

# What's on your seed?



**Kolby Grint**, Nutrient and Pest Management Program and **Damon Smith**, Associate Professor of Plant Pathology

Seed treatments have been used for a number of years, mostly for protection against seedling diseases. However, there are a number of seed treatments marketed for protection against a range of pests, including insects, nematodes and seedling pathogens, while others promote 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 field corn, soybean, small grain and/or alfalfa seed. Seed treatments are grouped by the number of active ingredients (1-6), treatment type (fungicide, insecticide, nematocide 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.**



## Treatment Type Legend

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

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

## Treatment Type Legend

**F** Fungicide

**I** Insecticide

**N** Nematicide

**P** Plant Growth Regulator

Active Ingredient(s)	Product Trade Name	Crop
<b>F</b> ipconazole	<b>Lumiflex</b>	Corn, Soybean
	<b>Rancona® 3.8 FS</b>	Soybean, Small Grains
	<b>Vortex®</b>	Corn
<b>F</b> mancozeb	<b>Dithane® F-45 Rainshield®</b>	Corn
	<b>Dithane M-45®</b>	Corn, Small Grains
	<b>Manzate® Max</b>	Corn
	<b>Manzate ProStick™</b>	Corn, Small Grains
	<b>Penncozeb® 75DF</b>	Corn, Small Grains
	<b>Penncozeb® 80WP</b>	Corn, Small Grains
	<b>STartUp MANZB</b>	Corn, Small Grains
	<b>Apron® XL</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> mefenoxam	<b>Apron® XL</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> mefentrifluconazole	<b>Relenya</b>	Soybean, Small, Grains
<b>F</b> metalaxyl	<b>Acceleron® DX-309</b>	Corn, Soybean
	<b>Acquire™</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Allegiance® FL</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>AXYL-SHIELD ST</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Belmont™ 2.7 FS</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Dyna-Shield® Metalaxyl</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Dyna-Shield® Metalaxyl 318 FS</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Metalaxyl® 265 ST</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Metalaxyl 4.0 ST</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>My Yield FX1</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>ReCon 4F</b>	Soybean
	<b>Sebring™ 318 FS</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Sebring™ 480 FS</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>STartUp METXL</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>F</b> metconazole	<b>Metlock®</b>
<b>Metlock CT</b>		Corn, Small Grains
<b>F</b> oxathiapiprolin	<b>Lumisena</b>	Soybean
<b>F</b> penflufen	<b>Acceleron® D-805</b>	Corn
<b>F</b> picoxystrobin	<b>DuPont DPX-YT669 250FS</b>	Soybean
<b>F</b> prothioconazole	<b>Acceleron D-342</b>	Corn
	<b>Redigo 480</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> pydiflumetofen	<b>Saltro</b>	Soybean
<b>F</b> pyraclostrobin	<b>Acceleron® DX-109</b>	Soybean
	<b>Stamina®</b>	Corn, Small Grains, Alfalfa
<b>F</b> sedaxane	<b>Vibrance™ Fungicide</b>	Corn, Soybean, Small Grains
<b>F</b> <i>Streptomyces lydicus</i> , WYEC 108	<b>Actinovate® AG</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Actinovate® SP</b>	Corn, Soybean, Small Grains, Alfalfa
	<b>Actinovate® STP</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> <i>Streptomyces</i> , strain K61	<b>MYCOSTOP Biofungicide</b>	Corn, Soybean, Small Grains
<b>F</b> tebuconazole	<b>Dyna-Shield Tibet</b>	Corn, Small Grains
	<b>Orius 3.6F</b>	Corn
	<b>TebuStar® 250 ST</b>	Corn, Small Grains

