

Important information is contained in the 'red box' tips throughout this document, please take note of these.

**DEPARTMENT OF PLANNING, INDUSTRY & ENVIRONMENT** 

### Release notes: October 2020 Enhancements to the BAM Calculator based on the revised BAM 2020 & endorsement of BOS by the Commonwealth

A description of the changes to the BAM Calculator following publication of the revised BAM on 22 Octoberber 2020. Information for Accredited Assessors



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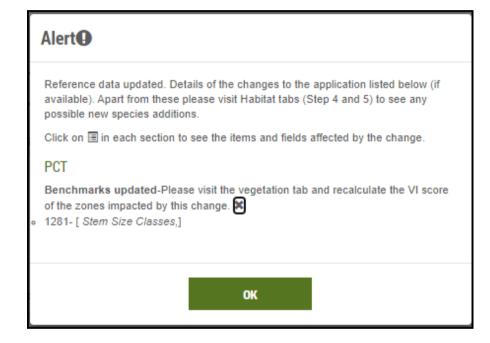
### Alert: Opening a case

Before opening the BAM-C after the update,
 please clear your internet browser cache.

Many of the enhancements will not display until the cache has been cleared. Instructions can be found at <a href="https://www.digitaltrends.com/computing/how-to-clear-your-browser-cache/">www.digitaltrends.com/computing/how-to-clear-your-browser-cache/</a>.

If an assessor opens an in-progress case in the BAM-C for the first time after data has been updated, they are likely to receive an alert indicating reference data has been updated.

The information in the message will indicate what data has been updated by the import.

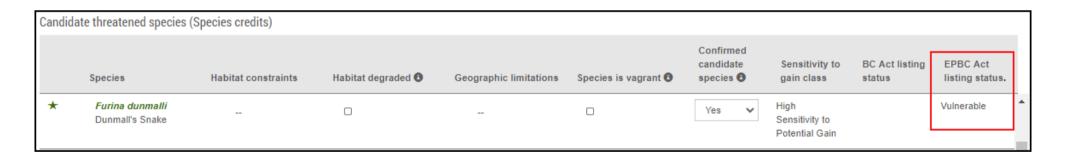


√ Take a screenshot of any alert for future reference.
 Alerts will not display once the case has been saved.



## Inclusion of species listed on EPBC Act

- The Commonwealth has formally endorsed the BOS, assessment bilateral is in place;
- The BAM-C has been updated to allow assessment of EPBC Act only species;
- Species will be progressively added as data is compiled;
- TECs only listed under the EPBC Act are expected to be available in BAM-C later in the year. In the interim, assessors will need to engage with DAWE;
- Recommend early engagement with DAWE for proposals that impact on species only listed under the EPBC Act.





# **Enhancements: Development Applications**

### Summary:

- Changes to Offset Trading Tiers;
- Scattered Tree Module Renamed from Paddock Tree Module;
- Scattered Tree Module Change to the definition of 'Scattered Trees'.



## Offset Trading Group – adjustment of tiers

#### BAM 2017.

Threat status group	Offset trading group tiers for ecosystem credits
	Tier 1: Name of the critically endangered ecological community
Very high threat status High threat status	Tier 2: PCTs in the same vegetation class with a percent cleared value ≥90%
	(being the name of the vegetation class – percent cleared value ≥90%)
	Tier 3: Name of the endangered ecological community
High threat status	Tier 4: PCTs in the same vegetation class with a percent cleared value ≥70% and <90% (being the name of the vegetation class – percent cleared value ≥70% and <90%)
Moderate threat status	Tier 5: Name of the vulnerable ecological community
	Tier 6: PCTs in the same vegetation class with a percent cleared value 250% and <70%
	(being the name of the vegetation class – percent cleared value ≥50% and <70%)
Low threat status	Tier 7: PCTs in the same vegetation class with a percent cleared value <50% (being the name of the vegetation class – percent cleared value <50%)

BAM 2020.

Table 5 Offset trading groups for non-threatened plant community types Threat status group Offset trading group tiers for ecosystem credits Very high threat status Tier 1: PCTs in the same vegetation class with a percentage ceared value ≥90% (being the name of the vegetation class – percentage cleared value ≥90%) Tier 2: PCTs in the same veg High threat status Offset trading groups for threatened ecological communities cleared value ≥70% and <909 vegetation class - percentag Threat status Offset trading group name for ecosystem credits Critically endangered ecological Name of the critically endangered ecological community Tier 3: PCTs in the same veg Moderate threat status community percentage c eared value ≥50 name of the vegetation class Endangered ecological community Name of the endangered ecological community ≥50% and <70%) Tier 4: PCTs in the same veg Low threat status Vulnerable ecological community Name of the vulnerable ecological community percentage c eared value <50 vegetation class – percentage

TEC offset trading groups removed from tier structure.

