



Technical reference links for advisers
Cereal Foliar Diseases



This document is designed to assist grain growers and their advisers to efficiently reference information on cereal foliar diseases and their management in NSW and Qld. It includes links to the latest identification and management publications, recent Update papers, varietal sensitivity information, fungicide information and labels, and key wheat pathology contacts.

This document has been created by the Grains Research Development Corporation (GRDC) to save time in sourcing information. We recommend that you save this file where you can access it as needed.

The information is categorised under the headings below. Click on the link below to go to the section you require. Visit www.grdc.com.au/researchupdates for papers presented at Grains Research Updates on other topics.

Wheat

- Foliar diseases (general)
- Rusts (leaf, stem and stripe) (*Puccinia* spp)
- Septoria tritici blotch (speckled leaf blotch) (*Mycosphaerella graminicola*)
- Septoria nodorum (*Stagonospora nodorum*)
- Powdery mildew (*Blumeria graminis*)
- Yellow spot (*Pyrenophora tritici-repentis*)
- Wheat streak mosaic virus
- Fungicides registered in wheat
 - Foliar fungicides
 - Seed and in-furrow fungicides

Barley

- Foliar diseases (general)
- Rusts (leaf and stem) (*Puccinia* spp)
- Scald (*Rhynchosporium secalis*)
- Spot form net blotch (SFNB) & net form net blotch (NFNB) (*Pyrenophora* spp)
- Powdery Mildew (*Blumeria graminis* f. sp. *hordei*)
- Barley yellow dwarf virus (BYDV) and cereal yellow dwarf virus (CYDV)
- Physiological leaf spotting
- Fungicides registered in barley
 - Foliar fungicides
 - Seed and in-furrow fungicides

Oats

- Foliar diseases (general)
- Fungicides registered in oats

Key contacts for NSW & Qld

Key contacts for Victoria & SA

Key contacts for WA

Wheat

Foliar diseases (general)

Title	Website Location
<p>Wheat disease photo gallery Author: DEEDI, Queensland Last updated 18 September 2007</p>	<p>QDPI & F, DEEDI</p>
<p>Fungicide timing fact sheet - Location influences foliar fungal disease control options When faced with foliar fungal diseases in cereals, control and damage limitation strategies need to be tailored to the rainfall region, variety resistance status and the disease. Author: GRDC, Acknowledgement Nick Poole, Foundation of Arable Research, New Zealand Date: 1/7/09 File type: PDF, 319 kb</p>	<p>GRDC</p>
<p>NEW - Disease management and crop canopies – a new cereal management guide A new 44 page management guide. Author: Nick Poole Published: June 2009 Ground Cover Direct, 1800 11 00 44</p>	<p>GRDC</p>
<p>Victorian cereal disease guide - 2009 Note Number: AG1160 Published: February 2005, Updated: March 2009 File type: 133kb pdf</p>	<p>Vic DPI</p>
<p>Cereal variety disease guide - 2009 Fact sheet: FS 7/86/09 By Hugh Wallwork, Principal Plant Pathologist and Pamela Zwer, Oat Breeder File type: 348kb pdf</p>	<p>PIRSA</p>
<p>Cereal seed treatments - 2009 Fact sheet: FS 2/86/09 By: Hugh Wallwork, Principal Plant Pathologist, SARDI File type: 164kb, pdf</p>	<p>SARDI</p>

Rusts (leaf, stem and stripe)

