCOSTOP Biofungicide	Corn, Soybean, Small Grains

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F Fungicide

I Insecticide

N Nematicide

P Plant Growth Regulator

	Active Ingredient(s)	Product Trade Name	Crop
F	tebuconazole	Agri Star® TebuStar® 250 ST	Corn, Small Grains
		Dyna-Shield Tibet	Corn, Small Grains
		Orius 3.6F	Corn
		Raxil® 2.6F	Corn, Small Grains
		Sativa 309 FS	Corn, Small Grains
		StartUp TEBUZ	Corn, Small Grains
		Teb ST	Corn, Small Grains
		Tebucon 3.6F	Corn
		Tebu-Crop 3.6F	Corn
		Tebucure Fungicide 3.6	Corn
		Tebuzol™ 3.6F	Corn
		Tebuconazole 3.6 Select	Corn
		Vibe	Corn
Willowood Teb 3.6SC	Corn		
F	thiabendazole	Agri Star Thiabendazole 4L ST	Soybean
		Mertect® 340-F	Soybean, Small Grains, Alfalfa
F	thiophanate-methyl	Agri Star T-Methyl 4.5L ST	Soybean, Small Grains
		ST-Methyl 540 FS	Soybean, Small Grains
		Cercobin	Soybean, Small Grains
		Dyna-Shield Teemer	Soybean, Small Grains
		STartUp T-MTYL	Soybean, Small Grains
F	thiram	42-S Thiram	Corn, Soybean, Small Grains
		Thiram 480 DP	Corn, Soybean, Small Grain
		Thiram® Granuflo	Corn, Soybean, Small Grains
		Thiram SC	Corn, Soybean, Small Grains
F	tolclofos-methyl	Rizolex™	Corn, Soybean, Small Grains, Alfalfa
F	<i>Trichoderma harzianum</i> , Rifai strain T-22	Rootshield WP Biological Fungicide	Corn, Soybean, Small Grains, Alfalfa
F	trifloxystrobin	Trilex® Flowable	Corn, Soybean, Small Grains, Alfalfa
I	<i>Burkholderia spp.</i> strain A396	BIO ST Insecticide 100	Corn, Soybean, Small Grains
I	chlorantraniliprole	Lumivia™	Corn
I	chlorpyrifos	Lorsban® 50W	Corn
I	<i>Chromobacterium subtsugae</i> , strain PRAA4-1	GRANDEVO ST	Corn, Small Grains
I	clothianidin	Acceleron™ IC-609	Corn
		Lumisure	Corn, Soybean, Small Grains
		Nipsit INSIDE®	Corn, Soybean, Small Grains
		Poncho® 600	Corn, Soybean, Small Grains
		Poncho® XC	Soybean, Small Grains
I	cyantraniliprole	Fortenza	Corn, Soybean
I	imidacloprid	Acceleron™ IX-409	Soybean
		Attendant® 480 FS	Soybean, Small Grains
		Attendant® 600	Corn, Soybean, Small Grains
		AXCESS™	Corn, Soybean, Small Grains
		Dyna-Shield® Imidacloprid 5	Corn, Soybean, Small Grains
Gaucho® 480 Flowable	Corn, Soybean, Small Grains		

