Threatened Fauna Adviser 2014 User Manual



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March 2014



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Background1
Using the Threatened Fauna Adviser 2
Running a Threatened Fauna Adviser session
Step 1: Identifying species, range and habitat
Step 2: Obtaining a recommendation 4
Step 3: Apply the recommendation
Function buttons
Exit button
Help button
Back button
Continue button
Same operation different species button9
Print button
OK button
Feedback
Appendix 1: Abbreviations10

Background

The Threatened Fauna Adviser (TFA) is a decision-support tool intended for use by those conducting biodiversity evaluations as part of the development of forest practices plans (FPPs) for activities covered by the Tasmanian forest practices system in accordance with the procedures for the management of threatened species agreed between the Department of Primary Industries, Parks, Water & Environment (DPIPWE) and the Forest Practices Authority (FPA), under section D3.3 of the *Forest Practices Code* (for a full copy of the 'agreed procedures', follow this link).

The primary objective for the management of threatened species in areas covered by the forest practices system is to contribute to the maintenance of habitat and populations of threatened species throughout their ranges and over time. The TFA provides the planner with recommended management actions (recommendations) to incorporate into FPPs for specific forestry operations.

Recommendations are provided for species currently listed as threatened on the Tasmanian *Threatened Species Protection Act 1995* and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* that are considered to be affected by activities covered by the Tasmanian forest practices system. The recommended actions are based on current knowledge and expert opinion and they may change as new information becomes available. The recommended actions for individual species are to be applied unless alternative management actions are accepted by the FPA in consultation with DPIPWE as a way of meeting the management objective for the species.

The management of threatened species under the *Forest Practices Code* is part of a broader legal and policy framework for the conservation of threatened species. The code defines the contribution that landowners should make to the conservation of non-wood values by way of a prescribed 'duty of care'. The recommended actions under the TFA and other relevant planning tools are to be individually and collectively integrated and prioritised during the planning process by Forest Practices Officers to ensure that the most effective and practical outcomes are achieved within the duty of care thresholds of the code. The management of values beyond the duty of care thresholds in the code can only be achieved through voluntary agreement with the landowner or through other legislative mechanisms. The *Nature Conservation Act 2002* provides that affected landowners may apply for compensation where the FPA has made a decision with respect to a forest practices plan that imposes constraints beyond the duty of care for threatened species or threatened native vegetation communities.

The TFA captures current scientific and expert knowledge with respect to each species. It may be updated in accordance with the agreed procedures. Forest Practices Officers and forest managers will be informed of substantial changes to the TFA (e.g. new species, changes to decision-pathways and recommendations) but not of minor changes (e.g. typographic corrections).

The TFA was first developed during the late 1990s/early 2000s. The first fully endorsed version was released on 13 March 2002. The current version wholly replaces the 2002 version, and should be referred to as the 2014 version (the year in which it was endorsed for use by the Board of the Forest Practices Authority and DPIPWE).

See the Acknowledgments link in the online help file for a list of the people involved in developing the current version of the TFA.

Using the Threatened Fauna Adviser

The TFA is a web-based system and will run effectively on any internet platform, and on both PC and Mac operating systems. An unlimited number of users can access the online TFA at any one time. Users have an unlimited session time but inactivity at the user's end will create a time-out after 10 minutes and the user will be prompted to restart their session.

The TFA is a publicly available product and does not require password-protected user names or logon credentials. Users of the TFA are required, however, to agree to a set of terms of use (which appear at each and every session of use of the TFA). Users must also enter a user name and operation location – these details (and the date and time of use) appear in the footer of the recommendations delivered after following the decision-pathways.

Unlike the previous version of the TFA, no user-end installation is required. The user must navigate to http://www.fpa.tas.gov.au/tfa to first access the online version of the TFA. It is recommended that users bookmark the website to their favourites and/or create a desktop shortcut.