Minor updates to the Credit Classes tab.

Credit classes for 850					
Like-for-like options					
TEC			нвт	Credits	IBRA region
Cumberland Plain Woodland in the Sydney Basin Bioregion			Yes	10	Cumberland , Burragorang, Pittwater, Sydney Cataract, Wollemi and Yengo.
This includes PCT's:					or
849, 850					Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Cumberland Plain Woodland in the Sydney Basin Bioregion			Yes	14	Cumberland , Burragorang, Pittwater, Sydney Cataract, Wollemi and Yengo.
This includes PCT's: 849, 850					or  Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
649, 650					Any IDRA subregion that is within 100 knometers of the outer edge of the impacted site.
Credit classes for 850 Like-for-like options					
Class		Trading group	нвт	Credits	IBRA region
Coastal Valley Grassy Woodlands This includes PCT's: 116, 618, 760, 761, 762, 830, 834, 838, 849, 850, 1326, 1395, 1603, 1604, 1691		Coastal Valley Grassy Woodlands - ≥ 70% -	Yes	18	Cumberland , Burragorang, Pittwater, Sydney Cataract, Wollemi and Yengo.
		<90% cleared group (including Tier 2 or			Or
110, 010, 700, 701, 702, 030, 634, 838, 849, 850, 1326, 1395, 16	higher threat status).			Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
Coastal Valley Grassy Woodlands	Coastal Valley Grassy Woodlands - ≥ 70% -	Yes	24	Cumberland , Burragorang, Pittwater, Sydney Cataract, Wollemi and Yengo.	
This includes PCT's:	<90% cleared group (including Tier 2 or			or	
116, 618, 760, 761, 762, 830, 834, 838, 849, 850, 1326, 1395, 16	higher threat status).			Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	



### **Scattered Tree Assessments**

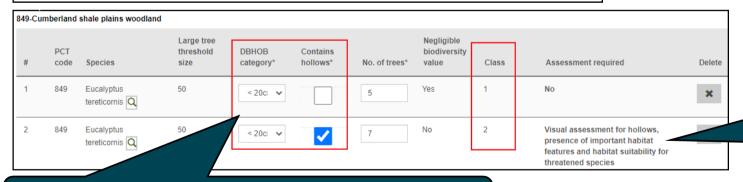
#### B.1 Scattered trees

Scattered trees are defined as species listed in the tree growth form group that:

- a. have a percent foliage cover that is less than 25% of the benchmark for tree cover for the most likely plant community type and are on category 2-regulated land and surrounded by category 1-exempt land on the Native Vegetation Regulatory Map under the LLS Act, or
- b. have a DBH of greater than or equal to 5 cm and are located more than 50 m away from any living tree that is greater than or equal to 5 cm DBH, and the land between the scattered trees is comprised of vegetation that are all ground cover species on the widely cultivated native species list, or exotic species or human-made surfaces or bare ground, or
- c. are three or fewer trees that have a DBH of greater than or equal to 5 cm and are within a distance of 50 m of each other, that in turn, are greater than 50 m away from the nearest living tree that is greater than or equal to 5 cm DBH, and the land between the scattered trees is comprised of vegetation that are all ground cover species on the widely cultivated native species list, or exotic species or human-made surfaces or bare ground.

The definition has been updated:

- Trees with a DBH ≥5 cm must be assessed;
- All native vegetation including ground cover, around/between the trees, must be on the widely cultivated native species list;
- Ground cover may also be 100% exotic, human-made or bare ground;
   Assessments that don't meet these rules must use another BAM module.



Trees <20 cm DBH that contain hollows are now classified as Class 2 trees and require assessment.

Different PCT groups can be created for trees <20 cm without hollows and <20 cm with hollows.



