



DEPARTMENT OF PLANNING, INDUSTRY & ENVIRONMENT

# BAM Support for Accredited Assessors

A series of webinars to support the role of accredited BAM assessors in the Biodiversity Offset scheme (BOS)



For more information, go to the [BAM Support Webinar webpage](#) or contact us via the [BOS Online Enquiry Form](#)



Department of Planning, Industry and Environment

# BAM SUPPORT WEBINAR 4

## Vegetation Integrity Assessment & Vegetation Condition Benchmarks

Monday 21<sup>st</sup> October 2019  
1:00 pm - 2:00 pm



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Senior Team Leader  
Restoration Science Team  
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For more information, go to the [BAM Support Webinar webpage](#) or contact us via the [BOS Online Enquiry Form](#)



## Overview

| TIME  | ITEM                 | DESCRIPTION  | DURATION |
|-------|----------------------|--|----------|
| 11:00 | Introduction         | Acknowledgment of Country<br>Introduction and house keeping                | 10 mins  |
| 11:10 | Content Presentation | Vegetation Condition Assessment & Vegetation Condition Benchmarks          | 25 mins  |
| 11:35 | Q & A session        | Presenter and SME panel address participants' questions                    | 20 mins  |
| 11:55 | Wrap-up and Close    | Upcoming sessions<br>Access to webinar recordings<br>Post-webinar feedback | 5 mins   |

**This webinar will be recorded and published for future reference**



# Vegetation Integrity Assessment



## Vegetation Integrity - Intent

- Biodiversity offsetting is mandatory in 37 countries and voluntary in 64<sup>1</sup>
- BOS are dependent on transferable biodiversity currencies underpinned by aggregate measures of biodiversity values
- A growing need for practical aggregate measures of biodiversity values
- VI is an measure designed to quantify **overall biodiversity values**

*capacity of a site to provide habitat and other resources for the range of indigenous plant and animal species that may be reasonably expected to use the site<sup>2</sup>*

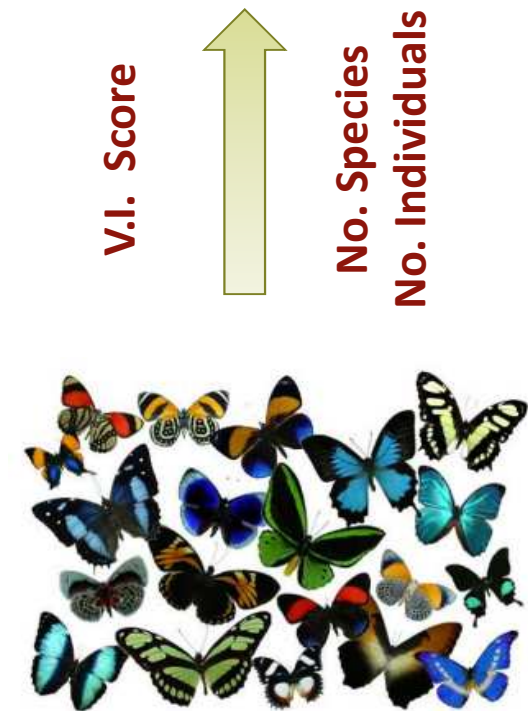
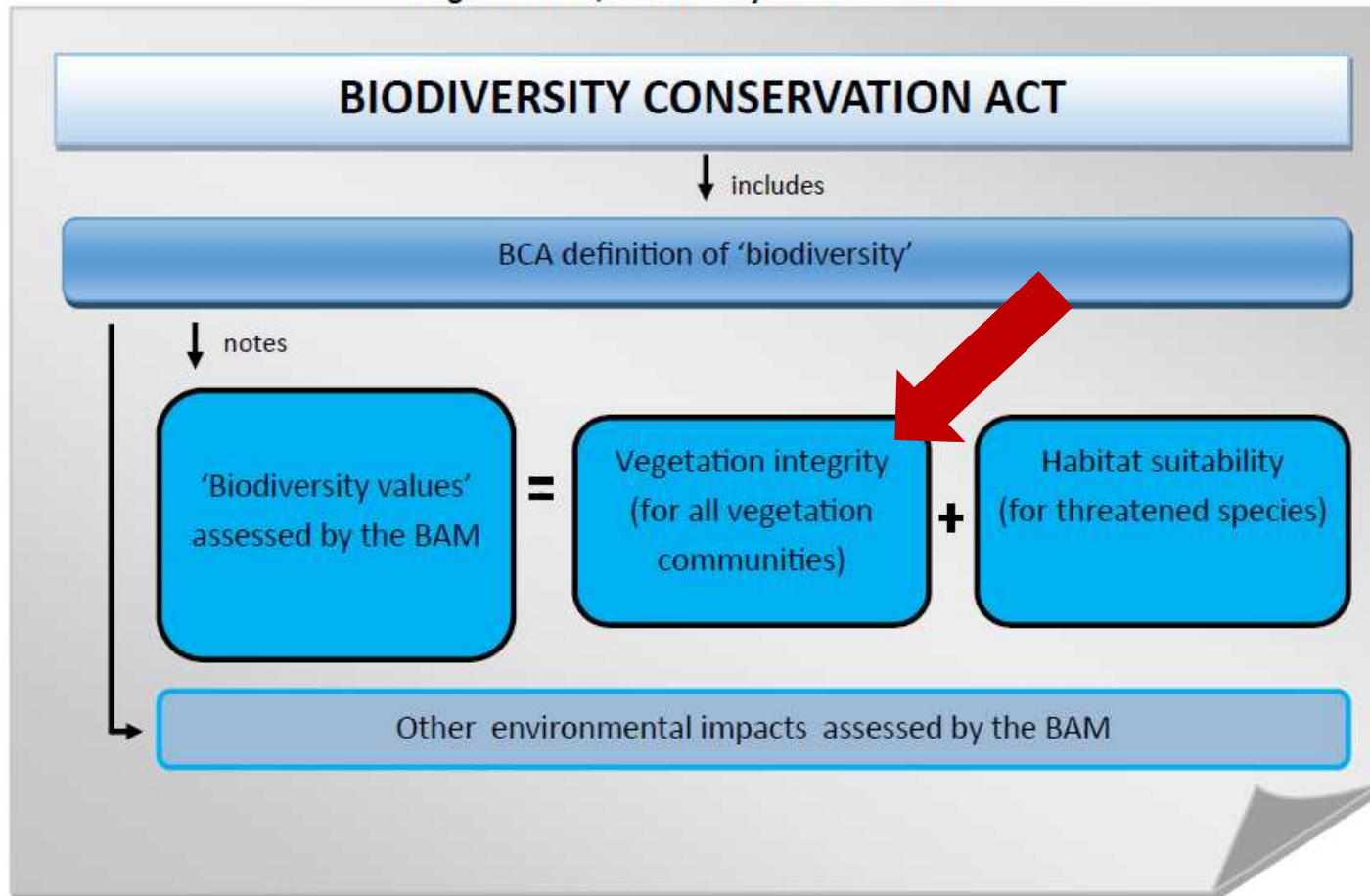