## Treatment Type Legend

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

Active Ingredient(s)	Product Trade Name	Crop
<b>F</b> tebuconazole (cont'd)	<b>Raxil® 2.6F</b>	Corn, Small Grains
	<b>Sativa 309 FS</b>	Corn, Small Grains
	<b>STartUP TEBUZ</b>	Corn, Small Grains
	<b>Tebucon 3.6F</b>	Corn
	<b>Tebu-Crop 3.6F</b>	Corn
	<b>Tebuzol™ 3.6F</b>	Corn
	<b>Tebuconazole 3.6 Select</b>	Corn
	<b>Vibe</b>	Corn
	<b>Willowood Teb 3.6SC</b>	Corn
<b>F</b> thiabendazole	<b>Thiabendazole 4L ST</b>	Corn, Soybean, Small Grains
	<b>Mertect® 340-F</b>	Soybean, Small Grains, Alfalfa
<b>F</b> thiophanate-methyl	<b>Cercobin</b>	Soybean, Small Grains
	<b>Dyna-Shield Teemer</b>	Soybean, Small Grains
	<b>Methyl 4.5L ST</b>	Soybean, Small Grains
	<b>STartUp T-MTYL</b>	Soybean, Small Grains
	<b>ST-Methyl 540 FS</b>	Soybean, Small Grains
<b>F</b> thiram	<b>42-S Thiram</b>	Corn, Soybean, Small Grains
	<b>Thiram 480 DP</b>	Corn, Soybean, Small Grain
	<b>Thiram SC</b>	Corn, Soybean, Small Grains
<b>F</b> tolclofos-methyl	<b>Rizolex™</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> <i>Trichoderma harzianum</i> , Rifai strain T-22	<b>Rootshield WP Biological Fungicide</b>	Corn, Soybean, Small Grains, Alfalfa
<b>F</b> trifloxystrobin	<b>Trilex® Flowable</b>	Corn, Soybean, Small Grains, Alfalfa
<b>I</b> <i>Burkholderia spp.</i> strain A396	<b>BioST Insecticide 100</b>	Corn, Soybean, Small Grains
<b>I</b> chlorantraniliprole	<b>Lumivia™</b>	Corn
<b>I</b> <i>Chromobacterium subtsugae</i> , strain PRAA4-1	<b>GRANDEVO ST</b>	Corn, Small Grains
<b>I</b> clothianidin	<b>Lumisure</b>	Corn, Soybean, Small Grains
	<b>Nipsit INSIDE®</b>	Corn, Soybean, Small Grains
	<b>Poncho® 600</b>	Corn, Soybean, Small Grains
	<b>Poncho® XC</b>	Soybean, Small Grains
	<b>Fortenza</b>	Corn, Soybean
<b>I</b> imidacloprid	<b>Acceleron™ IX-409</b>	Soybean
	<b>AXCESS™</b>	Corn, Soybean, Small Grains
	<b>Dyna-Shield® Imidacloprid 5</b>	Corn, Soybean, Small Grains
	<b>Gaucho® 600 Flowable</b>	Corn, Soybean, Small Grains
	<b>My Yield IX1</b>	Soybean, Small Grain
	<b>Nitro Shield IV</b>	Corn, Soybean, Small Grains
	<b>Resonate 480 ST</b>	Corn, Soybean, Small Grains
	<b>Resonate 600 ST</b>	Corn, Soybean, Small Grains
	<b>Revize Imida ST</b>	Corn, Soybean, Small Grains
	<b>Senator® 600 FS</b>	Corn, Soybean, Small Grains
	<b>Sharda Imidacloprid 5SC</b>	Corn, Soybean, Small Grains
	<b>StartUp IMIDA</b>	Corn, Soybean, Small Grains
	<b>Cruiser® 5FS</b>	Corn, Soybean, Small Grains
<b>I</b> thiamethoxam	<b>Cruiser® 5FS</b>	Corn, Soybean, Small Grains
<b>N</b> abamectin	<b>Avicta® 500 FS</b>	Soybean

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**F** Fungicide

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**N** Nematicide

**P** Plant Growth Regulator

Active Ingredient(s)	Product Trade Name	Crop
<b>N</b> <i>Bacillus amyloliquefaciens</i> , strain PTA-4838	<b>Aveo EZ</b>	Corn, Soybean
	<b>Lumialza</b>	Corn, Soybean
<b>N</b> <i>Burkholderia spp.</i> strain A396	<b>BIO ST Nematicide 100</b>	Corn, Soybean, Small Grains
<b>P</b> abscisic acid	<b>Massivo™ BioNik™</b>	Corn
<b>P</b> cytokinin	<b>Soil X-Cyto®</b>	Corn, Soybean, Small Grains
	<b>Soil Triggrr®</b>	Corn, Soybean, Small Grains
	<b>X-Cyte®</b>	Corn, Soybean, Small Grains, Alfalfa
<b>P</b> gibberellic acid	<b>Release® LC</b>	Corn, Small Grains
<b>P</b> harpin alpha beta protein	<b>Fastand</b>	Corn, Soybean
	<b>HM-1734</b>	Soybean
	<b>Inceptive</b>	Corn, Soybean, Small Grains
	<b>N-Hibit® HX-209</b>	Corn, Soybean, Small Grains
<b>P</b> indole-3-butyric acid	<b>KickStand™ PGR</b>	Corn, Soybean, Small Grains
<b>P</b> lipo-chitooligosaccharide	<b>Torque XL Seed Treatment</b>	Corn
	<b>BioRise 360 ST</b>	Corn
<b>P</b> <i>Chenopodium quinoa</i> saponins	<b>Heads Up® Plant Protectant</b>	Corn, Soybean, Small Grains

