NORTHERN RIVERS REGION

To NESFHAB representatives:

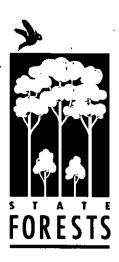
(1) Georgia Beyer and Daniel-Hall

2) Russ Ainley

From Mark Carron, Harvesting Advisory Board Co-ordinator

Date 4 September 1998

Subject FLORA and FAUNA SURVEY REPORTS



Attached please find a copy of the Threatened Species Protocol Pre-Logging and Pre-Roading Survey Report for Tenterfield Management Area Girard S.F. Compartments 34.

Regards

Mark Carron



STATE FORESTS of NSW. THREATENED SPECIES PROTOCOL PRE-LOGGING AND PRE-ROADING SURVEY REPORT - 1998.

Region	Northern Rivers	Management Area	Tenterfield
State Forest	Girard	Compartment(s)	34

PART A. DESKTOP REVIEW

Date of Review:

24 Jul 1998

Undertaken by:

N.W. Longmore

1. Previous Surveys undertaken within 2 km or 5 km.

Survey Type	Source	Date	Distance	Reliable Survey
Microbats	NEF Biodiversity	1994	Within 2 km	Yes
(Harptrap) 0801	Study			
(383)	<u></u>			
Microbats	NEF Biodiversity	1994	Within 2 km	Yes
(Harptrap) 0801	Study			
(384)	NEP D' 1	1.22		
Spotlighting 08W	NEF Biodiversity Study	1994	Within 5 km	Yes
Spotlighting 08Z	NEF Biodiversity Study	1994	Within 5 km	Yes
Spotlighting 08C	NEF Biodiversity	1994	Within 5 km	Yes
	Study			1 63
Microbats	NEF Biodiversity	1994	Within 5 km	Yes
(Harptrap) 08A	Study	-		
Microbats	NEF Biodiversity	1994	Within 5 km	Yes
(Harptrap) 08B	Study			
Microbats	NEF Biodiversity	1994	Within 5 km	Yes
(Harptrap) 08AG (377)	Study			
Microbats	NEF Biodiversity	1994	Within 5 km	Yes
(Harptrap) 08AG	Study			103
(378)			•	
Nocturnal call	NEF Biodiversity	1994	Within 5 km	Yes
playback 08AR	Study			
Nocturnal call	NEF Biodiversity	1994	Within 5 km	Yes
playback 08AG	Study			
Nocturnal call	NEF Biodiversity	1994	Within 5 km	Yes
playback 08CR	Study			
Nocturnal call	NEF Biodiversity	1994	Within 5 km	Yes
playback 08AM Spotlight	Study	1000	111111	
Nocturnal call	Tenterfield EIS	1992	Within 5 km	Yes
playback	Tenterfield EIS	1992	Within 5 km	Yes
Hairtubes	Tenterfield EIS	1000	3V(a) 1 = 6 1	
Tantuocs	remember 612	1992	Within 5 km	Yes

Scat and track	Tenterfield EIS	1992	Within 5 km	Yes
Riparian Frog	Tenterfield EIS	1992	Within 5 km	Yes
Non-riparian Frog	Tenterfield EIS	1992	Within 5 km	Yes
Microbats	Tenterfield EIS	1992	Within 5 km	Yes
Small mammals	Tenterfield EIS	1992	Within 5 km	Yes
Diurnal birds	Tenterfield EIS	1992	Within 5 km	Yes
Reptiles	Tenterfield EIS	1992	Within 5 km	Yes

Notes: NEF Biodiversity Study Report No.3.

Tenterfield Management Area EIS, Supporting document No.4 Sites:

(Marbled frogmouth call playback)

M1. 433900 6794900

M2. 434100 6794900

M3. 434600 6794900

M4. 434900 6794900

M5. 431900 6797900

M6. 431400 6797400

M7. 435400 6794900

(spotlight, call playback, hairtube, microbat, diurnal bird, reptile)

1. 433900 6796400

2. 434500 6795600

3. 433800 6794800

4. 433050 6794800

5. 431550 6796060

6. 431100 6797050

7. 432100 6795050

2. Results of Database Search - Species recorded within 2 km or 5 km.

Species Name	AMG E	AMG N	Date	Observation Type	Observers Name	Source
Tiger Quoll	431000	6805500	28 Jul 1989	0	Ü	A
Koala	434500	6804500	28 Apr 1972	0	Ū	A
Rufous Bettong	434800	6801800	9 Feb 1992	0	U	A
Koała	430300	6801750	25 Oct 1997	o	U	A
Rufous Bettong	428200	6801200	9 Feb 1992	0	U	A
Rufous Bettong	428200	6801000	7 Feb 1992	0	Ü	A
Glossy Black Cockatoo	428500	6800200	5 Feb 1992	0	U	Α -
Rufous Bettong	428700	6800200	5 Feb 1992	0	U	TA
False Pipistrelle	428900	6799100	7 Feb 1992	Т	Ü	A
Glossy Black Cockatoo	428900	6799100	9 Feb 1992	0	U	A
Glossy Black Cockatoo	430900	6798400	6 Feb 1992	0	U	Ā
Rufous Bettong	432800	6799400	7 Feb 1992	O	U	A
Rufous Bettong	432800	6799300	9 Feb 1992	0	Ū	A
Rufous Bettong	432850	6799250	26 May 1992	0	Fanning	A-EIS
Rufous Bettong	432800	6799200	6 Feb 1992	0	 U 	A
Rufous Bettong	435100	6799900	11 Jan 1995	R	U	A
Sooty Owl	431200	6797300	6 Feb 1992	0	Ū	A
Sooty Owl	431500	6797350	26 May 1992	0	Fanning	A-EIS
Wompoo Fruit Dove	431100	6797050	19 Apr 1992	0	Fanning	A-EIS

Greater Broad-nosed Bat 431100 6797050 28 Jan 1994 W Fanning A-EIS Common Bent-wing Bat 431100 6797050 28 Jan 1994 W Fanning A-EIS Sooty Owl 431100 6797050 23 Mar 1992 O Fanning A-EIS Yellow-bellied Glider 429150 6797100 15 May 1992 O Fanning A-EIS Sooty Owl 429000 6796700 10 Jun 1978 O U A Powerful Owl 429900 6796700 10 Jun 1978 O U A Powerful Owl 428950 6795950 25 May 1992 O Fanning A-EIS Sooty Owl 431500 6796060 28 Jan 1994 W Fanning A-EIS Greater Broad-nosed Bat 431550 6796060 28 Jan 1994 W Fanning A-EIS Rufous Bettong 431550 6796060 28 Jan 1994 W Fanning A-EIS Rufous Bettong 431550 6796060	Glossy Black Cockatoo	431100	6797050	19 Apr 1992	Ιo	Fanning	A-EIS
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Sooty Owl 431100 6797050 23 Mar 1992 O Fanning A-EIS		431100	6797050	28 Jan 1994	W		
Vellow-bellied Glider 429150 6797100 25 May 1992 O Fanning A-EIS Sooty Owl 429000 6796700 10 Jun 1978 O U A Powerful Owl 429000 6796700 10 Jun 1978 O U A Powerful Owl 428950 6795950 25 May 1992 O Fanning A-EIS Sooty Owl 431700 6796400 26 May 1992 O Fanning A-EIS Common Bent-wing Bat 431550 6796060 28 Jan 1994 W Fanning A-EIS Greater Broad-nosed Bat 431550 6796060 28 Jan 1994 W Fanning A-EIS False Pipistrelle 431550 6796060 28 Jan 1994 W Fanning A-EIS Rufous Bettong 431550 6796060 22 Mar 1992 O U A Rufous Bettong 431550 6796060 22 Mar 1992 O U A Powerful Owl 433000 6796400 24 Mar 1992 </td <td></td> <td>431100</td> <td>6797050</td> <td>23 Mar 1992</td> <td>0</td> <td></td> <td></td>		431100	6797050	23 Mar 1992	0		
Sooty Owl 429000 6796700 10 Jun 1978 O		429150	6797100	25 May 1992	0		
Powerful Owl 429000 6796700 10 Jun 1978 O	L	429000	6796700	<u> </u>	0		
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False Pipistrelle 432100 6795050 5 Feb 1994 W Fanning A-EIS Greater Broad-nosed Bat 432100 6795050 5 Feb 1994 W Fanning A-EIS Litoria subglandulosa 432100 6795050 1 Jan 1992 T Fanning A-EIS Golden-tipped Bat 433050 6794800 5 Feb 1994 W Fanning A-EIS Common Bent-wing Bat 433800 6794800 31 Jan 1994 W Fanning A-EIS Common Bent-wing Bat 433800 6794800 31 Jan 1994 W Fanning A-EIS Sooty Owl 434600 6795000 17 Mar 1994 O U A Powerful Owl 433000 6794050 26 May 1992 O Fanning A-EIS	Common Bent-wing Bat	432100	6795050		. <u></u> .	<u> </u>	
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Powerful Owl 433000 6794050 26 May 1992 O Fanning A-EIS Eucalyptus tetrapleura	Sooty Owl	434600	6795000	<u> </u>			
Eucalyptus tetrapleura R-Eis	Powerful Owl	433000	<u> </u>				
	Eucalyptus tetrapleura			<u> </u>	<u> </u>		7.1-213
	Dendricnide moroides		<u> </u>		 		

NPWS Atlas Date: 24 Jun 1998 SF Fauna Records Updated to: 24 Jun 1998 SF Flora Records Updated to: 24 Jun 1998

Notes: NPWS WinERMS derived maps (24 Jun 1998) attached to this report.

Region	Northern Rivers	Management Area	Tenterfield
State Forest	Girard	Compartment(s)	34

PART B. Flora and Threatened Fauna Features Traverse

Net Area:

100

Hectares

Traverse Length: 5.4

2.5 Km (A. Benwell), 2.9 Km (D. Stewart, B. Thornhill) route of

Km

traverse on attached map

Surveyed By:

D. Stewart, A. Benwell, R. Kooyman

Duration of Traverse:

6:55 hrs

A. Benwell [3 hrs], D. Stewart, B. Thornhill [3 hr 55

min](Person Hours)

1. Conservation Protocol Appendix 1 Flora Detections

Species Name	AMG E	AMG N	Locality Description	Date	Observers Name	Number Observed	Count/ Estimate
Plectranthus suaveolens	434500 434700	6799600 6799700	Outcropping rock on steep slope below 34/2 Rd	7 Aug 1998	A. Benwell	NA	-NA

Plectranthus suaveolens is a ROTAP species, the location is marked on the map Threatened Flora Individuals or Populations are marked in the field.

2. Conservation Protocol Threatened Fauna Features Detected

Feature Type	Marked in Field	Marked on Map
Glossy Black Cockatoo	Υ	Υ

Region	Northern Rivers	Management Area	Tenterfield
State Forest	Girard	Compartment(s)	34

PART C: TARGETED FAUNA SURVEYS

1. Assessment of Surveys Required

Survey Type	Survey Required (Y/N/IP ¹)
Spotlight	Υ
Nocturnal Call Playback ¹	Υ
Hairtubes	Y, IP
Scat and Track	Y
Riparian Frog	Y, IP
Non-riparian Frog	Y, IP
Micro Bats	Y, IP
Small Mammals	Υ
Diumal Birds	Y
Reptiles	N
lym	

¹IP = implement prescription without survey

2. Surveys Undertaken

Survey Type	Date Undertaken	Time Spent	Undertaken By
Spotlight (foot transect) 600m	4 Aug 1998 10 Aug 1998	0:45 min 0:40	D. Stewart, J. Russell, B. Thornhill
Spotlight (foot transect) 700m	4 Aug 1998 10 Aug 1998	0:55 0:50	D. Stewart, J. Russell, B. Thornhill
Call playback Site 1	4 Aug 1998 10 Aug 1998	1:15 1:00	D. Stewart, J. Russell, B. Thornhill
Call playback Site 2	4 Aug 1998 10 Aug 1998	1:15 1:10	D. Stewart, J. Russell, B. Thornhill
Scat transect 400m	7 Aug 1998	0:30	K. Harvey, B. Thornhill
Scat transect 1.2Km	27 Jul 1998	2:00	B. Thornhill
Diurnal birds	11 Aug 1998	0:45	D. Stewart
Koala survey T1 1.0Km	7 Aug 1998	1:45	K. Harvey, B. Thornhill
Small mammal (HRM)	17 Aug 1998	3:30	R. Kooyman, W. Longmore

Location of surveys shown on attached maps.

Number of Data Sheets Attached: 12

Region	Northern Rivers	Management Area	Tenterfield
State Forest	Girard	Compartment(s)	34

PART D. SURVEY RESULTS

Prepared By:

N.W. Longmore

Date:

24 Aug 1998

New Threatened Fauna Detections

Species Name	AMG E	AMG N	Accur	Date	Cmpt	Observation Type	Observers Name	Survey/ Incidental
Masked Owl	434900	6799780	250	4 Aug 98	34	Heard call	D. Stewart, J. Russell, B. Thornhill	S
Powerful Owl	433630	6788820	450	10 Aug 98	34	Heard call	D. Stewart, J. Russell, B. Thornhill	s
Glossy Black Cockatoo	434200	6799500		10 Aug 98	34	Observed	F. Bugno	ı
Parma Wallaby	434960	6799830		4 Aug 98	34	Observed	D. Stewart	ī

SUMMARY

GENERAL

Surveys for flora and fauna were initiated on 27 July 1998 and culminated on 17 August 1998. Weather conditions throughout the survey period consisted of calm to moderating winds, and no indication of rain within the previous 24 hours. The compartment is located in hilly range country between 650 and 850m ASL. It is small with a net loggable area of less than 100ha (part B of this report). Surveys undertaken are provided in part C of this report, and new threatened fauna detections within this compartment are provided in part D of this report.

Benwell carried out the flora surveys. D. Stewart, J. Russell, B. Thornhill, R. Kooyman, and W. Longmore conducted targeted fauna species surveys, the latter two being involved only with the Hastings River Mouse habiat assessment.

Note that surveys involve an integrated process and that survey types and objectives are not carried out in isolation of each other or of field activities.

FLORA.

The one surveyor carried out this work on 7 August 1998. His report summarises the result from this survey and general traverse route map is attached. Forest types include 62 (White Mahogany-Grey Gum-Grey Ironbark), 74 (Spotted Gum), 122 (New England Stringybark), 47 (Tallowwood-Sydney Blue Gum) and 163 (New England Blackbutt). Forest type 122 comprises patches dominated by Diehard Stringybark E. cameronii. Type 62 is dominated by E. microcorys, E. biturbinata and E. carnea [?] with E. campanulata, E. maculata, E. cameronii and E. siderophloia. Spotted Gum E. maculata (type 74) occupies lower elevation areas with a north east aspect. Stands of New England Blackbutt E. campanulata occur on the cooler high ridges and west facing slopes. There is a well-developed grassy understorey with a major blady grass element.

A distance of 2.5 km, taking 3 hours was surveyed for threatened flora. No threatened plant species were detected during the flora surveys. One ROTAP listed species, the Sweet Cockspur Flower *Plectranthus suaveolens*, was located in limited numbers within the compartment. These plant detections have been mapped.

