Terrestrial Vertebrate Fauna Survey Field Data Sheets

July 2022 (V 1.4)

Queensland Government

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

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The department is committed to respecting, protecting and promoting human rights, and our obligations under the Human Rights Act 2019.

Citation

Eyre TJ, Ferguson DJ, Smith GC, Mathieson MT, Venz MF, Hogan, LD, Hourigan CL, Kelly, AL & Rowland, J. 2022. Terrestrial Vertebrate Fauna Survey Assessment Guidelines for Queensland: Field Data Sheets. Version 1.4. Brisbane: Department of Environment and Science, Queensland Government.

June 2022 Version 1.4

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. DES 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. *Macropus giganteus*). Subspecies should be recorded if known. In other cases recording to 'species pair' level (e.g. *Litoria jungguy/L. wilcoxii, L. serrata/L. myola*) 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., Birdlife Australia maintain a current working list of Australian Birds).
Species code (optional)	A unique taxonomic coding system, such as the Census of Australian Vertebrate Species on the Department of Climate Change, Environment, Energy and Water website), to aid in rapid, accurate (spelling and taxonomy) entry of species data.
Number or Count 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, and identification cannot be made from photographs.
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). A 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 *Eucalyptus grandis* 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, moon phase 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.

BASIC SITE INFORMATION

OFFICE USE ONLY	SITEID:
Surveynums:	
Entered:	Checked: Corrected:

SITE ALIAS (field code):

PROJECT:

DATE: / /

OBSERVERS

Queensland Government

SITE INFORMATION (no need to fill this section out if revisiting an established site)

LOCATION (GPS reference)

Datum: ☐ AGD84 ☐ GDA94 (WGS84) OTHER: **Location derivation:**

Road: zone: _ _ **easting:** _ _ _ _ _ _ **northing:** _ _ _ _ _ _ _ .

Plot Centre zone: _ _ **easting:** _ _ _ _ _ _ **northing:** _ _ _ _ _ _ _ **Accuracy:** _____ m

Altitude _____ **Altitude accuracy:** _____ m **Altitude derivation:** _____

Locality description:

Tenure: **Reserve or Property Name:** **Reserve number:** **Bioregion:**

Map number: **Map name:** **Subregion:** **Parish:**

VEGETATION

Habitat Description:

Regional Ecosystem (mapped) **Regional Ecosystem (obs):** **Broad veg group:**

Dominant/characteristic species

Layer^	Species	Layer^	Species	Layer^	Species

^Layer: Emergent (E), T1, T2, T3, S1, S2, Ground (G)

General Site comments:

LANDFORM

Situation:* **Element:*** **Pattern:***

Slope Position:* **Slope Degree:** **Slope Aspect:**

SOIL (top soil)

Depth:* **Colour** ☐☐ · ☐ ☐☐ ☐ / ☐ **Munsell? (y/n):** **Texture:**

Soil notes:

GEOLOGY

Source: Map / Cutting / Core / Outcrop **Code:** **Geology unit** **Notes:**

SITE PHOTOS

	Photo No./s		Photo No./s	Other photo numbers and notes:
North:		South:		
East:		West:		

Current Site visit comments

BASIC SITE INFORMATION CONT.....

DISTURBANCE:

Disturbance Type	Severity 0 - 3 (0=nil, 3= severe)	Date of last event (range ok)	Obs type^	Notes: mean fire scar ht (m)	Notes: (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):					

^Observation type: 1= visual estimate; 2 = records; 3 = informant

HABITAT CHARACTERISTICS - ABUNDANCE:

Characteristic (Add others as required)	Abundance (0-7)^	Notes:
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 = Nil
1 = Rare
2 = Rare to Occasional
3 = Occasional
4 = Occasional to common
5 = Commo
6 = Common to Abundant
7 = Abundant