Title	Website Location
<p>GRDC Rustlinks By: GRDC Summary: The information in the GRDC Rustlinks page provides a comprehensive summary of the rust information available and is the best resource for this disease. Only key <i>additional</i> documents are included here for this disease as this reference point is designed as an adjunct to the GRDC Rustlinks page. Links to a range of information on rust including management strategies, variety guides, cereal disease reports, fungicides, publications and contacts. Date: unknown File size & type: html</p>	<p>GRDC</p>
<p>Rust management fact sheet By: GRDC File size & type: pdf 1.96 MB</p>	<p>GRDC</p>
<p>Latest cereal rust survey reports from University of Sydney, PBI, Cobbitty Includes latest and historic cereal rust reports and dispatch forms for sending in samples.</p>	<p>University of Sydney PBI</p>
<p>Stripe rust management 2009 By Col Wellings, University of Sydney PBI Cobbitty et al. Date: March 2009 File type: GRDC Update paper (north), html</p>	<p>GRDC</p>
<p>Stripe rust seed treatments vs foliar strategies for key varieties and time to optimise economic benefit By: Peter Wilkinson, DPI & F (Qld) Date: March 2009 File type: GRDC Update paper (north), html</p>	<p>GRDC</p>
<p>Stripe rust management - prevention is usually best By: Richard Daniel, NGA Date: 14/7/08 File type: GRDC Update paper, html</p>	<p>GRDC</p>

Wheat rusts - stripe rust, stem rust and leaf rust By: Peter Wilkinson Date: Last updated 30 March 2009	QDPI & F, DEEDI
Wheat - diseases, physiological disorders and frost Date: Last updated 03 July 2008 Brief summary of disease including photos File type: html	QDPI & F, DEEDI
Stripe Rust - Understanding the disease in wheat Date: 2005 File type: PDF, 455 kb	NSW DPI
Stripe Rust - and update on the Yr17 pathotype By: Col Wellings, Jan Edwards & Robert Thompson Date: January 2007 File type: PDF, 51 kb	NSW DPI
Stem Rust of Wheat Note Number: AG1251 Published: June 2005, Updated: April 2009 File type: html	Vic DPI
Leaf Rust of Wheat Note Number: AG1351 Published: June 2008, Updated: June 2009 File type: html	Vic DPI
Stripe Rust of Wheat Note Number: AG1167 Published: January 2005, Updated: April 2009 File type: PDF, 161 kb	Vic DPI
Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum. File type: PDF, 470kb	GRDC

Septoria tritici blotch (speckled leaf blotch) (*Mycosphaerella graminicola*)

Title	Website Location
Septoria Tritici Blotch Note Number: AG1336 Published: December 2007, Updated: December 2008 File type: PDF, 122kb	Vic DPI
Managing yellow spot and septoria of wheat Farmnote 59/2005 This Farmnote details the symptoms, risk factors and management of the diseases yellow spot and septoria in wheat. File type: 174kb, PDF	Department of Agriculture, WA

Septoria nodorum (*Stagonospora nodorum*)

Title	Website Location
Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum.	GRDC
Crop Updates - Rate response to fungicide for cereal leaf diseases By: R. Loughman and J.S. Bhathal, Agriculture Western Australia Trials in 1997 examined the effect of varying rates of triazole fungicides for control of septoria nodorum blotch Last updated: 26 Jun 2009 File type 44kb, html	Department of Agriculture, WA
Managing yellow spot and septoria of wheat	

<p>Farmnote 59/2005 This Farmnote details the symptoms, risk factors and management of the diseases yellow spot and septoria in wheat. File type: 174kb, PDF</p>	<p>Department of Agriculture, WA</p>
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Powdery mildew (*Blumeria graminis*)

Title	Website Location
<p>Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum.</p>	<p>GRDC</p>

Yellow spot (*Pyrenophora tritici-repentis*)

Title	Website Location
<p>Yellow spot of wheat Date: 2008 By: Peter Wilkinson and Greg Platz Includes information on symptoms and management File type: pdf, 269 kb</p>	<p>QDPI & F, DEEDI</p>
<p>Wheat - diseases, physiological disorders and frost Date: Last updated 03 July 2008 Brief summary of disease including photos File type: html</p>	<p>QDPI & F, DEEDI</p>
<p>Yellow Leaf Spot of Wheat Note Number: AG1114 Published: June 2006, Updated: May 2009 File type: html</p>	<p>Vic DPI</p>
<p>Managing yellow spot and septoria of wheat Farmnote 59/2005 This Farmnote details the symptoms, risk factors and management of the diseases yellow spot and septoria in wheat. File type: 174kb, PDF</p>	<p>Department of Agriculture, WA</p>