FAUNA

Three observers (D. Stewart, J. Russell, B. Thornhill) carried out the main fauna surveys between 27 July 1998 and 11 August 1998, supplemented by an additional habitat assessment for the Hasting River Mouse by R. Kooyman and W. Longmore on 17 August 1998. TRAVERSE SURVEYS

Searches for fauna and threatened fauna features were integrated both into the compartment traverses and throughout general activities (travel, habitat assessment...) and surveys (scat and track, and diurnal bird). These surveys were carried out on 10 August 1998. Prescription 21 should be applied for the Glossy Black Cockatoo. Results of these traverse surveys showed the following species present

Species	Number	Species	Number
Eastern Grey Kangaroo (scats)	1	Red-necked Wallaby (scats)	1
Bandicoot spp. (diggings)	1	Glossy Black Cockatoo	3

SPOTLIGHT SURVEYS

A total of 1.3km of spotlight foot traverse (repeated) was surveyed between 4 and 10 August 1998. Yellow-bellied Glider, Squirrel Glider, Koala, Rufous Bettong, Parma Wallaby, Tiger Quoll, and owls (Powerful, Masked, and Sooty) were targeted. Results of these spotlighting surveys showed the following species present.

Species	Number	Species	Number
Greater Glider	4	Litoria verreauxii	2
Nyctophilus[?] sp.	- 2	Crinia signifera	>5
Tawny Frogmouth	1	Australian Owlet-Nightjar	1
Southern Boobook	1	Red-necked Wallaby	l î
Grey Goshawk	1	Eastern Grey Kangaroo	

CALL PLAYBACK SURVEYS

Owls and arboreal mammals

Two call playback sites were monitored throughout the survey area. During these call playbacks calls of Powerful, Barking, Masked, and Sooty Owls, Koala, Yellow-bellied Glider and Squirrel Glider were played. Masked Owl calls were omitted from playbacks on the 10th at survey site 1 as it had been previously detected on the 4th. Precription 13 for Powerful and Masked Owls should apply. Results of call playback showed the following species present.

Species	Number	Species	Number
Masked Owl	1	Sugar Glider	1
Australian Owlet Nightjar	4	Grey-headed Flying Fox	2
Southern Boobook	1	Powerful Owl	1
Tawny Frogmouth	1		

FROG SURVEYS

Habitat assessments indicate possible habitat for both *Mixophyes balbus* and *Litoria subglandulosa*. This habitat is along the second order stream bounding the southern / southeastern compartment boundary. Two other species (*Litoria verreauxii* and *Crinia*

signifera) were detected during spotlighting surveys. Prescription 18 for threatened frogs should apply.

BAT SURVEYS

Habitat for the Golden-tipped Bat *Kerivoula papuensis*, habitat also considered suitable for the Large-footed Myotis *Myotis adversus*, along the second order stream bounding the southern / southeastern compartment boundary. Habitat for the myotis has been reserved through implementation of the Hastings River Mouse buffer. This exclusion zone will also benefit the Golden-tipped Bat. The latter could also feasibly occur within the dry vine forest (rainforest) towards the head of that stream. This area should also be buffered to cater for its probable presence (see mapped area for Hastings River Mouse). Prescriptions17 and 19 for critial weight range vertebrates and threwatened bats should apply

DIURNAL BIRDS

A survey on 11 August 1998 failed to locate the presence of any threatened diurnal birds. Bird species targeted included Powerful, Masked, and Sooty Owls, and Red Goshawk, During other surveys incidental records of Glossy Black Cockatoos and their feed trees were made, these sightings have been mapped. Results of the diurnal surveys are listed within the survey reports, together with a complete list obtained during the entire survey. As stated for the Traverse Surveys prescription 21 should be applied for the Glossy Black Cockatoo

Prepared by: Date: 3 Sep 98

Senior Ecologist

Attachments:

- 1. Maps indicating location of threatened species detections, survey points and transects
- 2. Raw survey data sheets
- 3. Flora species lists

Preliminary Flora Survey

Compartment 34 Girard State Forest

for

State Forests of NSW

Casino Regional Office

Walker St Casino

10st August 1998

Andrew Benwell Botanical and Environmental Consultant P.O. Box 641, Mullumbimby, 2482

Method

A botanical survey of Compartment 34 Girard State Forest was carried out on 7/8/198. The compartment was surveyed by roadside survey and foot traverse. The traverses were stratified to sample the range of forest types and topography within the net loggable area. The location of foot traverses is shown on the attached map and total traverse distance and duration is indicated below:

Total traverse length 2.5 km
Traverse length per 200ha 5 km
Total traverse duration 3 hrs
Total traverse duration per 200ha 6 hrs

General Description

Compartment 24 is a small compartment with a net loggable area of about 100ha located in hilly range country at 650 to 850 metres elevation roughly mid-way between Casino and Tenterfield. Mapped forest types in the compartment include 62 (White Mahogany-Grey Gum-Grey Ironbark), 74 (Spotted Gum), 122 (New England Stringybark), 47 (Tallowood-Sydney Blue Gum) and 163 (New England Błackbutt). The level of detail indicates the compartment was ground truthed during mapping. Forest type 122 comprises patches dominated by Diehard Stringybark (E. cameronii). Type 62 is dominated by E. microcorys, E. biturbinata and E. carnea? with E. campanulata, E. maculata, E. cameronii and E. siderophloia. Spotted Gum (E. maculata) (type 74) occupies lower elevation areas with a north east aspect. Stands of New England Blackbutt (E. campanulata) occur on the cooler high ridges and west-facing upper slopes.

The compartment is in the transition zone between the foothill open forests (types 62 and 74) and higher elevation forests (e.g. 122 and 163).

Threatened or Significant Flora Species

A list of all plant species recorded during the survey is attached to this report.

TSC Act Plant Species

No plant species listed in the Schedules of the TSC Act were recorded in the compartment.

ROTAP Species

One species listed on ROTAP (Rare or Threatened Australian Plants)(Briggs and Leigh 1995) was recorded in the compartment:

Plectranthus suaveolens (Sweet Cockspur Flower) (3KC-)

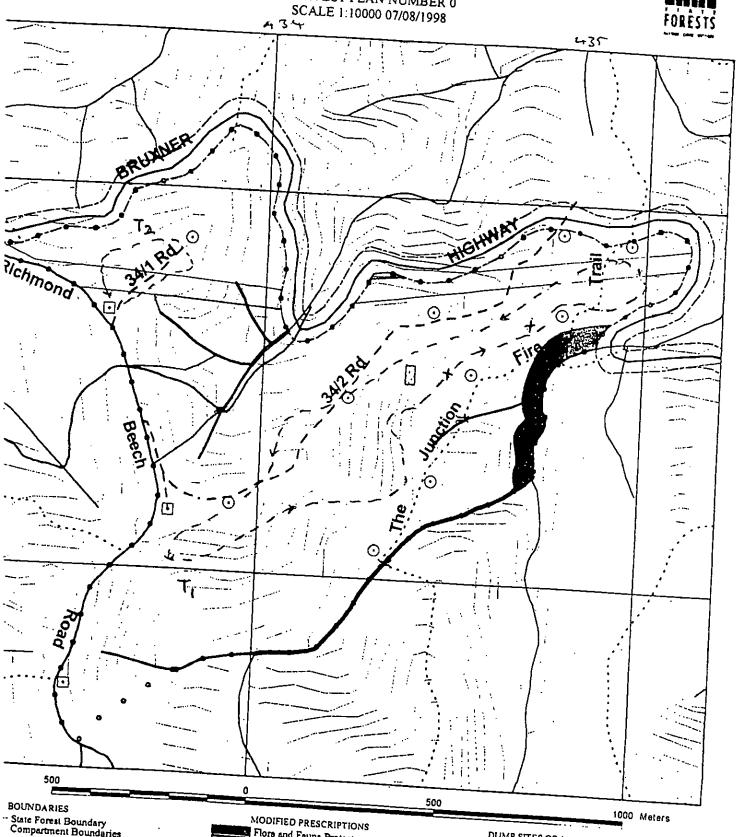
A poorly known (K) species inhabiting rock outcrops. Small colonies of *Plectranthus suaveolens* were seen on patches of outcropping rock at a few points on the steep slope below 34/2 Rd. Some rock outcrops supported *Plectranthus parviflorus* instead of *Plectranthus suaveolens*.

The rock outcrops are unlikely to be disturbed by machinary but could be adversely affected by falling tree crowns or snigging. Likely to occur elsewhere in adjoining compartments. Widespread on rocky outcrops and patches. Mitigation measures probably not necessary.

NORTHERN RIVERS REGION - GLEN_NEW DISTRICT HARVEST PLAN OPERATIONAL MAP **COMPARTMENT 34** GIRARD STATE FOREST UNKNOWN MAP SHEET HARVEST PLAN NUMBER 0



مدكدة المتعلماء الإفهواسانين أووب



- State Forest Boundary Compartment Boundaries

ROADS (Proposed in Red)

Natural Surface
 Sealed or Oravelled
 Four wheel drive

NORMAL PRESCRIPTIONS Harvesiable Area MODIFIED PRESCRIPTIONS

Flore and Fauna Protect Slopes likely over 30 degrees Rainforest

NON HARVEST AREAS J General

DUMP SITES OR LANDINGS

Permanent Dry Permanent Wet Temporary Dry

DUMP SITES OR LANDINGS Temporary Wet

WATERCOURSES & DRAINAGE External Drainage Original First Order

Second Order Third Order Approved Crossings

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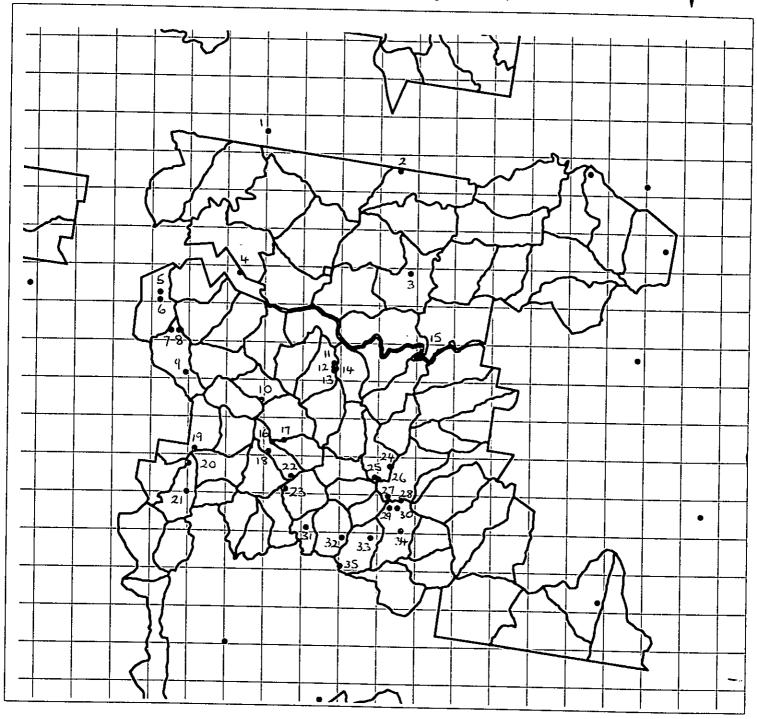
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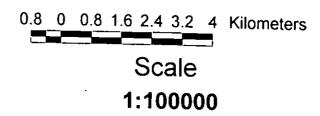
Northern Rivers Region

Fauna Sites Map

Girard State forest - Cpts 11, 34



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1klmGridNR.shp
RegionCompts.shp



Prepared by: Ken McCray 24/7/98

NORTHERN RIVERS REGION

Threatened Flora/Fauna Record Sheet

23

RUEDUS BETTONG



Loc. No.	Species Name	AMG East	AMGNorth	Date	Obs. Type	Observers Name	Source
- 1	TIGER QUOLL	431000	68 05 500	28/7/89		U	A
2	KOALA	4 34 500	68 04500	23/4/72		Ü	A
_3	RUFOUS SEFTONG	4 34 800	68 01800	9/2/92	0	Ü	A
4	KONLA	430300	68 01 750	25/10/97	0	Ü	A
5_	RUFOUS BETTONG	428200	6801200	9/2/92	٥	Ü	A
6	lr er	4 28 200	65 01 000	7/2/92	0	Ü	A
7_	GBC	428500	6800200	5/2/92	0	\overline{U}	A
8	RUFOUS BETTONG	425700	6800200	5/2/92	0	Ü	A
9	FALSE PIPISTRELLE	428900	6799100	7/2/92	T		A
9	üßi	.,		912/92	0	U	
10	06C	430900	6798400	6/2/92	0	Ü	A
н	RUFOUS. BEFTONG	432800	6797400	7/2/92	0	υ	A
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6	Scory OWL	4 31 200	67 97 300	6/2/12		U	A
7	SUOTY OWL	4 31 500	67 97 350	26/5/12	0		A
18	WOMFOO FRUIT-DOVE	431100	67 97 050	19/4/92	0	FANNING	A -E15
13	GBC		"	11/1/12	0		A-EIS
18	GREATER BROAD-NUSED BAT	1/	4	28/1/94	w.	11	- "
18	COMMON BENT-WINE BAT	it	4	1,	W	11	
18	SCOTY OWL	4	62	23/3/12	0		
18	YBG	429150	6797100	25/5/92	0	11	
20	SOOTY OWL	429000	6796700	10/6/78	ŏ	u	
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3	FAUSE PIPISTRELLE			1 " [

