

# How to access Vegetation Condition Benchmark data from BioNet

Quick guide for BioNet Vegetation Classification August 2017 © 2017 State of NSW and Office of Environment and Heritage

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## Contents

How to access Benchmark data from BioNet	1
How to view Benchmark data via the PCT user interface	1
How to generate a benchmark report or export	7
How to Access Benchmark Data using BioNet Web service	14

## List of figures

Figure	1	BioNet Vegetation Classification home page	1
Figure	2	Using the text fields and dropdown menu items to search for PCT	2
Figure	3	Search for Plant Community Type Data	3
Figure	4	Select the PCT record to view the details	4
Figure	5	Plant Community Type Details	5
Figure	6	View Benchmark information for the PCTs	6
Figure	7	Reports/Exports menu	7
Figure	8	Search for Reports/Exports	7
Figure	9	Select Communities $\ensuremath{By}\xspace - \ensuremath{selectd}\xspace$ does not be a selected based on the chosen report template	8
Figure	10	PCT Benchmarks Report	9
Figure	11	PCT Benchmark Report - Specify Search Condition	10
Figure	12	PCT Benchmark Report – Selected search criterion	10
Figure	13	PCT Benchmark Report - Refine Search Results	11
Figure	14	Download Benchmarks by PCT report	11
Figure	15	Export PCT Benchmark - Specify filter criterion	12
Figure	16	Export PCT Benchmark - Choose the 'Download CSV File' option	12
Figure	17	Export PCT Benchmark - Choose the 'View downloads' option to view th CSV File	e 13
Figure	18	OData feed in Excel	14
Figure	18	Specify BioNet Web service URL	15
Figure	20	Select PCT Benchmarks Service	15
Figure	21	Benchmarks by PCT data displayed in Query Editor	16
Figure	22	Benchmarks by PCT data – Choosing the desired columns	16
Figure	23	Benchmarks by PCT data – Selected columns displayed in Query Editor	17
Figure	24	Benchmarks by PCT data – Populate spreadsheet with Benchmark data	17

## How to access Benchmark data from BioNet

Vegetation Condition Benchmark information for a Plant Community Type (PCT) is maintained in the BioNet Vegetation Classification database. This document provides a quick guide on how to view the Benchmark information and to export the Benchmark data.

### How to view Benchmark data via the PCT user interface

#### 1. Login to the BioNet Vegetation Classification Database

Register and access the database (use your email as login ID). The link to access the application is:

http://www.environment.nsw.gov.au/NSWVCA20PRapp/LoginPR.aspx

#### 2. Search and display PCT data

Access this function by clicking on the 'Search and Display PCT' dropdown menu item on the 'PCT Data' top navigation bar.



Figure 1 BioNet Vegetation Classification homepage

#### 3. Search for PCT Data

Step 1: Specify the Plant Community Type ID or other parameters in the State-wide Search fields.

#### How to use the search fields:

The fields for the 'State-wide search' are either text fields (the first four fields) or dropdown menu fields (the bottom six fields).

The additional fields allow you to search by threatened ecological communities (*Threatened Ecological Communities Act* (EC Act) and threatened ecological communities (TEC) name), and by local government authority (LGA).

For the text fields, type in the terms or partial terms and hit 'Enter' on your keyboard, or the 'Search' button at the bottom of the screen. For example, entering 'red gum' in the PCT common name field will retrieve all PCTs with 'red gum' in their common name.

To use one of the dropdown fields, click the dropdown arrow next to the relevant field, then click to select the entry you want.

If you want to create a search using more than one term, either type in the full or partial terms in the free text fields, and select the relevant entries via the dropdown fields.

When you are using multiple fields to create your search, you can specify how you want the terms to interact. This means setting a condition where ALL terms must be met, or where ANY of the terms are met. These two types of interactions are chosen via the dropdown fields to the right of the relevant field.

As an example, selecting Alpine Herbfields from the Vegetation Class (Keith 2004) field, then selecting Broken Hill Complex from the IBRA Bioregion field and leaving the interaction term as the default 'or' will retrieve a list of all PCTs that are either in the Broken Hill Complex IBRA Bioregion or are defined as within the Alpine Herbfields Vegetation Class.

State-wide S	Search Fields:		
	Plant Community Type ID :		
	VCA ID :		or 🗸
	Type (part) sc	ientific name or click button to search for name	
	PCT Scientific Name :	OR find species	or 🗸
Text Fields	PCT Common Name :	red gum	or 🗸
	Authority :	choose V	or 🗸
	Vegetation Formation (Keith, 2004) :	choose V	or 🗸
	Vegetation Class (Keith, 2004) :	choose V	or 🗸
	PCT Definition Status :	choose V	and 🗸
	IBRA Bioregion :	choose	or 🗸
	IBRA Subregion :	AUA Australian Alps BBS Brigalow Belt South BHC Broken Hill Complex CHC Channel Country COP Cobar Peneplain DRP Darling Riverine Plains MDD Murray Darling Depression	or 🗸
Additional F	Fields : (NB: may retrieve only p Local Government Authority (LGA) : TEC Act :	MUL Mulga Lands NAN Nandewar NET New England Tablelands NNC NSW North Coast	or V
	TEC Name :	NSS NSW South Western Slopes RIV Riverina SEC South East Corner SEH South Eastern Highlands	or V
Drop down	Fields	SEQ South Eastern Queensland SSD Simpson Strzelecki Dunefields SYB Sydney Basin	multiple fields used for search

Figure 2 Using the text fields and dropdown menu items to search for PCT

Step 2: Show results by selecting 'Search' button. The system will display the results in the area below the search fields at the bottom of the page. This will also display how many records match your search term(s).