CODES

Location derivation

Code	Description
AGPS	Averaged GPS fix (5 min)
ARCGIS	ArcView Map
DGPS	Differential / RTCM corrected GPS
EST	Estimate from known position
GPS00	GPS - type unspecified
GPS04	GPS - 4 station
GPS08	GPS - 6 to 8 station
GPS12	Multichannel GPS (12 station)
KNO	Known position, eg surveyed 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
A	+/- 0.0 m
B	+/- 0-10 m
C	+/- 11-50m
D	+/- 51-100m
E	+/- 101-300m
F	+/- 301-500m
G	+/- 501-1000m
H	+/- 1001-3000m
I	>3000m

Altitude derivation

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

Situation

Code	Description
Plains	
A	Not otherwise specified, flat gentle slopes; undulating terrain
B	Alluvial plain or flat, alluvium, flood plain
U	Claypan, Playa or Salina(including inland lakes), Salt Flat(inland).
V	Tidal Flat (coastal), Salt Flat (coastal).
Streams, Lakes	
C	Banks of lake, river, stream, watercourse, levees
D	Gully, drainage line, ravine gorge, outwash
E	Channel Bed, distributaries of inland streams
Hills, Mountains, Tablelands	
F	Slope or Hill not specified
L	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, 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)
T	Inland Dune.
Water	
W	Swamp or Marsh.
X	Fresh Water Aquatic.
Y	Salt Water Aquatic.
Z	Melon Holes, Gilgai, Depressions in Soil, Sink Holes.

Element

Code	Description	Code	Description	Code	Description
HCR	Hillcrest	DUS	Duneslope	STF	Supratidal flat
SUS	Summit Surface	BRK	Breakaway	FIL	Fill-top
DUC	Dunecrest	CFS	Cliff-foot slope	REF	Feef flat
TOR	Tor	SFS	Scarp-foot Slope	ALC	Alcove
TUM	Tumulus	BEN	Bench	GUL	Gully
DUN	Dune	BER	Berm	CIR	Cirque
CON	Cone	PED	Pediment	DDE	Drainage depression
MOU	Mound	FOO	Footslope	STC	Stream channel
LEV	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
FOR	Foredune	COS	Cut-over surface	SWL	Swale
LUN	Lunette	SCD	Scald	TRE	Trench
BRI	Beach ridge	FAN	Fan	LAK	Lake
EMB	Embankment	VLF	Valley flat	PLY	Playa
DAM	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
LDS	Landslide	TEP	Terrace plain	CRA	Crater
BAN	(Stream) Bank	TDF	Tidal flat	PIT	Pit
BEA	Beach	ITF	Intertidal flat		

Pattern

Code	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
B	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

Code	Description
C	Crest
D	Closed Depression
F	Flat
G	Gully
H	Hillock
L	Lower-Slope
M	Mid-Slope
P	Plateau
R	Ridge
U	Upper-Slope
V	Open Depression
W	Wetland

Soil Depth

Code	Description
D	Deep
S	Shallow
X	Skeletal

BIRD POINT/AREA COUNT

OFFICE USE ONLY **SITEID:**.....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code):.....

PROJECT: .....

Queensland Government

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:**_ _ **easting:**_ _ _ _ _ _ _ **northing** _ _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:**.....

Habitat Description: .....

.....

Search num:	1	2	3	4	5	6
Method (see over)						
Date						
Time (start - finish)						
Temperature						
Wind Velocity*						
Wind Direction						
Cloud Cover (8ths)						
Precipitation*						
Flower Abundance:	NONE	LOW (<10% of canopy)		MEDIUM (10-50% of canopy)		HIGH (>50% of canopy)
Effort (time x area)						
Observer/s:						

Records Note: Offsite is anything outside of the 100 x 100m site

*Codes on back of page

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

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

Survey Methods

Code	Description	Effort
SBAE	Standard Early Bird Area Search (dawn to 2 hrs after)	5min, 100m x 100m (1ha)
SBAL	Standard Late Bird Area Search (2-4hrs after dawn)	5min, 100m x 100m (1ha)
SBAO	Standard Bird Area Search - Other (ie: after 4hrs from dawn)	5min, 100m x 100m (1ha)
SBA	Bird Area Count	specify time (min) and Area (ha)
BPC	Bird Point Count	specify time (min) for point count