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NORTHERN RIVERS REGION

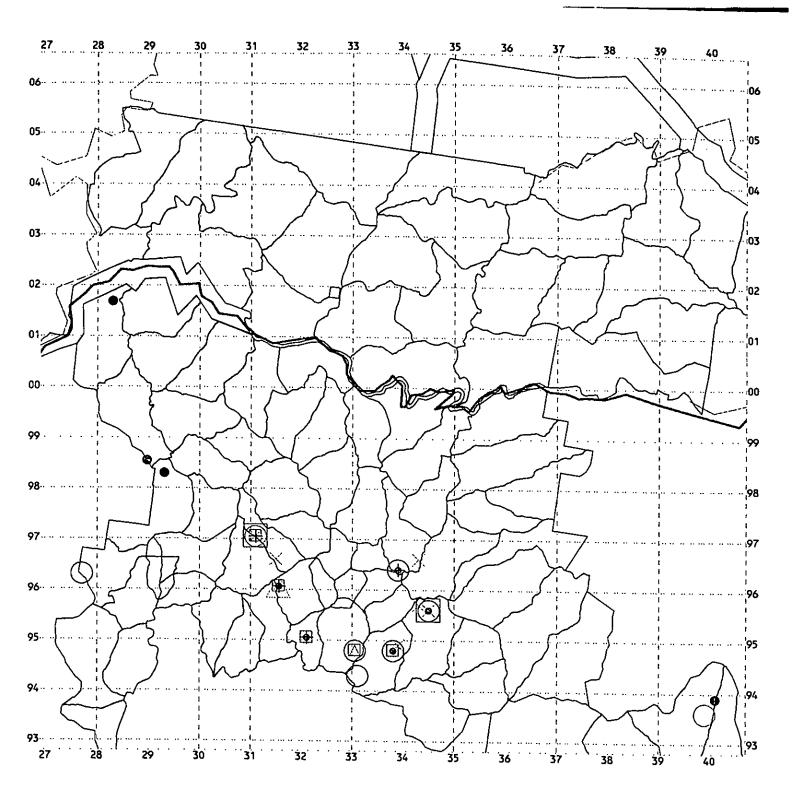
Threatened Flora/Fauna Record Sheet

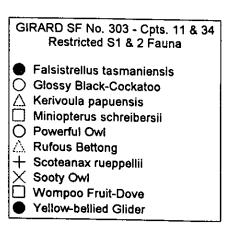


Loc. No.	Species Name	AMG East	AMGNorth	Date	Obs. Type	Observers Name	Source
24	POWERFUL OUL	434300	6796700	6/2/92	0	U	A
25	POWERENL OWL	433 900	6796400	24/3/92	0	U	A
26	FALSÉ PIPISTRELLE	434000	6746350	6/2/94	7	U	A
26	GREATER BROAD-NESED BAT	♦ 31	ч	и	41	1,	
27	FALSE PIASTRELLE	434250	6745900	6/2/94	T	U	A
28	SCOTY OWL	434600	6795800	6/2/92	0	Ü	A
29_	POWERRL ONL	434 300	6195600	17/3/94		Ü	<u> </u>
30	WOMFOO FRUIT DOVE	434500	6745600	19/4/92		FANNING	
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30	SOOTY OWL	10	¥	25/3/12	0	4	- tj
31	COMMON BENT-WING BAT	432100	67 95 050	5/2/94	<u>й</u>	1,	<u> </u>
31_	FALSE PIPISTRELLE		•		·	4	<u> </u>
31	CREATER BROAD-NOSED BAT	-7	~	,	~		"
31	Litoria Subglandulosa	4	a	1/1/92		ч	
32	GOLDEN-TIPPED RAT	433050	6794800	5/2/44	W		<u> </u>
32	COMMON BENT-WING BAT	41	м	7/ -/ 1 + 1	~	<u> </u>	н
33_	FALSE PIPISTRELLE	433 800	67 94 800	31/1/94	-~	n	^
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Sheet1

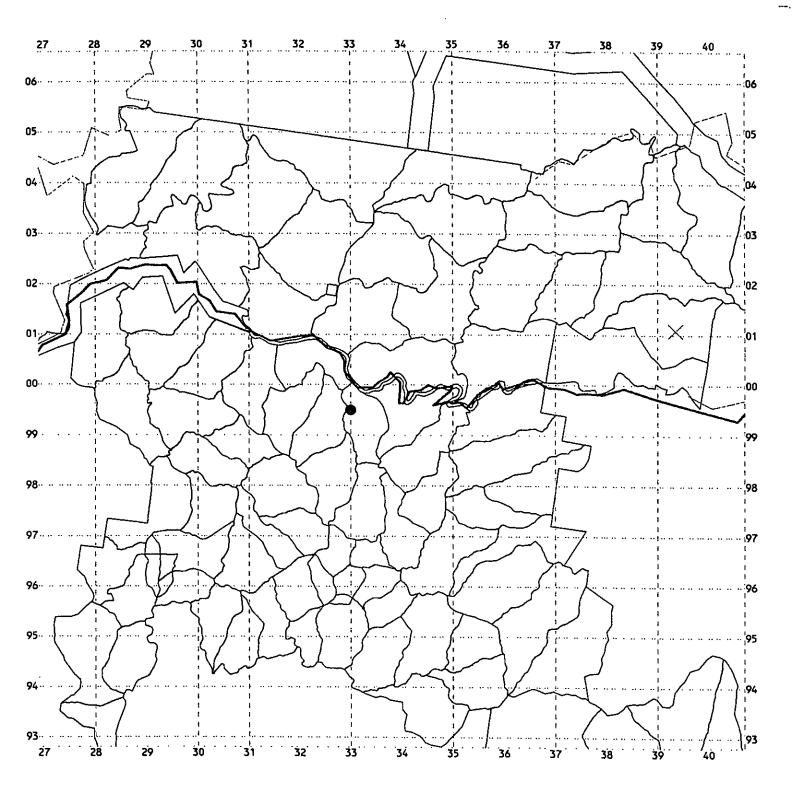
Restricted S1&2 Fauna (4/96)	Girard 11,	34 + 5km
Falsistrellus tasmaniensis	6	<u> </u>
Sooty Owl	6	
Miniopterus schreibersii	5	
Powerful Owl	5	
Scoteanax rueppellii	4	
Yellow-bellied Glider	3	
Wompoo Fruit-Dove	2	
Glossy Black-Cockatoo	1	
Kerivoula papuensis	1	
Rufous Bettong	1	





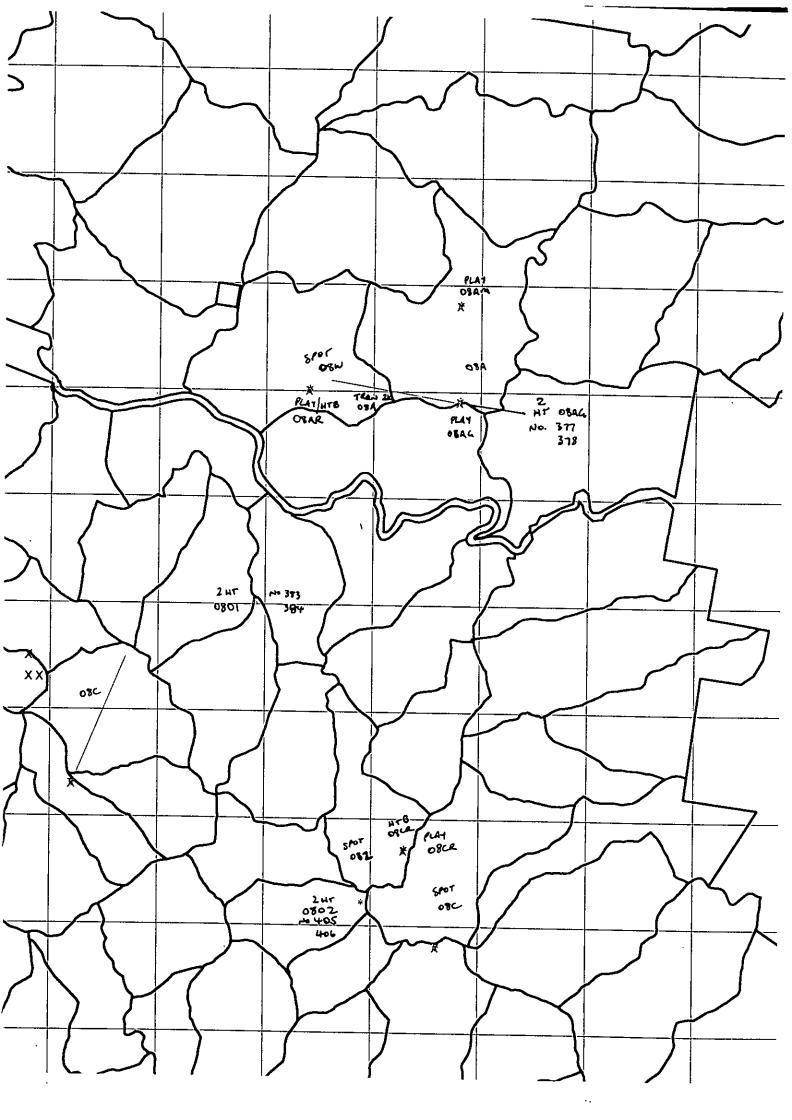
Sheet1

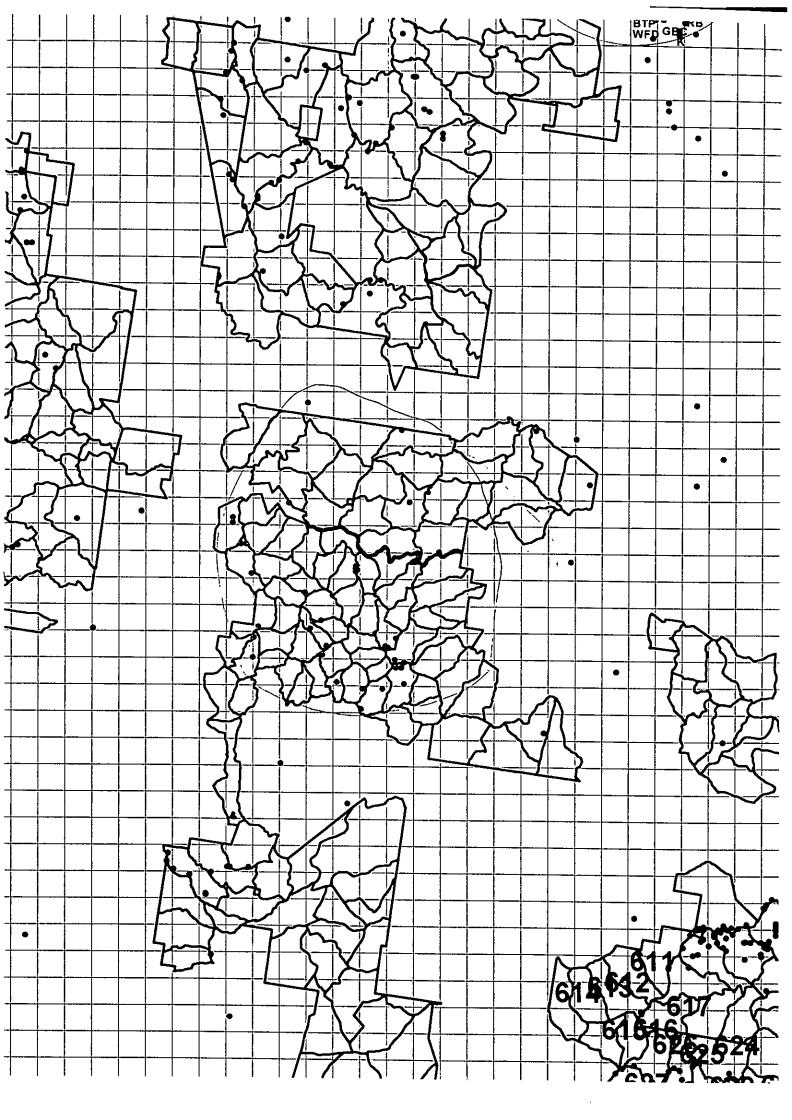
Restricted S1&2 Flora (4/96)	Girard 11, 34 + 5km
Eucalyptus tetrapleura	2
Dendrocnide moroides	1