Your search returned 1 record(s).

#### Figure 3 Search for Plant Community Type data

The figure shows searching for a PCT record by specifying the 'Plant Community Type ID' (e.g. 25).

#### 4. Select PCT and view Benchmark Information

Step 1: Choose the 'View' option to view the details of the selected PCT.



Your search returned 1 record(s).

Figure 4 Select the PCT record to view the details

Step 2: Select the 'Threatened Biodiversity, TECs & Benchmarks' tab.

BioNet '	Vegetatio	n Classification					
HOME	PCT DATA	MANAGE REGISTRATION	LOGOUT				LOGGED IN AS : VCAPUBLIC ( READ ONLY USER )
Classification PCTID : 2 Classification PCT 0 Cle Classification	COMMUN community to view a veget 25 VCAID : on Type : Qualitä ition Status : Aj ared Status : Di ion confidence	ity ation community. 25 Common nam tive oproved PCT Benchmark ( aft PCT Threatened Ecolog level : 2 High	e (community) : Lig Lar (ho Calculation level : C ical Communities A	num shrubland wetland or ds Bioregion, Channel Co t) climate zones lass/IBRA Status : 0 out ssociation Status : 31/1 Authority : VCA 1.1	1 floodplains and untry Bioregion i 0 f 6 IBRA region 2/2005 I - archive	depressions of the n the arid and sem is Approved	Print PCT Mulga -arid Tool Ready : No
Vegetation co detai	ommunity Sci ils des	entific Distribution Extent cription information	Threatened Biodive & Benchma	ersity, TECs Spatial arks information	Image management	Status and lineage	
Species by Guide to Species	y Stratum Structural Terms s upper stratum	Eucalyptus coolabah subs; Eucalyptus largiflorens (Bla Eucalyptus populnea subs	o. coolabah ack Box) p. bimbil (Bimble B	ox)		View	
Species	middle stratum ground stratum	: Muehlenbeckia florulenta ( Chenopodium nitrariaceum Eragrostis australasica (Ca Atriplex holocarpa (Pop Sa Nitraria billardierei (Dillon fl Sclerolaena tricuspis (Giar Acacia selicina (Cooba) Acacia salicina (Cooba) Acacia oswaldii (Miljee) <u>Myonorum montanum (We</u>	Lignum) n (Nitre Goosefoot) negrass) litbush) Bush) tt Redburr) Cooba) stern Boohialla) ail)		~	View See Structural Te	rms for further information
	9	Alternanthera nodifiora (Cc Centipeda cunninghamii (C Marsilea drummondii (Com Marsilea costulifera Eleocharis pallens (Pale S Eleocharis acuta Fimbristylis dichotoma (Co Juncus aridicola (Tussock Lachnacrostis filiformis	mmon Joyweed) common Sneezewe mon Nardoo) pike Sedge) mmon Fringe-sedg Rush)	eed) ie)	~	View	
Communit	ly Structure						
Descriptiv	e Attributes						
Reference	s						

Figure 5 PCT details

Step 3: Choose the 'Community Condition Benchmarks' section to expand the list for Benchmarks for the selected PCT.

