# Terrestrial Vertebrate Fauna Survey Field Data Sheets

Ecological Sciences, Queensland Herbarium

June 2018







Prepared by: Queensland Herbarium, Department of Environment and Science.

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June 2018

### **Datasheets**

### **Description and Purpose**

All fauna survey or incidental sightings require certain minimum data (see table below) to be recorded. Depending on the project and its purpose, additional types of data will also be required.

Standardised data sheets containing the required data provide a convenient and effective way to ensure that the required data are recorded in a consistent manner. Information collected during surveys may have important historical ramifications and may be required for other applications in the future. Therefore the appropriate documentation and storage of key biological data is highly desirable.

It is recommended that datasheets should contain the following as a minimum:

- Fields for recording all essential data (including about the environmental conditions at the time of the survey) and specifying units if appropriate.
- Code descriptions, if codes are used in data recording.
- Extra space for recording notes that do not fit into specific categories.
- Capability to track progress of data entry, verification and storage. It is also important to be able to link the stored data back to the original, archived datasheet (see 'office use only section').

The datasheets attached have been developed by experienced zoologists and ecologists familiar with undertaking wildlife surveys. Some examples of particular datasheets have been used, fine-tuned and improved over a period of years or even decades. Others, particularly for newer technologies such as camera trapping or acoustic recording may require future refining. While designed by Queensland Government staff for use in their inventory, monitoring and research projects, we believe that that the datasheets may be useful for other practitioners. There is no requirement to use Queensland Government datasheets or return collected data to the Queensland Government (beyond permit requirements, such as 'return of operations' for scientific permits).

## Minimum recommended data to be recorded for each survey site and/or sighting during the field survey.

Data required	Reason
Location description	Detailed description including a regional and local context. This ensures that coordinate locations can be verified.
Location coordinates	Latitude and longitude in decimal degrees or map grid reference (zone, easting and northing). Preferably recorded using a GPS (Global Positioning System).
Location Datum	This is the standard position or level that measurements are taken from (e.g. DSITIA standard is GDA94; others are AGD84, AGD66). This is especially important to record if coordinates are from maps older than 10 years.
Location precision	Accuracy of the coordinate location, recorded in metres. The distance of the sighting/record from the coordinates may also need to be factored in. Location precision should also reflect the area around the coordinates over which records were collected.

Date	Including day, month and year of survey.
Observer Name/s	Name of the person/s responsible for the identification of the species.
Taxon Name	Species identification to the most precise level that can be accurately and confidently identified. In most cases this would include a scientific name with genus and species (e.g. <i>Macropus giganteus</i> ). Subspecies should be recorded if known. In other cases recording to 'species pair' level (e.g. <i>Litoria jungguy/L. wilcoxii, L. serrata/L. myola</i> ) where a species can be separated only by genetic analysis, is appropriate, or at generic level (Genus spp.) if there is any doubt about identification to species or 'species pair' level. For birds, common names are acceptable if using a standard checklist (e.g. Birds Australia use Christidis and Boles, 2008).
Species code (optional)	A unique taxonomic coding system, such as the Census of Australian Vertebrate Species (see <a href="Department of the Environment">Department of the Environment</a> website), to aid in rapid, accurate (spelling and taxonomy) entry of species data.
Number of Individuals	Presence of the species assumes a minimum of one individual, so record the lowest number that can be accurately counted or estimated.
Observation Type	Whether the animal(s) were seen, heard, identified from remains, etc.
Reliability	Reliability of the sighting. Data should not be recorded when the identification of the species is uncertain unless a specimen or photo can be taken for later identification. Specimens lodged with public institutions attract the highest reliability. However, collection of specimens should occur only when the identification is uncertain.
Survey Effort	Survey effort is especially important to record if using a standard or commonly used search method (e.g. area and/or time limited searches).
Time	The time when the sighting occurred or when the search was performed (e.g. 1600 – 1630)
Assessment Unit	Relatively homogenous unit usually based on vegetation type (e.g. RE), used for sampling the survey area
Habitat Description	The habitat where a species was recorded can change with time and disturbance (seasonal changes as well as clearing, fire, drought, etc). An absolute minimum description should include the RE and broad condition state. If this is not possible, then a simple habitat description using a standard technique can help to verify vegetation mapping in some cases. The standard technique used should be reported (e.g. Tall closed <i>Eucalyptus grandis</i> forest - Walker and Hopkins 1998).
Prevailing survey conditions	Prevailing conditions refer to the climatic or an environmental variable that may influence the detection of fauna during surveys e.g. rainfall, wind, and flowering. These data can be standardised to allow analysis of the degree of influence.
Life History	Age, sex, breeding or reproductive condition of the individual, if known, can value-add sighting records.
Comments	Any extra information

#### **List of Datasheets**

- **Site information** details of location, vegetation, site photos, disturbance and habitat characteristics. Should be used on sites where systematic fauna surveys are conducted without more detailed habitat assessment. If this datasheet is filled out there is no need to fill out the 'Locality Info' on the separate method datasheets.
- **Diurnal bird surveys** for recording bird point and fixed area counts (Note: there is a specific waterbird and shorebird survey datasheet when targeting wetland environs).
- **Herpetofauna searches** for recording reptile and amphibian searches (Note: there is a specific amphibian search datasheet if targeting frog habitat, such as a stream or pond).
- Elliott, pitfall, funnel, cage and turtle trapping multiple trapping methods are usually
  employed on a site and can be recorded using this datasheet.
- Arboreal spotlight and nocturnal call playback designed for 'on site' spotlighting and call playback. Vehicle spotlighting should use the 'vehicle and foot road transects' datasheet.
- Incidental records on survey sites during all wildlife surveys some species on standard sites
  are only seen outside of generic surveys, these should be recorded here. This datasheet is also
  ideal for a species list at a particular point or area; and it can also be used to record data from
  targeted methods without a specific datasheet.
- Incidental fauna sightings is designed to record fauna sightings made whilst moving throughout the project area. In particular, threatened and uncommon species, and those not recorded in association with a generic or targeted site should be recorded.
- Bat trapping specifically for bat trapping methods including harp traps, mist nets and triplines.
- Camera trapping specifically for camera trapping methods where camera settings and setup details are important.
- Acoustic recording specifically for automatic sound recording systems, particularly when manually analysed.
- Hair tubes specifically for hair tube results.
- Scat and sign searches specifically designed for standard scat, track, and other trace searches. Signs detected during herpetofauna searches can be recorded on the 'herpetofauna search' datasheet.
- Vehicle and foot road transects use when conducting spotlighting transects (by road or on foot) for arboreal species and road driving (or walking) for herpetofauna, when an accurate record of effort is required. Fauna detected commuting between sites should be recorded on the 'incidental fauna sightings' datasheet unless this commute is being conducted as a transect.
- Amphibian search use when conducting targeted frog surveys in specific habitat (e.g. stream, pond, breeding habitat).
- Waterbird/shorebird survey specifically for waterbirds and shorebirds where habitat attributes
  and breeding information is particularly important. Some species age (i.e. chick/young or
  adolescent/adult) can be difficult to differentiate; if this is the case then these columns can be
  grouped and clearly indicated.