<b>N</b>	<b>N</b>	<i>bacillus amyloliquefaciens</i> , strain MBI 600 cis-Jasmone	<b>Trunemco</b>	Corn, Soybean
<b>I</b>	<b>N</b>	thiamethoxam, abamectin	<b>Avicta® Duo 250 Corn</b>	Corn
<b>I</b>	<b>N</b>	clothianidin, <i>Bacillus firmus</i> , strain I-1582	<b>Poncho® / Votivo™</b>	Corn, Soybean
<b>F</b>	<b>F</b>	carboxin, captan	<b>Enhance®</b>	Soybean, Small Grains
<b>F</b>	<b>F</b>	carboxin, ipconazole	<b>Rancona V 100 Pro FS</b>	Corn, Soybean, Small Grains
			<b>MY YIELD FX2</b>	Corn, Soybean, Small Grains
<b>F</b>	<b>F</b>	carboxin, thiram	<b>Vitaflo™ 280</b>	Corn, Soybean, Small Grains
<b>F</b>	<b>F</b>	difenoconazole, mefenoxam	<b>Dividend Extreme®</b>	Small Grains
<b>F</b>	<b>F</b>	fludioxonil, mefenoxam	<b>Apron MAXX® RFC®</b>	Soybean
			<b>Apron MAXX® RTA</b>	Soybean
			<b>Apron MAXX® RTA® + Moly</b>	Soybean
			<b>Maxim® XL</b>	Corn, Soybean, Small Grains, Alfalfa
			<b>Warden® RTA®</b>	Soybean
<b>F</b>	<b>F</b>	fludioxonil, metalaxyl	<b>Dyna-Shield FM</b>	Soybean
			<b>Halifax</b>	Soybean
			<b>Spirato M 185 FS</b>	Soybean
			<b>Spirato M 5.0</b>	Soybean
<b>F</b>	<b>F</b>	ipconazole, metalaxyl	<b>Rancona® CTS</b>	Soybean, Small Grains
			<b>Rancona® Summit</b>	Soybean, Small Grains
			<b>Rancona® Xtra</b>	Soybean
			<b>Rancona® Xtra Pro</b>	Soybean
<b>F</b>	<b>F</b>	mancozeb, copper hydroxide	<b>ManKocide</b>	Small Grains

## Treatment Type Legend

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

F	F	metalaxyl, metconazole	<b>Metlock® Ct Fungicide</b>	Corn, Small Grains	
F	F	metalaxyl, tebuconazole	<b>Dyna-shield® Foothold™</b>	Small Grains	
			<b>Dyna-shield® Small Grains™</b>	Small Grains	
F	F	metalaxyl, trifloxystrobin	<b>Trilex® 2000</b>	Corn, Soybean	
F	F	<i>Bacillus amyloliquefaciens</i> , strain MBI 600 <i>Bacillus subtilis</i> , strain BU1814	<b>Vault IP Plus Biofungicide</b>	Soybean	
F	F	<i>Bacillus amyloliquefaciens</i> , strain MBI 600 <i>Bacillus pumilus</i> , strain BU F-33	<b>L-2030 G Biofungicide</b>	Soybean	
			<b>L-2030 R Biofungicide</b>	Soybean	
F	F	F	captan, carboxin, metalaxyl	<b>Bean Guard® / Allegiance®</b>	Soybean
F	F	F	carboxin, ipconazole, metalaxyl	<b>Rancona® V RTU FS</b>	Small Grains
F	F	F	difenoconazole, mefenoxam, sedaxane	<b>Vibrance™ Extreme</b>	Small Grains
			<b>Warden Cereals II</b>	Small Grains	
F	F	F	difenoconazole, metalaxyl, tebuconazole	<b>Apprise</b>	Small Grains
F	F	F	fludioxonil, mefenoxam, sedaxane	<b>Vibrance Trio</b>	Soybean
F	F	F	fludioxonil, metalaxyl, tebuconazole,	<b>Sativa M2F RTU</b>	Small Grains
F	F	F	fludioxonil, metalaxyl, thiophanate-methyl	<b>Spirato MTm 285 FS</b>	Soybean
F	F	F	metalaxyl, penflufen, prothioconazole	<b>EverGol Energy SB</b>	Soybean
			<b>EverGol™ Energy</b>	Corn, Small Grains, Alfalfa	
F	F	F	metalaxyl, prothioconazole, tebuconazole	<b>Raxil PRO MD</b>	Small Grains
F	F	I	clothianidin, ipconazole, metalaxyl	<b>Inovate Pro</b>	Soybean
F	F	I	fludioxonil, mefenoxam, thiamethoxam	<b>Adage ST</b>	Soybean
			<b>CruiserMaxx® EZ</b>	Soybean	
			<b>Upshot Soybeans Seed Treatment</b>	Soybean	
F	F	I	ipconazole, metalaxyl, imidacloprid	<b>Warden® Cereals HR</b>	Small Grains
F	F	I	metalaxyl, tebuconazole, imidacloprid	<b>Dyna-shield® Foothold™ Extra</b>	Small Grains
			<b>Sativa® IM RTU Seed Treatment</b>	Small Grains	
			<b>TebuStar IM ST</b>	Small Grains	
F	F	I	metalaxyl, metconazole, clothianidin	<b>Apprise™ F-1</b>	Small Grains
			<b>Lancaster Fnl</b>	Small Grains	
			<b>NipsIt™ Suite Cereals</b>	Small Grains	
P	P	P	cytokinin, gibberellic acid, indole butyric acid	<b>Ascend SL™</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Ascend PRO</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Bastion</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Cygin</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Hone</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Pacer</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Periscope</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Realize</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Stimulate™ Yield Enhancer Plus</b>	Corn, Soybean, Small Grains
				<b>Treble</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Triad</b>	Corn, Soybean, Small Grains, Alfalfa
				<b>Trizon ST</b>	Corn, Soybean, Small Grains, Alfalfa
P	P	P	chitosan, indole butyric acid, salicylic acid	<b>Consensus™ Seed Treatment</b>	Soybean, Small Grains, Alfalfa

