BioNet NSW Landscapes data standard

Version 1.2

**Department of Climate Change,
Energy, the Environment and Water**

Acknowledgement of Country

Department of Climate Change, Energy, the Environment and Water acknowledges the Traditional Custodians of the lands where we work and live.

We pay our respects to Elders past, present and emerging.

This resource may contain images or names of deceased persons in photographs or historical content.

Find out more at:

environment.nsw.gov.au

Contents

List of tables

1. Introduction

The BioNet NSW Landscapes Web Service provides an open application programming interface (API). It enables IT application developers to integrate NSW (Mitchell) Landscapes data held in the BioNet data repository with software applications.

This open data initiative has many possible uses. These range from mobile apps to organisational decision-management business systems.

The web service complements the existing BioNet applications. It provides direct programmatic access to BioNet data holdings.

This document sets out detailed information on the NSW (Mitchell) Landscapes data available via the BioNet NSW Landscapes Web Service. It can help you evaluate whether the web service will meet your data needs.

Please make sure the version of this data standard (1.2) matches the data online. Check the value in 'bioNet:dataStandardVersion' for 'EntitySet Name=NSWLandscapes_MitchellLandscapes':

> **<EntitySet Name="NSWLandscapes_MitchellLandscapes**" EntityType="BioSvc App.Models.vwCUBE_VegClassificationMitchellLandscapes" bioNet:bioNetOpen APIVersion="4.0.2" **bioNet:dataStandardVersion="1.2"** bioNet:dateLastBulkUpd ate="01/02/2025"/>

2. Overview of the web service and standard

The BioNet Web Service is an OASIS Open Data (OData) v4.0-based web service. OData provides a standardised RESTful protocol for querying and retrieving data.

The BioNet Web Service developer guide provides more background information about the protocol. OData makes data available via 'entity sets' structured as tables of data.

The data standard for the CoreData and AdditionalMeasurementsOrFacts entity sets is based on the Darwin Core standard. Where data provided by the department do not fit into an existing Darwin Core term, we used terms already in use by the Atlas of Living Australia or new proprietary terms.

The NSWLandscapes_MitchellLandscapes dataset shares 2 categories of data (Table 1).

Table 1 **Overview of the categories of data shared via the NSWLandscapes_MitchellLandscapes entity set**

Category	Description
Metadata	Metadata associated with the record, including information on rights and when the record was last updated
Mitchell Landscapes	Data on the landscape including its name, description and estimated

3. Specifications for the NSWLandscapes_MitchellLandscapes entity set

Tables 2 to 3 provide the specifications of the data fields available in each category of the NSWLandscapes_MitchellLandscapes entity set available via the BioNet NSW Landscapes Web Service. Each table presents the group of terms that fall within the specified category.

Table 2   **Available 'metadata' fields in the NSWLandscapes_MitchellLandscapes entity set**

Field name	Occurrence	Definition	Format	Example	Data type
collectionCode	1	The name, acronym, CODEN, or initialism identifying the collection or dataset from which the record was derived.	Always 'BioNet NSW Landscapes'	'BioNet NSW Landscapes'	"Edm.String"
datasetName	1	The name identifying the dataset from which the record was derived.	Always 'Mitchell Landscapes'	'Mitchell landscapes'	"Edm.String"
dcterms_bibliographicCitation	1	A bibliographic reference for the resource, as a statement indicating how this record should be cited (attributed) when used.	'BioNet NSW Landscapes <current date> <HH:MM> <AM/PM> + <HH:MM offset from UTC>'. Note: The date and time are Australian	'BioNet NSW Landscapes 10/02/2025 2:23 AM +11:00'	"Edm.String"

Field name	Occurrence	Definition	Format	Example	Data type
			Eastern Standard Time adjusted for daylight saving. They reflect the date and time when the web service data were last refreshed from the source data (BioNet Vegetation Classification).		
dcterms_language	1	The language of the resource.	RFC 4646 [RFC4646]	'en'	"Edm.String"
dcterms_modified	1	The most recent date and time when the resource was changed.	YYYY-MM-DDTHH:MM:SS.000+HH:MM Note: The date modified relates to any change made in the source system (BioNet Vegetation Classification). It is thus possible that the date modified is updated but no actual changes are carried through into the data fields presented via the web service.	'2011-04-07T10:12:26.613+10:00'	"Edm.DateTimeOffset"

Field name	Occurrence	Definition	Format	Example	Data type
dcterms_available	1	Date that the resource became or will become available.	YYYY-MM-DDTHH:MM:SS.000+HH:MM offset from UTC	'2011-04-07T10:12:26.613+10:00'	"Edm.DateTimeOffset"
dcterms_rights	1	Information about rights held in and over the resource. Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights.	Text	'CC-BY 4.0'	"Edm.String"
dcterms_rightsHolder	1	The person or organisation owning or managing the rights over the resource.	Text	'NSW Dept of Planning, Industry and Environment'	"Edm.String"
dcterms_type	1	The nature or genre of the resource.	Always 'dataset'	'dataset'	"Edm.String"
institutionCode	1	The name (or acronym) in use by the institution having custody of the object(s) or information referred to in the record.	Text	'NSW Dept of Planning, Industry and Environment'	"Edm.String"

Table 3   Available 'Mitchell Landscapes' fields in the NSWLandscapes_MitchellLandscapes entity set

Field name	Occurrence	Definition	Format	Example	Data type
landscapeID	1	The unique identifier within the source BioNet Vegetation Classification database for the NSW landscape (Mitchell).	Numeric code	'1101'	"Edm.Int32" Nullable= "false"
landscapeName	1	The name of the NSW Landscape.[1]	Text	'Adelong Granite Ranges'	"Edm.String" Nullable ="false"
landscapeDescription	0–1	A free text description of the geology, geography and broad vegetation associated with the landscape.	Text	'Steep hills and peaks on and Silurian gneissic granite and Devonian massive granite, general elevation 500 m to 760 m, local relief 200 m. Coarse loamy sand between rock outcrops and in crevices, then gritty gradational profiles developing to yellow harsh texture-contrast soils on	"Edm.String"

---

[1]   NSW Department of Environment and Conservation (ed.) 2006, Atlas of NSW Landscapes: the Mitchell Landscapes. Department of Environment and Conservation, Sydney South.

Field name	Occurrence	Definition	Format	Example	Data type
				lower slopes. Forests of yellow box (*Eucalyptus melliodora*), red stringybark (*Eucalyptus macrorhyncha*), brittle gum (*Eucalyptus mannifera*), black cypress pine (*Callitris endlicheri*) and white gum (*Eucalyptus rossii*).'	
totalAreaOfNSW Landscape	1	The total area of land occupied by the landscape, based on version 2 of the line work.	Hectares (ha)	'33694.38'	"Edm.Decimal" Scale= "variable"
percentClearedEstima teOfLandscape	1	An estimate of the cover of native vegetation within the landscape, expressed as a percentage of the total area of the landscape and based on the best available information, including mapping, modelling and/or expert advice.	Percentage expressed as a decimal, i.e. 0.82 = 82%. Note: Where no information is available, 'null' is given.	'0.82'	"Type="Edm.Decimal" Scale="variable"

Field name	Occurrence	Definition	Format	Example	Data type
statusOfLandscape ClearingEstimate	0–1	The approval status of the percentage cleared estimate, as determined by the Plant Community Type Change Control Panel approval process.	One item from the following controlled vocabulary: • approved • pending • draft.	'Draft'	"Edm.String"