OFFIC OI Surveynu Entered:	CE USE SITEID: UMS: Checked: NFORMATION (no need	Corrected:	PROJECT:			Queensland Government
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Locality	y description:		,			
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	al Ecosystem (mapped)					ad veg group:
Layer^	Species	Layer^	Species	Layer^	Species	
			<u> </u>			
^Laver: E	 Emergent (E), T1, T2, T3, S1, S2, G	Fround (G)				1
General 	Site comments:					
LANDI	FORM Situation:*	Element:*	Pattern:*			
			pe Degree:S		···· <u> </u>	
	(top soil)  Depth:* Colour  Soil notes:	]· [		Munsell? (y/n):	Tex	ture:
GEOL				Not.	es:	
SITE P	PHOTOS Photo No./s	Pho	oto No./s Other photo	o numbers and note	es:	

South:

West:

North:

East:

Current Site visit comments

### **BASIC SITE INFORMATION CONT.....**

### **DISTURBANCE:**

	Severity	Date of last			Notes:
Disturbance Type	0 - 3 (0=nil, 3= severe)	event (range ok)	Obs type^	mean fire scar ht (m)	(e.g. Info on prior events, treatment type, % of site impacted, clearing technique, weed species, erosion type)
Wildfire					
Prescribed Burn					
Logging					
Treatment					
Grazing					
Clearing					
Weeds					
Erosion					
Storm					
Other (specify):					

<sup>^</sup>Observation type: 1= visual estimate; 2 = records; 3 = informant

### **HABITAT CHARACTERISTICS - ABUNDANCE:**

### Characteristic **Abundance** $(0-7)^{^{}}$ Notes: (Add others as required) Hollows in trees & stags Fallen logs (>10cm diam.) Decorticating bark Course litter (>2cm diam.) Fine litter (<2cm diameter) Bare ground Grass Soil cracks Stones (20-60cm) Boulders (61cm-2m) Large boulders (>2m) Rock crevices Exfoliating rock

### ^Abundance Key:

0 = Nil4 = Occasional to common

1 = Rare 5 = Commo

2 = Rare to Occasional 6 = Common to Abundant

3 = Occasional 7 = Abundant

### **CODES**

#### Location derivation

Code	Description
AGPS	Averaged GPS fix (5 min)
ARCGIS	ArcView Map
	Differential / RTCM corrected
DGPS	GPS
	Estimate from known
EST	position
GPS00	GPS - type unspecified
GPS04	GPS - 4 station
GPS08	GPS - 6 to 8 station
	Multichannel GPS (12
GPS12	station)
	Known position, eg surveyed
KNO	point
MAP	Map - scale unspecified
MP012	Map - 1:12 500 scale
MP025	Map - 1:25 000 scale
MP050	Map - 1:50 000 scale
MP100	Map - 1:100 000 scale
MP250	Map - 1:250 000 scale
SGPS	GPS survey system

### Location accuracy

Code	Description
Α	+/- 0.0 m
В	+/- 0-10 m
С	+/- 11-50m
D	+/- 51-100m
Е	+/- 101-300m
F	+/- 301-500m
G	+/- 501-1000m
Н	+/- 1001-3000m
I	>3000m

	ac acimatori
Code	Description
ALT	Altimeter
DEM	Digital elevation model
	Estimate from known height
GPS	Global positioning system
KNO	Known height
ОТН	Other
TOP	Topographic map

#### Situation

Situation					
Code	Description				
Plains					
Α	Not otherwise specified, flat gentle slopes; undulating terrain				
В	Alluvial plain or flat, alluvium, flood plain				
	Claypan, Playa or Salina(including inland lakes), Salt				
U	Flat(inland).				
V	Tidal Flat (coastal), Salt Flat (coastal).				
Stream	s, Lakes				
С	Banks of lake, river, stream, watercourse, levees				
D	Gully, drainage line, ravine gorge, outwash				
E	Channel Bed, distributaries of inland streams				
Hills, M	lountains, Tablelands				
F	Slope or Hill not specified				
	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp,				
L	crevice				
N	Coastal rocky headland				
K	Top, crest of mountain or ridge				
Q	Jump Up (Cuesta) and Mesa, Tableland, Plateau,				
Dunes					
R	Recent Coastal Dune (low dune less than about 15m) and				
S	Fossil Coastal Dune (High Dune greater than about 15m)				
Т	Inland Dune.				
Water					
W	Swamp or Marsh.				
Х	Fresh Water Aquatic.				
Υ	Salt Water Aquatic.				
7	Melon Holes, Gilgai, Depressions in Soil, Sink Holes				

Element					
Code	Description	Code	Description	Code	Description
ICR	Hillcrest	DUS	Duneslope	STF	Supratidal flat
			·		
SUS	Summit Surface	BRK	Breakaway	FIL	Fill-top
DUC	Dunecrest	CFS	Cliff-foot slope	REF	Feef flat
OR	Tor	SFS	Scarp-foot Slope	ALC	Alcove
UM	Tumulus	BEN	Bench	GUL	Gully
DUN	Dune	BER	Berm	CIR	Cirque
					Drainage
CON	Cone	PED	Pediment	DDE	depression
ИOU	Mound	FOO	Footslope	STC	Stream channel
.EV	Levee	TAL	Talus	STB	Stream bed
BAR	Bar	PLA	Plain	TDC	Tidal creek
SCR	Scroll	RFL	Rock flat	EST	Estuary
PST	Prior stream	RPL	Rock platform	SWP	Swamp
OR	Foredune	cos	Cut-over surface	SWL	Swale
.UN	Lunette	SCD	Scald	TRE	Trench
BRI	Beach ridge	FAN	Fan	LAK	Lake
MB	Embankment	VLF	Valley flat	PLY	Playa
MAC	Dam	TEF	Terrace flat	DOL	Doline
CLI	Cliff	CBE	Channel bench	OXB	Ox-bow
SCA	Scarp	BKP	Backplain	LAG	Lagoon
HSL	Hillslope	SRP	Scroll plain	BOU	Blow-out
CUT	Cut face	FLD	Flood-out	MAA	Maar
.DS	Landslide	TEP	Terrace plain	CRA	Crater
BAN	(Stream) Bank	TDF	Tidal flat	PIT	Pit
BEA	Beach	ITF	Intertidal flat		

#### Pattern

Co	de	Description
RM		Rolling mountains
SM		Steep mountains
VM		
		Very steep mountains
PM		Precipitous mountains
UH		Undulating hills
RH		Rolling hills
SH		Steep hills
VH		Very steep hills
PH		Precipitous hills
UL		Undulating low hills
RL		Rolling low hills
SL		Steep low hills
VL		Very steep low hills
В		Badlands
GR		Gently undulating rises
UR		Undulating rises
RR		Rolling rises
SR		Steep rises
LP		Level plain
GP		Gently undulating plain
UP		Undulating plain
RP		Rolling plain

### Slope Position

Cod	e Description
С	Crest
D	Closed Depression
F	Flat
G	Gully
Н	Hillock
L	Lower-Slope
М	Mid-Slope
Р	Plateau
R	Ridge
U	Upper-Slope
٧	Open Depression
W	Wetland