Wheat streak mosaic virus

Title	Website Location
<p>Wheatcurlmite.org This GRDC funded website is an online repository for facts and management guidelines concerning wheat streak mosaic virus and its vector, the wheat curl mite. The website has been created primarily for use by grain growers, agronomists and scientists, providing direct access to information concerning virus detections (both current season and historical), species biology/ecology, field observations including identification and management guidelines, and current research findings.</p>	<p>wheatcurlmite.org</p>
<p>Wheat - diseases, physiological disorders and frost Date: Last updated 03 July 2008 Brief summary of disease including photos File type: html</p>	<p>QDPI & F, DEEDI</p>
<p>Wheat streak mosaic and the wheat curl mite By: Gordon Murray (Steve is this needed) Date: 2005 File type: 294kb pdf</p>	<p>NSW DPI</p>
<p>Seed-borne issues with wheat streak mosaic virus in 2008 By: Steve Simpfendorfer and David Nehl, NSW DPI Date: March 2009 File type: Grains Research Update paper (north), html</p>	<p>GRDC</p>
<p>Epidemiology studies on wheat streak mosaic virus By: Brenda Coutts, Geoff Strickland, Monica Kehoe, Dustin Severtson and Roger Jones 2008 Western Australian Agribusiness Crop Updates File type: PDF, 1.69Mb</p>	<p>Department of Agriculture, WA</p>

Fungicides registered in wheat

Note, this list of trade names is not exhaustive. For labels for other registered products, please refer to either [pestgenie](#) or the [APVMA website](#).

Foliar fungicides

Note: Product registrations change over time and may differ between states and products containing the same active ingredient. It is critical that the registration status for the intended use pattern in your state is checked on the current product label prior to use.

Active	Example product	Label & MSDS	Disease							
			Stripe rust (<i>Puccinia striiformis</i>)	Leaf rust (<i>Puccinia triticina</i>)	Stem rust (<i>Puccinia graminis</i>)	Yellow spot (<i>Pyrenophora tritici-repentis</i>)	Septoria tritici (speckled leaf blotch) (<i>Mycosphaerella graminicola</i>)	Septoria nodorum (<i>Stagonospora nodorum</i>)	Powdery mildew (<i>Blumeria graminis</i>)	
triadimefon	Bayleton® 125 EC	Label (104kb,PDF) MSDS (108kb,PDF)	Yes					Yes (MIA and NW Vic)		
	Triad® 125	Label (43kb,PDF) MSDS (47kb,PDF)	Yes					Yes (MIA and NW Vic)		
propiconazole	Tilt® 250 EC	Label (108kb,PDF) MSDS (59kb,PDF)	Yes	Yes	Yes	Yes		Yes	Yes	Yes
tebuconazole	Folicur® 430 SC	Label (220kb,PDF) MSDS (45kb,PDF)	Yes	Yes	Yes	Yes		Yes	Yes	
flutriafol	Impact®	Label (144kb,PDF) MSDS (323kb,PDF)	Yes	Yes				Yes	Yes	
tebuconazole + flutriafol	Impact® topguard	Label (716kb,PDF) MSDS (319kb,PDF)	Yes	Yes				Yes	Yes	
epoxiconazole	Opus® 125	Label (174kb,PDF) MSDS (115kb,PDF)	Yes	Yes					Yes	Yes
azoxystrobin + cyproconazole	Amistar® Xtra	Label (67kb,PDF) MSDS (64kb,PDF)	Yes	Yes			Yes			Yes
propiconazole + cyproconazole	Tilt® Xtra	Label (75kb,PDF) MSDS (64kb,PDF)	Yes	Yes	Yes	Yes		Yes	Yes	Yes
prothioconazole + tebuconazole	Prosaro® 420 SC	Label (45kb,PDF) MSDS (109kb,PDF)	Yes	Yes	Yes	Yes			Yes	