F	F	F	F	azoxystrobin, fludioxonil, mefenoxam, thiabendazole	<b>Maxim® Quattro</b>	Corn
F	F	F	F	fluxapyroxad, metalaxyl, pyraclostrobin, thiophanate-methyl	<b>Obvius Plus</b>	Soybean
F	F	F	F	fluxapyroxad, metalaxyl, pyraclostrobin, triticonazole	<b>Stamina F4 Cereals</b>	Small Grains
F	F	F	F	difenoconazole, metalaxyl, tebuconazole, thiabendazole	<b>Cereal Premix F4 RTU ST</b>	Small Grains
					<b>RightStart Cereals RTU</b>	Small Grains
F	F	F	I	difenoconazole, mefenoxam, sedaxane, thiamethoxam	<b>Cruiser Maxx® Vibrance® Cereals</b>	Small Grains
F	F	F	I	difenoconazole, metalaxyl, tebuconazole, imidacloprid	<b>Salient TMI</b>	Small Grains
F	F	F	I	ethaboxam, metalaxyl, metconazole, clothianidin	<b>Intego Suite Cereals OF</b>	Small Grains
F	F	F	I	ethaboxam, ipconazole, metalaxyl, clothianidin	<b>Armis-F1</b>	Soybean
					<b>Halifax Fnl</b>	Soybean
					<b>Intego Suite Soybeans</b>	Soybean
F	F	F	I	fludioxonil, mefenoxam, sedaxane, thiamethoxam	<b>CruiserMaxx® Vibrance</b>	Soybean
					<b>Warden® CX</b>	Soybean
F	F	F	I	fludioxonil, metalaxyl, thiophanate-methyl, imidacloprid	<b>Spirato IMTm348 FS</b>	Soybean
F	F	F	I	fludioxonil, metalaxyl, tebuconazole, imidacloprid	<b>Dyna-Shield® Foothold® Virock</b>	Small Grains
					<b>Sativa IMF Sembolite MAX</b>	Small Grains
F	F	F	I	metalaxyl, prothioconazole, tebuconazole, imidacloprid	<b>Raxil Pro Shield</b>	Small Grains
N	F	F	I	abamectin, fludioxonil, mefenoxam, thiamethoxam	<b>Avicta® Complete Beans 500</b>	Soybean
F	F	F	F	azoxystrobin, fludioxonil, mefenoxam, sedaxane, thiabendazole	<b>Vibrance® Cinco</b>	Corn
F	F	F	I	difenoconazole, fludioxonil, mefenoxam, sedaxane, thiamethoxam	<b>Cruiser Vibrance Quattro</b>	Small Grains
					<b>Warden Cereals WR II</b>	Small Grains
F	F	F	I	fludioxonil, mefenoxam, picarbutrazox, sedaxane, thiamethoxam	<b>CruiserMaxx® APX</b>	Soybean
F	F	F	I	difenoconazole, mefenoxam, sedaxane, thiabendazole, thiamethoxam	<b>Seed Shield MAX Cereals</b>	Small Grains
F	F	F	I	azoxystrobin, fludioxonil, mefenoxam, sedaxane, thiamethoxam	<b>Seed Shield MAX Beans</b>	Soybean
N	F	F	I	abamectin, azoxystrobin, fludioxonil, mefenoxam, thiabendazole, thiamethoxam	<b>Avicta® Complete Corn 250</b>	Corn