### Soil Depth

Code	Description
D	Deep
S	Shallow
Χ	Skeletal

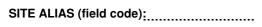
### **BIRD POINT/AREA COUNT**

(	OFFICE USE SITEID: ONLY Surveynums:				SITE ALIAS (field code):  PROJECT:  Queensland Gov						
•	d:										
Datum: Location derivation:* zone: easting:								ne	orthing	1	
		Altitude									
		 on:									
		Reserve or Prope									
	Habitat Description:										
	Search nun	n: <b>1</b>	2		3	3		4		5	6
Method	(see over)										
Date											
Time (	(start - finish)										
Temper	rature										
Wind V	elocity*										
	irection										
	Cover (8ths)										
Precipit		NONE	1000 / 100								
<b>.</b>	Abundance:	NONE	LOW (<10	% of ca	inopy)	MEDIU	M (10-50%	of canopy)		HIGH (>50%	of canopy)
<b>-</b>	(time x area)										
Observ	_	26-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-1-1	100						*Codo	s on back of page
necoi	us Note: 0	Offsite is anything out				0" " 0				Code	s on back of page
Search num	Specie	s	Species code	No. indivs	Record type*	Offsite? (tick)	Microhab Code*	Comme	nts		

Search num	Species			Species code	No. indivs	Record type	Offsite? (tick)	Microh Cod		Comments			
									$\top$				
									+				
									+				
									4				
									$\top$				
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	Methods				I			_		Derivation			Description
Code SBAE	Description Standard Early Bird Area S	Sparob /	daws to	2 hre after)	Effort	0m x 100m	ı (fha)	Code	_	Description Averaged GPS fix (5 min	,)	B	+/-0-10m
SBAL	Standard Late Bird Area S					om x 100m				ArcView Map	'/	С	+/-11-50m
SBAO	Standard Bird Area Search			·		0m x 100m		EST		Estimate from known po	sition	D E	+/-51-100m (site) +/-101-300m
SBA	Bird Area Count						and Area (ha)			GPS (12 plus channels)		F	+/-301-500m
BPC	Bird Point Count	1	A 14	da Dauturi	specify t		for point cou	nt MAP	F	Position taken from ma	р	G	+/-501-1000m
Record Code [	Description			de Derivation Description			Description		Cod	e Description	-	H I	+/-1001-3000m >3000m
CC C	Caught by hand		ALT	Altimeter		AC	Flying above	cano py	SH	In shrub (general)	Rair		
	Remains (eg:skull,feathers Scats	)	DEM EST	Digital elevation r Estimate from kn			In tree (T1laye In tree (T2 laye	•	IG GR	In grass On ground	Cod	e Descr Nil	ription
	Fracks		GPS	Global Positionir			In tree (T2 lay	•	GB	On BARE ground	1		or light rain
	Heard		KNO	Known height		_	In tree (genera		OL	On log	2		heavy rain
	Seen Seen and Heard		TOP	Topographic map	,	FL DT	Flying within c In dead tree (s		FC IH	In/on post/ stump In tree hollow	3	-	in in past 24hrs
Wind						TK	On trunk		EW	Edge of water	4		n nowbut med - rain in past 24hrs
	Description		Desc	•			In shrub (S1la In shrub (S2 la		IW	In water	5	past 24	
	Calm Light, leaves rustle	3		rate, moves branc g, impedes progres		S2 S3	In shrub (S2 la In shrub (S3 la		RD	On road	6 7	Fog/m Isolate	ist d showers
Varaian		-									4	_	

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### **BIRD POINT/AREA COUNT - CONT.....**



January House

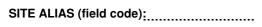
Search num	Species	Species code	No. indivs	Record type	Offsite? (tick)	Microhab Code	Comments

### Record Type

code	description
CC	Caught by hand
CF	Found dead
CP	Predated
CR	Roadkilled
DL	Detected by presence of platelets
DN	Nest
DP	Pellets
DR	Remains (eg: skull, feathers)
DT	Tracks
Н	Heard
H S SH	Seen
SH	Seen and Heard

Microhabitat			
code	description	code	description
AC	Flying above canopy (overhead)	IG	In Grass
AF	Aerial Feeding	H	In tree Hollow
AR	Adjacent to roost/nest	П	In Tree
BC	Below canopy	LC	Low er Canopy
CA	Canopy	LS	Low shrub
CR	Tree crow n	MB	On main branch
DT	in Dead Tree (stag)	MC	Mid Canopy
FB	Flying below canopy	RD	On road or track
FL	Flying w ithin the canopy	SH	Shrub
GB	On bare ground	TH	In tree w hich has hollow
GR	On ground (not bare)	UC	Upper Canopy
HS	High Shrub	WT	Walking track

### **BIRD POINT/AREA COUNT - CONT.....**



January House

Search num	Species	Species code	No. indivs	Record type	Offsite? (tick)	Microhab Code	Comments

### Record Type

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SH	Seen and Heard

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DT	in Dead Tree (stag)	MC	Mid Canopy
FB	Flying below canopy	RD	On road or track
FL	Flying w ithin the canopy	SH	Shrub
GB	On bare ground	TH	In tree w hich has hollow
GR	On ground (not bare)	UC	Upper Canopy
HS	High Shrub	WT	Walking track

## **HERPETOFAUNA SEARCH**

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		cation derivation:* _							
	<u> </u>	Altitude Al					· · · · · · · · · · · · · · · · · · ·		
								Bioregion:	
	Search:	D1		D2			N1	N2	
Method/effor	rt*								
Date									
Time (start	- finish)								
Temperature	•								
Wind Velocit	ty*								
Wind Directi	on								
Cloud Cover	(8ths)								
Precipitation	n*								
Moon*									
Night Light*									
Observer/s:									
Early or Late	?**	Early Late		Early Late					
Quadrant** (	shade in)						n 100 x 100m site	NA - on 100 x 100m site	
Records		*Codes on back of pag		ate- afterno	on search:	Ouadrant_w	hich 50v50m area the	search was conducted on	
METHOD /SEARCH	S	PECIES	Species code		Record Type*	Microhab Code*		mments	

PAGE: Of:

METHOD SPECIES Species No. Record indiv Type* Code* Comments	
Survey Methods Location Derivation Altitude Derivation	ation
Code Description Effort Code Description Code Description	ion
SHD1 Standard Diurnal Hern Search - 1st on site   1 person 30min per 50x50m   A GPS   A veraged GPS fix (5 min)   ALT   Altimeter	
DEM Digital ele	vation model from known height

Survey	M ethods	Location Derivation			
Code	Description	Effort	Code	Description	
SHD1	Standard Diurnal Herp Search - 1st on site	1person 30min per 50x50m	AGPS	Averaged GPS fix (5 min)	
SHD2	Standard Diurnal Herp Search - 2nd on site	1person 30min per 50x50m	ARCSIS	Arc View M ap	
SHN	Standard Nocturnal Herp Search	1 person 30min per 100x100m	EST	Estimate from known position	
HD	Diurnal Herp Search (specify effort)	specify time per area	GPS	GPS (12 plus channels)	
NHN	Nocturnal Herp Search (specify effort)	specify time per area	MAP	Position taken from map	