BioNet Vegetation Classification										
HOME	PCT DATA	MANAGE	REGISTRATION	LOGOUT				LOGGED IN AS : V ( READ ON	C <b>APU</b> ILY US	
Plant community View plant community Ise this page to view a vegetation community.										
PCTID: 25 VCAID: 25 Common name (community): Lignum shrubland wetland on floodplains and depressions of the Mulga Lands Bioregion, Channel Country Bioregion in the arid and semi-arid (hot) climate zones										
Classification Type : Qualitative       PCT Definition Status : Approved       PCT Benchmark Calculation level : Class/IBRA Status : 0 out of 6 IBRA regions Approved         PCT % Cleared Status : Draft       PCT Threatened Ecological Communities Association Status : 31/12/2005       Tool Ready : No         Classification confidence level : 2 High       Authority : VCA 1.1 - archive       Tool Ready : No         Vegetation community       Scientific       Distribution       Extent       Threatened Biodiversity, TECs       Spatial       Image       Status										
deta Threatene	ails d	escription in	formation	& Benchmarks	s information	management a	nd lineage			
Communi	ity Condition I	Benchmarks								
Vegetati	ion Class		Inland Floodplain Shrublands	^						
IBRA			Channel Country	Simpson Strzelecki Dunefields	Cobar Peneplain	Broken Hill Complex	Brigalow Belt South	Mulga Lands		
Benchm	ark Calculatio	n Level	Class/IBRA	Class/IBRA	Class/IBRA	Class/IBRA	Class/IBRA	Class/IBRA		
Tree Ric	hness		1	0	1	0	1	1		
Shrub R	lichness		6	5	5	8	5	5		
Grass a	nd Grass Like	Richness	6	6	7	6	6	5		
Forb Ric	chness		9	10	12	10	8	6		
Fern Ric	chness		1	1	2	1	1	1		
Other Ri	ichness		1	1	1	1	1	0		
Tree Co	ver		0.0	0.0	0.0	0.0	0.0	0.0		
Shrub C	over		35.0	58.0	29.0	149.0	37.0	73.0		
Grass a	nd Grass Like	Cover	9.0	34.0	5.0	4.0	16.0	4.0		
Forb Co	ver		9.0	11.0	3.0	5.0	6.0	6.0		
Fern Co	ver		0.0	0.0	0.0	0.0	0.0	0.0		
Other Co	over		0.0	0.0	0.0	0.0	0.0	0.0		
Total ler	ngth of fallen I	ogs								
Litter Co	over									
Number	of Large Tree	S								
Large Tr	ree Threshold	Size								
Denshar	ark Variation	-	monthly average, following AVERAGE	~						

Figure 6 View Benchmark information for the PCTs

### How to generate a benchmark report or export

#### 1. Select the Reports/Exports interface

Access this function by clicking on the 'Reports/Exports' dropdown menu item on the 'PCT Data' top navigation bar.



Figure 7 Reports/Exports menu

#### 2. Choose the Search option

#### Export Reports in Acrobat PDF or MS Word (doc) format:

Step 1: Choose the search option as 'Reports'.

Step 2: Choose 'Search' link to invoke the 'State-wide Advanced Search' screen.





Step 3: In the 'Create a new search' section, choose the Report Template as 'PCT Benchmarks report'. The relevant search fields for the template is loaded into the 'Select communities by' query box in Step 4.

BioNet	Vegetatio	on Classification					
HOME	PCT DATA	MANAGE REGISTRATION	LOGOUT				LOGGED IN AS : VCAPUBLIC ( READ ONLY USER )
© Repo	orts: State	e-wide Advanced S	earch				Guide to producing reports
Create a r Step 1. Cho	new search ose report templ	ate PCT Ber	ichmarks report Wh	✓ at's in the reports?	Load a saved search Load a saved search Select a saved sea	rch	Definition of fields
Step 2. Sele Guide to bui	ct communities I Iding search que	by:      common terms OR      common terms or	ustomised terms				
	PCT Benchmark	s k Status		^			
G- Commu	unity Definition						
1	PCT Common	Name		A	dd		
	PCT Common	Usage Name					
- C	PCT Definition	Status		~			
To change the 'Advane Otherwise, search.	how images are ced options' sect please proceed	displayed, or to select fields to t tion below. to Step 4 Show results to previe	e shown in the repor w the communities th	t, please open at match your	You can save your s and click Save. The saved search' area a	earch and display opt saved search will then bove.	ons by naming the current settings be available to select in the 'Load a
Step 3. Sho	v results	Show			Name your search		
Step 4 Run	report	Acrobat PD	F V Run		Save search		Save

Figure 9 Select Communities By – selected based on the chosen report template

Step 4: Choose the first filter criterion for the report, and select 'Add' button. The filter can be chosen from Community Benchmark Information, Community Definition (PCT Data) or Distribution Information (IBRA Bioregion). Repeat for each subsequent criterion.

#### 3. Use the search criteria

#### How to use the search criteria:

- a. Scroll down the 'Select Communities by' list to see what fields are available.
- b. Check one of the search field boxes. The 'Add' button should now become active (i.e. no longer greyed out).
- c. Click the 'Add' button to open the 'Search condition' window for the selected criterion.

#### Quick guide: How to access Vegetation Condition Benchmark data from BioNet

BioNet	Vegetatio	n Classification							
HOME	PCT DATA	MANAGE REGISTRATION	LOGOUT		LOGGED IN AS : VCAPUBLIC ( READ ONLY USER )				
Repo	orts: State	e-wide Advanced S	earch						
					Guide to producing reports Definition of fields				
Create a n	ew search				Load a saved search				
Step 1. Choo	Step 1. Choose report template PCT Benchmarks report  What's in the reports? Select a saved searchchoose V								
Step 2. Selec Guide to buil	t communities t ding search que	oy: ● common terms OR ○ c rries	ustomised ten	ms					
	PCT Common I	Name		^					
	PCT Common ( PCT Definition :	Usage Name Status							
	PCT Scientific N	Name			ad				
	Plan Communi Vegetation Clas	ty Type ID (PCT ID) ss		~					
To change the 'Advand Otherwise, search.	how images are ed options' sect please proceed	displayed, or to select fields to b tion below. to Step 4 Show results to preview	e shown in the w the communit	report, please open ties that match your	You can save your search and display options by naming the current settings and click Save. The saved search will then be available to select in the 'Load a saved search' area above.				
Step 3. Shov	v results	Show			Name your search				
Step 4. Run	report	Acrobat PD	F V	Run	Save search Save				
Advanced	opuons								