The new version of the TFA appears similar to the 2002 version. It has been programmed using the same (but updated) software (XpertRule) but now runs through a web server. The general layout of the TFA is such that the 'exit', 'back', 'continue' and 'help' buttons are in approximately the same position on each page to allow easier navigation.

For each species included in the TFA there are a series of 'decision-pathways' that vary in complexity (the decision-pathways are similar to a dichotomous plant identification key but with options for 'yes/no', 'multiple choice' and 'user-defined' choices). Each branch of the decision pathway is presented to the user as a dialog screen. Some dialog screens simply contain text information and a link to the next screen, while others incorporate additional windows that require the user to select an option. Selection of an option may lead directly to a report (showing the recommendations) or to additional dialog screens requiring further option selections.

The TFA requires the user to be appropriately trained in the use of the TFA, and in the identification and management of habitat for threatened fauna within wood production forests. The TFA should not be used (or interpreted by) people who have not received such training. Forest industry planners receive this training from the Forest Practices Authority during courses (e.g. the Forest Practices Officer Course, Fauna Management Course) and species-specific or issue-specific field days. After receiving the appropriate training, users can use the TFA following the steps outlined below.

Running a Threatened Fauna Adviser session

There are three basic processes that need to be completed for threatened fauna evaluations;

- 1. Identifying species, range and habitat
- 2. Obtaining a recommendation, and
- 3. Applying the recommendation

The online version of the TFA is used in the second step to obtain appropriate management recommendations for the operation.

Step 1: Identifying species, range and habitat

Users should first access an appropriate database to identify if the proposed FPP or other planning unit area is known to, or likely to, support threatened fauna species. The Forest Practices Authority recommends the use of its online Biodiversity Values Database (BVD), which provides information on threatened species known localities, predicted ranges and potential habitat. It is the user's responsibility to ensure that the most up to date information is used in planning.

A field assessment will be required in almost all cases to determine the presence, extent and suitability of habitat (e.g. potential vs. significant), confirm sites (e.g. precise location of a nest/den record), and identify management issues (e.g. potential disturbance to a nest from roading, carting, harvesting, plantation management etc).

Note that a proposed FPP or other planning unit area may support several species of threatened fauna.

Step 2: Obtaining a recommendation

Once the user has determined whether or not the plan area contains a known locality for a threatened species and/or potential habitat and the range category (e.g. known, core, potential range) using the Biodiversity Values Database, they should navigate to the TFA's initial screen by

- 1) typing in the web address (http://www.fpa.tas.gov.au/tfa), or
- 2) clicking on a desktop shortcut to the address, or
- 3) clicking on the link from the Biodiversity tab on the FPA website. The initial screen is embedded in the FPA website and looks like this;



On the opening screen, click on the 'Continue' button (lower right hand side) to progress.

On the next screen (user obligations and agreement), read the text on the caveats and user obligations and click on the 'Continue' button if you agree to the terms of use (see image on next page). If you do not agree to these conditions then click on 'Exit' to exit the TFA. It is important that these terms are read and the step is completed.

Threatened Fauna Adviser 2014

The following caveats must be considered for each proposed forestry operation. If there is any doubt regarding the applicability of the use of the Threatened Fauna Adviser in a particular situation, advice must be sought from the Forest Practices Authority.

The Threatened Fauna Adviser is a decision-support tool intended for use by those of evaluations as part of the development of forest practices plans for activities covered Practices System in accordance with the procedures for the management of threate between the Department of Primary Industries, Parks, Water & Environment (DPIPV Practices Authority (FPA), under section D3.3 of the Forest Practices Code (for a fur procedures', follow this <u>link</u>).	conducting biodiversity by the Tasmanian Forest aned species agreed VE) and the Forest III copy of the 'agreed
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Exit	Back Continue

On the next screen, select the operation type most applicable to your situation (in most cases, this will be 'Forestry operations'), then click 'Continue'.

b	
Forestry operations Activities not classified as a "forestry operation" Activities on islands (excluding Bruny Island)	
Exit	Back Continue

On the next screen, enter a user name and location (this should be detailed enough to allow both yourself and auditors to be able to track who used the TFA, and what coupe/operation/FPP it was used for). Click 'Continue' when these details have been completed (see image on next page).