Altitude Derivation							
Code	Description						
ALT	Altimeter						
DEM	Digital elevation model						
EST	Estimate from known height						
GPS	Global Positioning System						
KNO	Kno wn height						
TOP	Topographic map						

Record Type						
Code	Description					
BU	Detected by presence of burrow/s					
CC	Caught by hand					
CF	Found dead					
DC	Cast skin					
DR	Remains (eg: skull, feathers)					
DS	Scats					
DT	Tracks					
Н	Heard					
S	Seen					

366	11								
Moon									
Code	Description								
0	no moon								
1	1/4 moon								
2	1/2 moon								
3	3/4 moon								
4	full moon								
5	moon present - use if unsure of phase								

Locat	Location accuracy							
Code	Description							
В	+/-0-10m							
С	+/-11-50m							
D	+/-51-100m (site)							
E	+/-101-300m							
F	+/-301-500m							
G	+/-501-1000m							
Н	+/-1001-3000m							
I	>3000m							

Rain	
Code	Description
0	Nil
1	Drizzle or light rain
2	M ed - heavy rain
3	light rain in past 24hrs
	No rain now but med -
4	heavy rain in past 24hrs
5	past 24hrs
6	Fog/mist
7	Isolated showers

Micro	Microhabitat								
Code	Description	Code	Description						
CK	Crevice in rock	IW	In water						
CL	Crevice in log	OI	On Litter						
EW	Edge of water	OL	On Log						
FC	in/on post or stump	OR	On rock						
GB	On bare ground	RD	On road or track						
GR	On ground (not bare)	TK	On Trunk						
ΙΒ	In Burrow	UB	Under Bark on tree						
IG	In Grass	UL	Under log/fallen wood/bark (natural)						
IL	In Litter	UR	Under Rock						
Ю	Inside log	UT	Under iron, wood pile or other human debris						
IS	In Soil								

Wind Velocity								
Code	Description							
0	Calm							
1	Light, leaves rustle							
2	Moderate, moves branches							
3	Strong, impedes progress							

Night	Night Light							
Code	Description							
1	very dark - no moon and cloud							
2	dark - 1/4 moon, or moon and heavy cloud							
3	detail seen - moon and clear sky							
4	bright - 1/2 moon and no cloud							

## TRAPPING DATA SHEET - Elliott, Pitfall, Funnel, Cage, Camera...

OFFICE USE ONLY Surveynums:					ITE ALI	AS (fie					
					ROJEC	т:	0	Queensland Government			
Entered:		Checked: (	Corrected:	L	ocali	ty Info	datasheet alread	already filled out)			
Datum: _	ı	Location derivation	n:*	zo	ne:	_ easti	ng:_			northing	
Accuracy:	*	Altitude	Altitude acc	cura	су:	m	Alti	itude	derivation:	*	
Locality de	escription	າ:									
Tenure:	F	Reserve or Propert	y Name:								Bioregion:
		:									
Methods a	and Effo										square, straight line)
Elliott traps	s (SET)	Elliott tr	aps open for		nigh	nts	m	n apar			
Pitfall traps	s (SPT):	Pitfall tr	aps open for		nigh	nts		ı apan			
Funnel trap		Funnel	traps open for		nigh	nts	m	n apart	t		
Cage traps			aps open for								
Camera tra		: Camera	traps deploye	d fo	r	_nights					
Turtle traps Other:	s (STU):	l urtle tr Effort:	aps open for		nigh	its					
		<del>. —</del> —									
	P NIGHT:	1	2			3			4	5	6
Date May Town											
Max Temp											
Min Temp Wind Velocity*											
Wind Direction											
Cloud Cover (8ths)											
Precipitation											
Moon*											
Night Light	*										
Observer/s											
Records	Date	traps open:/	/	Da	ite trap	s close	ed:	/	/	*Coo	les on back of page
Trap Night	Method	Species			. code	Num	Age	Sex	Comments	(Repro condition	

PAGE: Of:

							-							
							-							
							+							
							-							
							-							
Locatio	n Der	ivation		Locati			Altitu	de Deriva	tion		Мос	on .	Rain	
Code	Desc	ription		Code			Code	Descripti		_		e Description		e Description
AGPS		ged GPS fix	(5 min)		+/-0-10m +/-11-50m		ALT	Altimeter Digital elev	ation ~	ndol .	0	no moon	0 1	Nil Drizzle or light rain
ARCSIS				D ·	+/-51-100		EST	Estimate f			1	1/4 moon 1/2 moon	2	M ed - heavy rain
EST					+/-101-30		GPS	Global Po	sitioning		3	3/4 moon	3	light rain in past 24hrs
GPS MAP		12 plus char on taken fro			+/-301-50 +/-501-10		KNO	Known hei			4	full moon		No rain now but med -
WAC	FUSITI	ontakenif	літ іпар		+/-50 F 10 +/-1001-3		TOP	Topograpi	пс тар		5	moon present - use if unsure of phase	4 5	heavy rain in past 24hrs
					>3000m						J	unsure or priase	6	past 24hrs Fog/mist
Night L						Velocit							7	Isolated showers
Code [			and detail			Descrip	otion		1					
		k - no moor 4 moon, or r	n and cloud moon and heav	/v cloud	0	Calm Light, lea	aves riis	stle						
				, 510 44	2				3					
						Moderate, moves branches Strong, impedes progress								

Spp. code

Num

Age

Sex | Comments (Repro condition, wt, sv, tail, etc)

PAGE: Of:

Trap Night | Method

**Species** 

Strong, impedes progress

### ARBOREAL SPOTLIGHT/NOCTURNAL CALL PLAYBACK

Survey		SITEID:				PROJECT:  Queensland Government  Locality Info: (not required if site info datasheet already filled out)						
Datum	n:	Location de	rivation:	*		one: east	ing:	noi	thing			
Accur	асу:*	Altitude		Altitud	e accur	acy: m	Altitude	e derivation:*				
Locali	ity description	on:										
									Bioregion:			
	Searc	( )	Call playba	ack	(2)	1st Spotlight	(3) 2nd	l Call playback	(4) 2nd Spotlight			
-	rt (time x area	a)								_		
Date		-)								_		
Time	•	n)								_		
	perature d Velocity*									-		
-	d Direction									$\dashv$		
-	d Cover (8ths	3)								$\dashv$		
	ipitation*	,								$\dashv$		
Моо										_		
Nigh	nt Light*											
Obs	erver/s:									$\neg$		
Flow	er abundanc	e NON	NE .	LOW (	<10% of	canopy) ME	DIUM (10-5	0% of canopy)	HIGH (>50% of canopy)	)		
Veg	density	NONE (	paddock)	LOW	(open fo	rest) ME	DIUM (wet	sclero forest)	HIGH (dense rainforest)			
Calls	s played**											
									nouth; PO-powerful owl; RO- glider; SQG-squirrel glider			
onsite =	within 100x10	00m, near = with	nin 50m of	site bou	ndary, of	f = >50m of site b	oundary.		# - Field is opt	ional		
Search num	Species		Species code	No. Indivs	Record Type code		Microhab Code #	Tree Species OR tape responding to #	Comments #			
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
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						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						
						On   Near   Off						