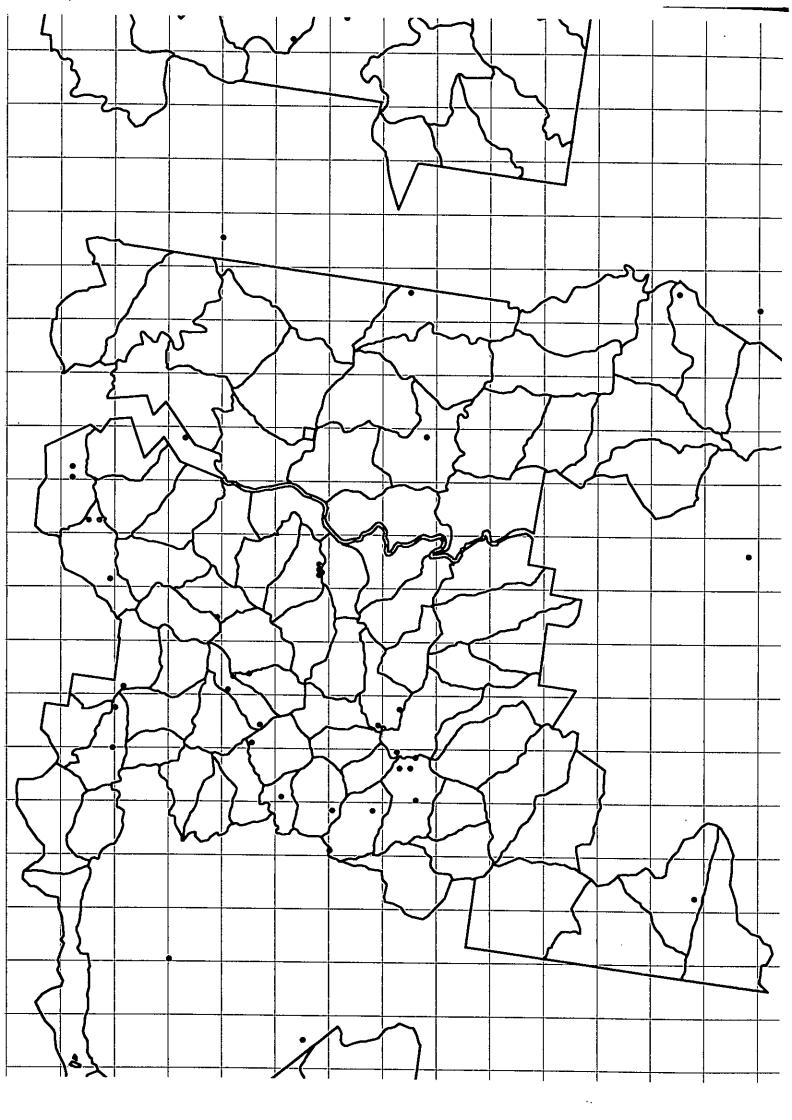


GIRARD SF No. 303 - Cpts. 11 & 34 Restricted S1 & 2 Flora

Dendrocnide moroidesEucalyptus tetrapleura



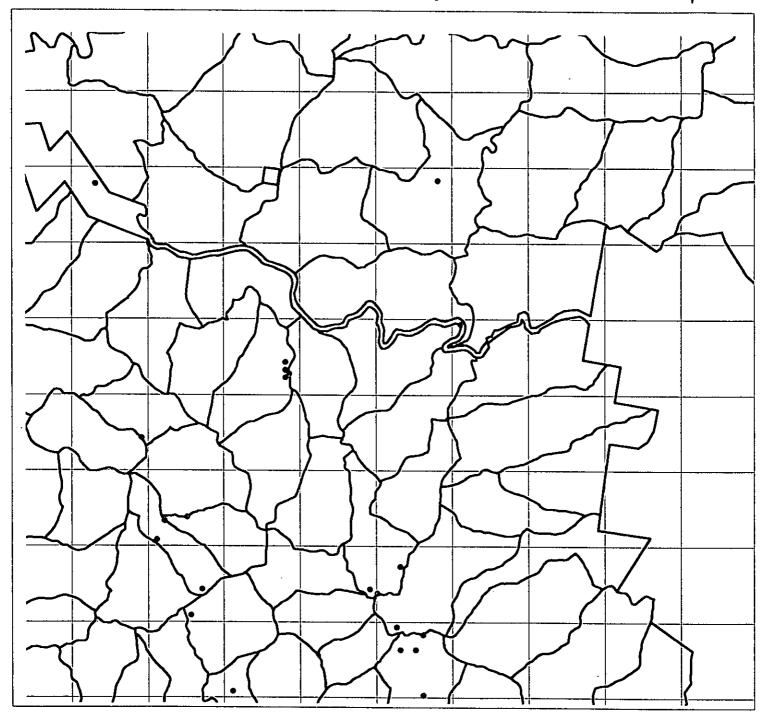




Northern Rivers Region

Fauna Sites Map

Girard State forest - Cpts 11,34







Prepared by: Ken McCray 24/7/98

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THREATEN	ED FAUNA - SIG	HTING OP EE	ATURE#		·		
TRANSECT	SPECIES OR FE		NUMBER		SITE DESCRIPT	ION	MAP
DISTANCE	TYPE				(MICROHABITA		NOTED?
	Nil		- 1				
						<u> </u>	
					<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	-			· · · · · · · · · · · · · · · · · · ·			
							1
					··· .		
		 .					
	SPECIES FEATU	JRES					
 DIURNAL TIGER QU 	BIRD spp OLL LATRINE AN(DEN SITES		DIURNAL B CAVES THE) MINES	
 NESTS, D 	ENS & ROOSTS O	F LARGE BIRD	S, (RAPTORS &	 DISTINCTIV 	NNELS & DISUSE(E SCATS (TIQU, K	OAL, &	
 GLOSSY I 	ATS, & HOLLOW D BLACK COCKATO(IEPENDENT SF O. ALBERTS I Y	'ECIES 'REBIRD &	 BRUSH-TAI 	LED ROCK WALLA IT SOAKS AND SE	ABY)	
BUSH TH	ICK-KNEE NESTS				TT SUAKS AND SE STCH' TREES	EFAGES	
GENERAL CO	ETS (& WHITE WA	ASH)	1050000	SEATURES: 50 LPP	ADDED CUANCE	W 070 T 00	
	JIVIIVICIATS LOGICAL ARTEF	ACTS	OUTCRO	PS ETC.	APPED CHANGE I	N STRATA OR FOREST TYP	PE, ROCKY
TRANSECT	OBSERVATION					Т	MAP
DISTANCE				- -			NOTED?
500 m	Good	sized	stags.	Some wit	L SIZEA	ble hollows	Yas
, ,				iring tree			/- >
	obvious			vere fire			
-	of bla			tags suit	•	7	
	Beton	70	urse shell		ollow ser		
·	W :	4 () (J // 11	
	walla	pals.	led s	c.orey f	angaro	s & Red-neck Bundicont	reck
		_1 , 2	JAN	ne muali	wint (Janes 1000 1	

STATE FOREST 6	rand	M.A. Casino	COMPT. 34
OBSERVER(S) D. Ste	wart, B. Thornhin	DATE FROM /0/8/98 DATE TO	REGION CODE 461
TIME	Start Time /235	Finish Time /445	Total Travel Time 2hr 10 mins
SURVEY NAME & LOCA	TION DETAILS Start Jun		second order creek cros
and travers		u cut back N,	
AMG Start	Easting 434 32 c		Easting 434500
COORDINATES	Northing 679905	0	Northing 6799380
THREATENED FLORA	Species Possible		
OBSERVATIONS			GBC PO, SO, K. HM
TRANSECT DISTANCE	FLORA NUMBER SPECIES	R AREA SITE DESI SIZE &/OR EVIDENCE (OS DIOTION
		WORLENDEROE	DE DISTURBANCE NOTED?
	<u></u>	<u> </u>	
			
		· · · · · · · · · · · · · · · · · · ·	
			1
	- SIGHTING OR FEATURE#		
TRANSECT SPECIES C	R FEATURE NUMBER	SITE DESCRIP	1104
		(MICROHABIT	A1) NOTED?
Nil			
-		<u>. </u>	
	· · · · · · · · · · · · · · · · · · ·		
#THREATENED SPECIES F	EATURES		
 DIURNAL BIRO spp TIGER QUOLL LATRIN 		 DIURNAL BIRD spp CAVES, TUNNELS & DISUSE 	D MINES
NESTS, DENS & ROOS OWLS) BATS & HOLL	STS OF LARGE BIRDS, (RAPTORS & OW DEPENDENT SPECIES	 DISTINCTIVE SCATS (TIQU. 	KOAL, &
 GLOSSY BLACK COCI 	(ATOO, ALBERTS LYREBIRD &	 BRUSH-TAILED ROCK WALL PERMANENT SOAKS AND S 	
 BUSH THICK-KNEE N OWL PELLETS (& WHI 		YEBG 'V-NOTCH' TREES	
GENERAL COMMENTS*		D FEATURES: EG. UNMAPPED CHANGE	IN STRATA OR FOREST TYPE ROCKY
& ARCHAEOLOGICAL A	RTEFACTS	OPS ETC.	
TRANSECT OBSERVA	ATION OF		MAP
Lat E.	10.00 a E 00	<u>C:- 1 · · · · · · · · · · · · · · · · · · </u>	NOTED?
1.9km Eule	lence of severe	Fire burning rig	ht te crows Yes
Goo	d stags. Few la	irge hollow beer	ing trees.
Thi	it regrowth an	-ce quite moist	at SW end
Dro	1 Forest elsewher		
	cted. Some Tal	housewood 11- Fl :-	- Barto -
		to de a la l	1. Country of
yecon il1	o order stream V	icinity suitable h. Also suitable st	abitat tor
المغيرا	who kind house	. MISO JUHANE ST	Team to Tit I DO 1 D

OALSTS

STATE FORE	ST Gira		 .			*1 SHE	ET = 1 TRANSE	ECT
			 	M.A. Ca.	sino	COMPT.	J	
TIME	"D. Stew	art, 3. Th	ornhin	DATE FROM DATE TO	10/8/98	REGION CODE	461	
TIME		Start Time /5 //	')	Finish Time	16 00	Total Trav	rel Time 55	MIN
SURVEY NAM	LOCATION	DETAILS Start	34/2	- Rd (h	alf way	0/0/-	and tra	DOTEO
3.0	2100	inge and	Slopi	ng ste	eply to	South		coer, c
	Start	Easting 43	4380		Finish	Easting	4339	10
COORDINATE	S	Northing 6	79965	0		Northing	67991	
THREATENED		Species Possible	\// c	0 (01771	80
OBSERVAT	IONS	Species Possible RB, PW	, 7-66	Sq 6 70	2 KG,S,	q.+K, 61	3C, PO,	K.
TRANSECT DISTANCE		FLORA PECIES	NUMBER	ARCA	SITE	DESCRIPTION		MAP
		. 20120		SIZE	&/OR EVIDE	NCE OF DISTURB	ANCE	NOTED?
ļ								
							<u>. </u>	
					· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
								····
			··			 -		
TUDEATENE	D CALINIA . a.a							
TRANSECT	SPECIES OR FE	HTING OR FEATURE#		· — · —				
DISTANCE	TYPE	ATORE	NUMBER		SITE DESC (MICROH			MAP
	Class	P1 1- C	6 1	1		•	1 110	NOTED?
	610559	Black Co	chato	5 1MI,	2t. Vry	sclerup	shyll tor	est
	(tores	Black Co st type 6 1 poor st ve return	52). <i>[</i>	eeding	on nu	ts of	Mocasu	irina
	(ver	1 Poor St	trutes	1 mat	ure Al	ocasua i	The sue	m
	to he	ve retur	led.	growth	becau	se of l	ow nut	riont
	soils	434280	6799	600	 -			
	, J							
	SPECIES FEATU	IRES						
DIURNAL 8 TIGER QUO	OLL LÄTRINE AND	D DEN SITES		DIUR CAVE	NAL BIRD spp			
 NESTS, DE 	NS & ROOSTS O	F LARGE BIRDS, (RAP	TORS &	 Disti 	S, TUNNELS & DIS NCTIVE SCATS (TI	QU, KOAL &		
 GLOSSY B 	LACK COCKATO(EPENDENT SPECIES D. ALBERTS LYREBIRD	8.0	 BRUS 	SH-TAILED ROCK V MANENT SOAKS AN	VALLABY)		
BUSH THI	CK-KNEE NESTS ETS (& WHITE W/			• YE80	V-NOTCH' TREES	10 3EEPAGES		
GENERAL CO		3011	'RECORC	FEATURES: FO	IMMADDED CHAI	NCE IN CTOATS	R FOREST TYPE,	· ·
& ARCHAEOL	OGICAL ARTER		OUTCRO	PS ETC.		HOE IN STRATA (A FUREST TYPE, I	ROCKY
TRANSECT DISTANCE	OBSERVATION	1 OF						MAP
500 m	Eviden	ce of sev	ere f	Tre G	ood st	ins Fo.	lane	MOTED?
	trees	with hol	lows	Limiteo	1 habita	+ of 6/6	ade /	/ 1 />
	tusseet	_			ari has		V / I	
	1	me Leav	r		sones f			
		rey Kanga	roo r	Red-no	cked "	Vallaber	hotool	
·	Bandic	oot diag	inas	-5 //6		- milany	20100	



PO A FORESTE

SPOTLIGHT TRANSECT - NORTHERN RIVERS REGION

STATE FOREST GLENZ SE MA. CASING COMPT. 34 OBSERVER(S) D. SALUGOT TO RESCRICT G. THORAN DATE FROM TO BATE FR
DETECTION METHOD(S) Detection
DETECTION METHOD(S) Ovehicular transect Census No(s)
Species Targeted St. Y-5 C. Sq G K PC MD SO TQ RB PW TRANSECT DETAILS Location Description Start + Soo m along Ture for Trail to AMG Start COORDINATES BROAD HABITAT TYPE Rainforest Sclerophyll Dry Gensus No(s) Finish Easting 434720 Finish Easting 4343.20 Northing 6.799600 Northing 6.799050 Rainforest Sclerophyll Dry Gensus No(s) Finish Easting 4343.20 Northing 6.799050 Northing 6.799050 Finish Easting 4343.20 Northing 6.799050 Northing 6.799050 Scherophyll Dry Sclerophyll Gensus Noterial Gensus No(s) Finish Easting 4343.20 Northing 6.799050 Northing 6.799050 Northing 6.799050 Northing 6.799050 Temperate Gensus No(s) Finish Easting 4343.20 Northing 6.799050 Northi
Species Targeted SS 7-5 C. Sq G K PC MD SD TQ R8 PW TRANSECT DETAILS Location Description Star + Soom along Turct for Fire Itail to AMG Start Easting 434720 Finish Easting 4343.20 Northing 6.799600 Northing 6.799050 BROAD HABITAT TYPE Rainforest Sclerophyll Woodland Subtropical Wet Sclerophyll Shrub Woodland Dry Dry Sclerophyll Health Woodland FOREST TYPE NUMBER(S) CENSUS 1 TIME Start Time 725 px Finish Time 810 px Total Travel Time 31 px WEATHER Temperature 120 C Relative Humidity Time 7.25 am / pm Impoderate - moves branches Glight - leaves rustle
TRANSECT DETAILS Location Description Start Soom along Truction Fire Itail to 600 m AMG Start Easting 434720 Finish Easting 4343.20 ROORDINATES Northing 6.799600 Northing 6.799050 BROAD HABITAT TYPE Rainforest Sclerophyll Woodland Subtropical Dry Gency Sclerophyll Heath Woodland Heath Woodland Temperate Swamp Sclerophyll Tall Woodland FOREST TYPE NUMBER(S) GLA, 122a CENSUS 1 TIME Start Time 725 ph Finish Time 800 pm Total Travel Time 3 pm Weather Temperature 1200 Relative Humidity Time 7.25 pm / pm Sclerophyll Immediate - moves branches Instrument - moderate - moves branches - moves -
Total Distance AMG Start Easting 434720 Finish Easting 4343.20 ROORDINATES Northing 6.799600 Northing 6.799050 BROAD HABITAT TYPE Rainforest Sclerophyll Woodland Swamp Sclerophyll Shrub Woodland Swamp Sclerophyll Heath Woodland Tall Woodland FOREST TYPE NUMBER(S) CL, 122a CENSUS 1 TIME Start Time 725 px Finish Time 8.0 pm Total Travel Time 3.1 pm Weather Temperature 120C Relative Humidity Time 7.25 pm pm Moderate - moves branches Dight - leaves rustle
AMG Start Easting 434720 Finish Easting 4343.20 COORDINATES Northing 6.799600 Northing 6.799050 BROAD HABITAT TYPE Rainforest Sclerophyll Woodland Subtropical Dry GDry Sclerophyll Heath Woodland Heath Woodland Temperate Swamp Sclerophyll Tall Woodland Tall Woodland FOREST TYPE NUMBER(S) G2, 1222 CENSUS 1 TIME Start Time 725 px Finish Time 810 px Total Travel Time 2 px WEATHER Temperature 120 C Relative Humidity Time 7.25 am / pm Wind Galm Gmoderate - moves branches Glight - leaves rustle
COORDINATES Northing 6799600 BROAD HABITAT TYPE Rainforest Sclerophyll Subtropical Dry CENSUS 1 TIME Start Time Start Time Start Time VEATHER Start Time Version Finish Easting 4343.20 Northing 6.799050 Sclerophyll Shrub Woodland Heath Woodland Tall Woodland Tall Woodland CA, 1220 VEATHER Temperature 1200 Relative Humidity Time 7.25 am / pm Independent on west branches Strong impedes processes
BROAD HABITAT TYPE Rainforest Sclerophyll Subtropical Dry Dry Sclerophyll Swamp Sclerophyll Swamp Sclerophyll Temperate CENSUS 1 TIME Start Time Temperature Temperature Start Time Start Time
Sclerophyll Shrub Woodland Shrub Woodland Shrub Woodland Shrub Woodland Shrub Woodland Heath Woodland Heath Woodland Heath Woodland Temperate Swamp Sclerophyll Tall Woodland Tall W
□ Dry □ Temperate □ Swamp Sclerophyll □ Heath Woodland □ Swamp Sclerophyll □ Tall Woodland □
Temperate Swamp Sclerophyll Tall Woodland
FOREST TYPE NUMBER(S) CENSUS 1 TIME Start Time 72 px Finish Time 8 pm Total Travel Time 2 pm WEATHER Temperature 120 C Relative Humidity Wind Grain Impoderate - moves branches I strong - impedes progress
TIME Start Time 725 p. Finish Time 800 p. Total Travel Time 2 p. WEATHER Temperature 120 C. Relative Humidity Time 7 · 25 am / pm Wind Graim
Wind Relative Humidity Time 7 · 25 am / pm Wind Gralm Indicate - moves branches Dight - leaves rustle
Wind Relative Humidity Time 7 · 25 am / pm Wind Gralm Indicate - moves branches Dight - leaves rustle
Wind Greatm moderate - moves branches Dight - leaves rustle distrong - impedes progress
Light - leaves rustle
Determined a strong impedes progress
Rain
Night light
☐ dark - quarter moon or moon with heavy cloud ☐ bright - half moon or more and no cloud
CENSUS 2
TIME Start Time 7-00 pm Finish Time 7-40 pm Total Travel Time 40 min
WEATHER Temperature // C Relative Humidity Time 7 - no seed no
Wind Scalm
Rain
☐ evidence of rain in the last 24 hrs
Night light
OBSERVATIONS □ dark - quarter moon or moon with heavy cloud □ bright - half moon or more and no cloud
DIST. CENSUS SPECIES
NO. OBS. DIST. from TRANS TYPE OBS. TYPE OBS. TYPE OBS. DIST. from TRANS Count NOTES (AMGs for S1&S2 spp, note if count is an estimate)
300m 1 Greater Glider Signted 10m 1 2700
400m 1 Littoria verrenuxii Call 175m 2 Calling From creek 12
400m 1 Crinia significa Call 75m 5 " 124
600m 1 Azbable Nyctophilus cp. Call 20m 1 100-1200
50m 2 Greater Glider 0 5m 1 Overhead :
75.40 7 1 1
PAGE 1 of 2 . SKETCH MAP OVERLEAF? XFS 1 NO