Figure 10 'PCT Benchmarks report'

- d. Click on the 'Operator' dropdown menu to view and select the options. These will vary according to the type of data in the relevant field.
- e. When you have selected the 'Operator', select the 'Attribute value' from the dropdown menu next to the field.
- f. Select the term you want by clicking once on the relevant entry. The 'Search condition' window should now show your choices.
- g. Select the type of operator you want applied for this criterion, either 'Any (Or)' or 'All (And)'. If you are using only one criterion, this term is not relevant. The 'Select records for' terms operate between the criteria, so that selecting 'Any (or)' will include communities that meet either of the criteria, while 'All (And)' will include only communities that meet both criteria simultaneously.
- h. The order of criteria is crucial to getting the result you want, as the first criteria creates a subset that the second criteria is matched to. Using the same criteria and swapping their order can therefore produce different results.

i. Click 'OK' to retain the criteria. The selected criteria should now appear in the Search query build box to the right.

HOME PCT DATA MANA	GE REGISTRATION LOGOUT	LOGGED IN AS : VCAPUBLIC ( READ ONLY USER )
O Reports: State-wide	Advanced Search	
		Guide to producing reports Definition of fields
Create a new search		Close
Step 1. Choose report template	Search condition	~
Step 2. Select communities by: Guide to building search queries	Column Plant Community Type ID (PCT ID) Operator = Enter value 25 ×	
- PCT Common Name	Select records for	
PCT Common Usage		OK
- LIPCT Definition Status		
Plant Community Typ		
and the second s		

Figure 11 PCT Benchmark Report - Specify Search Condition

Step 5: Specify the required search criterion in the Search condition popup. Delete or edit the criteria in this compiling area by clicking on the 'Edit criteria' or 'Delete criteria' text separately for each criterion.

BioNet '	Vegetatio	n Classification										
HOME	PCT DATA	MANAGE REGISTRATION	LOGOUT						LC	OGGED IN AS ( READ	) : VCAPU ONLY US	BLIC BER )
Report	orts: State	-wide Advanced S	earch							Guide to p D	roducing re efinition of	eports fields
Create a n Step 1. Choo	ew search ise report templa	ate PCT Ben	chmarks repo	ort Vhat's in the repo	Lo Lo orts?	oad a sav oad a sav Select a	aved search red search saved search	choose		~		
Step 2. Selec Guide to build	t communities b ding search que nity Benchmarks PCT Benchmark Plant Communi nity Definition PCT Common N PCT Common N	y:      ocommon terms OR      cries  k Status ky Type ID (PCT ID)  Name Jsage Name	ustomised tei	rms	Add	Any (Or)	Table Community Benchmarks Community Definition	Column Plant Community Type ID (PCT ID) Vegetation Class	Operator =	Value 25 Inland Floodplain	Edit criteria Edit criteria	< >
To change I the 'Advanc Otherwise, search. Step 3. Show Step 4. Run I	how images are ed options' sect please proceed / results report	displayed, or to select fields to b ion below. to Step 4 Show results to preview Show Acrobat PD	e shown in the w the communi F V	e report, please open ities that match your	ai si Na	nd click sea aved sea ame your Save sea	Save. The save arch' area abov r search arch	ed search will e.	eptiene by t	lable to select	in the 'Loa	ge ad a

Figure 12 PCT Benchmark Report – Selected search criterion

Step 6: Show results by selecting **Show**. This opens a list of the PCTs that meet your criteria

The results can be refined by deselecting the check box to the left of each 'Benchmark ID'. Select **OK** to close the display window.

BioNet	Veget	ation Classificat	tion			
HOME		ATA MANAGE REGIS	TRATION			LOGGED IN AS : VCAPUBLIC (READ ONLY USER)
• Rep	Search	results				Close
		Benchmark ID	PCT ID	Class	IBRA	ing reports
		872	25	Inland Floodplain Shrublands	Channel Country	
Create a		921	25	Inland Floodplain Shrublands	Simpson Strzelecki Dunefields	
Step 1. Cho	$\checkmark$	879	25	Inland Floodplain Shrublands	Cobar Peneplain	
		866	25	Inland Floodplain Shrublands	Broken Hill Complex	
Step 2. Sel	$\checkmark$	860	25	Inland Floodplain Shrublands	Brigalow Belt South	
		905	25	Inland Floodplain Shrublands	Mulga Lands	
						ete erta
To change the 'Advar Otherwise search. Step 3. Sho Step 4. Rur						ettings e 'Load a
Advanced						ОК

Figure 13 PCT Benchmark Report - Refine Search Results

Step 7: Run report by selecting the Report option as 'Acrobat PDF' or MS Word (Doc) and invoke **Run.** Depending on the size of the report/export (i.e. number of PCTs selected and number of fields/columns to be displayed), this may take a few minutes.