Cereal Foliar Fungicides Registered for use on cereals in WA – 2008 / 09. Updated Oct 08. (Western Australian Department of Ag)

Seed and in-furrow fungicides

Note: Product registrations change over time and may differ between states and products containing the same active ingredient. It is critical that the registration status for the intended use pattern in your state is checked on the current product label prior to use.

Active	Example product	Label & MSDS	Disease							
			Stripe rust (<i>Puccinia striiformis</i>)	Leaf rust (<i>Puccinia triticina</i>)	Stem rust (<i>Puccinia graminis</i>)	Yellow spot (<i>Pyrenophora tritici-repentis</i>)	Septoria tritici (speckled leaf blotch) (<i>Mycosphaerella graminicola</i>)	Septoria nodorum (<i>Stagonospora nodorum</i>)	Powdery mildew (<i>Blumeria graminis</i>)	
flutriafol	Impact®	Label (144kb,PDF) MSDS (323kb,PDF)	Yes					Yes		
fluquinconazole	Jockey®	Label (168kb,PDF) MSDS (47kb,PDF)	Yes	Yes				Yes		
triadimenol	Baytan® T Flowable	Label (90kb,PDF) MSDS (114kb,PDF)	Yes (suppression)					Yes (suppression) (not WA or Qld)		
triadimefon	Allfire triadimefon 500 WG fungicide	Label (1548kb,PDF) MSDS (322kb,PDF)		Yes (NSW, Vic, SA, WA only)						
triticonazole	Real® 200 C	Label (67kb,PDF) MSDS (108kb,PDF)	Yes (suppression) (Not Qld or NT)	Yes (suppression) (Not Qld or NT)						

Seed dressing and in-furrow fungicides registered for use on cereals in Western Australia 2009 (Western Australian Department of Ag)

Barley

Disease (general)

Title	Website Location
Growing barley in Queensland and Northern NSW 2009 By: Kym McIntyre, Queensland Primary Industries and Fisheries, DEEDI Date: June 2009 Pages 5-9 contain useful information on varietal susceptibility and disease identification File size & type: Pdf, 1.8 Mb	QDPI & F, DEEDI
Barley pathology By: G. Platz and T. Usher Date: July 2008	QDPI & F, DEEDI
Barley diseases By: Kym McIntyre Date: Last reviewed 05 September 2008 Outlines the common foliar diseases and the basic information on survival dispersal infection times and control options. File type: html	QDPI & F, DEEDI
Barley diseases photo gallery Author: Kym McIntyre Last updated 24 April 2007	QDPI & F, DEEDI
Victorian cereal disease guide - 2009 Note Number: AG1160 Published: February 2005, Updated: March 2009 File type: 133kb pdf	Vic DPI
Managing barley leaf diseases By Kith Jayasena, Ciara Beard, Geoff Thomas and Robert Loughman, Department of Agriculture and Food,	

Western Australia Note: 288, January 2008 Replaces Farmnote No 64/2001 File type: PDF, 146 KB	Department of Agriculture, WA
Cereal variety disease guide - 2009 Fact sheet: FS 7/86/09 By Hugh Wallwork, Principal Plant Pathologist and Pamela Zwer, Oat Breeder File type: 348kb pdf	PIRSA
Cereal seed treatments - 2009 Fact sheet: FS 2/86/09 By: Hugh Wallwork, Principal Plant Pathologist, SARDI File type: 164kb, pdf	SARDI

Rust (*Puccinia* spp.)