Coupy Soucha

(1)

BSERV	ATIO	D. Stewart, B. Thorn	him		DATE	10/8/98
ST. T	RANS. NO.	SPECIES	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)
25 m	2	Southern Boobook Owlet Nightjar Greater Glider	W	350 m	l	1150
m	2	Owlet Nightjer	W	100m	1	170 -
som	2	Greater Glider	0	75 m	1	270°
_						
_						
			ļ.——			
			 			
ETCH MA PRTH OP J	AP (INC	LUDE DRAINAGE, ROADS AND TRACKS, DISTANCES,	BEARINGS)	- I -,,,,,,,,,,	_ _	· · · · · · · · · · · · · · · · · · ·



SPOTLIGHT TRANSECT - NORTHERN RIVERS REGION

STATE FOR		GIRE			M.A. CASINO				COMPT. 34	
OBSERVER	₹(S)		eteroat B.	Thornhin	DATE DATE	FROM (+\8\"13 018/98	,	REGION CODE 461	
SURVEY NA	AME		MNEST				ANSECTS	1	LCODE COL	
DETECTION	N METH	OD(S)	☐ vehicular tr	ansect	Census	No(s)	Note		·	
			☐foot transe			No(s)				
Species Tar	geted	tolf-	<u>L</u>					R	B PN	
Species Targeted DET PO SO MO K 7.56 Sq6 TQ RB PW TRANSECT DETAILS Location Description Ricke along 34/2 Rd. bearing N.E.										
Total Distance										
AMG Start Easting 433750 Finish Easting 434380										280
COORDINA	TES	•	Northing	67992		· · · · · · · · · · · · · · · · · · ·			Northing 6799	
BROAD HAE	BITAT T	YPE	Rainforest		Sclero	phyll			Woodland	
			☐ Subtropical ☐ Dry	!		Sclerophyl		<u>.</u>	☐ Shrub Woodland	
			☐ Temperate			Sclerophyll Imp Sclerop			☐ Heath Woodland ☐ Tall Woodland	İ
FOREST TY	PE NU	MBER(S)	<u> </u>			. 16.			L I BII TYOOUIBIIU	
<u>CE</u> i	NSUS 1		!						<u> </u>	
TIME			Start Time	1010 pm	Finish	Time	11 55 pm	~	Total Travel Time 5	5 mins
WEATHER			Temperature			e Humidity		<u>-</u>	Time 10 -10 -am	
Wind			≧ calm	\	L			oderate -	moves branches	. рии
Poin			☐ light - leave						pedes progress	
Rain			☐ rain during ☐ evidence o	survey f rain in last 24 hr	•		<u> </u>	evidenc	ce of rain in the last 24 hrs	
Night light		******		no moon+cloud	-		□ de	tail seer	- moon and clear sky	
			dark - quar	ter moon or moon	with hea	avy cloud			alf moon or more and no clos	ud
	NSUS 2									
TIME			Start Time	9.20 pm	Finish Time 10.10 Pm				Total Travel Time 50	min
WEATHER				10.500					Time 9.20 am	/ pm
Wind			□ calm ∰ight - leave	e nietla					- moves branches	
Rain	_		☐ rain during						pedes progress ce of rain in the last 24 hrs	
AU 17 B 37				frain in last 24 hr	s					
Night light				no moon+cloud ter moon or moon	with ha	- مام میرد			- moon and clear sky	
OBSERVA	TION	<u> </u>	- uaix - quai	ICE THOUSE OF THOON	with nea	avy CIOUO	₩ 01	ignt - ha	of moon or more and no close	nq
	NSUS NO.	SPECIES	6		_	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S count is an estin	
150m 1		Grea	to Glid	år		Signited	0~	1	On her without	J troubet for
6002	\	<i>13</i> 4 ≈	tophilos	b. (bopy) - 	call	20 r	١		3
								-		
150m	2	Rec	x-neckei	d Walla	ibq	0	40 m	1	300	
Soom	2.	Gre	ry Gos	d Walla Lawk ey Kang		0	50 m	l	AF perched	320°
550m	2	Eas	itern Gr	ey Kang	arco	0	75m	1	350°	
PAGE		, /	SKETO	MAD OVED		0 1/25	L	<u> </u>	L	



CALL PLAYBACK - NORTHERN RIVERS REGION

STATE FOREST GIR	ARD SE		M.A. CA	SINE		COMPT,	34		
	ewart B.11 055211 B.11	hornhin	DATE FROM 4/8/98 REGION CODE 461						
SURVEY NAME \mathcal{P}_{r_c}	· logging		Part of Spotlig			specify N. en	1 Jundion Fire		
DETECTION METHOD(S)	✓arboreal mamn	mals	☐ diurnal bird	s	-	☐ other	172		
	₩ nocturnal birds	5							
Sp. Targeted/Calls Played	PO BO	MO SO	K 7-56	506	1	10 not Pla	yed 10/8/98		
SITE(S) - AMG Site		43472		-90			100 10170		
COORDINATES Zone		7996			Notes				
BROAD HABITAT TYPE	Rainforest	1790	Sclerophyll			Woodland			
(1 only)	Subtropical		Wet Scleroph	yll 🔲		Shrub Woodland			
	Dry 🗀		Dry Sclerophy	•		Heath Woodland			
	Temperate 🗆		Swamp Sclere			Tall Woodland			
FOREST TYPE NUMBER(S			122a	sprijs.		Tan YYOOGIAIIG	<u> </u>		
LOCATION DESCRIPTION	500 m 5	along	The :	Luct	riel -	tire Tra	Il From		
Brl	xner Hi	ghway					- TON		
CENSUS 1		155	Finish Time:	191	D	Total Travel Time	Phr 15 min		
WEATHER	Temperature /4	4.500	Relative Hum	idity	*	Time /755	ent / pm		
Wind (1 only for all)	☑ calm		<u> </u>	···		- moves branches	· · · · · · · · · · · · · · · · · · ·		
Rain	☐ light - leaves ru☐ rain during sun		····			pedes progress			
Nam	evidence of rai	•	' 'S		≅no eviden	ce of rain in the last 2	14 hrs		
Night light	very dark - no			·	□ detail see	n - moon and clear sl	rv		
	dark - quarter r		with heavy clo	ud		alf moon or more and			
CENSUS 2	Start Time: /:	755	Finish Time:	/85		Total Travel Time			
WEATHER	Temperature ,	12.500	Relative Hum	idity			> em / pm		
Wind (1 only for all)	© calm				☐ moderate	- moves branches	у ин у риг		
	💹 🖸 light - leaves n				strong - im	pedes progress			
Rain	☐ rain during sur				E no eviden	ce of rain in the last 2	4 hrs		
Night light	evidence of rai		rs		O detail and				
	dark - quarter r		າ with heavy clo	ud		n - moon and clear sl alf moon or more and			
OBSERVATION DETA					O bright - he	an moon or more and	NO CIOUG		
CENSUS SPECIES		OUNT RESPO	ONSE (ESTIMATI	Ε)	NOTE	S (appearance, sex,	note if count an		
NO	TYPE	DISTAL	VICE .	BEARNIO		estimate, AMG of			
11/		DISTAI		BEARING	<u> </u>				
1 Masked C		1 250	(+-) /00	50	4	34 900,	6799780		
1 Sugar 6	ider W	1 150) ⁽⁺⁺⁾ 75	290	Ca	led ofter	Squirrel layback		
1 Owlet M	ghtjer W	1 150	s (++) 50	140	cal	Red during			
			(+/-)						
2 Southern	Booked W	1 400	(+-) 100	175	Ca	lling before	e a cloring Po		
2 Grey how	(Hyrn Fox W -	2 100) ⁽⁴⁻⁾ 50	100	Call	led during	So		
2 Tawny Fro	gmouth W	1 50	· (+·) 10	240			and after X-b		
2 Owlet N	ghtjar W	1 100) (+) 2 5	130		hed durin			
PAGE / of / SKETCH MAP OVERLEAF? YES / NO									



CALL PLAYBACK - NORTHERN RIVERS REGION

STATE	FOREST	Gira	rd 9	SF		M.A. Casi	4 4	COMPT. 34		
OBSE	RVER(S)	D. Ste J. Rus	ward	3.Thor	h .:	DATE FROM -	+/8/98	REGION		
SURV	EY NAME		10991	2. /NOT	W.111X		0/8/98	CODE 461		
DETE	CTION ME	THOD(S)	arboreal		<u> </u>		ransect? YES LNC		· Kal	
			noclurna			diurnal birds		O other		
Specie	s Targeted	PO	30 /	Mo	50	-V-41-7				
SITE(S	S) - AMG	Site	Easting	434		K 756				
COOR	DINATES	Zone	_	6799			Notes			
	D HABITA	TYPE	Rainforest		00	Sclerophyll		Woodland		
(1 only)		Subtropical	0		Wet Sclerophyll	0 ,	Shrub Woodland		
			Dry	0		Dry Sclerophyll	2	Heath Woodland		
COBE	ST TVOC N	UU (DED/A)	Temperate	0		Swamp Sclerophy	d o	Tall Woodland		
		IUMBER(S)				62		·		
		CRIPTION 16	, w	alon	j	34/2 kd	near	Beech Rd en	J.	
CENSI			Start Time:	205	70	Finish Time:	2205	Total Travel Time 16 15	~	
WEAT			Temperatur	e /2	00	Relative Humidity		Time 2050 em / pm		
Wind (1 only for a	ll)	Calm				☐ moderate	- moves branches		
Rain	<u> </u>		☐ light - lea ☐ rain durin				strong - in	pedes progress		
			☐ evidence	of rain in I		rs	ano eviden	ce of rain in the last 24 hrs		
Night li	ght	•	very dark				☐ detail see	n - moon and clear sky		
CENSI	JS 2		Start Time:			with heavy cloud		alf moon or more and no cloud		
WEAT			Temperatur	~	25		21/5	Total Travel Time . 1 10	mini	
	only for a	ll)	E Calm	<u> </u>	3 5	Relative Humidity		Time 2005 em / pm		
			🗆 light - 1ea	ves rustle				- moves branches spedes progress		
Rain			☐ rain durin				☐ no eviden	ce of rain in the last 24 hrs		
Night li	ght		□ evidence □ very dark			rs	C) dotail acc			
0000						with heavy cloud	oright - ha	n - moon and clear sky alf moon or more and no cloud		
DATE	CENSUS	N DETAILS SPECIES		ODC	COLUE	Lacoco		and no cloud		
		0. 20.20		OBS.	COUNT	RESPONSE (ESTIN	MATE)	NOTES (appearance, sex, note if	count	
	NO.			TYPE		DISTANCE	BEARING -	an estimate, AMG of S1	or S2)	
4/8		N_1/re	sponse			(+/-)				
						(+/-)				
108	2	Owlet 1		W	1	200 (+1.) 5	0 15:	Called during T	0	
	2	Powerf	ul au	W	AM,	450(+1-) 10	0 /85	Called ofter Be 433630 6798		
<u>-</u>	2	Owlet.	Nghtjar	W	1	150 (+1-) 50		~ ·	Mo	
	<u>-</u>					(+/-)				
						(+/-)				
						(+/-)				
PAG	PAGE of / . SKETCH MAP OVERLEAF? YES / NO									



SCATS - NORTHERN RIVERS REGION

STATE FOREST GIRA	BO	M.A. 7		FR FIULD	COMPT. 34					
OBSERVER(S) K HARV	EY B. THORNHILL	DATE	7- %	-88	REGION CODE 461					
TRANSECT LENGTH 4772										
Time Start 2:00	Time Finish 2:30	Total Tra	avel Time		Species Targeted					
DETECTION METHOD(S) 1 Km road transect per 200 ha net logging area										
BROAD HABITAT TYPE Rainforest Sclerophyll Woodland										
ļ	☐ Subtropical	☐ Wet S	clerophy	/II	☐ Shrub Woodland					
	□ Dry	□ Dry S	clerophyl	li	☐ Heath Woodland					
FOREST TYPE NUMBER(S)	☐ Temperate	☐ Swam	p Sclero	phyll	☐ Tall Woodland					
AMG Start	Easting	Cipioh								
COORDINATES	Northing	- Finasii	Finish Easting							
Location Description	Holling		Northin	ng						
Location Description	*	 -		<u> </u>						
SAMPLE DETAILS	· _ · · · · · · · · · · · · · · · · · ·									
					ANALYSIS ATTACHED? YES / NO					
	CIES OBS	PROBA		ANALYST	NOTES					
ID	TYPE scat / in	STAT 1 = de								
	scat or	2 = pro	bable							
	track	3 = pos	sible							
50m 1 F	og .	1								
250, 2 0		,								
250 2 C	loa									
		ļ								
-				···						
				<u> </u>						
· ·		ŀ								
		- -								
SKETCH MAP (INCLUDE DRAIN	AGE, ROADS AND TRACKS, DISTANC	S, BEARING	S)	•						
NORTH										
[TOP]										
					•					
			_	<u> </u>						
PAGE of	. •									