Please enter the following:							
Your Name:	orothy Dinosaur						
Coupe ID:	X012b						
Exit	Back Continue						

On the next screen, select the species for which you need to obtain a recommendation, then click 'Continue'. You can scroll down the list by using the scroll bar on the right hand side of the list. You may only select one species at a time. Note that you will need to return to this screen for each of the species that may be affected by the proposed forestry operation. You can return for subsequent species by clicking on the 'Back' button, or by clicking on the 'Same operation different species' button at the bottom of each final recommendation.

	Discocharopa vigens		
Arthurs paragalaxias	Paragalaxias mesotes		
Australian grayling	Prototroctes maraena		
Azure kingfisher	Ceyx azurea subsp. diemenensis		
Blind velvet worm	Tasmanipatus anophthalmus		
Bornemisszas stag beetle	Hoplogonus bornemisszai		
Broad-toothed stag beetle	Lissotes latidens		
Burgundy snail	Helicarion rubicundus		
Burnie burrowing crayfish	Engaeus yabbimunna		
Burrowing crayfish	Various species		
Caddisflies	Various species		
Cataract Gorge snail	Pasmaditta jungermanniae		
Cave-dwelling invertebrates	Various species (not southern sandstone cave cricket)		
Central North burrowing crayfish	Engaeus granulatus		
Chaostola skipper	Antipoda chaostola subsp. leucophaea		
Chequered blue	Theclinesthes serpentata subsp. lavara		
Chevron looper moth	Amelora acontistica		
Clarence galaxias	Galaxias johnstoni		
Dwarf galaxiid	Galaxiella pusilla		
Eagles	Aquila audax subsp. fleayi & Haliaeetus leucogaster		
Eastern barred bandicoot	Perameles gunnii subsp. gunnii		
Flinders Island wombat	Vombatus ursinus subsp. ursinus		
Forty-spotted pardalote	Pardalotus quadragintus		
Freshwater snails	Various species		
Furneaux burrowing crayfish	Engaeus martigener		
Giant freshwater crayfish	Astacopsis gouldi		
Giant velvet worm	Tasmanipatus barretti		
Glossy grass skink	Pseudemoia rawlinsonii		
Golden galaxias	Galaxias auratus		
	Various species		
Great Lake invertebrates	Descendent in the later is the second s		

At each of the subsequent screens, select the appropriate option at each question screen and click on the 'Continue' button until a recommendation is delivered. See the following images for examples of questions you may encounter in the 'decision pathways' for each species;

0	Wh	nich range	e are you ir	n for this species?			
Potential Neither	Are the	here any known Spotted-tailed Quoll dens from within the planned operation area (or within 50 m of the operation area)?					
	Yes No	Is there	any poten 1	tial eagle nesting habitat within the FPP area or within km of the boundary of the FPP area?			
		Yes No	Are mode	e there any class 1-3 streams, or class 4 streams classified as erate or high potential habitat suitability, within or adjacent to the proposed FPP area?			
Exit			<mark>Yes</mark> No	What is your proposed operation type?			
	EXT			Conversion of native forest to plantation Native forest silviculture Roading			
		Exit	_	Quarrying Firewood harvesting Existing plantation with remnants of potential habitat			
			Exit				
A reco	mmenda	ition is					
delive questi a spec	red wher ons along ies have	n all the g the path been ansy	way for vered.	Exit Help Back Continue			

Recommendations are numbered

and include a pathway trail as a subheading, which shows the decisions made along the pathway for each species. Use the scroll bar on the right hand side to view the entire wording.

