Abstract	"Advancing genetic solutions for crop protection in Australian wheat: identifying	
	 novel and optimal combinations of APR resistance genes to Septoria tritici blotch Wheat is one of the most important crops in Australia, providing food, feed and export income. However, wheat production is threatened by various diseases, such as Septoria tritici blotch (STB), a foliar disease of wheat caused by the fungus Zymoseptoria tritici. This disease is prevalent in medium-high rainfall zones of Australia. If left unmanaged, STB can result in yield losses of up to 50% and traditional control by fungicides is estimated to cost the industry \$121 millic per year is less effective due to fungicide resistance evolving in Australia to som common triazoles and strobilurin. One way to manage this disease is to use whe varieties resistant to STB. However, 10 out of 17 genes tested for adult plant resistance (APR) performance in field experiments over the past 8 years are no longer effective in Australia. These include; Stb2/11/WW, Stb3, Stb4, Stb6, Stb7/12, Stb9 and Stb18. Therefore, identifying new sources of APR genes is essential for developing wheat varieties with better agronomic performance. Adult plant resistance (APR) genes confer partial but durable resistance to the disease at later stages of plant development. They are preferred in breeding programs because of their flexibility in integrated disease management (IDM) systems and their durability of resistance. These projects aim to discover and transfer novel APR genes for STB resistance into adapted wheat varieties while also determining the optimal combinations of existing effective APR genes and remove the barriers to their adoption by Australian wheat breeding programs. Th resources available on this site are developed through research partnerships between GRDC and NSW DPI. The resource provided on this page are available or request." 	
Resource loca		
Unique resour	ce identifier	
Code	a1369a12-b462-4fee-8b83-658c5feec82a	
Presentation form		
Edition	1	
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Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata	
Version	1.1	
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Status	completed	
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Code identifying the spatial 4283 reference system				
Topic category	Ariculture			
Keyword set				
keyword value	AGRICULTURE-Crops			
Originating controlled vocabulary				
Title	ANZLIC Search Words			
Reference date	2008-05-16			
Geographic location				
West bounding longitude	147.277222			
East bounding longitude	147.463989			
North bounding latitude	-35.187577			
South bounding latitude	-35.061777			
NSW Place Name	Wagga Wagga			
Vertical extent information				
Minimum value	-100			
Maximum value	2228			
Coordinate reference system				
Authority code	urn:ogc:def:cs:EPSG::			
Code identifying the coordinate reference system	5711			
Temporal extent				
Begin position	2023-07-01			
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Effective date	2024-05-13			
Resource maintenance				
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Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence <u>http://creativecommons.org/licenses/by/4.0</u> Attribute 'DPI' in publications using this data.			
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