Location 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

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

Record Type

Code	Description
CC	Caught by hand
DR	Remains (eg: skull, feathers)
DS	Scats
DT	Tracks
H	Heard
S	Seen
SH	Seen and Heard

Altitude Derivation

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

Microhabitat

Code	Description	Code	Description
AC	Flying above canopy	SH	In shrub (general)
T1	In tree (T1 layer)	IG	In grass
T2	In tree (T2 layer)	GR	On ground
T3	In tree (T3 layer)	GB	On BARE ground
IT	In tree (general)	OL	On log
FL	Flying within canopy	FC	In/on post/ stump
DT	In dead tree (stag)	IH	In tree hollow
TK	On trunk	EW	Edge of water
S1	In shrub (S1 layer)	IW	In water
S2	In shrub (S2 layer)	RD	On road
S3	In shrub (S3 layer)		

Rain

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

Wind

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

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

Queensland Government

SITE ALIAS (field code):............................

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
H	Heard
S	Seen
SH	Seen and Heard

Microhabitat

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

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

Queensland Government

SITE ALIAS (field code):............................

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

Record Type

code	description
CC	Caught by hand
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DN	Nest
DP	Pellets
DR	Remains (eg: skull, feathers)
DT	Tracks
H	Heard
S	Seen
SH	Seen and Heard

Microhabitat

code	description	code	description
AC	Flying above canopy (overhead)	IG	In Grass
AF	Aerial Feeding	IH	In tree Hollow
AR	Adjacent to roost/nest	IT	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

HERPETOFAUNA SEARCH

Queensland Government

OFFICE USE ONLY **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

Search:	D1	D2	N1	N2
Method/effort*				
Date				
Time (start - finish)				
Temperature				
Wind Velocity*				
Wind Direction				
Cloud Cover (8ths)				
Precipitation*				
Moon*				
Night Light*				
Observer/s:				
Early or Late?**	Early Late	Early Late		
Quadrant (shade in)**			NA - on 100 x 100m site	NA - on 100 x 100m site

*Codes on back of page

**Note: Early= morning search and late= afternoon search; Quadrant=which 50x50m area the search was conducted on

Records

METHOD /SEARCH	SPECIES	Species code	No. indiv	Record Type*	Microhab Code*	Comments

METHOD /SEARCH	SPECIES	Species code	No. indiv	Record Type*	Microhab Code*	Comments

Survey Methods

Code	Description	Effort
SHD1	Standard Diurnal Herp Search - 1st on site	1person 30min per 50x50m
SHD2	Standard Diurnal Herp Search - 2nd on site	1person 30min per 50x50m
SHN	Standard Nocturnal Herp Search	1person 30min per 100x100m
HD	Diurnal Herp Search (specify effort)	specify time per area
NHN	Nocturnal Herp Search (specify effort)	specify time per area

Location 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

Altitude Derivation

Code	Description
ALT	Altimeter
DEM	Digital elevation model
EST	Estimate from known height
GPS	Global Positioning System
KNO	Known 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
H	Heard
S	Seen

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

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
IB	In Burrow	UB	Under Bark on tree
IG	In Grass	UL	Under log/fallen wood/bark (natural)
IL	In Litter	UR	Under Rock
IO	Inside log	UT	Under iron, wood pile or other human debris
IS	In Soil		

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

Rain

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

Wind Velocity

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

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 **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Queensland Government

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

Methods and Effort:

Trapping notes (eg: T- design, square, straight line):

Elliott traps (SET) _____ Elliott traps open for _____ nights _____ m apart .....

Pitfall traps (SPT): _____ Pitfall traps open for _____ nights _____ m apart .....

Funnel traps (SFT) _____ Funnel traps open for _____ nights _____ m apart .....

Cage traps (SCT) _____ Cage traps open for _____ nights _____ m apart .....