Figure 1: BCA, biodiversity and the BAM

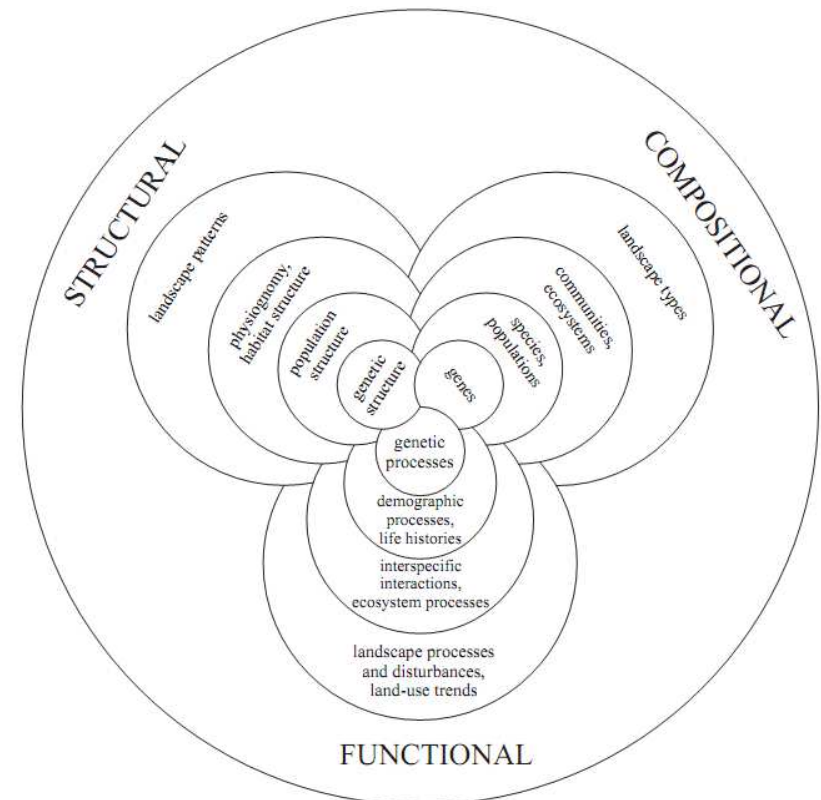




## Vegetation Integrity - Construction

- Noss' primary attributes of biodiversity – Composition, Structure and Function<sup>3</sup>
- **Composition** – types of entities, e.g. species, functional groups
- **Structure** – arrangement of entities, e.g. abundance, cover, complexity
- **Function** – roles of entities, e.g. regeneration, resilience

$$VI = \sqrt[3]{\text{Composition} \times \text{Structure} \times \text{Function}}$$



Noss (1990) Indicators for monitoring biodiversity<sup>3</sup>



### Vegetation Integrity – Construction using geometric mean of C, S, F Sub-indices

- $VI = \sqrt[3]{Composition \times Structure \times Function}$
- Criticism of “eclipsing” or of one high scoring attribute substituting for a poor scoring attribute

|  | <i>SITE 1</i>          | <i>SITE 2</i>          |
|--|------------------------|------------------------|
|  | 59                     |                        |
|  | 80                     |                        |
|  | 56                     | 91                     |
|  |                        |                        |
| <b><i>Geometric mean <math>\sqrt[3]{CxSx}</math></i></b> | <b><i>64 / 100</i></b> | <b><i>55 / 100</i></b> |



BAMC

BAM Calculator

lmbc.nsw.gov.au/bamcalc

Plant community types (PCT) & ecological communities

| Formation *      | Class *                         | Plant community type *  | PCT % cleared | Associated TEC *   | BC Act listing status           | EPBC Act listing status | Action                                    | Delete |
|------------------|---------------------------------|---|---------------|--|---------------------------------|-------------------------|---|--------|
| Grassy Woodlands | Coastal Valley Grassy Woodlands | 1604 - Narrow-leaved Ironbark - Grey Box - Spotted Gum shrub - grass woodland of the central and lower Hunter | 71            | Central Hunter Ironbark—Spotted Gum—Grey Box Forest in the New South Wales North Coast and Sydney Basin Bioregions | Endangered Ecological Community | Critically Endangered   | ADD VEG ZONE<br>Modify default benchmarks | X      |

ADD ANOTHER PCT    SEARCH PCT OUTSIDE IBRA

IMPORT SITE

Vegetation zones (Current vegetation integrity score)

| # | Import | PCT code | Condition class * | Vegetation zone name | Patch Size* | Area (ha)* | Location | Composition condition score | Structure condition score | Function condition score | Current vegetation integrity score | Management zones | Delete |
|---|--------|----------|-------------------|----------------------|-------------|------------|----------|-----------------------------|---------------------------|--------------------------|------------------------------------|------------------|--------|
| 1 |        | 1604     | moderate          | 1604_moderate        | 10          | 10         |          | 48                          | 55.2                      | 67                       | 56.2                               |                  | X      |


Vegetation zones (Future vegetation integrity score)

| # | PCT code | Condition class | Vegetation zone name | Patch Size | Management zone | Area (ha) | Composition condition score | Structure condition score | Function condition score | Vegetation integrity (VI) score | Change in VI score | Total Change in VI score |
|---|----------|-----------------|----------------------|------------|-----------------|-----------|-----------------------------|---------------------------|--------------------------|---------------------------------|--------------------|--------------------------|
| 1 | 1604     | moderate        | 1604_moderate        | 10         |                 | 10        | 0                           | 0                         | 0                        | 0                               | -56.2              | -56.2                    |

CLEAR    NEXT

Scores moderately well for C, S & F    VI = 56

BAMC



BAM Calculator | [lmbc.nsw.gov.au/bamcalc](http://lmbc.nsw.gov.au/bamcalc)