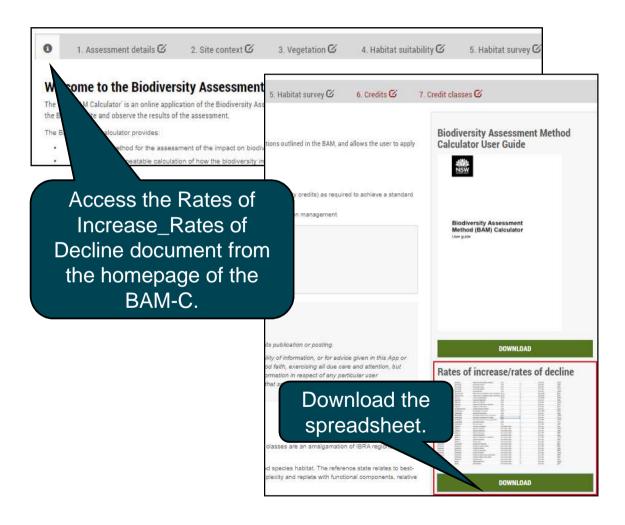
## Amendments to the stewardship module

### Summary:

- Amendments to values for annual rate of decline;
- Changes to the categorisation of 'High risk land';
- Inclusion of intrinsic rate of gain to 'Other GFG', large trees and stem size class attributes;
- Option to reduce high threat weed cover, where the weeds are deemed 'manageable' with active restoration management actions.



### Intrinsic rate of increase & annual rate of decline



### Changes to Increase and Decline.

Туре	ype Field		BAM 2017	BAM 2020	
Rate of gain — with	Composition	Other	0	0.03	
	Structure	Other	0	0.06	
		No. large trees	0	0.02	
Management	Function	Stem size	0	0.06	
		classes			
	Composition	All attributes	0-0.05	0.15	
	Composition	All attributes	0.05	0.15	
		except tree	0.03	0.13	
	Structure	cover			
Rate of decline –		Tree cover	0.25	0.25	
without		Litter cover,	0.23	0.15	
management		tree regen,	0	0.13	
(Low Risk Land)		stem size			
	Function	classes			
		No. large trees	0.5	0.5	
		Length of	0.25	0.25	
		fallen logs	0.23	0.23	
	Composition	All attributes	0-0.1	0.3	
		All attributes	0.1	0.3	
	Structure	except tree			
	Structure	cover			
Rate of decline –		Tree cover	0.5	0.5	
without management (High Risk Land)		Litter cover,	0	0.3	
	Function	tree regen,			
		stem size			
		classes			
		No. large trees	1	1	
		Length of	0.5	0.5	
		fallen logs			



## Changes to the categorisation of 'High Risk' Land

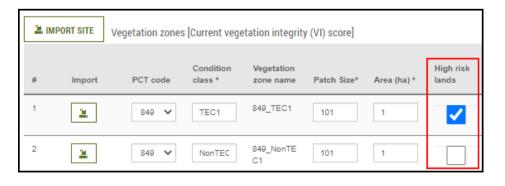
Three new categories of land considered to be at high risk of decline.

### **New proposals in BAM-C:**

 BAM-C will automatically tick the High Risk land box for proposals within NSW (Mitchell) Landscape that is ≥30% cleared, or vegetation that is an endangered or critically endangered TEC.

#### **Existing proposals in BAM-C:**

- Assessors will need to manually assess vegetation zones against the new criteria;
- Check (and tick if appropriate) zones.



#### BAM 2017.

Native vegetation that has a high risk of decline in vegetation integrity score is on:

- (a) land identified as Category 1-exempt land on the native vegetation regulatory map published under Part 5A of the Local Land Services Act 2013, or
- (b) lands that were or are zoned for residential (including rural residential), business or industrial uses in a local environmental plan (LEP) prior to the development of a Standard Instrument LEP (in accordance with the Standard Instrument (LEP) Order 2006), or
- (c) land that is zoned RU1 (Primary production).

#### BAM 2020.

Native vegetation that has a high risk of decline in vegetation integrity is on land that, at the time the application for a biodiversity stewardship agreement is made:

- a. is identified as category 1-exempt land on the native vegetation regulatory map published under Part 5A of the LLS Act (in the absence of the Native Vegetation Regulatory Maps the assessor will be required to identify lands as category 1exempt land or category 2-regulated land by applying the definitions in the LLS Act, with support from Local Land Services), or
- b. is zoned for residential (including rural residential), business or industrial uses in a local environmental plan, or
- is zoned RU1 (primary production) or RU2 (rural landscape) or RU4 (primary production small lots), or
- d. is located in a NSW (Mitchell) landscape that is ≥30% cleared, or
- the proposed biodiversity stewardship site adjoins urban or industrial development (or future urban development) if the proposed biodiversity stewardship agreement is part of the biodiversity certification proposal, or
- f. the native vegetation is listed as an endangered or critically endangered community.