Broad-toothed Stag Beetle (Recommendation 5)
Within known or potential range; potential habitat present; native forest silviculture
The proposed planning unit is within the known or potential range of the Broad-toothed Stag Beetle, and potential habitat has been identified. Native forest silvicultural regimes have the potential to eliminate or deleteriously disturb patches of potential habitat, or to isolate patches of potential habitat through fragmentation.
Potential habitat must be maintained to help meet this objective. To achieve this, the following actions are recommended.
Strategic- (landscape-level) planning
 Coupes should be planned at a strategic level (e.g. several coupes intended for harvesting over a 3-10 year period in the same forest block) such that (1) maximum dispersal of coupes can be achieved, and (2) larger areas of undisturbed native forest (at least 30 years old) are retained between coupes. If these guidelines have not been met, advice should be sought from the Forest Practices Authority before in-coupe planning proceeds further.
Operational- (coupe-level) planning
Recommendation accessed at: 6/02/2014 TFA version: 16/01/2014 By: Dorothy Dinsoaur Coupe:XZ012b
EXIL Dack Same operation different species Print

The recommendation can be printed by clicking on the 'print' button at the bottom of the screen. This should print both the recommendation and the audit details (name and coupe details). Alternatively the on-screen text can also be copied and pasted to other documents. The print function appears to work best when using the Google Chrome browser (rather than Firefox, Internet Explorer or other alternative).

Step 3: Apply the recommendation

Forest Practices Officers must ensure that a certified forest practices plan includes all relevant actions required for threatened fauna. The recommendations delivered via the TFA should be used to develop management prescriptions appropriate to the operation and incorporated into the FPP. The recommended management action must be worded such that the action is clear to those responsible for implementing the FPP (e.g. contractor and supervisors). Note that transferring all of the wording from the TFA recommendation verbatim into an FPP may be inappropriate; selection and/or modification of phrasing is acceptable provided that the desired outcome is met. Further advice must be sought from the Forest Practices Authority if:

- endorsed or recommended actions cannot be implemented (for any reason)
- a variation is made to the FPP that affects threatened species, and the change is not covered by the FPP prescriptions or updated TFA recommendations (or they cannot be applied)
- additional threatened species values are identified in the FPP area after completing the biodiversity evaluation.

If agreement on management prescriptions cannot be reached by the FPO and FPA specialists, the FPO will refer the case to the CFPO for a determination. If the applicant for the FPP is aggrieved by the determination of the CFPO the applicant may lodge an appeal with the Forest Practices Tribunal pursuant to s.25 of the *Forest Practices Act 1985*.

Function buttons

Exit button

The exit button is located on the lower left hand side of most TFA screens. Clicking on the exit button brings up a prompt to ensure the user wishes to exit the TFA, and then on confirmation, terminates a TFA session. A new session of the TFA can be started by clicking on the refresh button or by re-entering the initial web address. If using the 'exit' button to finish a session, the user will need to re-enter the details of the user and operation for any subsequent sessions.

Help button

The help button is available on the lower right hand side of most screens of the TFA. This may be useful if you want to read up on the background to the TFA, refer to the Agreed Procedures, look up an abbreviation or definition, find the habitat descriptions for a species, or find references for further reading. If you have a query that is not answered by the help files, contact the FPA for further assistance.

Back button

The back button is located on the lower right hand side of most screens. It will take the user back by one screen on each click. It is useful when the user accidentally inputs the incorrect decision pathway choice, and needs to re-enter it. It can also be used to get back to the species selection screen to select a new species once a recommendation has been delivered for a species.

Continue button

The continue button is used to advance to the next screen, usually once a selection has been made.

Same operation different species button

The same operation different species button appears at the end of each recommendation to allow the user to navigate back to the species selection screen to follow a new species decision pathway.

Print button

The print button only appears on a final recommendation screen. Clicking on this button should bring up a print preview, allowing the user to set the printing details and print the recommendation wording and audit details.

OK button

The ok button only appears at the bottom of the screen after a recommendation. It has an identical function to the 'same operation, different species' button in sending the user back to the species selection screen.