### Plant community types (PCT) & ecological communities

| Formation *      | Class *                         | Plant community type *  | PCT % cleared | Associated TEC *   | BC Act listing status           | EPBC Act listing status | Action   | Delete   |
|------------------|---------------------------------|---|---------------|--|---------------------------------|-------------------------|--|--|
| Grassy Woodlands | Coastal Valley Grassy Woodlands | 1604 - Narrow-leaved Ironbark - Grey Box - Spotted Gum shrub - grass woodland of the central and lower Hunter | 71            | Central Hunter Ironbark—Spotted Gum—Grey Box Forest in the New South Wales North Coast and Sydney Basin Bioregions | Endangered Ecological Community | Critically Endangered   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">ADD VEG ZONE</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">X</div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Modify default benchmarks</div> |

ADD ANOTHER PCT

SEARCH PCT OUTSIDE IBRA

C -20      F +20      VI drops 4 points to 52

IMPORT SITE

Vegetation zones (Current vegetation integrity score)

| # | Import | PCT code | Condition class * | Vegetation zone name | Patch Size* | Area (ha)* | Location | Composition condition score | Structure condition score | Function condition score | Current vegetation integrity score | Management zones | Delete  |
|---|--------|----------|-------------------|----------------------|-------------|------------|----------|-----------------------------|---------------------------|--------------------------|------------------------------------|------------------|---|
| 1 |        | 1604     | moderate          | 1604_moderate        | 10          | 10         |          | 29                          | 55.2                      | 87                       | 51.8                               |                  | <div style="border: 1px solid black; padding: 2px;">X</div> |

Vegetation zones (Future vegetation integrity score)

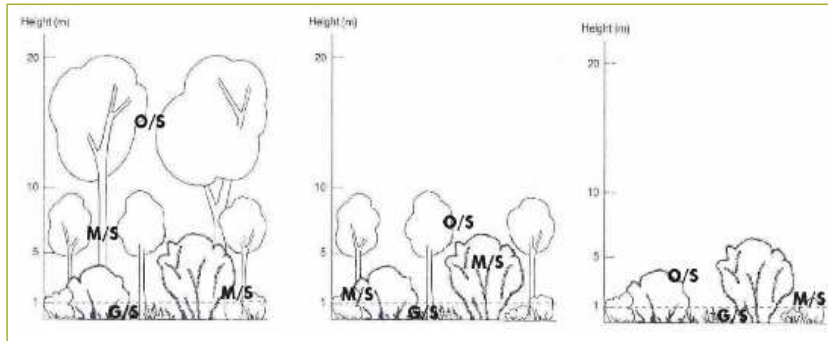
| # | PCT code | Condition class | Vegetation zone name | Patch Size | Management zone | Area (ha) | Composition condition score | Structure condition score | Function condition score | Vegetation integrity (VI) score | Change in VI score | Total Change in VI score |
|---|----------|-----------------|----------------------|------------|-----------------|-----------|-----------------------------|---------------------------|--------------------------|---------------------------------|--------------------|--------------------------|
| 1 | 1604     | moderate        | 1604_moderate        | 10         |                 | 10        | 0                           | 0                         | 0                        | 0                               | -51.8              | -51.8                    |

CLEAR

NEXT









## Vegetation Integrity – Composition and Structure Attributes



- **Prior system based on**
  - Total number of native species (Composition)
    - Site richness benchmarking only
  - Cover of vegetation strata (Structure)
    - Assessment and repeatability issues

### Growth form groups

Oliver et al. (2019a) <sup>4</sup>

|   |   |          |
|---|---|----------|
|  | ➤ Trees   | 815 spp  |
|  | ➤ Shrubs  | 2704 spp |
|  | ➤ Grass & grass-like<br>inc. sedges, rushes, lilies, restios                  | 915 spp  |
|  | ➤ Forbs   | 2187 spp |
|  | ➤ Ferns   | 210 spp  |
|  | ➤ Remaining 'others'<br>inc. palms, cycads, vines,<br>epiphytes & grass trees | 434 spp  |

- Richness (Composition) and cover (Structure) assessed against Growth Form benchmarks
- Improved repeatability through fixed links
- NOTE: cover is summed among species within a growth form and may be > 100%