Camera traps (RCT): _____ Camera traps deployed for _____ nights .....

Turtle traps (STU): _____ Turtle traps open for _____ nights .....

Other: _____ Effort: .....

TRAP NIGHT:	1	2	3	4	5	6
Date						
Max Temp						
Min Temp						
Wind Velocity*						
Wind Direction						
Cloud Cover (8ths)						
Precipitation*						
Moon*						
Night Light*						
Observer/s:						

Records

Date traps open: ../../.. **Date traps closed:** ../../..

*Codes on back of page

Trap Night	Method	Species	Spp. code	Num	Age	Sex	Comments (Repro condition, wt, sv, tail, etc)

Trap Night	Method	Species	Spp. code	Num	Age	Sex	Comments (Repro condition, wt, sv, tail, etc)

Location 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

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

Altitude Derivation

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

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

Rain

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

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

Wind Velocity

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

ARBOREAL SPOTLIGHT/NOCTURNAL CALL PLAYBACK

Queensland Government

OFFICE USE ONLY **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:**__ __ **easting:**__ __ __ __ __ __ **northing** __ __ __ __ __ __ __

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

Search:	(1) 1st Call playback	(2) 1st Spotlight	(3) 2nd Call playback	(4) 2nd Spotlight
Effort (time x area)				
Date				
Time (start - finish)				
Temperature				
Wind Velocity*				
Wind Direction				
Cloud Cover (8ths)				
Precipitation*				
Moon*				
Night Light*				
Observer/s:				
Flower abundance	NONE	LOW (<10% of canopy)	MEDIUM (10-50% of canopy)	HIGH (>50% of canopy)
Veg density	NONE (paddock)	LOW (open forest)	MEDIUM (wet sclero forest)	HIGH (dense rainforest)
Calls played**				

*Codes on back of page. **Use these codes for calls played and order: MF-marble frogmouth; PF-Papuan frogmouth; PO-powerful owl; RO-rufous owl; MO-masked owl; SO-sooty owl; BO-barking owl; GO-grass owl; YBG-yellow bellied glider; SG-sugar glider; SQG-squirrel glider

onsite = within 100x100m, near = within 50m of site boundary, off = >50m of site boundary. # - Field is optional

Search num	Species	Species code	No. Indivs	Record Type code	On | Near | Off	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			
					On | Near | Off			
					On | Near | Off			
					On | Near | Off			
					On | Near | Off			
					On | Near | Off			
					On | Near | Off			
					On | Near | Off			

onsite = within 100x100m, near = within 50m of site boundary, off = >50m of site boundary. # - Field is optional

Search num	Species	Species code	No. Indivs	Record Type code	On | Near | Off	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			
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					On | Near | Off			
					On | Near | Off			
					On | Near | Off			

Location 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

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

Altitude Derivation

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

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

Rain

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

Record Type

Code	Description
CC	Caught by hand
DR	Remains (eg: skull, feathers)
DS	Scats
DT	Tracks
H	Heard
S	Seen
SH	Seen and Heard

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

Microhabitat

Code	Description
DT	In dead tree (stag)
IH	In tree hollow
IT	In tree
OL	On log
OR	On rock
TK	On trunk

Wind Velocity

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

Incidental Records at Generic or Target Survey Sites

Queensland Government

OFFICE USE ONLY **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

DATES ..../..../.... - ..../..../....

OBSERVERS .....

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

Method (if not incidental records for a generic or targetted survey site - describe the method and effort)

onsite = within 100x100m, near = within 50m of site boundary, off = >50m of site boundary.

SPECIES	Species code	No. indivs	Record Type*	On / Off / Near	OTHER INFORMATION sex, wt, length, reproductive cond., microhabitat

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

Location 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

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

Altitude Derivation

Code	Description
ALT	Altimeter
DEM	Digital elevation model
EST	Estimate from known height
GPS	Global Positioning System
KNO	Known 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
H	Heard
S	Seen

INCIDENTAL FAUNA SIGHTINGS

Queensland Government

OFFICE USE ONLY	Refnum:	
Entered:...............	Checked:.............	Corrected:............

