Title	2024 Field evaluation of Next Generation Soil Technologies (NGSTs) - Caroona Block A
Abstract	This dataset contains replicated data for soil chemical properties, gravimetric soil water, biomass and grain yield responses to conventional and engineered soil ameliorants. Capacitance sensor soil water measurements were logged from a subset of contrasting treatments. Onsite weather data were collected. Predicta B soil DNA testing was used at trial commencement to assess soil pathogen presence. The experiment described as Block A was established in 2024. Ameliorants at this site were targeted at sodicity in both the surface and subsoil plus high alkalinity in the subsoil.
Resource locator	
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for 2024 Field evaluation of Next Generation Soil Technologies (NGSTs) - Caroona Block A Function: download
Unique resource identifier	
Code	ced524ad-dcdb-43e5-9db1-28e2e5504e5e
Presentation form	
Edition	1.0.0
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/ced524ad-dcdb-43e5-9db1-28e2e5504e5e
Status	onGoing
Spatial representation type	textTable
Spatial reference system	
Authority code	GDA94 Geographic (Lat\Long)
Code identifying the spatial reference system	4283

Topic category	Agriculture
Keyword set	
keyword value	AGRICULTURE-Crops SOIL AGRICULTURE SOIL-Chemistry WATER
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
NSW Place Name	Caroona
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	2024-01-01
End position	N/A
Dataset reference date	
Date type	creation
Effective date	2024-01-01
Date type	publication
Effective date	2025-05-30
Date type	revision
Effective date	2025-05-30
Resource maintenance	
Maintenance and update frequency	irregular

Contact info

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Responsible party role	pointOfContact

Lineage

This tabular dataset (textTable) was compiled from primary field collections conducted between 2024 and 2027. Raw field records were collated, cleaned, and validated using custom scripts in R to ensure data consistency and completeness. Spatial coordinates recorded during field surveys were standardized and referenced to the Geocentric Datum of Australia 1994 (GDA94 / Geographic, EPSG:4283).

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

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Metadata date

2026-11-23

Metadata language

eng