SCATS - NORTHERN RIVERS REGION

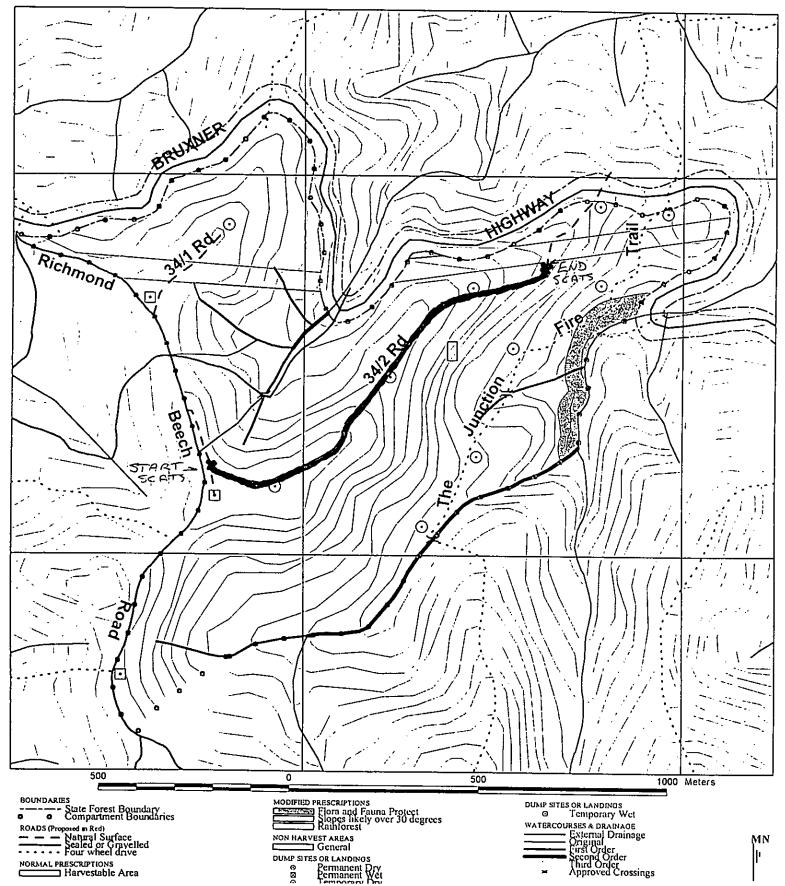
STATE FOR	EST C	-15	ard St		M.A.		<u> </u>	COMPT. 3.
OBSERVER(S) B. Thomhyl					DATE 27-7-93			REGION CODE 461
SURVEY NAME					34/2			
DETECTION	METHOD	(S)	1 Km road transect per 20	0 ha net logo				TRANSECT LENGTH 1.2 Km
BROAD HAE	SITAT TYP	Ē,	Rainforest		Scleroph	vii	<u> </u>	Woodland
			☐ Subtropical		☐ Wet Se	clerophy		☐ Shrub Woodland
			☐ Dry ☐ Temperate		된 Dry Sc			☐ Heath Woodland
Forest type r	numbers		- Cimperate		☐ Swam		63 b	☐ Tall Woodland
AMG	Start	!	Easting 43315	 D	Finish	Eastin		600
COORDINAT	ΓES	ĺ	Northing 67993;	TD)			00 4704	90:3
Location Description capper ridge to pridate ridge, east expect Took generally covered in letter tessential								
		 _			9 ,	101	Time gene	they course in him feasirely.
Time Start	1.30 p	m	Time Finish 3 30	· · · ·	Total Tra	ual Time	20	
		1	IPLE DETAILS	<u>r</u>	Total Ira	ver rime	3 Lh.	
DISTANCE	SAMPLE				··			ANALYSIS ATTACHED? YES / NO
DISTANCE	ID	SPE	DIES .	OBS	PROBAE STAT		ANALYST	NOTES
	ļ			scat or	1 = definite	e		
			.•	in scat	2 = probat			
0.0		Red	Neck wallow	Scuit	3 = possib	ile	·	1 Sighting of coult Of
				30271				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
50 M			j -lage	Scut,	1			il. Stoppy, purs. Say Row a growning hairs? Fresh.
		5.7	Kimproo	Sept	2-			A growing hairs (Frish
Jom		ر بن المهان	1 -10-132- 11-150? Benes	Scart 1. Scirt	2			old
130:0								
1 70		Keel 1	ech William	5 c.:★	2			
150 1		F4	above		1 2			
180 -		Do	<u> </u>	Sect	1			ola ³
190-		Ď	<u> </u>	SwA	1			old
230		D-07	5 Sunt/Suntit		1			Frish
4.00m		D.	e scart	Set				<u> </u>
		L.	J	22.	1			eid
900 ~		D-0-9	Scut/scentil					Frish
			<u> </u>					
SKETCH MAP	(INCLUDE	DRAINA	AGE, ROADS AND TRACKS	S DISTANCE	S BEADIM	I	71636. 2007 34/2 R	0.5:1
NORTH				5, 5.01AIIOL	O, BEARING	33) ~ <i>[</i> :	11636 · 300-	-@F1/113h
[TOP]	Stat		مستع		,	"!	-711/2 R	o e d.
)ົ່_ __ າ	نىستىن 5	~ 3		•		34/2	į
ځ	` //			_ (3 _{0,00}				
CITA		<u> </u>	أبحرتنها المراثاتين	, 4- >				
11.0	مهريس	ં જ્યુ	O'O TENH FOLL	\.		ردرم		
	~	ich.	JO TERK - FOLLOWING	73.	Dura	U		
	71	· /						1. 1
			Wellowy & D.A.	ectivity	Seede	á um	will girrade	- Road.
			F pullites the	upper 1	بهاد عوانه	الجسد ر	r. Beach	- Kood .
D (_

NORTHERN RIVERS REGION - GLEN_NEW DISTRICT HARVEST PLAN OPERATIONAL MAP
COMPARTMENT 34
GIRARD STATE FOREST
UNKNOWN MAP SHEET
HARVEST PLAN NUMBER 0
SCALE 1:10000 37071000

SCALE 1:10000 27/07/1998

78+4+15 +3 100 ha.





Frelining sway / touch location etc.

1. Scot tomsent of 1.2 km untertaken along

34/2 Road - 2 what tomber generally covered in

leaf little & tensoch (Por sp?). Cordition after rain OK.

Well used in higher ridge oven by wild dogs of

monopods (R/N wollamy sightings & seate). Also evidence

of protected notice plat removal (P. tiperature fronds of

section of D. speciosin onlind etc). Rightal pormer

seats resonably common is several overs on pre

seat tomost sheet.

Short with to islentify bound Enc. Sp. brested greater glober seats away from road. 2. Junction fire trail was driven to own

Surtable for transact work & claimson ops. (not require).

Trail my not be suited to repetetin use after heavy rain 27/7 \$ 28/7/98 until it has time to adapt the dry out.

This tail is probably the most soutistle with
for play books & a Harp top wild be placed at the
gully crossing about 73. is of the ung in furthe higher
The justine of Bourbird & Beech Rooss would probable
a second "gully-head." site for playbooks.

4. Rad 34/1 um cherhod of is possable but has remortly deme

should still be resoutly passable ofter rain if not over-used. Greater glider & Righter Scots we broted works a white photography. Rosobride rest aren/grobye bries will probably act as a form point for various scourge sp. eg cats, dop, fixes & some possums.

6. Surry worked out by heary poin.

B. Thomasil.





DIURNAL BIRDS - NORTHERN RIVERS REGION

STATE FOREST GIFARD SF			M.A. Casino				COMPT. 34		
OBSERVER(S) D. Stewart				FROM //		8	REGION 461		
				NUMBER OF TRANSECTS/SITES /					
				phyli		_	Woodland		
		☐ Subtropical		.Sclerophyll	<u>.</u>		☐ Shrub Woodland		
		☐ Dry ☐ Temperate		Sclerophyll	•		☐ Heath Woodland		
FOREST TYPE N	IUMBER(S)	List remperate		mp Scleroph	yti		☐ Tall Woodland		
METHODS			1	76		,			
Walk	ς	of compart m	or ent	Pirst looki	ng Fe	er r P	stream in SW com		
CENSUS 1 - TRA	ANSECT 1	Location Description We	+ 5	0585+	austi	e 1'h	sw corner of		
Total Distance 4	+00 m	compartne	m+		1011	, , , ,	3,0 32,72, 3,		
Species Targeted	70	MO SO RG Y.							
TIME	<u> </u>	Start Time 0735	Finish	Time • •			Total Transition		
AMG	Start		Щ	THIE O	320		Total Travel Time 45 mins		
COORDINATES	Statt	Easting 4335c			Finish		Easting 433540		
		Northing 67987					Northing 6798900		
WEATHER		Temperature 7.5°C	Relativ	e Humidity			Time 0730 am / pm_		
Wind		□ calm	-				- moves branches		
Rain		☐ light - leaves rustle					npedes progress		
1\alii		☐ rain during survey ☐ evidence of rain in last 24 hr	•		Shi	eviden	ce of rain in the last 24 hrs		
OBSERVATIO	NS	Li cridence di Tani III lasi 24 III	<u>. </u>						
DIST. TRANS.	SPECIES			OBS.	DIST.	Count	NOTES (AMGs for S1&S2 spp, note if		
NO.				TYPE	from TRANS		count is an estimate)		
	Spotte	ed Quil-thru	sh	0		2	Flushed off read at start of traverse		
	Stria	ited Thornbi	11	%		> 50			
	White	e-browed Scrubn	uren	%		75			
		ern Yallow Ro		\sim		1			
	Yellow	-foed Honeye	acter	W		10			
		ing Kookaburra	<u>ن</u> ــــــــــــــــــــــــــــــــــــ	3		2			
	Easte	ern Spinebill		0/2		2			
	Greg	Shrike-thrush		W		1			
	Fan-	tailed Cretuo		W		1			
	Brow	in Thornbill	<u> </u>	W	_	2			
	Spot	ted Pardulot	<u>e</u>	W		>5			
	White	. throated Treecree	per	W		2			
		Fantail		0		1			
	White	- raped Honeyes	ater	9/w		>5			

PAGE / of L SKETCH MAP OVERLEAF? YES / NO

OBSERVER((S) D.A. Stewart	· <u>.</u>	_	DATE	11/8/98
OBSERVATI				<u> </u>	
DIST. TRANS		OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)
	Lewins Honeyeater	0/w		2	
	Red browed Treecreeper Crimson Rosalla	<u>۵</u>	<u>-</u>	1	
	Crimson Rosella	W		2	
	Satin Bower bird	N		,	
	Silvereye	7	·	> 5	
	Red-browed Finit Pied Curramong	%	_ -	710	
	Red Currawong	W		2,	
		-			
			<u> </u>		
		_			
			-		
SKETCH MAD (IN	OCCUPE DRAINAGE BOARD AND TO AGG DISTANCES OF				·
NORTH [TOP]	NCLUDE DRAINAGE, ROADS AND TRACKS, DISTANCES, B	EARINGS)			

PAGE 2 OF 2

	birds see	~ The	ard thro	isahout t	HEET per 500 m transect or place survey, include			
		6140	and SF	<u> </u>	COMPT. 34			
OBSERVER(S) D. S+	ewart		DATE FROM 4	1/8/98	REGION			
SURVEY NAME `			DATE TO //	18/98	CODE 461			
DETECTION METHOD	Danil slavkastvii		Transect Survey ?	or Poin	t Survey ? []			
	Scall playback / lis		Species Targeted		Calls Played			
	□ other ! [A.V.	erse.	R6, 59.+6					
•	·		RH. Po.	Mo, So				
AMG COORDINATES	Easting		End (if Easting					
Zon 5	Nothing		Iransect) Northing		Map Scale			
BROAD HABITAT TYPE	Rainforest		Sclerophyll	Wor	diand			
(1 only)	Subtropical ()		Wet Sclerophyll		o Woodland 🖸 Subalpine Woodla			
	Dry 🗆		Dry Sclerophyll	:	n Woodland ☐ Open Grassy Wdlr			
FAREAT TAREAU	Temperate []	**************	Swamp Sclerophyll	•	Voodland			
FOREST TYPE NUMBER(S)		62,60,47,74		***************************************			
LOCATION DESCRIPTION		. / Lea			nethodologies o			
	ed teri	ocl.	•	۷ '	1			
CENSUS 1: WEATHER Temperatura	Start Time:		Finish Time:		Total Travel Time			
WEATHER Temperature	e: Dry Wet		Relative Humidity (iptional):	Time am / pm			
Wind (1 only for all)	☐ calm							
	☐ light - leaves rust ☐ rain during survey				oderate - moves branches ong - impedes progress			
Rain		On avidance of min in the last of the						
CENSUS 2:	☐ evidence of rain in Start Time:	i last 24 hi						
WEATHER Temperature			Finish Time:		Total Travel Time			
	, biy wei,		Relative Humidity (c %	ptional);	Time am / pm			
Vind (1 only for all)	□ calm		<u>:</u>	O ma	derate - moves branches			
Rain	☐ light - leaves rustle			🗆 stro	ong - impedes progress			
	rain during surveyevidence of rain in	i last 24 hr	•	On D	evidence of rain in the last 24 hrs			
DASERVATION DETAILS								
DATE SPECIES	oës.	COUNT	OBSERVATIONS		NOTES (appearance, sex, note if count a			
- V /	TYPE		DISTANCE	BEARING	estimate)			
Yellow-tai	led Fortion		(+/-)					
Southern B		1		-				
	_ 		(+/-)					
Satin Bowe	er bird		(+/-)					
Grey Botche			(+/-)					
		+		<u>i</u>	<u> </u>			
White-winged Sulphor-Ere			(+/-)		<u> </u>			
130,100,100	· sau		(+/-)					
Cackatoo			(+ <i>l</i> -)	· .				
	40W		• •	: 1				
Torresian C	. 		tat A					
	uctoo		(+/ ₄)					

OBSE	RVER(S	i) D. Stewart			DATE		ו
	RVATIO	NS			<u></u>		
DIST.	TRANS. NO.	SPECIES .	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)	
		Superb Fairy-wren					
	 	Grey Funtail					
ļ <u>.</u>		Red-browed Finish					
	ļ	Noisy Friarbird					
		Tawny Frogmouth					
		Grey Goshawk	0		1	Spot lighted	
		Lewin's Honeyeaster					
		White-naped Huneyeaster					
		Yellow- Faced Honeyeater	•				
		Laughing Kookaburra		•		·	
		Masked Lapwing					
		Rainbow Lorikeet					
		Australian Magpie					٠.
		Olive-backed Oriole					
		Australian Owleting Lifar	<u> </u>				
		Spotted Pardalote					
		Struted Pardalote					
· · · · · · · · · · · · · · · · · · ·	<u> </u>	Spotted Quail-thrush				Hushed from tracks/ three times	roac
		Australian Kaven					,
		Eastern Yellow Robin		·			
		Crimson Rosella					
SKETCH	MAP (INC	LUDE DRAINAGE, ROADS AND TRACKS, DISTANCES, B	EARINGO.		·		

SKETCH MAP	(INCLUDE DRAINAGE	, ROADS AND TRACKS,	DISTANCES,	BEARINGS)

NORTH [TOP]



OBSE	RVER(S	5) D. Stewart			1	
	RVATIO				DATE	
DIST.	TRANS. NO.	SPECIES	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)
	ļ	White-browed Scrubwren				
		Grey Shrike-thrush				
	<u></u>	Silvereye				
	<u> </u>	Varied Sittella				
		Eastern Spinebill				
		Brown Thornbill				
		Buff-rumped Thorn 5:11				· .
		Striated Thornbill	-			
		Brown Treecreeper				
		Red-browed Treecreeper	,	 		1
		Willie Wagtail			_	
		Red Wattlebird	W		1	Called Vicinity Bylay back Site z
		Golden Whistler				3/40 21 S/46 21
		Glossy Black Cockatoo	0		3	1M, 2F
	·					
	· 					
				-		
			-		-+	
SKETCH	MAP (INC	LUDE DRAINAGE, ROADS AND TRACKS, DISTANCES, BE	EARINGS)	<u>L</u>		