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F	Fungicide
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	Active Ingredient(s)	Product Trade Name	Crop	
I	imidacloprid (cont'd)	Gaucho® 600 Flowable	Corn, Soybean, Small Grains	
		Gaucho® SB Flowable	Soybean	
		My Yield IX1	Soybean, Small Grain	
		Nitro Shield IV	Corn, Soybean, Small Grains	
		Resonate 480 ST	Corn, Soybean, Small Grains	
		Resonate 600 ST	Corn, Soybean, Small Grains	
		Revize Imida ST	Corn, Soybean, Small Grains	
		Senator® 600 FS	Corn, Soybean, Small Grains	
		Sharda Imidacloprid 5SC	Corn, Soybean, Small Grains	
		StartUp IMIDA	Corn, Soybean, Small Grains	
I	thiamethoxam	Cruiser® 5FS	Corn, Soybean, Small Grains	
N	abamectin	Avicta® 500 FS	Soybean	
N	<i>Bacillus amyloliquefaciens</i> , strain PTA-4838	Aveo EZ	Corn, Soybean	
		Lumialza	Corn, Soybean	
		Varnimo-ST	Corn, Soybean, Small Grains, Alfalfa	
N	<i>Burkholderia spp.</i> strain A396	BIO ST Nematicide 100	Corn, Soybean, Small Grains	
N	<i>Pasteuria nishizawae</i> , Pn1	Clariva pn	Soybean	
N	tioxazafen	Acceleron NemaStrike ST Soybeans	Soybean	
		Acceleron NemaStrike ST	Corn, Soybean	
		Massivo™ BioNik™	Corn	
P	abscisic acid			
P	cytokinin	Soil X-Cyto®	Corn, Soybean	
		Soil Triggrr®	Corn, Small Grains	
		X-Cyte®	Corn, Soybean, Small Grains, Alfalfa	
P	gibberellic acid	Release® LC	Corn, Small Grains	
P	harpin alpha beta protein	Fastand	Corn, Soybean	
		HM-1734	Soybean	
		Inceptive	Corn, Soybean	
		N-Hibit® HX-209	Corn, Soybean	
		KickStand™ PGR	Corn, Soybean, Small Grains	
P	indole-3-butyric acid			
P	lipo-chitooligosaccharide	Torque XL Seed Treatment	Corn	
		BioRise 360 ST	Corn	
		Heads Up® Plant Protectant	Corn, Soybean, Small Grains	
P	<i>Chenopodium quinoa</i> saponins	Heads Up® Seed Treatment	Corn, Soybean, Small Grains	
N	N	<i>bacillus amyloliquefaciens</i> , strain MBI 600 cis-Jasmone	Trunemco	Corn, Soybean
I	N	thiamethoxam, abamectin	Avicta® Duo 250 Corn	Corn
I	N	clothianidin, <i>Bacillus firmus</i> , strain I-1582	Poncho® Votivo™	Corn, Soybean
F	F	carboxin, captan	Enhance®	Soybean, Small Grains
F	F	carboxin, ipconazole	Rancona V 100 Pro FS	Corn, Soybean, Small Grains
			MY YIELD FX2	Corn, Soybean, Small Grains
			VitaFlo™ 280	Corn, Soybean, Small Grains
F	F	carboxin, thiram	Dividend XL RTA®	Small Grains
F	F	difenoconazole, mefenoxam	Dividend Extreme®	Small Grains