You will have the choice of Open/Save/Cancel the report after the server has processed the request.

BioNet Veget	atio	n Classification			
HOME PCT D/	ATA	MANAGE REGISTRATION	LOGOUT		LOGGED IN AS : VCAPUBLIC ( READ ONLY USER )
Reports: S      Create a new seal Step 1. Choose report      Step 2. Select commun Guide to building sear      I - PCT Defi     PCT Defi     PCT Defi     PCT Sele     PUT Defi     Vegetatic     Vegetatic     Vegetatic     Otherwise, please pro     search.	0	http://environment.nsw.gov.au/r	.swvca20app/s	search/ReportPopup.a	spr?ReportID=14&RF=0&dmage - Internet Explorer         Internet Explorer         What do you want to do with ReportPopup.pdf?         Size 93.8 KB         From: webdev.environment.nsw.gov.au         Open         The file         the saved automatically.         Save         Save as         Cancel
Step 3. Show results Step 4. Run report		Acrobat PD	F 🗸	Run	Save search Save
Advanced options					

Figure 14 Download Benchmarks by PCT report

#### Export Reports in CSV format:

Step 8: At Step 1, select the option as 'Export' and proceed to 'Search'.

Step 9: After specifying the search criterion (as defined in Step 4), invoke the 'Run' option to download the report in CSV format.

Exports: State-wide Adva	inced Search					G	uide to pro	oducing exports efinition of fields
Create a new search Step 1. Choose export template	PCT Benchmarks report V What's in the export	Load Load a ts?	a saved sea a saved search ct a saved sea	arch archchoos	e		~	
Step 2. Select communities by:  Common terminities by: Common terminities by: Common Name Common Name Common Usage Name	rms OR O customised terms		Tetre Community	Column Plant	Operator =	Value 25	Edit	Delete
	) •	Add	Definition	Community Type ID (PCT ID)			criteria	criteria
To change how images are displayed, or to s the 'Advanced options' section below. Otherwise, please proceed to Step 3 Show res search.	elect fields to be shown in the export, please oper sults to preview the communities that match your	n You c and c savec	an save your s lick Save. The d search' area a your search	earch and dis saved search above.	play options will then be	by nami available	ng the cur e to select	rent settings in the 'Load a
Step 3. Show results Step 4. Run export	Run	Save	e search				Save	



6	http://webdev.environmentary							G	∂uide to pro De	oducing exports afinition of fields
	Close			Load	a saved sea	arch				
		Benchmarks report What's in the exp	✓ orts?	Load Sele	a saved search ect a saved sea	rchchoos	8		~	
		⊖ customised terms								
	- PCT Common Name	~			Table	Column	Operator	Value		
	└─ └─ └─ └─ └─ └─ └─ └─ └─ └─ └─ └─	~	Ad	d	Community Definition	Plant Community Type ID (PCT ID)	=	25	Edit criteria	Delete criteria
t (	To change how images are displayed, or to select field he 'Advanced options' section below. Dtherwise, please proceed to Step 3 Show results to pr search.	s to be shown in the export, please ope eview the communities that match your	en r	You and save	can save your s click Save. The d search' area a	earch and dis saved search above.	play options will then be	by nami available	ing the cur e to select	rent settings in the 'Load a
St	ep 3. Show results Show			Name	your search				0	



Export PCT Benchmark - Choose the 'Download CSV File' option

• Exports: State-wide Advanced S	Search					G	uide to pro De	oducing exports efinition of fields
Close CSVExport_PCT_Bcsv (1.55 KB) webdev. × View downloads	enchmarks report  What's in the exports? Ustomised terms	Load Load a Selee	a saved search a saved search ct a saved sea	rch rchchoos	e		~	
PCT Common Name     PCT Common Usage Name     PCT Definition Status     PCT Scientific Name     PCT Scientific Name     PCI Plant Community Type ID (PCT ID)     Vegetation Class	Ad	d	Table Community Definition	Column Plant Community Type ID (PCT ID)	Operator =	Value 25	Edit criteria	Delete criteria
To change how images are displayed, or to select fields the 'Advanced options' section below. Otherwise, please proceed to Step 3 Show results to previsearch. Step 3. Show results Show Step 4. Run export Run	to be shown in the export, please open iew the communities that match your	You c and cl saved Name Save	an save your s lick Save. The : I search' area a your search	earch and dis saved search bove.	play options will then be	by nami available	ng the cur to select Save	rent settings in the 'Load a

Figure 17 Export PCT Benchmark - Choose the 'View downloads' option to view the CSV File

### How to Access Benchmark Data using BioNet Web service

#### 1. How to connect to BioNet Web service

Step 1: Open Microsoft Excel (version 2010 or higher) running on a Windows based PC.

Step 2: Open the Power query tab in Excel (or Data Tab and then New Query).

