Title	HEVAE Vegetation Groundwater Dependent Ecosystems Value - Border Rivers / Gwydir
Alternative title(s)	GDE HEVAE Border Rivers / Gwydir
Abstract	NSW Dol Water has adopted the Guidelines for Identifying High Ecological Value Aquatic Ecosystems (HEVAE) framework developed by the Australian Commonwealth Government. In the current assessment for NSW, the HEVAE consists of four key criteria which include diversity, distinctiveness, naturalness and vital habitat. Therefore, the HEVAE vegetation GDE value layer is a combination of four individual criterion layers. The final or overall HEVAE score was determined for vegetation PCT polygons which has a high probability of being groundwater dependent. This was calculated by adding together the final scores for each criterion (Naturalness, Diversity, Distinctiveness and Vital Habitat). This score was then standardised by dividing by the maximum combined HEVAE score for a whole catchment's vegetation GDE polygons to provide an even spread of score outcomes between 0 (lowest) and 1 (highest). For ease of data modelling and management, the dataset was divided into the following catchment management areas; Border Rivers-Gwydir, Central Tablelands, Central West, Hawkesbury-Nepean, Hunter-Central Rivers, Lachlan, Lower Murray Darling, Murray, Murrumbidgee, Namoi, Northern Rivers, Southern Rivers, Southern Tablelands, Sydney Metro and Western Division (MDB and far west subdivided further into the IBRA Sub regions).
Resource loca	tor
Data Quality	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for HEVAE Vegetation Groundwater Dependent Ecosystems Value - Border Rivers / Gwydir
	Function: download
<u>CSIRO</u>	Name: CSIRO Publication
Publication	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	A new approach to prioritising groundwater dependent vegetation communities to inform groundwater management in New South Wales, Australia
	Function: download
<u>Groundwater</u>	Name: Groundwater dependent ecosystems
dependent ecosystems	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Groundwater dependent ecosystems information page
	Function: download
PDF - Applying	Name: PDF - Applying the HEVAE Framework
the HEVAE Framework	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Applying the High Ecological Value Aquatic Ecosystem (HEVAE) Framework for Riverine Ecosystems
	Function: download
<u>Groundwater</u>	Name: Groundwater Dependent Ecosystems Atlas
<u>Dependent</u> <u>Ecosystems</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Atlas</u>	Description:
	The following link will redirect the user to an external page outside of SEED to access the resource. This could be another page or another portal.

Package Name: Download Data Package Protocal: WWW:DOWNLOAD-1.0-httpdownload Description: Description: Data (ESRI Geodatabase) Function: download Unique resource Indige resource ab5dr87-7bb7-44cd-9d2b-947323b146c3 Code ab5dr87-7bb7-44cd-9d2b-947323b146c3 Fresentation va absfdr87-7bb7-44cd-9d2b-947323b146c3 Edition va va Fadage apigital absfdr87-7bb7-44cd-9d2b-947323b146c3 Edition va va Fadage apigital absfdr87-7bb7-44cd-9d2b-947323b146c3 Edition va va Anare solital susception apigital Fadage solital susception apigital Fation va solital susception apigital Fation solital susception apigital susception apigital susception Fation solital susception solital susception apigital susception Fation solital susception solital susception apigital susception Fation solital susception solital susception apigital susception Fation solital susception		Function: download		
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scale	identifying the spatial reference	4283		
Topic category	-	1:None		
	Topic category			

Keyword set	
keyword value	VEGETATION
	WATER-Groundwater
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	148.37077
East bounding longitude	152.11852
North bounding latitude	-30.836
South bounding latitude	-28.53716
NSW Place Name	Border Rivers, Gwydir
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	2018-06-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Unknown
Contact info	
Contact position	Data Broker
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Responsible party role	pointOfContact

