

Title	Microwave dielectric characterisation of cereal stubble infected with B. sorokiniana, F. pseudograminearum and P. teres
Abstract	The dielectric properties of wheat and barley stubble with different pathogen loads (Fusarium pseudograminearum, Bipolaris sorokiniana and Pyrenophora tritici-repentis) were investigated at 10%, 15%, 30% and 100% moisture content using an open-ended coaxial probe in a spectral band covering three important industrial, scientific and medical (ISM) frequencies (915, 2450 and 5800 MHz). Dielectric properties of cereal stubble infected with Bipolaris sorokiniana, Fusarium pseudograminearum and Pyrenophora teres in the microwave frequency range - characterising stubble to explain differences in dielectric responses.
Resource locator	
Unique resource identifier	
Code	5771da67-42e0-4327-9498-9f3d8de567b9
Presentation form	
Edition	1
Dataset language	eng
Metadata standard	
Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata
Version	1.1
Dataset URI	https://data.iar.dpi.nsw.gov.au/dataset/5771da67-42e0-4327-9498-9f3d8de567b9
Status	completed
Spatial reference system	
Authority code	GDA94 Geographic (Lat\Long)
Code identifying the spatial reference system	4283
Topic category	Environment
Keyword set	
keyword value	AGRICULTURE-Crops
Originating controlled vocabulary	
Title	ANZLIC Search Words

Reference date	2008-05-16
Geographic location	
West bounding longitude	149.60083
East bounding longitude	151.116943
North bounding latitude	-31.224105
South bounding latitude	-29.345821
NSW Place Name	Gurley, Tamworth
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	2020-01-01
End position	N/A
Dataset reference date	
Date type	creation
Effective date	2020-12-31
Resource maintenance	
Maintenance and update frequency	notPlanned
Contact info	
Organisation name	DPI
Full postal address	contact@dpi.nsw.gov.au
Telephone number	02 6391 3000
Email address	contact@dpi.nsw.gov.au
Responsible party role	pointOfContact

Constraint set	
Use constraints	This data is provided under licence by the Office of Environment and Heritage (DPI). For further inquiries contact raj.ramachandran@dpi.nsw.gov.au .
Limitations on public access	
Scope	dataset
Responsible party	
Contact position	Data Broker
Organisation name	DPI
Full postal address	contact@dpi.nsw.gov.au
Telephone number	02 6391 3000
Email address	contact@dpi.nsw.gov.au
Web address	https://www.dpi.nsw.gov.au
Responsible party role	pointOfContact
Metadata point of contact	
Contact position	Data Broker
Organisation name	DPI
Full postal address	contact@dpi.nsw.gov.au
Telephone number	02 6391 3000
Email address	contact@dpi.nsw.gov.au
Responsible party role	distributor
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