Trip Dates: ....

General Area: ....

Siteid / Site Alias	Date	Species	Number / Rec Type	Observer/s	Zone / Datum	Easting / Northing	GPS / Error	Other Info/Comments
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								

Siteid / Site Alias	Date	Species	Number / Rec Type	Observer/s	Zone / Datum	Easting / Northing	GPS / Error	Other Info/Comments
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								
Locality, Tenure and Habitat:								

Incidental Record Type Codes

BU	Detected by presence of burrow/s	CR	Roadkilled				
C	Captured/Caught	D	Detected by other means	DN	Nest	DT	Tracks
CC	Caught by hand	DC	Cast Skin	DP	Pellets	H	Heard
CF	Found Dead	DF	Presence of Feeding Marks	DR	Remains (skull, feathers etc)	S	Seen
CP	Predated	DL	Presence of Platelets	DS	Scats	SH	Seen and Heard

Use a separate Sheet for each trap/ net/ dam

BAT TRAPPING DATA SHEET - GENERAL

Queensland Government

OFFICE USE ONLY **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Start Date ... / ... / ... **Finish Date:** ... / ... / ...

If less than full night, specify: Start time ..... Finish time: .....

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

EFFORT ..... Harp trap nights. ..... Tripline Hours ..... Mist Net Hours and Length (m)

mini harptrap
single harptrap
double harptrap
specify if more: .....

TRAP PLACEMENT CODE
Tick ONE (the most correct)
OR specify in "other"

- -CF Over creek - flowing
- -CD Over creek - dry bed
- -PC Pool in creek - not flowing
- -DA Farm/fire dam
- -PO Pond
- -UI Under Bridge
- -BB Beside buildin
- -RD On road or trac
- -FM In front of mineshaft
- -IM In mineshaft//tunnel
- -AR Adjacent to roost/nest

Other (specify)

Number of string banks on harp trap: 2 3 4 5

TRAP NIGHT:	1	2	3	4	5	6
Date						
Max Temp						
Min Temp						
Wind Velocity*						
Wind Direction						
Cloud Cover (8ths)						
Precipitation*						
Moon*						
Night Light*						
Observer/s:						

RECORDS: * see codes on reverse, # optional

Date	Species code	Species	No. indivs	Age	Sex	F. arm (mm)#	Tibia (mm)#	Weight(g) #	Reprod Cond * #	Comments #

Use separate Sheet for each trap/ net/ dam

BAT TRAPPING DATA SHEET - GENERAL

Date	Species code	Species	No. indivs	Age	Sex	F. arm (mm)#	Tibia (mm)#	Weight (g)#	Reprod Cond * #	Comments #

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

B = +/-0-10m
C = +/-11-50m
D = +/-51-100m (site)
E = +/-101-300m
F = +/-301-500m
G = +/-501-1000m
H = +/-1001-3000m
I = >3000m

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

MOON

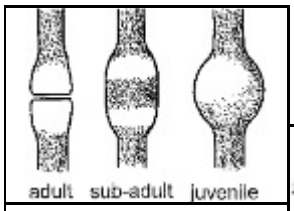
0 = No Moon or moon not up
1 = up to 1/4 Moon
2 = up to 1/2 moon
3 = up to 3/4 moon
4 = up to full moon
5 = moon present (use if unsure of phase)