Step 3: In the 'Get External Data' (or New Query) section of the Power Query ribbon, select 'From Other Sources' and click on 'From OData Feed'.

Note: For more information on how to access the BioNet web service using Excel and power query visit the below link.

https://data.bionet.nsw.gov.au/resources/bionet/bionet-access-excel-power-query-160403.pdf

H	<del>ه ،</del> ه	÷ =					$\frown$						Book1 -	Excel		
File	Horr	ne ]	Ínsert	Pag	je Layout	Formulas	Data	Review	N	View	HPE Conte	nt Manager	Power	Pivot	♀ Tell r	ne what you
Ca Fron	m Access m Web m Text	From C Sourc	or Other es ▼	Exist	ting N action Qu	Show	v Queries n Table nt Sources	Refre	sh	Connecti Propertie Edit Links	ions Au s Au	Z A A Z Sort Fi	Iter	ar pply vanced	Text to Columns	📴 Flash F ∎+∎ Remov s 😹 Data V
	Get	: Externa	I Data			From File	e	+	Conn	ections		Sort	& Filter			
A1	A	B	×	c	Ĵ <sub>x</sub>	From Da	itabase	•		н	I	J	К	L		M
1 2						From <u>A</u> z	ure	•								
3 4					[	From Or	line S <u>e</u> rvic	es ⊧								
5						From Ot	her Source	es >		From W	<u>/</u> eb					
7 8 9						Combine	e Queries	÷	S	From SI	harePoint <u>L</u> i	st				
10 11					ec.	Data <u>C</u> atalo	g Search	(		From O	Data Feed	$\sum$				
12 13						Data Source	italog Queri e <u>S</u> ettings	es		From <u>H</u>	adoop File (	HDF: From	n OData Fee	d		7
14 15					0	Query O <u>p</u> ti	ons			From A	ctive Direct	Impo	ort data from	an ODat	ta feed.	
16											care birect	,				
17 18									E	From M	licrosoft <u>E</u> xo	hange				

Figure 18 OData feed in Excel

Step 4: In the OData Feed URL dialogue box enter <u>https://data.bionet.nsw.gov.au/biosvcapp/odata</u> and click OK.

#### Quick guide: How to access Vegetation Condition Benchmark data from BioNet

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Figure 19 Specify BioNet Web service URL

#### 2. Selecting the PCT Benchmark function in BioNet Web service

Step 1: Select the option 'VegetationClassification\_PCTBenchmarks' in the 'Navigator' popup.

Step 2: Select Edit to view full details.

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Figure 20 Select PCT Benchmarks Service

Step 3: Benchmarks by PCT will be displayed in the Query Editor.

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Figure 21 Benchmarks by PCT data displayed in Query Editor

Step 4: Selecting only the columns of data you are interested in makes the download quicker and more efficient. This is not a mandatory step.

Choose your columns from the choose columns window that appears, and click **OK**.