## Vegetation Integrity – Composition and Structure Scoring

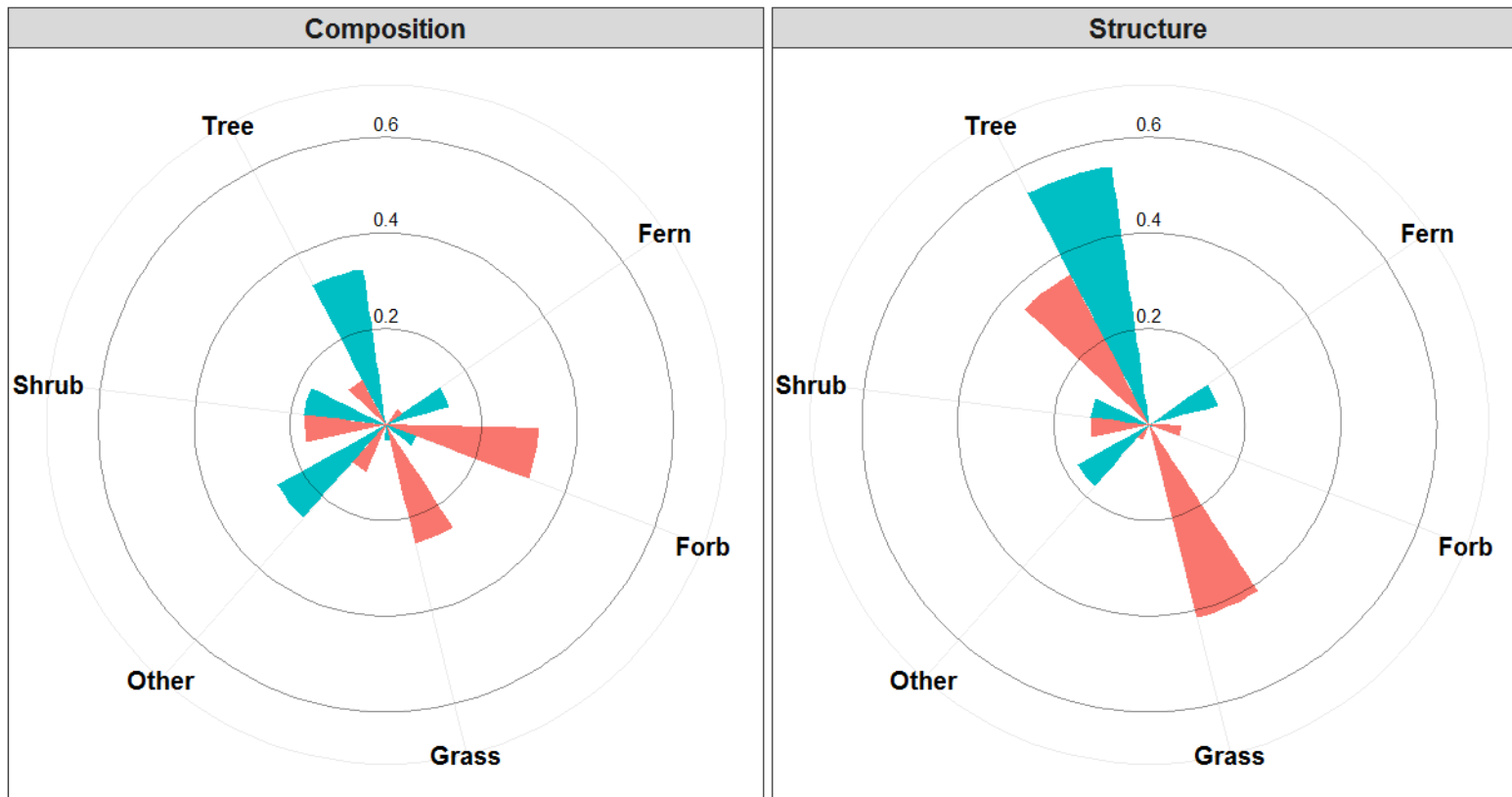
### Dynamic Weighting of Growth Forms

- Character of the vegetation (benchmark) drives the weights
- Applies equally to growth form group cover and richness
- Hypothetical example

| <i>STRUCTURE (cover)</i>            | <i>Benchmark value</i> | <i>Dynamic weight</i> |
|-------------------------------------|------------------------|-----------------------|
| <i>Tree cover</i>                   | 25 %                   | $25/115 = 0.22$       |
| <i>Shrub cover</i>                  | 5 %                    | $5/115 = 0.04$        |
| <i>Grass &amp; grass-like cover</i> | 70 %                   | $70/115 = 0.61$       |
| <i>Forb cover</i>                   | 10 %                   | $10/115 = 0.09$       |
| <i>Fern cover</i>                   | 2 %                    | $2/115 = 0.02$        |
| <i>Other cover</i>                  | 3 %                    | $3/115 = 0.03$        |
| <b>TOTAL</b>                        | <b>115 %</b>           | <b>~ 1.00</b>         |



## Vegetation Integrity – Composition and Structure Scoring Dynamic Weighting of Growth Forms



BAMC

BAM Calculator | lmbc.nsw.gov.au/bamcalc

### Plant community types (PCT) & ecological communities

| Formation *      | Class *                         | Plant community type *  | PCT % cleared | Associated TEC * | BC Act listing status | EPBC Act listing status | Action | Delete |
|------------------|---------------------------------|---|---------------|------------------|-----------------------|-------------------------|--------|--------|
| Grassy Woodlands | Coastal Valley Grassy Woodlands | 1604 - Narrow-leaved Ironbark - Grey Box - Spotted Gum shrub - grass woodland of the central and lower Hunter | 71            | Central Hunter   | Endangered            | Critically              |        |        |

### Vegetation zones (Current vegetation integrity)

| # | Import                                | PCT code | Condition class * | Vegetation zone name | Area (ha) | Composition score | Structure score | Function score | Vegetation integrity (VI) score | Change in VI score | Total Change in VI score |
|---|---------------------------------------|----------|-------------------|----------------------|-----------|-------------------|-----------------|----------------|---------------------------------|--------------------|--------------------------|
| 1 | <input type="button" value="Import"/> | 1604     | modera            | 1604_moderate        | 10        | 10                | 48              | 55.2           | 67                              | 56.2               |                          |

#### Zone structure data

Structure condition score: 55.2

Plots | Calculation results


| Item   | Tree* | Shrub* | Grass & grass like* | Forb* | Fern* | Other* |
|--------|-------|--------|---------------------|-------|-------|--------|
| Plot 1 | 10    | 10     | 50                  | 5     | 0.3   | 0.1    |
| Plot 2 |       |        |                     |       |       |        |
| Plot 3 |       |        |                     |       |       |        |

### Vegetation zones (Future vegetation integrity score)

| # | PCT code | Condition class | Vegetation zone name | Patch Size | Management zone | Area (ha) | Composition score | Structure score | Function score | Vegetation integrity (VI) score | Change in VI score | Total Change in VI score |
|---|----------|-----------------|----------------------|------------|-----------------|-----------|-------------------|-----------------|----------------|---------------------------------|--------------------|--------------------------|
| 1 | 1604     | moderate        | 1604_moderate        | 10         |                 | 10        | 0                 | 0               | 0              | 0                               | -56.2              | -56.2                    |

Windows Taskbar: 2:54 PM 15/10/2019

BAMC



BAM Calculator

lmbc.nsw.gov.au/bamcalc

### Plant community types (PCT) & ecological communities

| Formation *      | Class *                            | Plant community type *  | PCT |
|------------------|------------------------------------|---|-----|
| Grassy Woodlands | Coastal Valley<br>Grassy Woodlands | 1604 - Narrow-leaved Ironbark - Grey Box - Spotted Gum shrub - grass woodland of the central and lower Hunter | 71  |

ADD ANOTHER PCT
SEARCH PCT OUTSIDE IBRA

IMPORT SITE

Vegetation zones (Current vegetation integrity)

| # | Import | PCT code | Condition class * | Vegetation zone name |
|---|--------|----------|-------------------|----------------------|
| 1 |        | 1604     | modera            | 1604_moderate        |

10

10

48

55.2

67

56.2

Vegetation zones (Future vegetation integrity score)

| # | PCT code | Condition class | Vegetation zone name | Patch Size | Management zone | Area (ha) | Composition condition score | Structure condition score | Function condition score | Vegetation integrity (VI) score | Change in VI score | Total Change in VI score |
|---|----------|-----------------|----------------------|------------|-----------------|-----------|-----------------------------|---------------------------|--------------------------|---------------------------------|--------------------|--------------------------|
| 1 | 1604     | moderate        | 1604_moderate        | 10         |                 | 10        | 0                           | 0                         | 0                        | 0                               | -56.2              | -56.2                    |