SKETCH MAP (INCLUDE DRAINAGE	, ROADS AND TRACKS,	DISTANCES, BEARINGS
NORTH		•

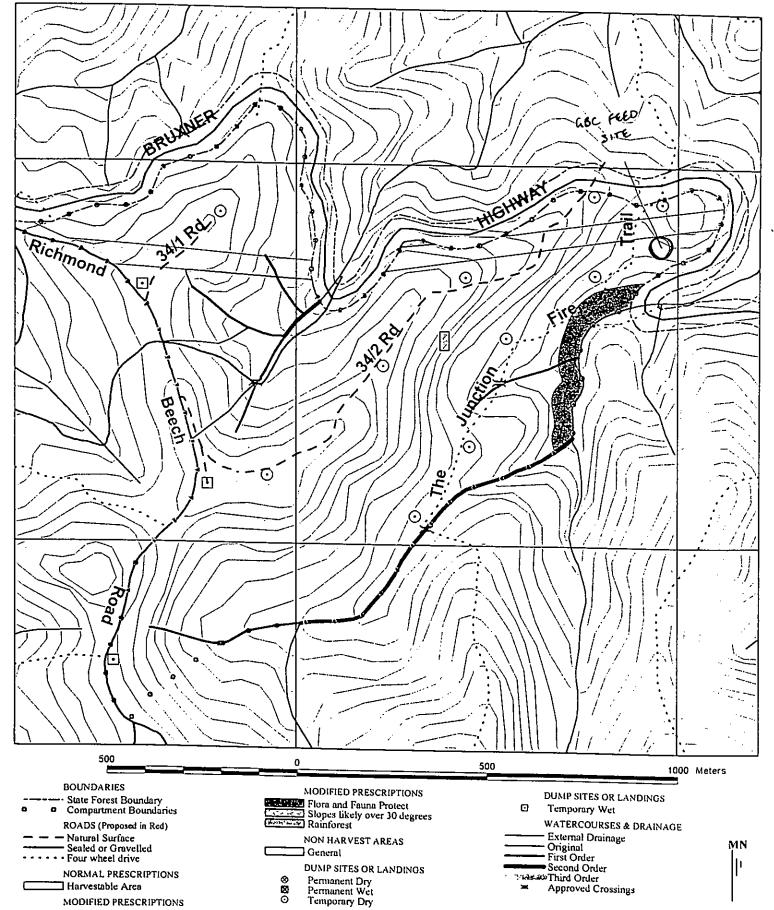
(TOP)

PAGE 3 OF 3



NORTHERN RIVERS REGION - GLEN_NEW DISTRICT HARVEST PLAN OPERATIONAL MAP **COMPARTMENT 34 GIRARD STATE FOREST** UNKNOWN MAP SHEET HARVEST PLAN NUMBER 0 SCALE 1:10000 07/08/1998





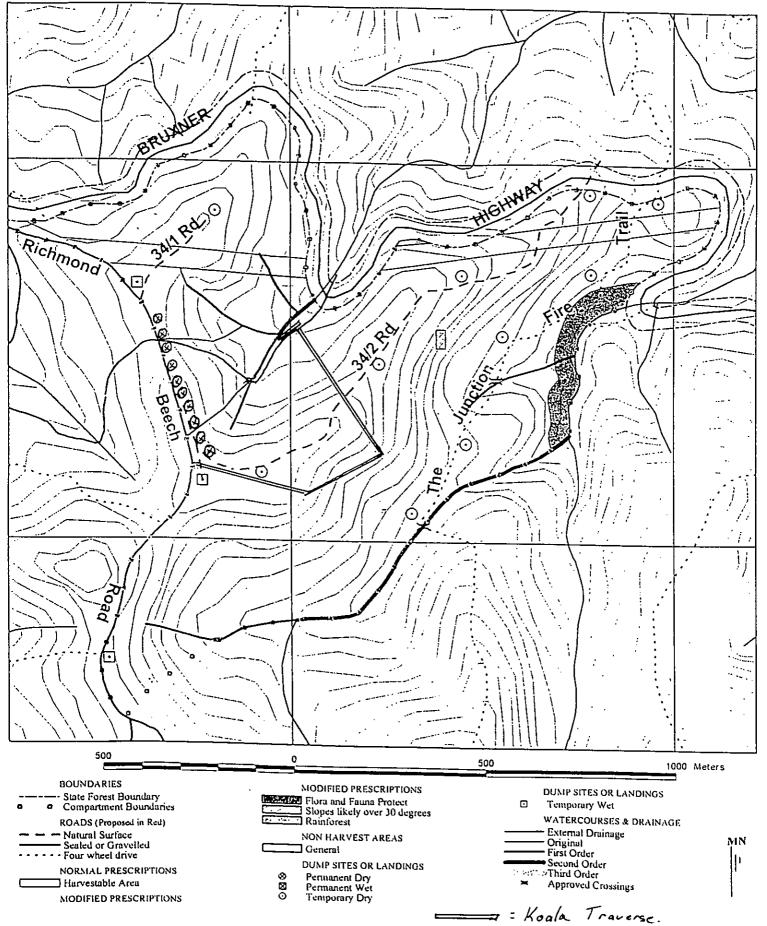
MODIFIED PRESCRIPTIONS

TRAVE	RSE SURVEY / KOAL	A TRANSECT	-NORTHERN	RIVERS REGION
STATE FORES	I Grad	MATENTERSield	COMPT 34	KOALA SUBSCIENT
OBSERVER(S)		DATE FROM	REGION	5 TREES PER 50 M 1KM PER 10044
Klkyve	y B. Thornhill	DATE TO J Brug 7	CODE 461	5 TREES PER 50 M 1KM PER 100HA
START TIME //	1.15 TRAVEL TIME 1.45.	START EASTING		START EASTING
SURVEY NAME	Pre-Hawest.	NORTHING		10分° NORTHING
THREATEN	ED FLORA OBSERVATIONS			TOTAL
SPECIES SEAR	LINED FOR			SPECIES approx OTHER
				h. n/ 20:00 1/1/1
				2 13 G 20-40 "
TRANSECT	FLORA NUMBER	AREA SITE DES	CRIPTION MAPIAMO	1 1 10 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DISTANCE	SPECIES	SIZE & SITE DISTU	JRBANCE (?) NOTED?	5
				6 NBT GOGO Extend
				7 Will Bo 100 Wallaby
			-	* BG 40.60 " J
				9 BG 25 40
				10 BG 20-40 100M
				12 40 - 60 E Gray
				13 (+ (- 20 70 Wallahu
	IED FAUNA - SIGHTING OR FEAT	URE#		14 —
TRANSECT DISTANCE	SPECIES OR FEATURE NUMBER	SITE DESCRIPT		15 G G 20.40
DISTANCE	TYPE	(MICROHABITA	AT) NOTED?	16 13 G 40 60
				17 BG 40-60
				18 66 70 60
				100 T
			···	21 OAK 20-40
<u> </u>				22 TWD 40-60 Withaha
				23 1 60 - 40
				24 TWD 20-40
				25 WM 20-40 Wallat
				27 WM 40.60 wallahy
				28 CAK 26 70 Willsky
				29 TWD 40-60
				30 The 20 4/C 300M
				31 N BT 90-70 32016 1
	SPECIES FEATURES		i	32 TWD 40.60 33 GG 40.60
• BIRD SPP	L LATRINE AND DEN SITES	BIRD SPP		34 Th/D 20-40 / Sect *
		CAVES, TUNNELS & DI	SUSED MINES	35 BG- 60.80 Williams
	OWLS) BATS, & HOLLOW	 DISTINCTIVE SCATS (*) BRUSH-TAILED ROCK 	TIQU, KOAL, &	36 TUD 40.60
DEPENDENT		• PERMANENT SOAKS A		37 Twn 20-40 mula 100
	CK COCKATOO, ALBERTS	 YEBG 'V-NOTCH' TREE 	S	39 Nullah
	BUSH THICK-KNEE NESTS	<u>• OWL PELLETS (& WHIT</u>	E WASH)	40 WM 40.60 Willahu
	OMMENTS* & *RECORD DGICAL ARTEFACTS OR FORE	FEATURES: EG. UNMAPPE	D CHANGE IN STRATA	41 N/13 F 40 60
TRANSECT	OBSERVATION OF	ST TYPE, ROCKY OUTCRO		42 TWO 20-40
DISTANCE			MAP/AMG NOTED?	10 751 40 00
			NOILDI	45 - 20 40
				16 7 20 40
				47 WM 40-60
<u> </u>		 _		48 WM 20-40
				49 WM 20-40
				50 TWD 20-70 500M

TRAVERS OBSERVER(S)		Y (CONTINUED) NO		OF		ll .	URVEY (C	ONTINUED)	
			DATE			5 TREES PE	R 50 M 1K	M PER 100HA	
THREATENED		ERVATIONS				300			
SPECIES SEARC	CHED FOR					TREE	DBH	SCATS or	
TRANSECT	FLORA	NUMBER	ADEA	CITE DECORIDATION		SPECIES	(approx)	OTHER	
DISTANCE	SPECIES	HOMOLIY	SIZE	SITE DESCRIPTION	MAP/AMG	51 W.71	20-40		
			JIZC	& SITE DISTURBANCE	(?) NOTED?	52 27	20-40		
						53 1/19	40-60		
			·			54 Tiv 1)	20.40		
						55 OAK	20-40	550 M	
				 		56 TWD	20.40	Wallaha	
1						57 TW 13	20-40	1.	
						58 TWA	20.40	,,	
						59 G G	20 70		
				· · · · · · · · · · · · · · · · · · ·		60 TWD	20.40	600 M	
						61 GG	20-40		
		·—- <u> —</u>				62 TWD	40-60	wallahy.	
						63 TW 1)	40-60	- Comany	
						64 rwn	40-60		
						65 GG	20-40		
						66 N/37	40.60		
THREATENE	D FAUNA - ŝig	HTING OR FEATURE#			,+	67 Two			
DISTANCE	SPECIES/FEAT	TURE TYPE NUMBER	SITE (MICRO	DHABITAT)	MAP/AMG?	68 -	40.60		
						68 Tiv 17	60 30		
						69 4/19	40-60		
				· · · · · · · · · · · · · · · · · · ·		70 TWD	40-60	700 M	
						71 36	40.60		
						72 136	20-40	· · · · · · · · · · · · · · · · · · ·	
						73 ~/7	20.40		
		······································				74 6/19	40.60	Wallaby	
						75 w m	40.60		
						76 W ,~	40-60	Wellah	
						77 WM	20.40	J	
						78 13 C	40 60		
						79 13 141)	40-60		
	·				 	80 12.0	40-60	800 M	
						81 WM	40-60		
						82 / W/D	20-40	Wollshy	
						83 TWD	40 60	J	
05115041 001						84 <i>j</i> 3 <i>G</i> -		Wallaroe	
GENERAL CON	MENIS & AR	CHAEOLOGICAL ARTEF	ACTS	•		85 13 C	20.40		
RECORD FEAT	URES: EG. UNM	APPED CHANGE IN STRAT.	A OR FORES	ST TYPE, ROCKY OUTCR	OPS ETC.	86 TWD	20.40		
TRANSECT	OBSERVATION	N OF			MAP/AMG	87 W M	20-60		
DISTANCE	·				NOTED?	88 WM	20-40	······································	
					<u> </u>	89 TWD		Rednerked W 5	154
						90 13C	20-40		J
	1					91 TWD	20 40	-21-1/chy 900 M	
						92 575	20-40		
			_	-		93 36	00-70		
						94 Th/1)	20 40		
					-	95 ST S	20 (2)		
						96 W/1-1	W. 7.	wallahy	
			-	·		97 /3 G	40-66		
						98 2.17	150 (0	Scritchs	
						99 C.G	4000		
						100 FWI)	80.00		
						1 (1 (1)	85-100	M 0001	
LAST SHEET? Y	res / No	TRAVERSE FINISH	EASTING			KOALA FINISH	EASTING		
TOTAL TIME		AMG CO-ORDINATES	NORTHING			41			
				-		CO-ORDINATES	NORTHING		

NORTHERN RIVERS REGION - GLEN_NEW
DISTRICT
HARVEST PLAN OPERATIONAL MAP
COMPARTMENT 34
GIRARD STATE FOREST
UNKNOWN MAP SHEET
HARVEST PLAN NUMBER 0
SCALE 1:10000 07/08/1998

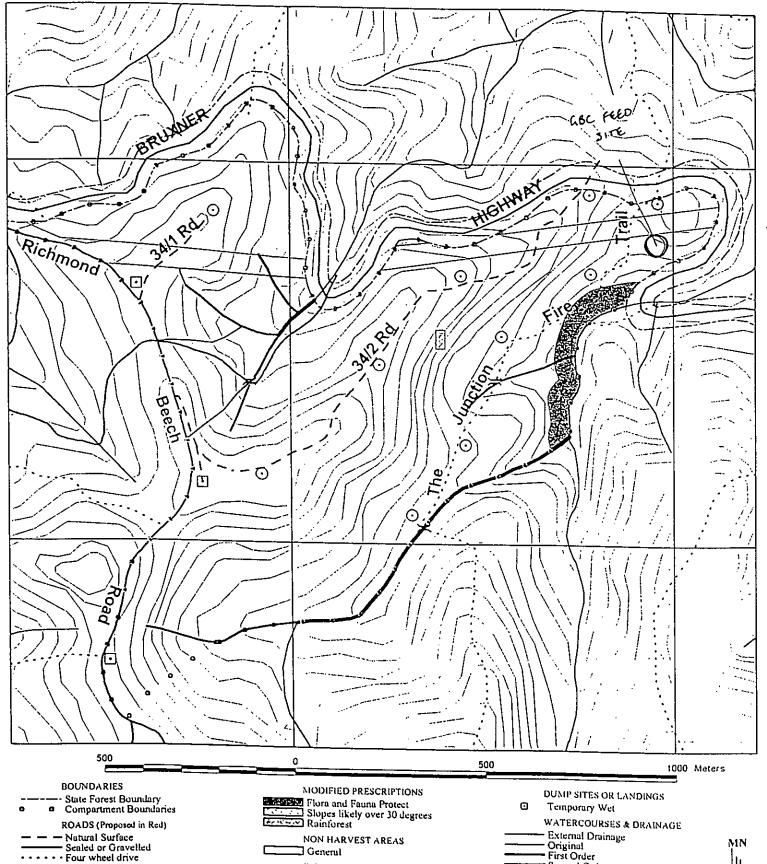




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NORTHERN RIVERS REGION - GLEN_NEW DISTRICT HARVEST PLAN OPERATIONAL MAP **COMPARTMENT 34 GIRARD STATE FOREST** UNKNOWN MAP SHEET HARVEST PLAN NUMBER 0 SCALE 1:10000 07/08/1998





] General

Permanent Dry Permanent Wet

Temporary Dry

⊗ ⊠ ⊙

NORMAL PRESCRIPTIONS

MODIFIED PRESCRIPTIONS

] Harvestable Area

DUMP SITES OR LANDINGS

Original

First Order

Second Order
Third Order
Approved Crossings

þ

FAUNA SURVEY REPORT for NSW STATE FORESTS
GIRARD STATE FOREST 4-5 & 10-11 August 1998 (Compartment 34 - 100 hectares)
Fauna consultant D A STEWART assisted by J RUSSELL and B THORNHIN (NSW State Forests)

Brief: Survey Threatened Fauna Species in conformity with State Forests of NSW Threatened Species Protocol Pre-logging and Pre-roading (1998) - Girard State Forest, Compartment 34.

Methodologies: Threatened Fauna Species Traverse Survey, Koala Traverse, Nocturnal Playback, Spotlight Traverse, Scat Traverse and Diurnal Bird Traverse. I was rained out on 6 August and abandoned the survey returning on 10 August.