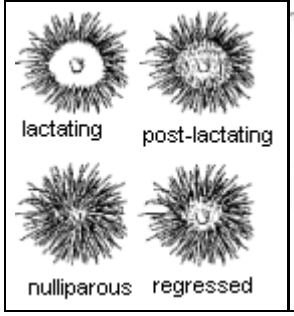
NIGHTLIGHT

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



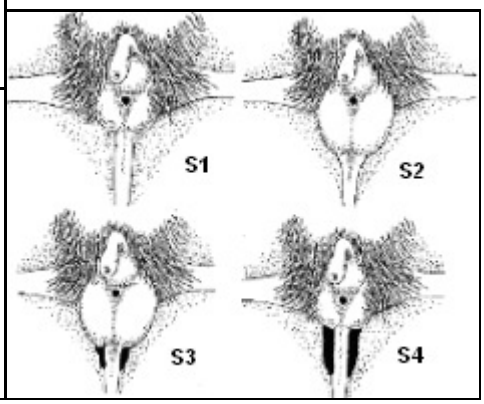


AGE (From Parnaby 1992/Churchhill 2008)

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 visible



CAMERA TRAPPING DATA SHEET

Queensland Government

OFFICE USE ONLY	SITEID: ....
Surveynums:..	
Entered:............... Checked:............ Corrected:............	

SITE ALIAS (field code):............................

PROJECT: ....

DATE: ..../......./........ - ..../......./........

OBSERVER/S: ....

Locality Info: (not required if site info datasheet already filled out)

Datum: _______ **Location derivation:** ________ **zone:** _ _ **easting:** _ _ _ _ _ _ _ **northing** _ _ _ _ _ _ _ _

Accuracy: _______ **Altitude** ______ **Altitude accuracy:** ______ m **Altitude derivation:** ______

Locality description:..

Tenure: ....**Reserve or Property Name:**.. **Bioregion:**..........

Habitat Description: ....

....

CAMERA SETTINGS: Brand/Model: .... Cam # or code: .... Mode: Photo / Video

Pic/video size/resolution: ....Pics per trigger/Video length: .... Interval btwn pics: ....

Sensor level: .... Time period active: .... Bait type & setup: ....

Comments on setup: ....

Event* (define gap in visitation to be regarded as a new event): ....

Cam functioning on removal?: ....problem: .... Bait still ok?: ....

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

Trigger Date/Time	SPECIES	Species code	No. of events/ indivs*	Reliability of ID^	OTHER INFORMATION/COMMENTS
				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	
				Def / Prob / Poss	
				Def / Prob / Poss	
				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

Trigger Date/Time	SPECIES	Species code	No. of events/ indivs*	Reliability of ID^	OTHER INFORMATION/COMMENTS
				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	

ACOUSTIC RECORDING (NON-BAT) DATA SHEET

Queensland Government

OFFICE USE ONLY	SITEID: ....
Surveynums:..	
Entered:............... Checked:............. Corrected:............	

SITE ALIAS (field code):............................

PROJECT: ....

DATE: ....../....../......... - ....../....../.........

OBSERVER/S: ....

Locality Info: (not required if site info datasheet already filled out)

Datum: ______ **Location derivation:** ________ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy: ______ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:** ______

Locality description:..

Tenure: ....**Reserve or Property Name:**.. **Bioregion:**...........

Habitat Description: ....

....

RECORDER SETTINGS: Recorder Model: .... Unit # or code: ....

Mode: Recording / Call playback and recording Sample rate (hz): .... Channels: Stereo (0 + 1) / Mono-L (0) / Mono-R (1)

Start - Finish Time/s: .... Recording duration/s:..

Target species (e.g. automation software): .... Target species (call playback only): ....

Comments on program/setup/schedule: ....

....

Event*^(define gap in recording to be regarded as a new event): ....

Unit functioning on removal?: ....problem: ....

Records *Define an 'event' (e.g. no calls detected for >5min period is a "new" event) ^Optional ^^Can also be a range (e.g. 1800-1810)

Period /Date	SPECIES	Species code	No. of events/ indivs*	Time of call^^	Air Temperature^			Source of ID**	OTHER INFORMATION/COMMENTS (e.g. any background noise)
					Temp	Min	Max		

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

Records

*Define an 'event' (e.g. no calls detected for >5min period is a "new" event) ^Optional ^^Can also be a range (e.g. 1800-1810)

Period /Date	SPECIES	Species code	No. of events/ indivs*	Time of call^^	Air Temperature^			Source of ID**	OTHER INFORMATION/COMMENTS (e.g. any background noise)
					Temp	Min	Max		

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

HAIR TUBE DATA SHEET

Queensland Government

OFFICE USE ONLY **SITEID:** ....
Surveynum:.................
Entered:............... Checked:............. Corrected:............