#### Zone structure data

RECALCULATE
OK

Structure condition score: 55.2

Plots
Calculation results

| Item   | Tree | Shrub | Grass & grass like | Forb | Fern | Other |
|--|------|-------|--------------------|------|------|-------|
| Benchmark                                      | 52   | 18    | 61                 | 10   | 1    | 5     |
| Observed mean ( $\bar{x}$ )                    | 10   | 10    | 50                 | 5    | 0.3  | 0.1   |
| Unweighted structure score (USS <sub>i</sub> ) | 7.8  | 68.8  | 95.9               | 59.1 | 22   | 0     |
| Weighted structure score (WSS <sub>i</sub> )   | 2.8  | 8.4   | 39.8               | 4    | 0.1  | 0     |
| Dynamic weighting (w <sub>i</sub> )            | 0.35 | 0.12  | 0.41               | 0.07 | 0.01 | 0.03  |



## Vegetation Integrity – Function Attributes

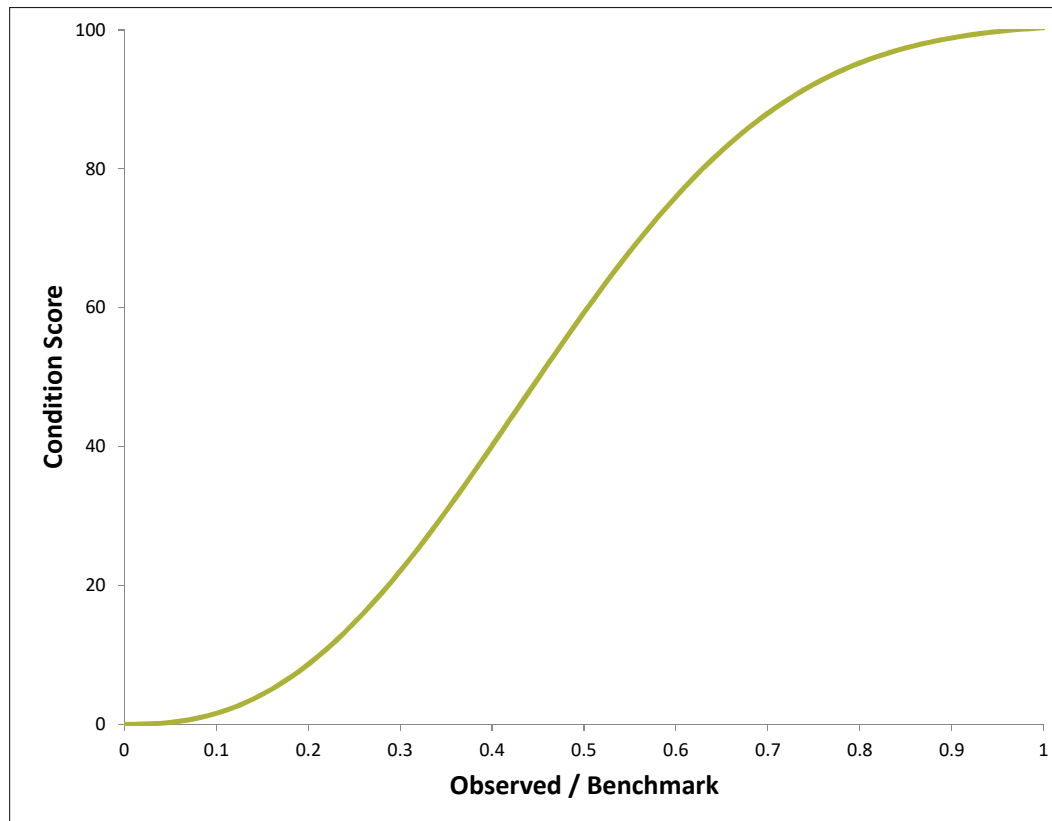
| Function<br>(woody systems only) | Benchmarked | Static weight |
|----------------------------------|-------------|---------------|
| Number of large trees            | Yes         | 0.35          |
| Total length of logs             | Yes         | 0.20          |
| Litter cover                     | Yes         | 0.15          |
| Tree stem-size diversity         | No          | 0.15          |
| Tree regeneration                | No          | 0.15          |

- NOTE: large trees replace trees with hollows
- Exotic cover not included in current condition assessment





## Scoring of all attributes



- Continuous non-linear
- Maximises discrimination between sites
- Avoids sharp thresholds
- Range of natural variability



# Vegetation Condition Benchmarks



## **BAM Vegetation Condition Benchmarks: a paradigm shift**

### **Pre BAM and elsewhere**

- Pre-European, pre-clearing, long-undisturbed, minimally or least disturbed
- Generally unknowable due to lack of long-term disturbance data
- Often expert derived – not transparent or easily updateable
- Potentially unachievable in contemporary landscapes
- Focus on minimal disturbance not maximum biodiversity conservation outcomes

### **BAM**

- Does not explicitly consider disturbance history for benchmark development
- Focus on maximum biodiversity conservation outcomes
- “Best-on-offer” in contemporary landscape

**Best-On-Offer - sites within the contemporary landscape with higher numbers of native plant species, greater structural complexity and replete with functional components, relative to other sites of the same vegetation type within the same bioregion**

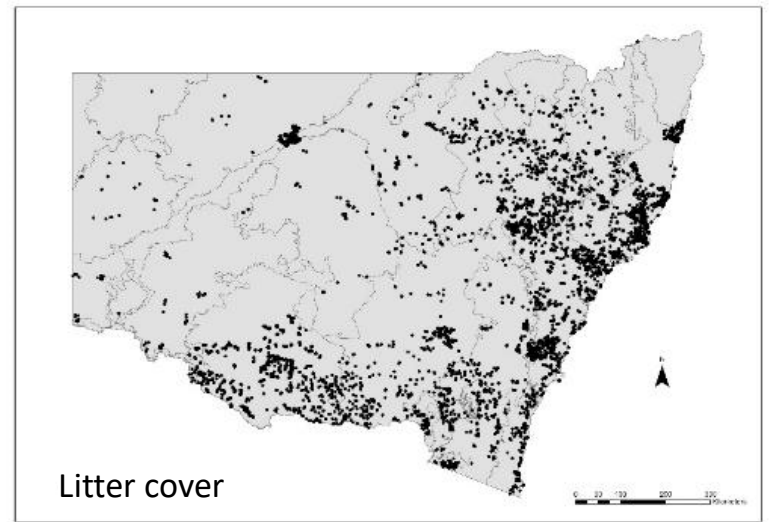
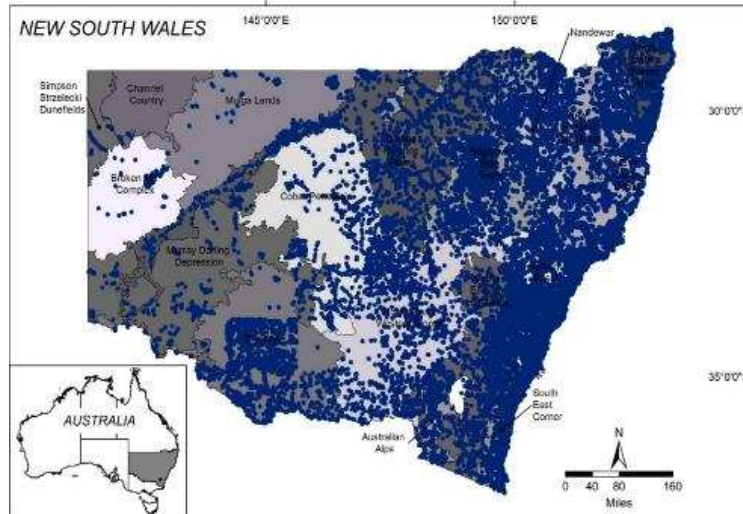