# Manageable high threat weeds (HTW)

BAM 2020 allows for an assessor to remove or reduce the effect of the HTW modifier, but:

- Limited to suite of HTW that can managed;
- Management plan must set out appropriate techniques and effort:
- Some HTW will not be on the manageable weed list, as they are deemed unmanageable under normal weed control measures. The HTW cover should not be reduced for these species.

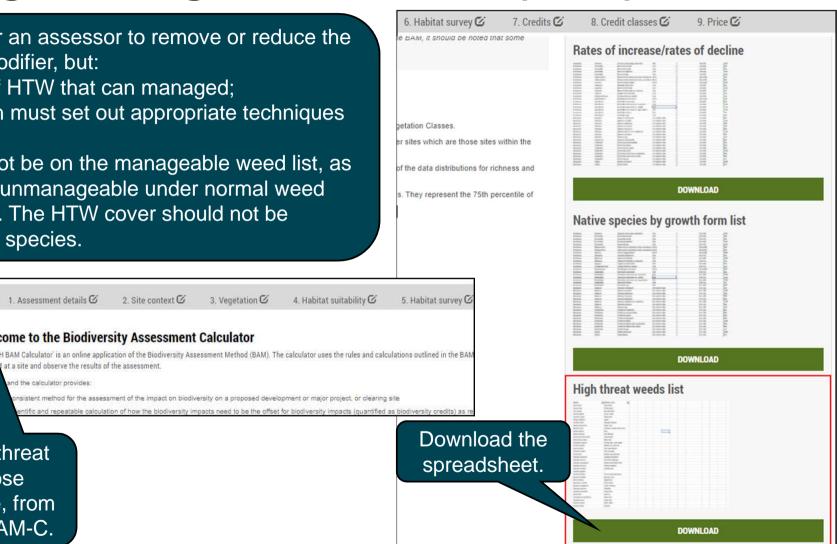
at a site and observe the results of the assessment

2. Site context &

Icome to the Biodiversity Assessment Calculator

3. Vegetation &

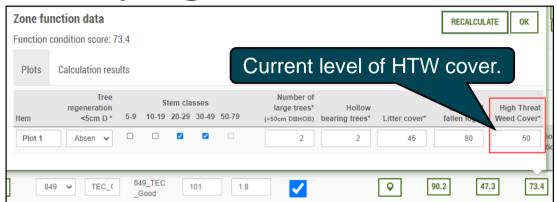
1. Assessment details &



Access the list of high threat weeds, including those classed as manageable, from the homepage of the BAM-C.

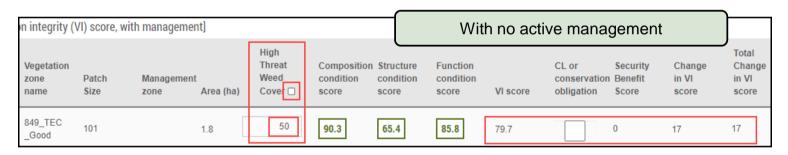


# Modifying an assessment for manageable HTW



A new field will populate the level of HTW cover for each zone. This allows an assessor to unlock the field and edit the percent of HTW cover.

When applied, the future VI score is calculated based on the revised HTW figure.



n integrity (VI) score, with management]							With active management					
Vegetation zone name	Patch Size	Management zone	t Area (ha)	High Threat Weed Cove ☑	Composition condition score	Structure condition score	Function condition score	VI score	CL or conservation obligation	Security Benefit Score	Change in VI score	Total Change in VI score
849_TEC _Good	101		1.8	5	96.3	93.1	90.9	93.4		0	30.7	30.7



Assessor resources and contacts for support include:

- DPIE webpages:
  - · Revised Biodiversity Assessment Method;
  - Accredited assessors website:
    - <u>Assessor resources</u> (links to legislation, databases, manuals and guidelines, assessor correspondence);
    - Assessor frequently asked questions;
    - BAM support webinars;
  - Serious and Irreversible Impacts (SAII) guidance and list of entities at risk;
  - <u>Threatened species profile</u> search;
  - Saving our Species (SoS) program;
  - NSW Scientific Committee <u>Determinations</u>;
- <u>EPBC profile</u> database (species and ecological communities);
- <u>PlantNet</u> (NSW flora online);
- NSW government <u>SEED</u> database (publicly available environmental data);
- BAM Support Mailbox.

If you have any questions, feedback or issues as a result of the release of BAM 2020 or the update to the BAM-C, please contact us at bam.support@environment.nsw.gov.au.