The final or overall HEVAE score is determined for each vegetation GDE polygon. This is Lineage calculated by adding together the final weighted and standardised scores for each HEVAE criterion (Naturalness, Diversity, Distinctiveness and Vital Habitat). This score is then standardised by dividing by the maximum combined HEVAE score for a whole catchment's river reaches to provide an even spread of score outcomes between 0 (lowest) and 1 (highest). A five class or category system has been adopted to display the four criteria and overall standardised score HEVAE outputs. Each of final five HEVAE classes (and the Criteria) were based on steps of 0.2 as shown in the table below. Table. Details on the five classes used to spatially display overall HEVAE or associated criteria for high probability vegetation GDEs in NSW. Standardised score range HEVAE Class 0.801 - 1.000 Very High Value 0.601 -0.800 High Value 0.401 - 0.600 Medium Value 0.201 - 0.400 Low Value 0.000 - 0.200 Very Low Value Overall HEVAE outputs, along with contributing criteria are applied to each mapped vegetation polygon and can provide useful tools for assisting at fine scale and broader scale decision making for water sharing planning needs and other natural resource management needs. Areas of highest priority (i.e. very high and high HEVAE value) can be easily identified. The details of the GDE HEVAE methods are in Dabovic et. al. (draft). Process step Data sets used in the GDE HEVAE methods included: • High probability vegetation GDE dataset (DoI Water) • Threatened species profile search for listing under the NSW Threatened species Conservation Act 1995 (TSCA 1995) and Atlas of NSW Wildlife (OEH) • Threatened and protected species – profiles and records viewer, for listing under the NSW Fisheries Management Act 1994 (FMA 1994) (DPI Fisheries); and • Commonwealth Government Protected Matters Search Tool, for listings under the Environment Protection and Biodiversity Conservation Act 1999 (EP&BCA 1999). • Ramsar/DIWA Wetlands dataset (OEH) • National Parks (OEH) • Australian Hydrologic Geospatial catchments (BOM) • Vegetation condition scores (State of the Catchment reports – OEH) • Springs (Dol Water & BOM) Separate spatial models were developed for each of the criteria and overall GDE HEVAE Scores. Distinctiveness Attributes that combine to give total distinctiveness score (DISTINCTIVENESS) are: FAUNA SCORE - Fauna score for each species calculated by multiplying the conservation score (Table 1), weighting for distribution (recorded = 1, known = 0.5 and predicted = 0.25) and the mobility score (OEH scoring for asset identification) in a GDE Polygon. All species were then added together for a final fauna score. FLORA SCORE -Flora score for each species calculated by multiplying the conservation score (Table 1), weighting for distribution (recorded = 1, known = 0.5 and predicted = 0.25). CONS SCORE vegetation community conservation score (1 to 0.25). FISHEEC SCORE - predicted weighting of 0.25. Diveristy Attributes that combine to give total diversity score (DIVERSITY VALUE) are: NEAR_SCORE - distance between each vegetation polygon. PATCH_SIZE_SCORE - area of the GDE vegetation polygons. Naturalness Attributes that combine to give total naturalness score (NATURALNESS) are: EdgeAreaRatio Score NPestate (yes/no) NPestate Score - Areas with national parks estate received as weighted score of 1. CDI score - The catchment disturbance index scores were adopted straight from the RCI (Healey et al. 2012) VegPercScore - percentage of native/non-native vegetation Vital Habitat Attributes that combine to give total vital habitat (VITALHABITAT) are: Wetland (yes/no), Wetland Score - Areas with wetlands received as weighted score of 1. Spring Score - Areas with springs received as weighted score of 1. TargetSpecies - significant vegetation species as determined in the Basin Watering Strategy TargetSpecies Score - Areas with target species received as weighted score of 1. CONDITION SOC (type of veg condition category) VegConditionScore - The condition categories where adopted from the state of the catchment reports with managed and removed categories receiving a zero weighting. Criteria and overall HEVAE Scores All final scores were standardised before being totalled up (PARAMETER SUM) and then standardised to give an overall HEVAE score (GDE HEVAE).

Limitations on public access

Responsible party	
Contact position	Data Broker
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Responsible party role	pointOfContact

Metadata point of contact			
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Responsible party role	pointOfContact		
Metadata date	2024-06-19T21:32:49.798274		
Metadata language			