**BOO enables data-driven benchmarks**

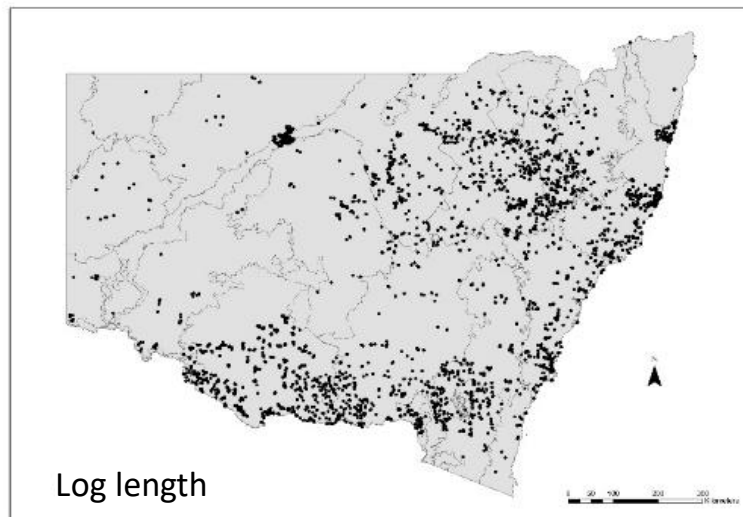
Comp & Struct > 36,000 plot surveys

Function > 39,000 records

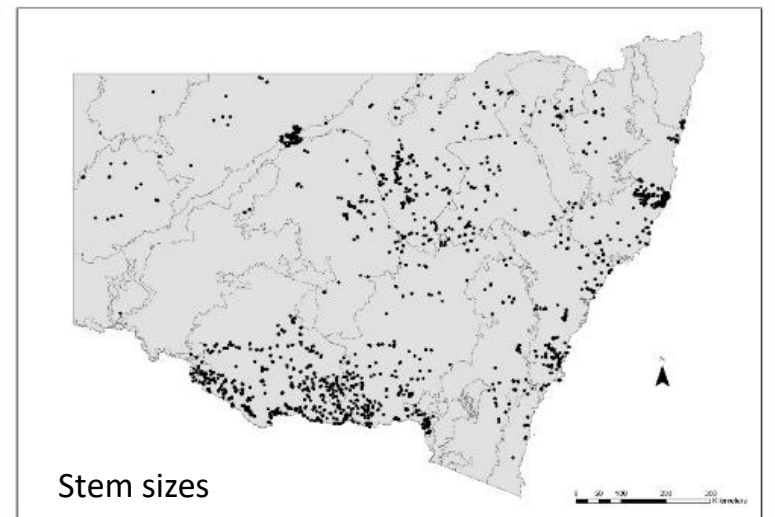
~ 650 Regional Vegetation Class BOO benchmarks