Title	Website Location
Rusts of barley Note Number: AG1096 Published: June 2008, Updated: June 2009	Vic DPI
Latest cereal rust survey reports from University of Sydney, PBI, Cobbitty Includes latest and historic cereal rust reports and dispatch forms for sending in samples.	University of Sydney PBI
Barley leaf and head diseases : barley yellow dwarf virus (BYDV), smut, leaf rust Includes information on symptoms, source of infection and spread, conditions favouring disease and control Page amended : 21 June 2007 File type: html	Department of Agriculture, WA
Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum. File type: PDF, 470kb	GRDC

Spot form net blotch (SFNB) & Net form net blotch (NFNB) (*Pyrenophora*)

Title	Website Location
Spot form of net blotch (SFNB): Earlier application may yield benefits By: Richard Daniel, NGA Date: 14/7/08 File type: GRDC Update paper, html	GRDC
Net blotch update and managing leaf rust in barley By: Greg Platz, QDPI & F Date: March 2009 File type: GRDC Update paper (north) March 2009, html	GRDC
Net blotches of barley Note Number: AG1165 Published: June 2007, Updated: June 2009	Vic DPI
Leaf diseases of barley By Kith Jayasena and Robert Loughman, Plant Pathologists, Agriculture Western Australia Farmnote 65/2001 This Farmnote illustrates the leaf diseases occurring in barley grown in Western Australia. Disease symptoms, effects and broad principles for control are discussed. File type: PDF, 201 kb	Department of Agriculture, WA
Barley leaf and head diseases : scald and blotch Includes information on symptoms, source of infection and spread, conditions favouring disease and control of spot form and net form of net blotch. Page amended : 21 June 2007 File type: html	Department of Agriculture, WA
Spot-type net blotch leaf disease of barley By Kith Jayasena, Plant Pathologist, Roslyn Jettner, Development Officer and Robert Loughman, Plant Pathologist, Agriculture Western Australia Farmnote 107/99	Department of Agriculture, WA

File type: PDF, 218 kb	
<p>Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum. File type: PDF, 470kb</p>	GRDC

Scald (*Rhynchosporium secalis*)

Title	Website Location
<p>Scald of Barley Note Number: AG0765 Published: April 2007, Updated: May 2009</p>	Vic DPI
<p>Leaf diseases of barley By Kith Jayasena and Robert Loughman, Plant Pathologists, Agriculture Western Australia Farmnote 65/2001 This Farmnote illustrates the leaf diseases occurring in barley grown in Western Australia. Disease symptoms, effects and broad principles for control are discussed. File type: PDF, 201 kb</p>	Department of Agriculture, WA
<p>Barley leaf and head diseases : scald and blotch Includes information on symptoms, source of infection and spread, conditions favouring disease and control. Page amended : 21 June 2007 File type: html</p>	Department of Agriculture, WA

Powdery mildew (*Blumeria graminis* f. sp. *hordei*)

Title	Website Location
<p>Barley leaf and head diseases : mildew, leaf spot, and other diseases Page amended : 21 June 2007 Information on Powdery mildew life cycle, symptoms and control File type: html</p>	Department of Agriculture, WA
<p>Leaf diseases of barley By: Kith Jayasena and Robert Loughman, Plant Pathologists, Agriculture Western Australia Farmnote 65/2001 This Farmnote illustrates the leaf diseases occurring in barley grown in Western Australia. Disease symptoms, effects and broad principles for control are discussed. File type: PDF, 201 kb</p>	Department of Agriculture, WA
<p>Potassium deficient barley is more susceptible to powdery mildew disease By: Kith Jayasena and Ross Brennan, Agriculture Western Australia File type: PDF, 77kb pdf</p>	Department of Agriculture, WA
<p>Fungicide strategies in integrated management of wheat and barley leaf diseases in southern WA By: Dr Robert Loughman, Department of Agriculture, WA Date: June 2002 Research summary of trials conducted in Western Australia on Western Australian varieties in between 1998 and 2000 (note some new fungicides have come onto the market subsequent to this), addresses powdery mildew and leaf rust in barley, and spot form net blotch. Also addresses wheat leaf rust, powdery mildew and septoria nodorum. File type: PDF, 470kb</p>	GRDC