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F	F	fludioxonil, mefenoxam	Maxim® XL	Corn, Soybean, Small Grains, Alfalfa	
			Warden® RTA®	Soybean	
			Apron MAXX® RFC	Soybean	
			Apron MAXX® RTA® + Moly	Soybean	
			Apron MAXX® RTA®	Soybean	
F	F	fludioxonil, metalaxyl	Dyna-Shield FM	Soybean	
			Halifax	Soybean	
			Spirato M 185 FS	Soybean	
			Spirato M 5.0	Soybean	
F	F	ipconazole, metalaxyl	Rancona® CTS	Soybean, Small Grains	
			Rancona® Summit	Soybean, Small Grains	
			Rancona® Xtra	Soybean	
			Rancona® Xtra Pro	Soybean	
			Warden Cereals	Small Grains	
F	F	mancozeb, copper hydroxide	ManKocide	Small Grains	
F	F	metalaxyl, metconazole	Metlock® Ct Fungicide	Corn, Small Grains	
F	F	metalaxyl, tebuconazole	Raxil® MD	Small Grains	
			Dyna-shield® Foothold™	Small Grains	
			Dyna-shield® Small Grains™	Small Grains	
F	F	metalaxyl, trifloxystrobin	Trilex® 2000	Corn, Soybean	
F	F	<i>Bacillus amyloliquefaciens</i> , strain MBI 600 <i>Bacillus subtilis</i> , strain BU1814	Vault IP Plus Biofungicide	Soybean	
F	F	<i>Bacillus amyloliquefaciens</i> , strain MBI 600 <i>Bacillus pumilus</i> , strain BU F-33	PPST 2030 G Biofungicide	Soybean	
			PA 2030 Red Biofungicide	Soybean	
			L-2030 G Biofungicide	Soybean	
			L-2030 R Biofungicide	Soybean	
F	F	F	captan, carboxin, metalaxyl	Bean Guard®/ Allegiance®	Soybean
F	F	F	carboxin, ipconazole, metalaxyl	Rancona® V RTU FS	Small Grains
F	F	F	difenoconazole, mefenoxam, sedaxane	Vibrance™ Extreme	Small Grains
			Warden Cereals II	Small Grains	
F	F	F	difenoconazole, metalaxyl, tebuconazole	Lancaster Seed Treatment	Small Grains
			Apprise Seed Treatment	Small Grains	
F	F	F	fludioxonil, mefenoxam, sedaxane	Vibrance Trio	Soybean
F	F	F	fludioxonil, metalaxyl, tebuconazole,	Sativa M2F RTU	Small Grains
F	F	F	fludioxonil, metalaxyl, thiophanate-methyl	Spirato MTm 285 FS	Soybean
F	F	F	imazalil, metalaxyl, tebuconazole	Raxil® MD Extra	Small Grains
F	F	F	metalaxyl, penflufen, prothioconazole	EverGol Energy SB	Soybean
			EverGol™ Energy	Corn, Small Grains, Alfalfa	
F	F	F	metalaxyl, prothioconazole, tebuconazole,	Raxil PRO MD	Small Grains
F	F	F	metalaxyl, pyraclostrobin, triticonazole	Stamina® F3 Cereals	Small Grains
F	F	I	captan, carboxin, imidacloprid	Enhance® AW	Soybean, Small Grains
F	F	I	clothianidin, ipconazole, metalaxyl	Inovate Pro	Soybean
F	F	I	difenoconazole, mefenoxam, thiamethoxam	Cruiser Maxx® Cereals	Small Grains

F	F	I	fludioxonil, mefenoxam, thiamethoxam	Adage ST	Soybean	
				CruiserMaxx®	Soybean	
				CruiserMaxx® Advanced	Soybean	
				CruiserMaxx® EZ	Soybean	
				Upshot Soybeans	Soybean	
F	F	I	ipconazole, metalaxyl, imidacloprid	Warden® Cereals HR	Small Grains	
F	F	I	metalaxyl, tebuconazole, imidacloprid	Dyna-shield® Foothold™ Extra	Small Grains	
				Sativa® IM RTU Seed Treatment	Small Grains	
				Agri Star TebuStar IM ST	Small Grains	
F	F	I	metalaxyl, metconazole, clothianidin	NipIt™ Suite Cereals	Small Grains	
				Lancaster Fnl	Small Grains	
				Apprise F-1	Small Grains	
P	P	P	cytokinin, gibberellic acid, indole butyric acid	Stimulate™ Plus Yield Enhancer	Corn, Soybean, Small Grains	
				Ascend SL™	Corn, Soybean, Small Grains, Alfalfa	
				Ascend PRO	Corn, Soybean, Small Grains, Alfalfa	
				Bastion	Corn, Soybean, Small Grains, Alfalfa	
				Cygin	Corn, Soybean, Small Grains, Alfalfa	
				Hone	Corn, Soybean, Small Grains, Alfalfa	
				Pacer	Corn, Soybean, Small Grains, Alfalfa	
				Periscope	Corn, Soybean, Small Grains, Alfalfa	
				Realize	Corn, Soybean, Small Grains, Alfalfa	
				Treble	Corn, Soybean, Small Grains, Alfalfa	
				Triad	Corn, Soybean, Small Grains, Alfalfa	
				Trizon ST	Corn, Soybean, Small Grains, Alfalfa	
	P	P	P	chitosan, indole butyric acid, salicylic acid,	Consensus™ Seed Treatment	Soybean, Small Grains, Alfalfa
F	F	F	F	azoxystrobin, fludioxonil, mefenoxam, thiabendazole	Maxim® Quattro	Corn
F	F	F	F	fluxapyroxad, metalaxyl, pyraclostrobin, thiophanate-methyl	Obvius Plus	Soybean
F	F	F	F	fluxapyroxad, metalaxyl, pyraclostrobin, triticonazole	Stamina F4 Cereals	Small grains
F	F	F	F	difenoconazole, fludioxonil, mefenoxam, sedaxane	Vibrance Quattro	Small Grains
F	F	F	F	difenoconazole, metalaxyl, tebuconazole, thiabendazole	Agri Star Cereal Premix F4 RTU ST	Small Grains
					RightStart Cereals RTU	Small Grains
F	F	F	I	azoxystrobin, fludioxonil, mefenoxam, thiamethoxam	Seed Shield® Beans	Soybean
F	F	F	I	difenoconazole, mefenoxam, sedaxane, thiamethoxam	Cruiser Maxx® Vibrance™ Cereals	Small Grains
F	F	F	I	difenoconazole, metalaxyl, tebuconazole, imidacloprid	Salient TMI	Small Grains