PAGE: Of:

onsite =	within 100x100m, near = wit	hin 50m	of site bour	ndary, of	f = >50m of site bo	oundary				# - Field is optional			
Search num	Species	Specie code		Record Type code	On   Near   Off	Microf Code			Tree Species OR tape esponding to #	Cor	nme	ents #	ŧ
					On   Near   Off								
					On   Near   Off								
					On   Near   Off								
					On   Near   Off								
					On   Near   Off								
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					On   Near   Off								
Locatio	n Derivation	Locati	on accurac	y Altit	ude Derivation		Ţ	Моо	n		Ī	Rain	
Code	Description	Code	Description	Code	e Description		1	Code	Description		T	Code	Description
AGPS	Averaged GPS fix (5 min)	В -	+/-0-10m	ALT	Altimeter		_	)	no moon		_	0	Nil
		C -	+/-11-50m	DEM		odel	1	1	1/4 moon		1	1	Drizzle or light rain
	ArcView Map	D -	⊬-51-100m (sit		Estimate from kno		nt I	2	1/2 moon			2	M ed - heavy rain
EST	Estimate from known position		-√-101-300m	GPS			-1				- 1	3	light rain in past 24hrs
GPS	GPS (12 plus channels)		ı/-301-500m			Joysteili	- 1	3	3/4 moon		_}		
MAP	Position taken from map		+/-501-1000m	KNO TOP			4	4	full moon				No rain now but med -
WIAE	i osmoniakennominap				Topographic map		╝		moon present - u	ıse if	- 1	4	heavy rain in past 24hrs
Record	Type		⊬-1001-3000m -3000m				1	5	unsure of phase		_[	5	past 24hrs
	escription	1 :	>3000m			Micro	ha	hitat	<u> </u>	1		6	Fog/mist
	aught by hand					Code				$\dashv$	ľ	7	Isolated showers
		Night L	ight							— I	Vin.	l Velo	ncity
	emains (eg: skull, feathers)		Description			DT			tree (stag)				•
	cats		/ery dark - no		d cloud	IH	_		ollow			_	scription
DT T	racks		-		n and heavy cloud	IΤ	In t	ree		0		Calı	
н н	eard		detail seen - m		-	OL	On	log		1		_	nt, leaves rustle
	een		oright - 1/2 mo			OR		rock			2 Moderate, moves branches		
SH S	een and Heard	Щ.	3			TK	On	trunk	<	3		Stro	ong, impedes pro gress
\/	0.0.0/07/0010				<b></b>								
version	2.2 8/07/2013 Queensland	d Herbar	ium, Mt Cod	ot-tna Rd	, roowong					PA	GE:		Of:

### **Incidental Records at Generic or Target Survey Sites**

OFFICE USE ONLY Surveynums:			PROJ	ALIAS (fie	Queensland Government		
	: (not required if site inf			ERVERS			
					ina:	northing	
						derivation:*	
· · · · · · · · · · · · · · · · · · ·							
-							
Method (if not inc	cidental records for a ge						One of site have done
						50m of site boundary, off = >5	
S	SPECIES	Species code	No. indivs	Record Type*	On / Off / Near	OTHER INFORM sex, wt, length, reproduction	
		1		1			

PAGE:	Of:
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SPECIES	Species code	No. indivs	Record Type	On / Off / Near	OTHER INFORMATION Sex, Wt, Length, Reproductive cond. Microhab
	ocation accur				Record Type

Locatio	n Derivation
Code	Description
AGPS	Averaged GPS fix (5 min)
ARCSIS	ArcView Map
EST	Estimate from known position
GPS	GPS (12 plus channels)
MAP	Position taken from map

Locat	ion accuracy
Code	Description
В	+/-0-10m
С	+/-11-50m
D	+/-51-100m (site)
Е	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
Н	+/-1001-3000m
I	>3000m

Altitu	de Derivation
Code	Description
ALT	Altimeter
DEM	Digital elevation model
EST	Estimate from known height
GPS	Global Positioning System
KNO	Known height
TOP	Topographic map

Reco	Record Type								
Code	Description								
BU	Detected by presence of burrow/s								
CC	Caught by hand								
CF	Found dead								
DC	Cast skin								
DR	Remains (eg: skull, feathers)								
DS	Scats								
DT	Tracks								
Н	Heard								
S	Seen								

### **INCIDENTAL FAUNA SIGHTINGS**

				Rational and a second
OFFICE USE ONLY	Refnum:			
0.1.2.			Trip Dates:	 Queensland Governmen
Entered:	Checked:	Corrected:	General Area:	 -

Siteid	Date	Species	Number	Observer/s	Zone	Easting	GPS	Other	
Site Alias			Rec Type		Datum	Northing	Error	Info/Comments	
Locality, Tenure	e and Habit	tat:							
1		1		<del>1</del>	<del>  </del>	<u> </u>			
Locality, Tenure and Habitat:									
Locality, Tenure	e and Habit	tat:							
,									
Locality, Tenure	e and Habit	tat:							
				7					
Locality, Tenure	e and Habit	tat:							
		<u> </u>							
Locality Tenur	and Hahit	tat·							
Locality, Torian	5 and maon	tat:							
Locality, Tenure	e and Habit	tat:							
Locality, Tenure	e and Habit	tat:							
		1							
· T									
Locality, I enure	e and Habit	tat:							
Locality, Tenure	e and Habit	tat:							

Siteid	Date	Species	Number	Observer/s	Zone	Easting	GPS	Other
Site Alias			Rec Type		Datum	Northing	Error	Info/Comments
Locality Tarrer	o and Haki	l .				1		
Locality, Tenur	e and Habi	tat:						
			i		1	1	1 1	
Locality, Tenur	e and Habi	tat:						
Locality Tonur	o and Habit	tot:						
Locality, Terium	e anu nabi	tat:						
						1		
Locality, Tenure	e and Habit	at:						
Locality Topur	o and Habit	tat:						
Locality, Terium	e anu nabi	tat:						
						1		
Locality, Tenur	e and Habi	at:						
Locality Tanur	o and Habit	hat.						
Locality, Tenur	<del>с</del> ани павг	at:						
							+	
Locality, Tenur	e and Habi	tat:						
Locality, Tenur	e and Habit	rat·	1			'		
Loounty, 1 Gridit	c and Habi	at:						
Locality, Tenure	and Habit	at:						
Incidental Rec	ord Type C	Codes						
			Roadkilled					
	d/Caught by hand		Detected by othe Cast Skin	r means	DN Ne	st llets		DT Tracks H Heard
CF Found [			Cast Skin Presence of Feed	ding Marks		mains (skull, fea	thers etc)	S Seen
CP Predate			Presence of Plate	-	DS Sca		,	SH Seen and Heard

Version 2.2 8/07/2013 Queensland Herbarium, Mt Coot-tha Rd, Toowong

PAGE: Of:

Use a separate Sheet for each trap/ net/ dam

### **BAT TRAPPING DATA SHEET - GENERAL**

OFFIC ON	E USE ILY	SITEID:			PROJECT:								AND AN AT TIBLIS		
,									Queensland Government						
Entered:		Checked:	Corrected:												
Locality	y Info: (	not required if site info	datasheet alr	eady fill			i nignt,	specity	y: Start time			Finish tim	e:	•	
Datum: _		Location derivation	n:*	zo	ne:	eas	ting:		. — — — -	_	northing	l			
Accuracy	/:*	Altitude	Altitude a	ccurac	:	m	n <b>A</b>	ltitud	de derivati	on:	*				
Locality of	descriptio	n:													
		Reserve or Propert													
Habitat D	escription	ı:													
EFFORT		Harp trap nights		Tı	ripline H	Hours			Mist N	et H	ours and L	ength (m)			
mini harpt	rap	TRAP PLACEMENT	CODE	-CF Over	r creek - fl	lowing	П	-PO P			FM In front of	r	Other (specify)	Ī	
single har	· · —	Tick ONE (the mos	t correct)		r creek - c	dry bed - not flowi	ng 🗖		nder Bridge	┨.	IM In minesh	aft//tunnel			
double ha specify if r	—	OR specify in "othe	r"		n/fire dam				eside buildin On road or trac	Ш.	AR Adjacent	to roost/nest			
		s on harp trap: 2 3	4 5												
TRA	AP NIGHT:	1	2			3			4			5	6		
Date															
Max Temp	1														
Min Temp															
Wind Velo															
Wind Direc															
Cloud Cov															
Precipitati	ion*														
Moon*															
Night Ligh															
Observer/s											* 000	andan an r	everse, # opti	onol	
RECORDS	Species			No.	Age	Sex	F. aı	rm	Tibia	1,,,	1		-	Ullai	
Date	code	Species		indivs	Age	Jex	(mm	า)#	(mm)#	VVE	eignt(g) #	Reprod Cond * #	Comments #		
										$\vdash$					
										$\vdash$					
							_			_					
	L				L				<u></u>						
Version 4.1	8/07/2013	Queensland Herbariu	ım, Mt Coot-th	a Rd, T	oowon	g			•		PA	GE:	Of:		

### **BAT TRAPPING DATA SHEET - GENERAL**

Date	Species code	Species	No. indivs	Age	Sex	F. arm (mm)#	Tibia (mm)#	Weight (g)#	Reprod Cond * #	Comments #
_										
	1									
	1									
	†									
	1		<u> </u>	<u> </u>		I		I	<u> </u>	

#### **LOCATION DERIVATION**

AGPS = Averaged GPS fix (5 min)

ARCGIS = ArcView Map EST = Estimate from known position

GPS = GPS (12 plus channels)

MAP = Position taken from map

### **ALTITUDE DERIVATION**

ALT = Altimeter

DEM = Digital elevation model

EST = Estimate from known height

GPS = Global Positioning System

KNO = Known height

TOP = Topographic Ma

### **PRECIPITATION**

0 = nil

1 =drizzle or light rain

2 = med - heavy rain

3 = No rain during survey period but drizzle or light rain in previous 24 hrs

4 = No rain during survey period but med to heavy rain in previous 24 hrs

5 = No rain during survey period but rain in previous 24 hrs

6 = Fog/mist

7 = Isolated Showers

#### LOCATION ACCURACY MOON

B = +/-0-10m

C = +/-11-50m

D = +/-51-100m (site)

E = +/-101-300m

F = +/-301-500m

G = +/-501-1000m

H = +/-1001-3000m

I = >3000m

0 = No Moon or moon not up

1 = up to 1/4 Moon

2 = up to 1/2 moon

3 = up to 3/4 moon

4 = up to full moon

5 = moon present (use if unsure of phase)

lactating

#### **NIGHTLIGHT**

1 = V. dark - 0 moon or heavy cloud

2 = Dark < 1/4 moon or heavy cloud

3 = Detail seen <1/2 moon 0 Cloud

4 = Bright > 1/2 moon + no cloud

### WIND VELOCITY

0 = Calm

1 = light, leaves rustle

2 = moderate, moves branches

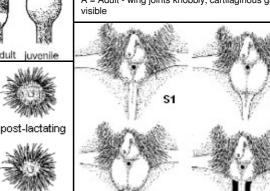
3 = strong, impedes progress

AGE (From Parnaby 1992/Churchhill 2008)

J = Juvenile - still weaning, wing joints with large & obvious cartilaginous bands

S = Subadult - wing joint has smooth outline; cartilaginous band & blood vessels very distinct

A = Adult - wing joints knobbly; cartilaginous gap not



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### REPRODUCTIVE CONDITION

Male (from Churchill 2008)

S1 = Testes not enlarged

S2 = Testes enlarged

S3 = Testes enlarged & epididymis distended

S4 = Testes regressed & epididymis distended

Females (from Churchill 2008)

TU = Teats undeveloped - sub-adult or nulliparous

PG = Pregnant

LA = Lactating

PL = Post-lactating

TR = Teats regressed

nulliparous regressed Version 4.1 8/07/2013 Queensland Herbarium, Mt Coot-tha Rd, Toowong

### **CAMERA TRAPPING DATA SHEET**

OFFICE ONL Surveynum Entered:	_Y		Corrected:	PROJE DATE:	CT:	- /		Queensland Government
		(not required if site in		ODOL				
Datum: _		Location derivat	ion:	zone:	east	ing:	northing	
Accuracy	:	Altitude	Altitude acc	uracy:	m	Altitude deriv	ation:	
Locality d	lescripti	 on:						
								Bioregion:
Habitat De	escriptio	on:						
CAMERA	SETTING	GS: Brand/Model:		Ca	m # or c	ode.	Mode: I	Photo / Video
								ics:
Comments								
Event* (def	ine gap in							
								= Probable; Poss = Possible
Trigger Date/Time		PECIES		Species code	No. of events/indivs*	Reliability of ID <sup>^</sup>		ATION/COMMENTS
					IIIdivo	Def / Prob / Poss		
						Def / Prob / Poss		
						Def / Prob / Poss		
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						Def / Prob / Poss		
						Def / Prob / Poss		

Records \*Define an 'event' if individuals can't be recognised (e.g. inactivity for >5min period is a "new" event) ^Def = Definite; Prob = Probable; Poss = Possible No. of Trigger OTHER INFORMATION/COMMENTS **SPECIES** Reliability of ID<sup>^</sup> **Species** events/ Date/Time code indivs\* Def / Prob / Poss Def / Prob / Poss

## ACOUSTIC RECORDING (NON-BAT) DATA SHEET

OFFIC ON		SITEID:								
•					DATE:		/	/		Queensland Government
Entered:		Checked:	Corrected	d:						
Localit	y Info:	(not required if site	info datashe	et alread	y filled ou	t)				
Datum:		Location deriva	tion:		zone:_	eas	ting:			northing
		Altitude								
										Bioregion:
Habitat [	Descriptio	on:								
										de:
										Stereo (0 + 1) / Mono-L (0) / Mono-R (1)
										eall playback only):
Unit funct	ioning on	removal?:	pro	blem:						
Records	*Define	an 'event' (e.g. no calls o	detected for >	5min perio	d is a "new'	' event)	^Op	tional	^^Can al	so be a range (e.g. 1800-1810)
Period		SPECIES	Species	No. of events/	Time of	Air Ter	nperat	ture^	Source	OTHER INFORMATION/COMMENTS (e.g.
/Date			code	indivs*	call^^	Temp	Min	Max	of ID**	any background noise)

\*\*Source of ID codes: 1 = Programmatically (automation software) identified, 2 = Programmatically identified + verified, 3 = Aurally identified (human ear).

