Title

Climate Vulnerability Assessment: Forestry

Abstract

The Climate Vulnerability Assessment was designed to provide an overview of the impact of future climate change on all stages of production for the commodities and biosecurity risks assessed. The project used multicriteria analysis (MCA) models to produce assessments for the commodities and biosecurity risks in a consistent and comparable way, and a framework was developed to provide a rigorous, flexible and transparent process for assessing vulnerabilities and opportunities to climate change. Details of the approach and the climate data used in the assessments can be found in the Methodology Report (https://www.dpi.nsw.gov.au/dpi/climate/climate-vulnerability-assessment/publications-and-reports) which also details model exclusions and assumptions.

Assessments were undertaken on commodities grouped into 6 nodes: Horticulture and Viticulture, Broadacre Cropping, Forestry, Extensive Livestock, Marine Fisheries as well as on a set of biosecurity risks related to these primary industry sectors. The Summary Report (https://www.dpi.nsw.gov.au/dpi/climate/climate-vulnerability-assessment/publications-and-reports) gives details of the chosen commodities and biosecurity risks and summarises the high-level results.

Results Reports for each commodity and biosecurity risk are being released. Visit the project's web page to access these reports and for further information: https://www.dpi.nsw.gov.au/dpi/climate/climate-vulnerability-assessment.

This dataset contains maps of modelled climate suitability for the forestry node of the DPIRD Climate Vulnerability Assessment; the only commodity in this node is Radiata pine. Maps are provided for each element of the model: the overall climate suitability, climate suitability maps for each phenophase and also for each phenophase/climate variable combination contained in the model. Data is provided for each of the eight global climate models used in the project, as well as the climate suitability derived from historical observations.

Resource locator

Radiata Pine ensemble	Name: Radiata Pine ensemble Protocol: WWW:DOWNLOAD-1.0-http--download Description: Radiata Pine ensemble zip folder Function: download
Radiata Pine GCMs	Name: Radiata Pine GCMs Protocol: WWW:DOWNLOAD-1.0-http--download Description: Radiata Pine GCMs GIS files Function: download
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Forestry Data Quality Statement Function: download
datadictionary-ensemble-Forestry.txt	Name: datadictionary-ensemble-Forestry.txt Protocol: WWW:DOWNLOAD-1.0-http--download Description: List of all field values in filenames in the Forestry node ensemble dataset. Function: download
datadictionary-GCMs-	Name: datadictionary-GCMs-Forestry.txt Protocol: WWW:DOWNLOAD-1.0-http--download

Forestry.txt	Description: List of all field values in filenames in the Forestry node GCM dataset. Function: download
readme.txt	Name: readme.txt Protocol: WWW:DOWNLOAD-1.0-http--download Description: Description of the data files contained in the Climate Vulnerability Assessment datasets and their file-naming schema. Function: download

Unique resource identifier

Code	90556047-d452-46f4-8637-67615a1210a2

Presentation form	Map digital
Edition	1.0.0
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/90556047-d452-46f4-8637-67615a1210a2
Purpose	To provide information about climate suitability for various primary industries under future climate scenarios to planners and policymakers.
Status	Completed

Spatial representation

Type	vector

Spatial reference system

Code identifying the spatial reference system	4283

Topic category

Keyword set

keyword value	AGRICULTURE CLIMATE-AND-WEATHER CLIMATE-AND-WEATHER-Climate-change FORESTS-Plantation INDUSTRY-Primary
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	140.975
East bounding longitude	153.625
North bounding latitude	-37.525
South bounding latitude	-28.125

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	1981-01-01
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Not planned
Contact info	
Contact position	Data Broker
Organisation name	Department of Primary Industries and Regional Development (DPIRD)
Responsible party role	pointOfContact

Lineage

Data prepared from observed climate and CMIP5 global climate model projections as detailled in the Climate Vulnerability Assessment Methodology Report (https://www.dpi.nsw.gov.au/dpi/climate/climate-vulnerability-assessment/publications-and-reports). The following GCMs were used: ACCESS1-0, CanESM2, CESM1-CAM5, CNRM-CM5, GFDL-ESM2M, HadGEM2-CC, MIROC5, NorESM1-M.

Limitations on public access

Responsible party

Contact position	Data Broker
Organisation name	Department of Primary Industries and Regional Development (DPIRD)
Responsible party role	pointOfContact

Metadata point of contact

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Metadata date

2025-04-16T04:06:19.980814

Metadata language