Litter cover



Log length

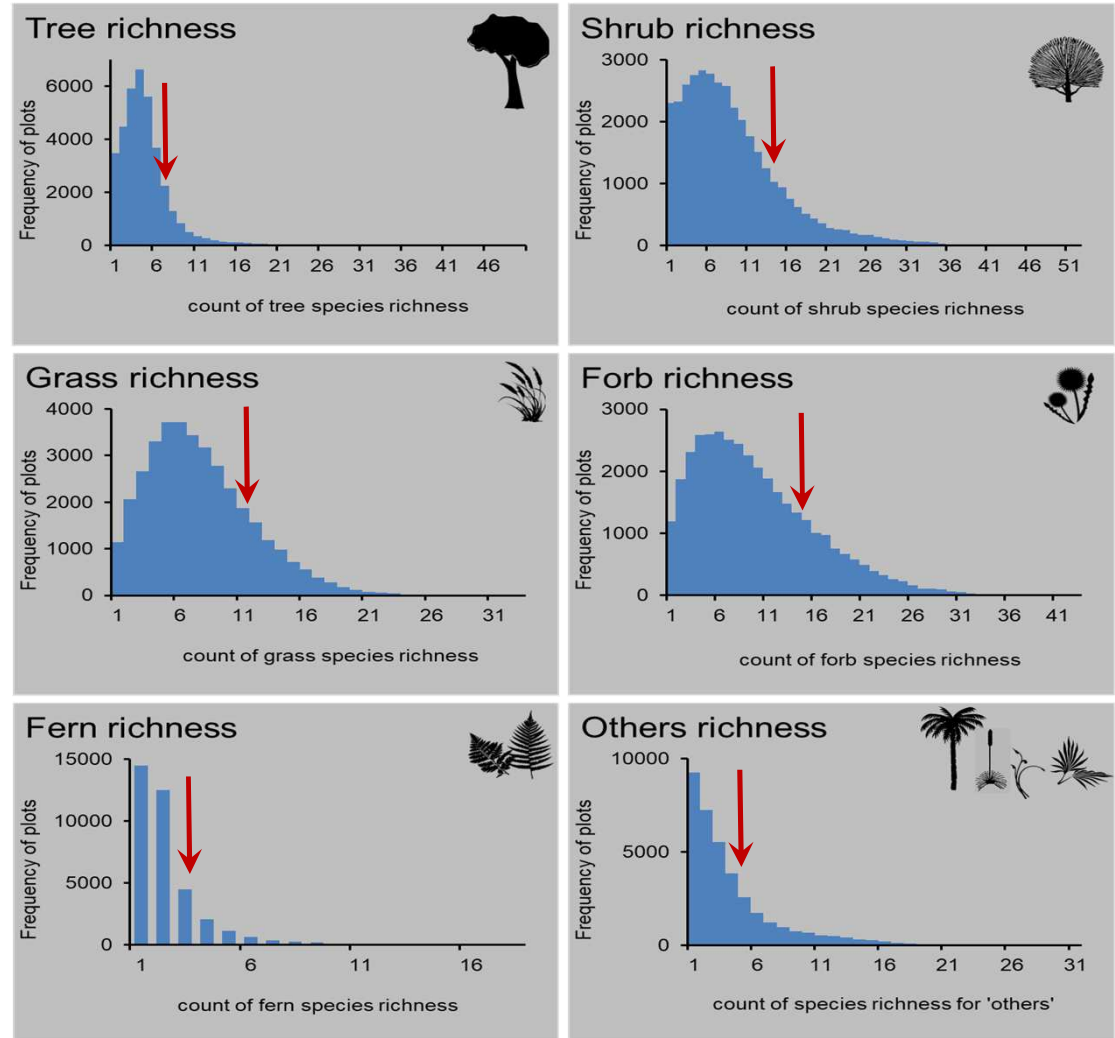


Stem sizes



## Transparent, repeatable data-driven best-on-offer benchmarks

- Oliver et al. (2019b)<sup>5</sup>
- Yen et al. (2019)<sup>6</sup>
- Approximate the 75<sup>th</sup> percentile of observed data
- Available now – assume average rainfall conditions (50<sup>th</sup> rainfall percentile, median)
- Available soon –
  - Dry (< 10<sup>th</sup> rainfall percentile)
  - Wet (> 90<sup>th</sup> rainfall percentile)





## Vegetation Benchmarks Webpages



HOME

TOPICS

RESEARCH & PUBLICATIONS

FUNDING & SUPPORT

LICENCES & PERMITS

ABOUT US



### Native vegetation

Landholders

Local Land Services

Importance of native vegetation

Clearing with self-assessable codes

Property vegetation plans

Compliance and enforcement



Native Vegetation Act 2003 public register



Native Vegetation Act

Native vegetation reports and resources



### Vegetation Condition Benchmarks

Topics > Animals and plants > Native vegetation  
> Vegetation Condition Benchmarks



## Vegetation Condition Benchmarks

Vegetation Condition Benchmarks are maintained within the BioNet Vegetation Classification data collection. Benchmarks are derived from the analysis of vegetation survey plot data.

Vegetation Condition Benchmarks describe the reference state to which sites are compared to score their site-scale biodiversity values or set goals for management or restoration. The 3 primary attributes of biodiversity; composition, structure and function are described by benchmarks. When scores for composition, structure and function are combined into a vegetation integrity score, they provide the rigour and transparency needed to make site-scaled comparisons of biodiversity values to inform natural resource management decision making tools such as the **Biodiversity Assessment Method (BAM)**.

A vegetation integrity score represents the degree to which the composition, structure and function of the vegetation type at a site differs from the best-on-offer condition. Best-on-offer sites are those sites

### Contact us

Department of Planning, Industry and Environment

1300 361 967

Email

Online

### Release Notes

June 2019 (Benchmarks V1.2)

September 2018



## Bionet

### V1.2 benchmarks

- revised
- Minimal change Comp & Struct
- Some larger changes for Function

### NEW Confidence

- Comp – H
- Struct – M, L
- Funct – VH – VL
- Consult prior to assessment for local benchmark consideration

23



## Plant community

### View plant community

Use this page to view a vegetation community.

Print PCT

PCTID : 564    VCAID : 564    **Common name (community)** : White Cypress Pine - Silver-leaved Ironbark - Caley's Ironbark open forest of the central Nandewar Bioregion and western New England Tableland Bioregion

**Classification Type** : Qualitative

**PCT Definition Status** : Approved    **PCT Benchmark Calculation level** : Class/IBRA    **Status** : 3 out of 3 IBRA regions Approved

**PCT % Cleared Status** : Approved    **PCT Threatened Ecological Communities Association Status** : 13/08/2010

**Classification confidence level** : 2 High

**Authority** : VCA 1.1 - archive

**Tool Ready** : Yes

|                              |                        |                          |        |  |                     |                  |                    |
|------------------------------|------------------------|--------------------------|--------|--|---------------------|------------------|--------------------|
| Vegetation community details | Scientific description | Distribution information | Extent | Threatened Biodiversity, TECs & Benchmarks | Spatial information | Image management | Status and lineage |
|------------------------------|------------------------|--------------------------|--------|--|---------------------|------------------|--------------------|

### Threatened Biodiversity

### Community Condition Benchmarks

| Vegetation Class              | North-west Slopes Dry Sclerophyll Woodlands | North-west Slopes Dry Sclerophyll Woodlands | North-west Slopes Dry Sclerophyll Woodlands |
|-------------------------------|---|---|---|
| IBRA                          | New England Tablelands                      | Nandewar                                    | Brigalow Belt South                         |
| Benchmark Calculation Level   | Class/IBRA                                  | Class/IBRA                                  | Class/IBRA                                  |
| Tree Richness                 | 6   | 5   | 5   |
| Shrub Richness                | 9   | 7   | 8   |
| Grass and Grass Like Richness | 11  | 10  | 9   |
| Forb Richness                 | 13  | 13  | 12  |
| Fern Richness                 | 2   | 2   | 1   |
| Other Richness                | 4   | 4   | 3   |
| Tree Cover                    | 61.0  | 54.0  | 60.0  |
| Shrub Cover                   | 19.0  | 21.0  | 22.0  |
| Grass and Grass Like Cover    | 59.0  | 38.0  | 30.0  |

**Benchmark Confidence**    Composition: High | Structure: Moderate | Function: Logs-High; Litter-High; Large Trees-Low    Composition: High | Structure: Moderate | Function: Logs-High; Litter-High; Large Trees-Low    Composition: High | Structure: Moderate | Function: Logs-High; Litter-High; Large Trees-Low



## Local Benchmarks (Appendix A Revised BAM)

# Appendix A: Guidelines for collecting benchmark data from local reference sites or published sources

## A.1 When may local benchmark data be appropriate?

When the assessor considers that the local data better reflect the local conditions.