PAGE: \_\_\_\_Of: \_\_\_\_

<sup>\*\*</sup>Source of ID codes: 1 = Programmatically (automation software) identified, 2 = Programmatically identified + verified, 3 = Aurally identified (human ear).

### HAIR TUBE DATA SHEET

OFFICE USE ONLY Surveynum:		Corrected:	PROJE DATES	ECT:		/ /	
<b>Locality Info:</b>	(not required if site in	fo datasheet already	filled ou	t)			
Datum:	Location derivati	on:	zone:	east	ing:	northing _	
	Altitude ion:	<del></del>					
							Bioregion:
Effort: (describe th	ne number of hair tube	s, distance/area sam	pled and	the numb	per of nights)		
Records					^D	ef = Definite; Prob =	Probable; Poss = Possible
SI	PECIES		ecies code	Tube No.	Reliability of ID <sup>^</sup>	OTHER INFORI	MATION/COMMENTS
					Def / Prob / Poss		
					Def / Prob / Poss		
					Def / Prob / Poss		
					Def / Prob / Poss		
					Def / Prob / Poss		
					Def / Prob / Poss		
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					Def / Prob / Poss		
					Def / Prob / Poss		
					Def / Prob / Poss		

Surveynums:	Corrected:	PROJ DATE OBSE	JECT: :: ERVERS	eld code):	
Locality Info: (not required if site					
					northing
Accuracy: Altitude		_			·
					Bioregion:
Habitat Description:					
Effort: (describe the time and area se	arched for scats and	signs)			
Records				^D	ef = Definite; Prob = Probable; Poss = Possik
SPECIES	Species	No.	Record	Reliability of ID <sup>^</sup>	OTHER INFORMATION/COMMENTS
SPECIES	Species code	INU.	Type*	Theliability of ID"	(e.g. from predator scat)
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
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				Def / Prob / Poss Def / Prob / Poss	
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				Def / Prob / Poss	
				Def / Prob / Poss	
				5 ( ( 5 ) ( 7 )	
				Def / Prob / Poss	

### **VEHICLE / FOOT ROAD TRANSECT DATA SHEET**

OFFICE USE ONLY Surveynums:								e):			
Entered:									Qu	eensland	Government
Transect Inform	mation:				OBS	ERVERS			•••••		
	Location Da	atum:		Loca	tion	derivation	.*	Biore	gion <u>:</u>		
STARTING POINT:										;y:*	
FINISH POINT:									Accurac		
Transect location of											
Distance travelled:											
Road conditions: (	describe road typ	oe, surface	conc	lition, traf	fic etc	in relation t	o ease o	f seeing animals	s)		
	Time (24hr)	Temp.	Wi	nd Veloc	ity*	Wind Dire	ection	Cloud (8ths)	Precipitation*	Moon*	Night Light*
Survey Start:											
Survey Finish:											
RECORDS:				ı						* see co	des on reverse
SPEC	CIES		No.	Record Type*	(tick b	nting AMG box in corner GPS used)	Time (24 hrs)		ER INFORMATIC g. Sex, Weight, S		
1											
2						L					
3											
4											
5											
6											
7											
8						L					
9											
10											
11											
12											
13											
14											
15											

'AGE:							Ot:						
													ı

### **RECORDS Continued...**

RECORDS Continued	ı	ı	1	1	
SPECIES	No.	Record Type*	Sighting AMG (tick box in corner if GPS used)	Time (24 hrs)	OTHER INFORMATION/COMMENTS (e.g. Sex, Weight, Size, Habitat)
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
LOCATION DEDIVATION LOCATION ACC	LID AC	W MOC			DIDITATION WIND VELOCITY

### **LOCATION DERIVATION**

AGPS = Averaged GPS fix (5 min) ARCGIS = ArcView Map

GPS = GPS (12 plus channels)

MAP = Position taken from map

### **ALTITUDE DERIVATION**

ALT = Altimeter

DEM = Digital elevation model

EST = Estimate from known height

GPS = Global Positioning System

KNO = Known height TOP = Topographic Ma

### LOCATION ACCURACY MOON

B = +/-0-10mC = +/-11-50m

 $EST = Estimate from known position \quad D = +/-51-100m (site)$ 

E = +/-101-300mF = +/-301-500m

G = +/-501-1000m $H = \pm /-1001-3000m$ 

### 0 = No Moon or moon not up 0 = nil

1 = up to 1/4 Moon

2 = up to 1/2 moon 3 = up to 3/4 moon

4 = up to full moon 5 = moon present (use if unsure of phase)

#### I = >3000m **NIGHT LIGHT**

1 = V. dark - 0 moon or heavy cloud 2 = Dark < 1/4 moon or heavy cloud 3 = Detail seen <1/2 moon 0 Cloud

4 = Bright >1/2 moon + no cloud

### **PRECIPITATION**

1 =drizzle or light rain

2 = med - heavy rain

3 = No rain during survey period but drizzle or light rain in previous 24 hrs

4 = No rain during survey period but med to heavy rain in previous 24 hrs

5 = No rain during survey period but rain in previous 24 hrs

6 = Fog/mist

7 = Isolated Showers

### WIND VELOCITY

0 = Calm

1 = light, leaves rustle

2 = moderate, moves branches

3 = strong, impedes progress

### **RECORD TYPE**

S = Seen

H = Heard

CC = Caught / handled

CR = Road kill

DT = Tracks

DS = Scats

DF = Feed marks

PAGE: \_\_\_\_Of: \_\_\_\_

### **AMPHIBIAN SEARCH**

OFFICE USE ONLY Surveynums:					PROJE	СТ:		equired if sit			Queensland Government Uready filled out)
Accuracy:*	Location Altitu	derivation	:*	e accu	zone: iracy:	easting	g: Altitud	de derivat	n	orthing _	
Tenure:	Reserve	or Property	Name:								Bioregion:
Habitat Condition	s (e.g. stre	eam flow, v	vater qua	ality, f	ire, pig o	r stock da	ımage,	, weeds et	tc):		
Other search note	es (incl fac	tors affect	ing dete	ctabili	ty):						
Search:			1			2			3		4
Date											
Time (start - finish)											
Observer/s:											
Air Temperature (D /	/ <b>W)</b>										
Water temperature											
Water depth (cm)											
Relative humidity (%	<b>%</b> )										
Wind Velocity*											
Wind Direction											
Cloud Cover (8ths)											
Precipitation*											
Moon*											
Night Light*											
Effort (area or dist p										*0 !	A A Continual
Records Trai	nsect leng	th (m):				_			_		n back of page ^Optional
SEARCH DIST	SPECI	ES	Species code	No. indiv	Record Type*	Microhab Code*^	Age / Sex*^	Reprod Cond*^	Comi	ments (e.g. nt, vial ID's	. SV, TL, HW, HL, etc)^
								-			

DIST = point along transect frog located (can also be a range e.g. 25-50m).