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Figure 22

Benchmarks by PCT data – Choosing the desired columns

#### Quick guide: How to access Vegetation Condition Benchmark data from BioNet

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1	42 River Red Gum / River Oak riparian woodland wetland in the Hunter V	Approved	Eastern Riverine Forests			1306	Sydney Basin	Query settings	
2	54 Buloke - White Cypress Pine woodland in the NSW South Western Slop.	Approved	Western Slopes Dry Scle	rophyll Forests		1369	Brigalow Belt South	<ul> <li>PROPERTIES</li> </ul>	
3	54 Buloke - White Cypress Pine woodland in the NSW South Western Slop.	Approved	Western Slopes Dry Scle	rophyll Forests		1369	NSW South Western S	Name	
4	56 Poplar Box - Belah woodland on clay-loam soils on alluvial plains of no	Approved	Floodplain Transition W	odlands		1333	NSW South Western S	VegetationClassification_PCTBen	chma
5	57 Belah/Black Oak - Western Rosewood - Wilga woodland of central NS	Approved	Semi-arid Sand Plain Wo	odlands		1325	Murray Darling Depre	All Properties	
6	58 Black Oak - Western Rosewood open woodland on deep sandy loams	Approved	Semi-arid Sand Plain Wo	odiands		1326	Murray Darling Depre		
7	59 Belah/Black Oak - Western Rosewood - Leopardwood Iow open wood	Approved	Semi-arid Sand Plain Wo	odiands		1326	Murray Darling Depre	APPLIED STEPS	
8	70 White Cypress Pine woodland on sandy loams in central NSW wheatbelt	Approved	Floodplain Transition W	odlands.		1333	NSW South Western S	Source	
9	74 Yellow Box - River Red Gum tall grassy riverine woodland of NSW Sout	Approved	Floodplain Transition W	odiands		1333	NSW South Western S	Navigation	
10	76 Western Grey Box tall grassy woodland on alluvial loam and clay soils i	Approved	Floodplain Transition W	odlands		1333	NSW South Western S	× Removed Other Columns	
11	80 Western Grey Box - White Cypress Pine tall woodland on loam soil on	Approved	Floodplain Transition W	odlands.		2333	NSW South Western S		
12	81 Western Grey Box - cypress pine shrub grass shrub tail woodland in th	Approved	Floodplain Transition W	odlands		1533	NSW South Western 5		
13	82 Western Grey Box - Poplar Box - White Cypress Pine tall woodland on r	Approved	Floodplain Transition W	oodlands		1333	NSW South Western S		
14	84 River Oak - Rough-barked Apple - red gum - box riparian tall woodland	Approved	Eastern Riverine Forests			1305	Brigalow Belt South		
15	84 River Oak - Rough-barked Apple - red gum - box riparian tail woodland.	Approved	Eastern Riverine Forests			1306	Sydney Basin		
16	85 River Oak forest and woodland wetland of the NSW South Western Slo.	Approved	Eastern Riverine Forests			1306	Sydney Basin		
17	104 Gum Coolabah woodland on sedimentary substrates mainly in the Cob.	Approved	Inland Rocky Hill Woodl	ends		1308	NSW South Western S		
18	110. Western Grey Box - Cypress Pine shrubby woodland on stony footslop	Approved	Western Slopes Dry Scle	rophyll Forests		1369	NSW South Western S		
19	116 Weeping Myall - Coobah - Scrub Wilga shrubland of the Hunter Valley	Approved	Coastal Valley Grassy W	oodlands		1362	Sydney Basin		
20	142 Broombush shrubland in the mallee landscapes of the temperate and	Approved	Sand Plain Mallee Wood	lands		1305	Murray Darling Depre		
21	151 Sandhill Cane Grass hummock grassland on siliceous sands on dune cr.	Approved	Acolian Chenopod Shrui	slands		1364	Murray Darling Depre		
22	152 Lunette chenopod shrubland mainly of the Murray Darling Depression	Approved	Aeolian Chenopod Shrul	lands		1364	Murray Darling Depre		
23	153 Black Bluebush low open shrubland of the alluvial plains and sandplain.	Approved	Aeolian Chenopod Shrul	lands		1364	Murray Darling Depre		
24	154 Pearl Bluebush low open shrubland of the arid and semi-arid plains	Approved	Acollan Chenopod Shrui	slands		1364	Murray Darling Depre		
25	170 Chenopod sandplain mallee woodland/shrubland of the arid and semi	Approved	Sand Plain Mallee Wood	lands		1305	Murray Darling Depre		
26	171 Spinifex linear dune mallee mainly of the Murray Darling Depression Bi.	Approved	Dune Mallee Woodland			1345	Murray Darling Depre		
27	172 Deep sand mallee of irregular dunefields of the semi-arid (warm) zone	Approved	Dune Mallee Woodland			2345	Murray Darling Depre		
28	173 Sandplain mallee of central NSW	Approved	Sand Plain Mailee Wood	lands		1305	Murray Darling Depre		
29	174 Mallee - Gum Coolabah woodland on red earth flats of the eastern Co	Approved	Sand Plain Mallee Wood	lands		1305	Murray Darling Depre		
30	175 Ridge mallee woodland on hills of meta-sediments and volcanics, east	Approved	Inland Rocky Hill Woodl	ands		1308	NSW South Western S		
31	176 Green Mallee - White Cypress Pine very tail mallee woodland on grave	Approved	Inland Rocky Hill Wood!	ands		1308	NSW South Western S *		