Benchmark data from local reference sites may be used when:

- a. existing benchmark confidence is low for an attribute, or suite of attributes; or
- b. local data better reflect the local environmental conditions, or
- c. benchmarks at the Class by IBRA level are demonstrably unsuitable for the PCT.

need written permission from consent authority so discuss early in the assessment process





## Local Benchmarks (Appendix A Revised BAM)

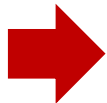
### A.2 How do you locate best-on-offer reference sites?

- Must be the same Plant Community Type
- Must satisfy the definition of “best-on-offer” in the current landscape
  - Must have high numbers of native plant species within growth form groups
  - Must have high summed foliage cover of growth form groups
  - Must have high values of function values, relative to other sites in the same PCT
- Must sample multiple sites to calculate local best-on-offer benchmarks



## References and Resources

- <sup>1</sup> GIBOP (2019) Global inventory of biodiversity offset policies. International Union for the Conservation of Nature. The Biodiversity Consultancy, Durrell Institute of Conservation and Ecology. <https://portals.iucn.org/offsetpolicy/>.
- <sup>2</sup> Parkes D, Newell G, Cheal D. (2003) Assessing the quality of native vegetation: the 'habitat hectares' approach. *Ecological Management & Restoration*, 4, S29-38.
- <sup>3</sup> Noss R. (1990) Indicators for monitoring biodiversity: a hierarchical approach. *Conservation Biology*, 4, 355-364.
- <sup>4</sup> Oliver I, McNellie MJ, Steenbeeke G, Copeland L, Porteners MF, Wall J. (2019a) Expert allocation of primary growth form to the New South Wales flora underpins the biodiversity assessment method. *Australasian Journal of Environmental Management*, 26, 124-136, <https://doi.org/10.1080/14486563.2019.1595186>.
- <sup>5</sup> Oliver I, Dorrrough J, Yen JDL, McNellie MJ and Watson CJ (2019b) Native Vegetation Integrity Benchmarks: Technical details supporting Static Benchmarks June 2019 (Version 1.2). Department of Planning, Industry and Environment, Sydney. <https://www.environment.nsw.gov.au/research-and-publications/publications-search/native-vegetation-integrity-benchmarks-technical-details>
- <sup>6</sup> Yen JD, Dorrrough J, Oliver I, Somerville M, McNellie MJ, Watson CJ, Vesk PA. (2019) Modeling biodiversity benchmarks in variable environments. *Ecological Applications*, <https://doi.org/10.1002/eap.1970>.



### **Vegetation Benchmarks Pages**

<https://www.environment.nsw.gov.au/topics/animals-and-plants/native-vegetation/vegetation-condition-benchmarks>

### **Bionet Benchmarks**

<https://www.environment.nsw.gov.au/research/Visclassification.htm>



## Native tree richness in Grassy Woodlands

Benchmark = 5

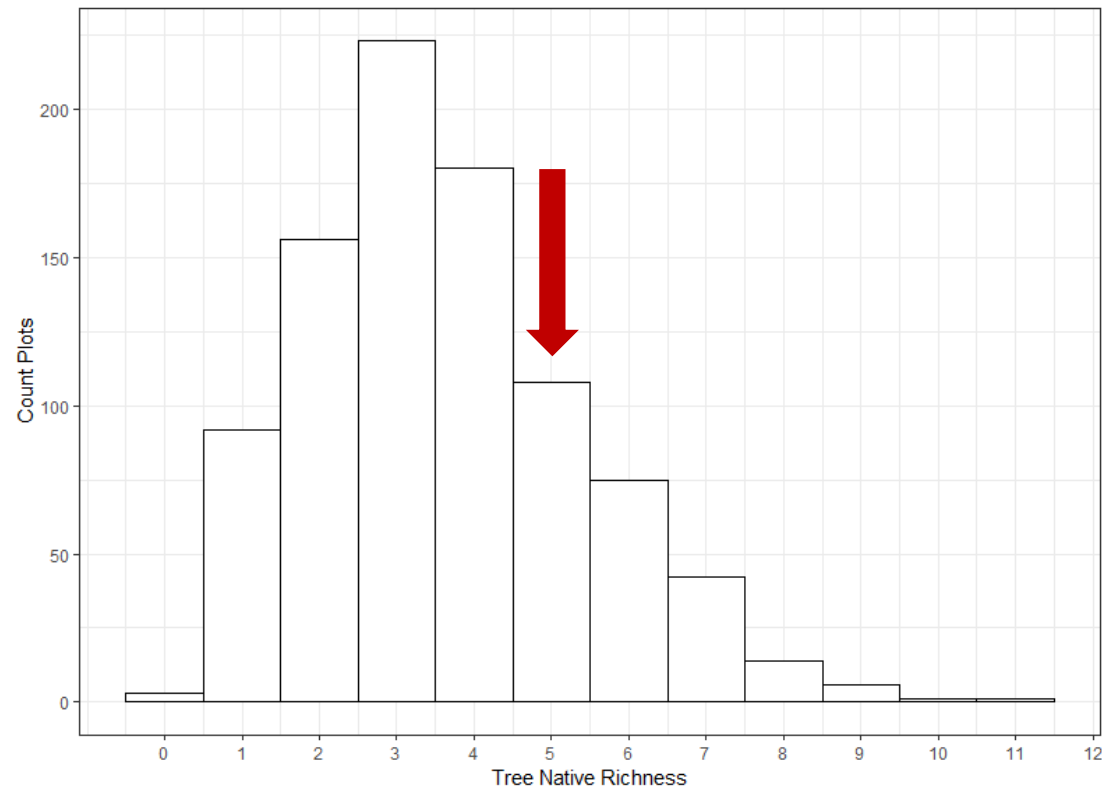
901 20m x 20m plots drawn from Bionet

### Question:

How do the benchmarks account for having the total number of species for the Growth Form Group across a vegetation zone when only recording the total number of species per plot?

For example, if the Tree GFG benchmark is 5 species for a grassy woodland PCT, and you have all those 5 species across all your plots but not at any single plot?

In a grassy woodland, you are unlikely to be able to get all 5 tree species in a 20 m x 20 m plot.





# Q&A

This session will not be included in the webinar recording.

Important and frequently asked questions will contribute to the development of the [Assessor Q&A page](#), future webinars and other BOS support resources.



# Thank you for your participation

Webinar recordings will be available to view online on the BOS Vimeo Showcase at [vimeo.com/showcase/6271450](https://vimeo.com/showcase/6271450) and via the [BAM Support Webinar webpage](#)

Contact us at [www.environment.nsw.gov.au/biodiversity/bos-help-advice](http://www.environment.nsw.gov.au/biodiversity/bos-help-advice)