EARCH #	DIST^	SPECIES	Species code	No. indiv	Record Type*	Microhab Code*^	Age / Sex*^	Reprod Cond*^	Comments (e.g. SV, TL, HW, HL, weight, vial ID's etc)^
	Derivation				Rain	Descriptio	n	DIS (ca	ST = point along transect frog located in also be a range e.g. 25-50m).
	escription imeter	Wind V	Description		0	Nil			ation accuracy Moon

Altitude Derivation								
Code	Description							
ALT	Altimeter							
DEM	Digital elevation model							
EST	Estimate from known height							
GPS	Global Positioning System							
KNO	Kno wn height							
TOP	Topographic map							

Wind '	Velocity
Code	Description
0	Calm
1	Light, leaves rustle
2	Moderate, moves branches
3	Strong, impedes progress

Rain	
Code	Description
0	Nil
1	Drizzle or light rain
2	Med - heavy rain
3	light rain in past 24hrs
	No rain now but med -
4	heavy rain in past 24hrs
5	past 24hrs
6	Fog/mist
7	Isolated showers

	Location accuracy						
Code Description							
В	+/-0-10m						
С	+/-11-50m						
D	+/-51-100m (site)						
E	+/-101-300m						
F	+/-301-500m						
G	+/-501-1000m						
Н	+/-1001-3000m						
I	>3000m						

Моо	n				
Code	Description				
0	no moon				
1	1/4 moon				
2	1/2 moon				
3	3/4 moon				
4	full moon				
5	moon present - use if unsure of phase				

Record T	Record Type					
Code Description						
Н	Heard					
S	Seen					
CC	Caught by hand					
CF	Found dead					
DR	Remains (eg: skull, feathers)					
CB	Boadkill					

M icrohabitat						
Code	Description	Code	Description			
CK	Crevice in rock	IW	In water			
CL	Crevice in log	IS	In Soil			
EW	Edge of water	OI	On Litter			
FC	in/on post or stump	OL	On Log			
GB	On bare ground	OR	On rock			
GR	On ground (not bare)	RD	On road or track			
IB	In B urro w	AV	In Aquatic Vegetation			
IG	In Grass	IH	In tree hollow			
IL	In Litter	IR	In Reeds			
П	In Tree					

Location Derivation					
Description					
Averaged GPS fix (5 min)					
Arc View Map					
Estimate from known position					
GPS (12 plus channels)					
Position taken from map					

Repro	Reproductive Condition				
Code	Description				
GR	Gravid				
BE	Eggs/egg mass				
ВМ	In amplexus				
N0	Nuptial pads inconspicuous				
	Nuptial pads obvious but not				
N1	fully developed				
N2	Nuptial pads fully developed				

Age/Sex						
Code	Description	Code	Descriptio n			
UK	Unknown	AM	Adult male			
AA	Adult (sex unknown)	FF	Female (age unknown)			
SA	Sub-adult (sex unkno wn)	JF	Juvenile female			
JJ	Juvenile (sex unknown)	SF	Sub-adult female			
FP	Tadpole	AF	Adult female			
ММ	M ale (age unknown)	EG	Egg			
JM	Juvenile male	HA	Metamorph			
SM	Sub-adult male					
•			-			

Night	Night Light					
Code	Code Description					
1	very dark - no moon and cloud					
2	dark - 1/4 moon, or moon and heavy cloud					
3	detail seen - moon and clear sky					
4	bright - 1/2 moon and no cloud					

## WATERBIRD/SHOREBIRD SURVEY

OFFICE SITE ID	/WIC ID:		SITE ALIA	AS (field code):		
Surveynums:				r:	Qı	ueensland Government
Entered: Ch				y Info: (not required i	f site info datasheet alrea	dy filled out)
Datum: Lo	cation derivation:*		zone:	easting:	northing	
Accuracy:*						
Locality description:	· <u></u>					
Tenure: Re						
Habitat Description (i						
•	_			-		
Site Visit comments						
Date			Site map/ske		wetland, showing area su	
Time (start - finish)				habitat and other	features (e.g. breeding a	reas)
Temperature						
Wind Velocity*						
Wind Direction						
Cloud Cover (8ths)						
Precipitation*						
Tide (if applicable)	L half H half	L				
Survey type:	land boat ai	r				
Observer/s:						
% site perimeter seen	0-25 26-50 51-75	76-100				
% site interior seen	0-25 26-50 51-75	76-100				
Records Count a	ccuracy: Accurate		Estimate	`	,	*Codes on back of page
necords count a	nccuracy: Accurate	Fair	Estimate	<del>5</del>		Codes on back of page
	Nests		icks	Young	Adolescents	Adults
Breeding species Common name	Nests Bonded pair/unoccupied	Ch On or off no	icks	Young On or off nest, pin	Adolescents Fully feathered, plumage	Adults Total number observed.
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest w ith adult/egg present (no	Ch	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents	Adults
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with	Ch On or off no	icks	Young On or off nest, pin feathers present on	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest w ith adult/egg present (no	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest w ith adult/egg present (no visible chicks/young)	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest w ith adult/egg present (no visible chicks/young)	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
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Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
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Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no dow ny.	icks	Young On or off nest, pin feathers present on head/body, not fully feathered.	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present w here a species was seen but not counted.
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no	icks	Young On or off nest, pin feathers present on head/body, not fully	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present where a species was
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no dow ny.	icks	Young On or off nest, pin feathers present on head/body, not fully feathered.	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present w here a species was seen but not counted.
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no dow ny.	icks	Young On or off nest, pin feathers present on head/body, not fully feathered.	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present w here a species was seen but not counted.
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no dow ny.	icks	Young On or off nest, pin feathers present on head/body, not fully feathered.	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present w here a species was seen but not counted.
Breeding species Common name	Nests Bonded pair/unoccupied active nest/nest with adult/egg present (no visible chicks/young)  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:  Comment:	Ch On or off no dow ny.	icks	Young On or off nest, pin feathers present on head/body, not fully feathered.	Adolescents Fully feathered, plumage other than adult	Adults Total number observed. Enter "P" for present w here a species was seen but not counted.

Non-breeding species	Count	Non-breeding species	Count
		in the state of th	
Comments: Include extra comments, pr	resence of dead birds, de	etails of habitat change, disturbances and threats	i.

Locatio	Location Derivation Location accuracy		ion accuracy	Altitude Derivation		Wind		Rain	
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
AGPS	Averaged GPS fix (5 min)	В	+/-0-10m	ALT	Altimeter	0	Calm	0	Nil
	. ,	С	+/-11-50m	DEM	Digital elevation model	1	Light, leaves rustle	1	Drizzle or light rain
			+/-51-100m (site)	EST	Estimate from known height	2	Moderate, moves branches	2	M ed - heavy rain
EST	Estimate from known position	E	+/-101-300m	GPS	Global Positioning System	3	Strong, impedes progress	3	or light rain in past
GPS	GPS (12 plus channels)	F	+/-301-500m	KNO	Kno wn height				No rain now but med -
MAP	Position taken from map	G	+/-501-1000m	TOP	Topographic map			4	heavy rain in past 24hrs
		Н	+/-1001-3000m					5	past 24hrs
		I	>3000m					6	Fog/mist
								7	Isolated showers

Complete Count? Include details on if all shorebirds and all waterbirds in the area were counted.