Barley yellow dwarf virus (BYDV) and cereal yellow dwarf virus (CYDV)

Title	Website Location
<p>Barley yellow dwarf virus (BYDV) and cereal yellow dwarf virus (CYDV) Note Number: AG1113 Published: August 2003, Updated: July 2009</p>	Vic DPI
<p>Leaf diseases of barley By Kith Jayasena and Robert Loughman, Plant Pathologists, Agriculture Western Australia Farmnote 65/2001 This Farmnote illustrates the leaf diseases occurring in barley grown in Western Australia. Disease symptoms, effects and broad principles for control are discussed.</p>	Department of Agriculture, WA

File type: PDF, 201 kb	
Barley leaf and head diseases : barley yellow dwarf virus (BYDV), smut, leaf rust Includes information on symptoms, source of infection and spread, conditions favouring disease and control Page amended : 21 June 2007 File type: html	Department of Agriculture, WA

Physiological leaf spotting

Title	Website Location
Leaf diseases of barley By Kith Jayasena and Robert Loughman, Plant Pathologists, Agriculture Western Australia Farmnote 65/2001 This Farmnote illustrates the leaf diseases occurring in barley grown in Western Australia. Disease symptoms, effects and broad principles for control are discussed. File type: PDF, 201 kb	Department of Agriculture, WA
Barley leaf and head diseases : mildew, leaf spot, and other diseases Page amended : 21 June 2007 Information on Physiological leaf spotting identification File type: html	Department of Agriculture, WA

Fungicides registered in barley

Note, this list of trade names is not exhaustive. For labels for other registered products, please refer to either **Pestgenie** or the **APVMA website**.

Foliar fungicides

Note: Product registrations change over time and may differ between states and products containing the same active ingredient. It is critical that the registration status for the intended use pattern in your state is checked on the current product label prior to use.

Active	Example Product	Label & MSDS	Disease				
			Leaf rust (<i>Puccinia hordei</i>)	Spot form of net blotch (<i>Pyrenophora teres f. maculata</i>)	Net form of net blotch (<i>Pyrenophora teres f. teres</i>)	Scald (<i>Rhynchosporium secalis</i>)	Powdery mildew (<i>Blumeria graminis f. sp. hordei</i>)
triadimefon	Bayleton® 125 EC	Label (104kb,PDF) MSDS (108kb,PDF)				Yes (NSW, Vic, SA, WA, Tas only)	Yes
	Triad® 125	Label (43kb,PDF) MSDS (47kb,PDF)				Yes (NSW, Vic, SA, WA, Tas only)	Yes
propiconazole	Tilt® 250 EC	Label (108kb,PDF) MSDS (59kb,PDF)		Yes	Yes	Yes	Yes
tebuconazole	Folicur® 430 SC	Label (220kb,PDF) MSDS (45kb,PDF)				Yes	Yes
flutriafol	Impact®	Label (144kb,PDF) MSDS (323kb,PDF)					Yes
tebuconazole + flutriafol	Impact® topguard	Label (716kb,PDF) MSDS (319kb,PDF)					Yes
epoxiconazole	Opus® 125	Label (174kb,PDF) MSDS (115kb,PDF)	Yes		Yes	Yes	Yes
azoxystrobin + cyproconazole	Amistar® Xtra	Label (67kb,PDF) MSDS	Yes	Yes	Yes		Yes

		(64kb,PDF)					
propiconazole + cyproconazole	Tilt® Xtra	Label (75kb,PDF) MSDS (64kb,PDF)	Yes	Yes	Yes	Yes	Yes
prothioconazole + tebuconazole	Prosaro® 420 SC	Label (45kb,PDF) MSDS (109kb,PDF)	Yes	Yes	Yes	Yes	Yes

Cereal Foliar Fungicides Registered for use on cereals in WA – 2008 / 09. Updated Oct 08. (Western Australian Department of Ag)

Seed and in-furrow fungicides

Note: Product registrations change over time and may differ between states and products containing the same active ingredient. It is critical that the registration status for the intended use pattern in your state is checked on the current product label prior to use.