The Scat Traverse was carried out independently by B. Thornhin on 27 July 1998 and a separate report submitted. Three dog scats at 70 m, 180 m and 900 m on Thornhin's transect had been marked with orange tape but not collected. On 4 August, at the request of B Thornhin, J. Russell and I collected these three dog scats.

The Koala Traverse was carried out independently by B. Thornhin and K. Harvey on 7 August 1998 and a separate report submitted.

Seasonality constraints apply to frogs, reptiles, microchiropteran bats and summer bird migrants. Sampling for mammal presence using hair tubes, Elliot traps, pitfalls and cage traps was not requested.

Restriction: I was directed not to mark hollow bearing habitat trees with white paint unless threatened species were observed in such trees or there was clear evidence of a threatened species using the tree e.g. "v" notch of Yellow-bellied Glider. The reason given was that confusion is caused to SFO's marking trees for harvesting by logging contractors.

Species targeted: Bush Stone-curlew, Square-tailed Kite, Red Goshawk, Glossy Black Cockatoo, Swift Parrot, Powerful Owl, Barking Owl, Masked Owl, Sooty Owl, Regent Honeyeater, Koala, Rufous Bettong, Parma Wallaby, Brush-tailed Wallaby, Long-nosed Potoroo, Tiger Quoll, Brush-tailed Phascogale, Hastings River Mouse, Yellow-bellied Glider and Squirrel Glider..

Mapping: Threatened Fauna Species Traverse, Nocturnal Playback, Spotlight Traverse (road) and Diurnal Bird Traverse.

Mammal response to playback: In accordance with protocols playback of Koala, Yellow-bellied Glider and Squirrel Glider was carried out at all sites. None of these species responded to their own sound.

Desktop Review of previous records of threatened species and a Fauna Sites Map provided.

Results of Threatened Fauna Species Survey and Assessment

Powerful Owl, Masked Owl, Parma Wallaby and Glossy Black-Cockatoo observed or heard (see Reporting of Schedule 1 & 2 Fauna Sightings).

Both records of the Owls occurred within Compartment 34. Both sites were searched where it was estimated the owls were calling, but no evidence of nesting or roosting was found. The Owls would include the whole of Compartment 34 in their hunting range.

- 1 Red Goshawk: It is unlikely this species would occur in this forest. It prefers tall open forest along river systems in coastal and subcoastal areas in this region where there are large populations of bird prey species.
- 2 Square-tailed Kite: No record this survey. As there have been previous records in Girard State Forest it is likely this Compartment would lie within the hunting range. When there is an abundance of bird prey species present in the area it is likely this species will be present.
- 3 Bush Stone-curlew: While there is suitable habitat in the drier more open parts of the forest it is unlikely to be present because of the severe contraction of its range in recent times.
- 4 Glossy Black-Cockatoo: Three birds (1 AM & 2 AF) were observed feeding in Allocasuarina torulosa during a threatened species traverse adjacent to Road 34/2 (see map). The Allocasuarina in this forest has very poor growth, probably due to low nutrient levels in the soil. There are small patches of mature Allocasuarina with good cone coverage and it appears there are low numbers of GBC present. A State Forest Officer present also saw three birds feeding in the same area.
- 5 Powerful Owl: Playback produced a response at Site 2. This species has a hunting range which requires a much greater area than Compartment 34. A search was made of the wet gully in the SW corner of this compartment where the Powerful Owl called, but no evidence of nesting or roosting was found. There are some very large Blackbutts with hollows in the gully and these must be retained.
- 6 Barking Owl: Playback at both sites produced no response.
- 7 Masked Owl: Playback produced a response at Site 1. The forest area where the owl responded was searched, but no roost site or breeding evidence was found. The same prescriptions should be applied as with Powerful Owl except prey species are different.
- 8 Sooty Owl: Playback at both sites produced no response. The second order creek system in the southern part of the compartment provides good habitat for this species to breed and hunt.
- 9 Yellow-bellied Glider: Playback at both sites produced no response. Suitable feed tree species are present, but no "v" notches were found. While there were no animals detected at the time of the survey, there is excellent habitat and the animals would very likely be present when food resources are available.

10 Squirrel Glider: Playback at both sites produced no response. Habitat does not appear suitable in this compartment. This species is known from nearby Boonoo SF.

11 Koala: See separate report by B. Thornhin and N. Harvey.

12 Rufous Bettong: Good habitat of blady grass/tussock grass/scrub ground cover occurs in patches in Compartment 34. This species has been recorded in this area on previous surveys. No scats or evidence of Bettong diggings were found. While the species was not detected during this survey it is almost certain to be present.

13 Parma Wallaby: One animal flushed from cover adjacent to the Junction Fire Trail close to the powerline corridor. There is suitable habitat along the second order creek bounding the southern area of the compartment. This species has also been recorded on surveys in nearby compartments.

14 Hastings River Mouse: While no trapping was undertaken for this species there is excellent habitat along the second order stream on the southern edge of the compartment. Part of this stream system is already reserved.

15 Threatened Frog species: The habitat of the second order stream bounding the southern area of the compartment is suitable for *Mixophyes balbus* and *Litoria subglandulosa*. Part of this stream system already has an exclusion zone. Frog surveys must be carried out along the rest of this stream spring/summer before this area is logged. Stream buffer zones must be applied.

Crinia signifera and Litoria verreauxii were heard calling from this stream system where the Junction Fire Trail crosses the stream during a spotlight traverse on 4 August 1998.

Incidental Sightings

Red-necked Wallaby: Three sightings along the road/tracks while driving within the compartment. Scats regularly noted.

Eastern Grey Kangaroo: Scats found throughout traverses. Regular occurrence in more open areas, particularly when driving along the road/tracks within the compartment.

Common Wallaroo.: One animal observed on the track at Playback site 2 before we started on 10 August.

Sugar Glider: Heard calling on two occasions from the vicinity of the second order creek in the south of the compartment from my camp site on 34/2 Road on 10 August..

Spotted Quail-thrush: Flushed from the tracks along the dry ridges on two occasions.

Nocturnal Playback Sites

1 434720 6799600 2 434720 6799600

D A Stewart (Fauna consultant)

Casino District Reporting of Schedule 12 Fauna Sightings

									
Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Sighted juvenil	tion of Fauna d - eg adult, le, breeding	AMG Reference	General Comments (eg at log dump,	
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(") Type of Inspection

- 1. Night Time Surveys
- 2. Follow-up Clearance Inspection
- 3. Rejects Inspection
- 4. Regeneration Inspection
- 5. Road Line, Dump Sites Inspection
- 6. Timber Assessment

- 7. Marking Boundaries, Filter Strips or
- Conservation Areas
- 8. Reports from Log Faller
- 9. Head Disposal Burning
- 10. Harvesting Planning
- 11. Other

MAP 1

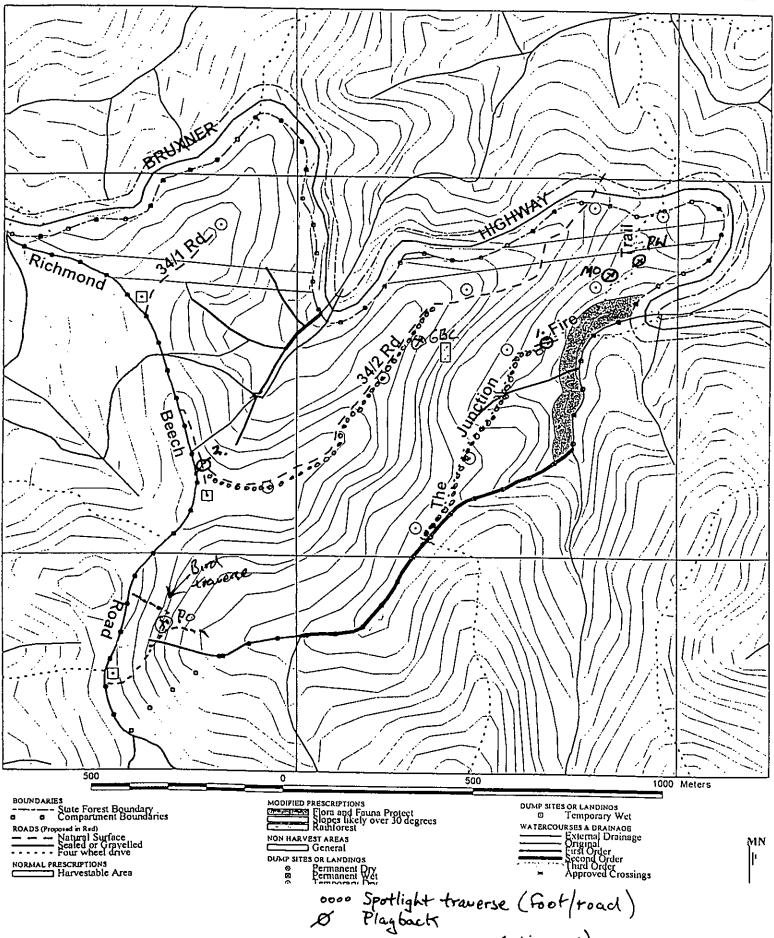
NORTHERN RIVERS REGION - GLEN_NEW
DISTRICT
HARVEST PLAN OPERATIONAL MAP
COMPARTMENT 34
GIRARD STATE FOREST
UNKNOWN MAP SHEET
HARVEST PLAN NUMBER 0

SCALE 1:10000 27/07/1998

78+4+15 13

100 ha.





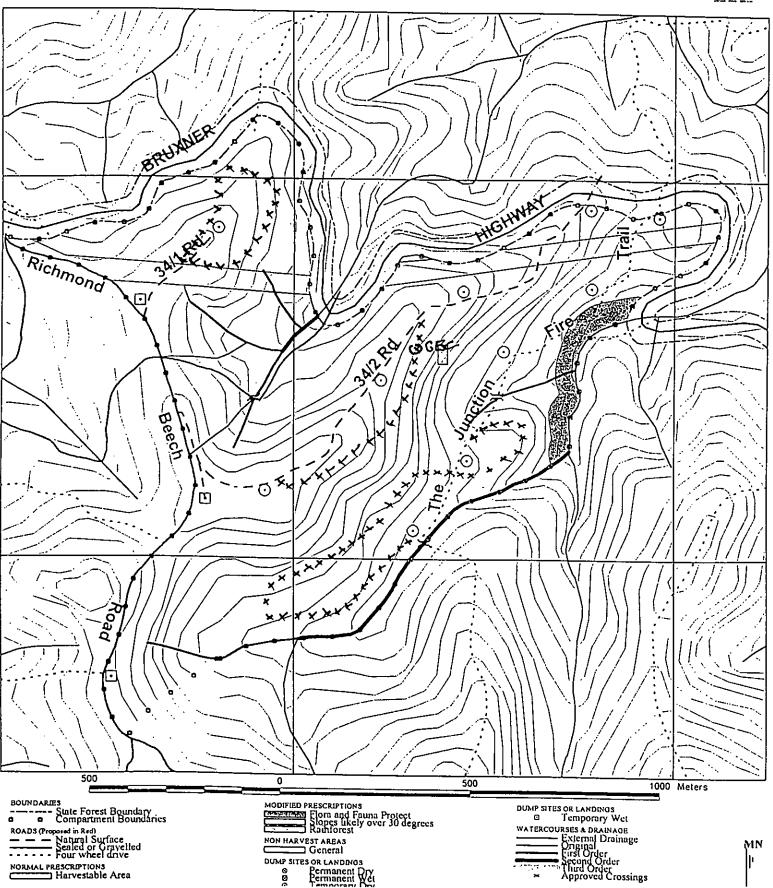
--- Bird traverse (diurnal)

NORTHERN RIVERS REGION - GLEN_NEW
DISTRICT
HARVEST PLAN OPERATIONAL MAP
COMPARTMENT 34
GIRARD STATE FOREST
UNKNOWN MAP SHEET
HARVEST PLAN NUMBER 0

SCALE 1:10000 27/07/1998

78+4+15+3 100ha.





Results of Hastings River Mouse Habitat Assessments in Girard SF, Cmpt 34.

Conducted by: Robert Kooyman [SFNSW Nth Rivers Region] 17/8/98.

Hastings River Mouse [Pseudomys oralis] sch.1.

Following on from preliminary HRM habitat assessments, it was decided by SFNSW to conduct habitat assessments in the potential high and medium quality habitat areas in this compartment. The 'brief' for this survey effort was to define the extent of the high and moderate habitat [for HRM]. Kooyman [SFNSW] undertook habitat assessments. The criteria for assessment was based on the draft HRM Recovery Plan [7/97, amended 9/97] habitat ranking, and habitat assessment criteria, and requires the following factors to be considered -:

- Determine whether or not the survey area falls within the predicted range of this species.
- Classify and map the area according to broad vegetation cover categories, eg. Grassy woodland, Heath, Rainforest, Wet Sclerophyll forest, etc.
- Inspect the site and conduct micro-habitat surveys, based on recognition of the following features -:
- a. open woodland, wet or dry sclerophyll forests with a grass, sedge, or heath understorey [or dispersed patches of these elements, there in], should be delineated for microhabitat survey.
- b. identify areas with exposed rock, boulder fields, or scree slopes in, or close to the survey area.
- c. identify areas, which have 'fire-barriers' close to potential habitat areas, such as the rock and scree areas above, and shielding moist forest, or creek lines.
- d. identify areas with a thick groundcover of vegetation, [grass, sedge, fern, or heath], adjacent to other habitat components, such as moist sedge areas.
- e. identify areas with small natural hollows, basal cavities, tunnels, logs, and rock crevices, [that is potential nest sites], in proximity to other essential habitat features.
- f. identify areas with known food plants, various seeds and vegetative material from sedges, grasses, and other plants, [eg. *Glycine clandestina*, Townley, S. Billilimbra SF].
- g. determine time since last fire, or patchiness of previous burns, relative to presence of habitat components.

Results:

As a result of the application of the above criteria for habitat assessment, the area of potential habitat has been mapped. This area is dominated by Ft.60, &62 [White Mahogany, Grey-gum, Ironbark, Stringybark], Ft 122 [New England Stringybarks], and Ft 163 [New England Blackbutt]. All these types have an open grassy understorey dominated by *Poa* sp., *Themeda australis*, *Imperata cylindrica*, and are interspersed with rocky outcrops closer to the creek lines. Moist rainforest vegetation along part of the second order creek forming the southern compartment boundary, provides some fire

protection in this area. Sedges such as Lomandra longifolia and Lepidosperma spp. occur on the lower slopes and along creek edges. Basal tree hollows, and tunnels in rocky areas provide potential 'nest sites' for HRM, particularly on the lower slopes. These areas are delineated on the accompanying maps, appended to this report, and define the area of medium and high quality habitat for HRM based on the convergence of the habitat features listed above. The outer edge of the extent of this habitat attribute convergence zone becomes the point from which the 100-metre buffer is applied.

NORTHERN RIVERS REGION - GLEN_NEW DISTRICT HARVEST PLAN OPERATIONAL MAP COMPARTMENT 34 GIRARD STATE FOREST UNKNOWN MAP SHEET HARVEST PLAN NUMBER 0