#### Figure 23 Benchmarks by PCT data – Selected columns displayed in Query Editor

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2	42 Ri	iver Red Gum	/ River Oak	riparian wo	odland v	vetland	in the Hu	nter Vall	ev	Approved	Eastern River	rine Forests				1306	Sydney Bas	in	SYB
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4	54 Bi	uloke - White	Cypress Pin	e woodland	in the N	SW Sol	uth Weste	rn Slope	s Bioregion	Approved	Western Slop	bes Dry Scler	rophyll Fore	sts		1369	NSW South	Western Slope	s NSS
5	56 Pc	oplar Box - Be	lah woodlar	nd on clay-lo	am soils	s on allu	vial plain	s of north	h-central NSW	Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
6	57 Be	elah/Black O	ak - Western	Rosewood -	Wilgav	voodlar	nd of cent	ral NSW i	including the Col	bar Approved	Semi-arid Sa	nd Plain Wo	odlands			1326	Murray Dar	ling Depression	MDD
7	58 BI	ack Oak - We	stern Rosew	ood open w	oodland	d on dee	ep sandy l	oams ma	inly in the Murr	ay D Approved	Semi-arid Sa	nd Plain Wo	odlands			1326	Murray Dar	ling Depression	MDD
8	59 Be	elah/Black O	ak - Western	Rosewood -	Leopar	dwood	low open	woodlan	d on sandplain a	ind Approved	Semi-arid Sa	nd Plain Wo	odlands			1326	Murray Dar	ling Depression	MDD
9	70 W	hite Cypress	Pine woodla	and on sand	loams	in centr	al NSW w	heatbelt		Approved	Floodplain Tr	ransition Wo	odlands			1333	NSW South	Western Slope	s NSS
10	74 Ye	ellow Box - R	iver Red Gun	n tall grassy	riverine	woodla	and of NS	N South	Western Slopes	Bioi Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
11	76 W	estern Grev	Box tall grass	sy woodland	on allu	vial loar	m and clay	soils in t	the NSW South V	Ves Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
12	80 W	estern Grey	Box - White	Cypress Pine	e tall wo	odland	on loam s	oil on all	uvial plains of N	SW Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
3	81 W	estern Grey	Box - cypres	s pine shrub	grass sh	rub tall	woodlan	d in the B	Brigalow Belt Sou	th Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
4	82 W	estern Grey	Box - Poplar	Box - White	Cypress	Pine ta	ll woodla	nd on rea	d loams mainly o	f th Approved	Floodplain Tr	ansition Wo	odlands			1333	NSW South	Western Slope	s NSS
15	84 Ri	ver Oak - Ro	ugh-barked A	Apple - red g	um - bo	x riparia	an tall wo	odland (v	vetland) of the E	Brig Approved	Eastern River	rine Forests				1306	Brigalow B	elt South	BBS
16	84 Ri	ver Oak - Ro	ugh-barked A	Apple - red g	um - bo	x riparia	an tall wo	odland (v	vetland) of the E	rig Approved	Eastern River	rine Forests				1306	Sydney Bas	sin	SYB
17	85 Ri	ver Oak fore	st and wood	land wetlan	d of the	NSW So	outh West	ern Slope	es and South Eas	terr Approved	Eastern River	rine Forests				1306	Sydney Bas	in	SYB
8	104 G	um Coolabah	woodland o	n sediment	ary subst	trates n	nainly in t	he Cobar	Peneplain Biore	gio Approved	Inland Rocky	Hill Woodla	inds			1308	NSW South	Western Slope	s NSS
19	110 W	estern Grey	Box - Cypres	s Pine shrub	by wood	dland or	n stony fo	otslopes	in the NSW Sou	th V Approved	Western Slop	bes Dry Scler	rophyll Fore:	sts		1369	NSW South	Western Slope	s NSS
20	116 W	eeping Myal	I - Coobah - !	Scrub Wilga	shrublar	nd of th	e Hunter	Valley		Approved	Coastal Valle	y Grassy Wo	odlands			1362	Sydney Bas	in	SYB
21	142 Br	roombush sh	rubland in th	ne mallee la	ndscape	s of the	tempera	te and se	mi-arid (warm) o	lim Approved	Sand Plain M	allee Wood	lands			1305	Murray Dar	ling Depression	MDD
22	151 Sa	andhill Cane	Grass humm	ock grasslan	d on silid	ceous s	ands on d	une crest	ts of the arid zon	e Approved	Aeolian Cher	nopod Shrub	ands			1364	Murray Dar	ling Depression	MDD
23	152 Lu	inette cheno	pod shrublar	nd mainly of	the Mu	rray Dar	rling Depr	ession Bi	oregion	Approved	Aeolian Cher	nopod Shrub	lands			1364	Murray Dar	ling Depression	MDD
24	153 BI	lack Bluebusi	h low open s	hrubland of	the allu	vial plai	ins and sa	ndplains	of the arid and s	em Approved	Aeolian Cher	nopod Shrub	ands			1364	Murray Dar	ling Depression	MDD
25	154 Pe	earl Bluebusi	h low open s	hrubland of	the arid	and ser	mi-arid pl	ains		Approved	Aeolian Cher	nopod Shrub	lands			1364	Murray Dar	ling Depression	MDD
26	170 Ch	henopod san	dplain malle	e woodland	/shrubla	and of t	he arid an	d semi-a	rid (warm) zone	s Approved	Sand Plain M	allee Wood	lands			1305	Murray Dar	ling Depression	MDD
27	171 Sp	oinifex linear	dune malle	e mainly of t	the Murr	ray Darl	ing Depre	ssion Bio	region	Approved	Dune Mallee	Woodlands				1345	Murray Dar	ling Depression	MDD
28	172 De	eep sand ma	llee of irregu	lar dunefiel	ds of the	e semi-	arid (warr	n) zone		Approved	Dune Mallee	Woodlands				1345	Murray Dar	ling Depression	MDD
29	173 Sa	andplain mal	lee of centra	I NSW						Approved	Sand Plain M	allee Wood	lands			1305	Murray Dar	ling Depression	MDD
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Step 5: Click on the 'Close and Load' button to load your data to your spreadsheet.

Figure 24 Benchmarks by PCT data – Populate spreadsheet with Benchmark data

Step 6: Save the excel spreadsheet to your machine using the File and then Save option.

#### For further information:

Refer to the BioNet Vegetation Classification user manual

http://www.environment.nsw.gov.au/resources/bionet/bionet-vegetation-classification-usermanual-170340.pdf

Contact the Biodiversity Information Systems Team email bionet@environment.nsw.gov.au.