Feedback

The Forest Practices Authority and DPIPWE will appreciate any feedback from users on the *Threatened Fauna Adviser* – please direct comments to:

Manager – Biodiversity Program

Forest Practices Authority

30 Patrick Street

Hobart, TAS 7000

03 6165 4090

info@fpa.tas.gov.au

Appendix 1: Abbreviations

The following abbreviations are used within the Threatened Fauna Adviser and this document:

- **BVD** Biodiversity Values Database see TFM and FVD this integrated database and GIS mapping product is being developed at the same time as the TFA review and will wholly replace the hard copy TFM and online FVD
- CFPO Chief Forest Practices Officer
- **DEWHA** Commonwealth Department of the Environment, Water, Heritage and the Arts (previously known under various other names such as Department of Environment and Heritage), superseded during the preparation of this document by the Department of Sustainability, Environment, Water, Population and Communities (DSEWPC)
- **DPIPWE** Tasmanian Department of Primary Industries, Parks, Environment and Water, previously known as DPIWE (Department of Primary Industries, Water and Environment) and DPIW (Department of Primary Industries and Water) and referred to as such in most documentation related to the present review (e.g. *Forest Practices Code*, old versions of the TFA, etc.) – DPIPWE is used throughout
- **EPBCA** Commonwealth Environment Protection and Biodiversity Conservation Act 1999
- FPA Forest Practices Authority
- **FPAC** Forest Practices Advisory Council
- **FPB** Forest Practices Board of the Forest Practices Authority but the abbreviation is most commonly applied to the previous name of the agency now referred to as FPA (see also FPU) and used in the present version of the TFA
- **FPC** Forest Practices Code 2000, sometimes referred to as the code
- FPO Forest Practices Officer
- FPP Forest Practices Plan
- **FPU** First name of the entity now known as the FPA (usually seen in terms such as FPU Senior Zoologist and various historical documents)
- FT Forestry Tasmania
- FVD Fauna Values Database see TFM and BVD
- **IFS** Inland Fisheries Service, in some older documents referred to as the IFC, Inland Fisheries Commission
- **NVA** DPIPWE's Natural Values Atlas database (www.naturalvaluesatlas.tas.gov.au)
- PAMA Public Authority Management Agreement established under the provisions of the TSPA
- **PCAB** Policy and Conservation Assessment Branch, formerly Development and Conservation Assessment Branch (DCAB), of DPIPWE

- **PSC** Project Steering Committee for the review of the Threatened Fauna Adviser project, comprising: Sarah Munks (FPA), Phil Bell (TSS, DPIPWE), Clare Hawkins (TSS, DPIPWE), Karen Richards (FPA) and Fred Duncan (FPA, in part)
- **RFA** Tasmanian-Commonwealth *Regional Forest Agreement* signed in November 1997 and updated in 2005
- TFA Threatened Fauna Adviser
- TFM Threatened Fauna Manual, originally published as hard copy as the Threatened Fauna Manual for Wood Production Forests in Tasmania (Forest Practices Board 2001) and subsequently converted to an online database on FPA's web site and referred to as the Biodiversity Values Database (FPA 2011)
- **TSPA** Tasmanian *Threatened Species Protection Act 1995*
- **TSS** Threatened Species Section of the Department of Primary Industries, Parks, Water and Environment (see DPIPWE); previously known as the Threatened Species Unit (TSU)
- SAC Scientific Advisory Committee established under the TSPA
- **UTAS** University of Tasmania

Document Control Log Table

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Version control

Version	Date	Author(s)	Summary of changes
0.1	2012	Dan Livingston?	Draft 'how to use' notes in TFA help file
0.2	March 2014	Dydee Mann	Incorporation of notes into user manual document, addition of screen shots, logos, web links, photos.

Stages required for release outside FPA

Category of advice (A1,	A2, B1, B2, B3 or C):	С
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Peer/FPO/stakeholder review (FPA staff)	Not required	
CFPO	Required	24.3.14
FPAC		
Board		