F	F	F	I	ethaboxam, metalaxyl, metconazole, clothianidin	Intego Suite Cereals OF	Small Grain
F	F	F	I	ethaboxam, ipconazole, metalaxyl, clothianidin	Intego Suite Soybean	Soybean
					Halifax Fnl	Soybean
					Armis-F1	Soybean
F	F	F	I	fludioxonil, mefenoxam, thiabendazole, thiamethoxam	Equity™	Soybean
F	F	F	I	fludioxonil, mefenoxam, sedaxane, thiamethoxam	CruiserMaxx® Vibrance	Soybean
					Warden® CX	Soybean
F	F	F	I	fludioxonil, metalaxyl, thiophanate-methyl, imidacloprid	Spirato IMTm348 FS	Soybean
F	F	F	I	fludioxonil, metalaxyl, tebuconazole, imidacloprid	Dyna-Shield® Foothold® Virock	Small Grains
					Sativa IMF Sembolite MAX	Small Grains
F	F	F	I	metalaxyl, prothioconazole, tebuconazole, imidacloprid	Raxil Pro Shield	Small Grains
N	F	F	I	abamectin, fludioxonil, mefenoxam, thiamethoxam	Avicta® Complete Beans 500	Soybean
F	F	F	F	azoxystrobin, fludioxonil, mefenoxam, sedaxane, thiabendazole	Vibrance® Cinco	Corn
F	F	F	I	difenoconazole, fludioxonil, mefenoxam, sedaxane, thiamethoxam	Cruiser Vibrance Quattro	Small Grains
					Seed Shield Cereals	Small Grains
					Warden Cereals WR II	Small Grains
F	F	F	N	mefenoxam, fludioxonil, sedaxane, <i>Pasteuria nishizawae</i> -Pn1, thiamethoxam	Clariva Elite Beans	Soybean
F	F	F	I	difenoconazole, fludioxonil, mefenoxam, sedaxane, thiamethoxam	Cruiser Vibrance Quattro	Small Grains
					Seed Shield Cereals	Small Grains
					Warden Cereals WR II	Small Grains
F	F	F	I	difenoconazole, mefenoxam, sedaxane, thiabendazole, thiamethoxam	Seed Shield MAX Cereals	Small Grains
F	F	F	I	azoxystrobin, fludioxonil, mefenoxam, sedaxane, thiamethoxam	Seed Shield MAX Beans	Soybean
F	F	F	I	fludioxonil, mefenoxam, sedaxane, thiabendazole, thiamethoxam	Equity™ VIP	Soybean
N	F	F	F	abamectin, azoxystrobin, fludioxonil, mefenoxam, thiabendazole, thiamethoxam	Avicta® Complete Corn 250	Corn
F	F	F	I	difenoconazole, mefenoxam, sedaxane, thiamethoxam, cytokinin, gibberellic acid, indole butyric acid	Warden Cereals 360	Small Grains