Fungicide Active	Example Product	Label & MSDS	Disease	
			Scald (<i>Rhynchosporium secalis</i>)	Powdery mildew (<i>Blumeria graminis</i> f. sp. <i>hordei</i>)
flutriafol	Impact®	Label (144kb,PDF) MSDS (323kb,PDF)	Yes	Yes
fluquinconazole	Jockey® Stayer™	Label (81kb,PDF) MSDS (114kb,PDF)	Yes	Yes
triadimenol + triflumuron	Baytan® T Flowable	Label (90kb,PDF) MSDS (114kb,PDF)	Yes (suppression) (not Qld)	Yes
triadimenol	Batallion® C Flowable Seed Treatment	Label (64kb,PDF) MSDS (108kb,PDF)	Yes (suppression) (not NT or Qld)	Yes
triticonazole	Real® 200 C	Label (67kb,PDF) MSDS (108kb,PDF)	Yes (suppression) (not NT or Qld)	Yes (suppression) (not NT or Qld)
triadimefon	4Farmers Triadimefon 500 WP	Label (672kb,PDF) MSDS (36kb,PDF)		Yes (NSW, Vic, SA, WA only)

Seed dressing and in-furrow fungicides registered for use on cereals in Western Australia 2009 (Western Australian Department of Ag)

Oats

Disease (general)

Title	Website Location
Oats - Pest management Date: Last reviewed 31 March 2006 Outlines management and symptoms of main oat foliar diseases including leaf rust, stem rust, leaf spot, septoria blotch, bacterial blights and other minor diseases in oats. File type: html	QDPI & F, DEEDI
Fungicide options for controlling diseases in oats By: Raj Malik and Blakely Paynter 2008 Western Australian Agribusiness Crop Updates File type: PDF, 1.69Mb	Department of Agriculture, WA
Leaf diseases of oats By: Robert Loughman and Simon McKirdy, Plant Pathologists, Plant Pathology, South Perth This Farmnote illustrates the leaf diseases of oats and discusses their symptoms and control measures. The diseases include septoria avenae blotch, stem and leaf rusts, barley yellow dwarf virus, ring spot and bacterial blights. Farmnote 33/95 [Reviewed, content current July 2005] File type: html	Department of Agriculture, WA
Cereal variety disease guide - 2009 Fact sheet: FS 7/86/09 By Hugh Wallwork, Principal Plant Pathologist and Pamela Zwer, Oat Breeder File type: 348kb pdf	PIRSA

Fungicides in oats

Note: Product registrations change over time and may differ between states and products containing the same active ingredient. It is

critical that the registration status for the intended use pattern in your state is checked on the current product label prior to use.

Note, this list of trade names is not exhaustive. For labels for other registered products, please refer to either **Pestgenie** or the **APVMA website**.

Active	Example Product	Label & MSDS	Disease		
			Stem rust (<i>Puccinia graminis</i>)	Crown/leaf rust (<i>Puccinia coronata</i>)	Septoria leaf blotch (<i>Leptosphaeria avenaria</i>)
propiconazole	Tilt® 250 EC	Label (108kb, PDF) MSDS (59kb, PDF)	Yes	Yes	Yes (suppression)
tebuconazole	Folicur® 430 SC	Label (220kb,PDF) MSDS (45kb,PDF)	Yes	Yes	

Cereal foliar fungicides registered for use on cereals in WA – 2008 / 09. Updated Oct 08. (Western Australian Department of Ag)

Key contacts for NSW & Qld

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Key contacts for WA

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