SITE ALIAS (field code):............................
PROJECT: ....
DATES ...../...../..... - ...../...../.....
OBSERVERS ....

Locality Info: (not required if site info datasheet already filled out)

Datum: ______ **Location derivation:** ________ **zone:**__ __ **easting:**__ __ __ __ __ __ **northing** __ __ __ __ __ __ __
Accuracy: ______ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:** ______
Locality description:..
Tenure: ....**Reserve or Property Name:**.. **Bioregion:**..........
Habitat Description: ....
....

Effort: (describe the number of hair tubes, distance/area sampled and the number of nights)

Records

^Def = Definite; Prob = Probable; Poss = Possible

SPECIES	Species code	Tube No.	Reliability of ID^	OTHER INFORMATION/COMMENTS
			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	
			Def / Prob / Poss	
			Def / Prob / Poss	
			Def / Prob / Poss	

SCAT AND SIGN SEARCH DATA SHEET

OFFICE USE ONLY	SITEID: ....
Surveynums:..	
Entered:............... Checked:............. Corrected:............	

SITE ALIAS (field code):............................

PROJECT: ....

DATE: ..../........./.........

OBSERVERS ....

Queensland Government

Locality Info: (not required if site info datasheet already filled out)

Datum: ______ **Location derivation:** ________ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy: ______ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:** ______

Locality description:..

Tenure: ....**Reserve or Property Name:**.. **Bioregion:**..........

Habitat Description: ....

....

Effort: (describe the time and area searched for scats and signs)

Records

^Def = Definite; Prob = Probable; Poss = Possible

SPECIES	Species code	No.	Record Type*	Reliability of ID^	OTHER INFORMATION/COMMENTS (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	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	
				Def / Prob / Poss	

***Record Type:**

BU = Burrow CP = Predated DF = Feeding or other marks DL = Presence of platelets DP = Pellets DS = Scats DT = Tracks

CF = Found dead DC = Cast skin DH = Hair (inc from hair tube) DN = Nest DR = Dead remains (skull, feathers) D = Detected by other means

VEHICLE / FOOT ROAD TRANSECT DATA SHEET

Queensland Government

OFFICE USE ONLY	SITEID:
Surveynums:	
Entered:	Checked: Corrected:

SITE ALIAS (field code): .....

PROJECT: .....

DATE ... / ... / .....

OBSERVERS .....

Transect Information:

Location Datum: _____ **Location derivation:*** _____ **Bioregion:** .....

STARTING POINT: **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _ **Accuracy:*** _____

FINISH POINT: **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _ **Accuracy:*** _____

Transect location description: .....

.....

Distance travelled: ..... **Average speed:** ..... **Activity:** Road Herps / Arboreal Spotlight / Both / Other (describe below)

Road conditions: (describe road type, surface condition, traffic etc in relation to ease of seeing animals) .....

.....

	Time (24hr)	Temp.	Wind Velocity*	Wind Direction	Cloud (8ths)	Precipitation*	Moon*	Night Light*
Survey Start:								
Survey Finish:								

RECORDS: * see codes on reverse

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)
1			☐		
2			☐		
3			☐		
4			☐		
5			☐		
6			☐		
7			☐		
8			☐		
9			☐		
10			☐		
11			☐		
12			☐		
13			☐		
14			☐		
15			☐		

RECORDS Continued...

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 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

LOCATION ACCURACY

B = +/-0-10m
C = +/-11-50m
D = +/-51-100m (site)
E = +/-101-300m
F = +/-301-500m
G = +/-501-1000m
H = +/-1001-3000m
I = >3000m

MOON

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)

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

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

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

AMPHIBIAN SEARCH

OFFICE USE ONLY **SITEID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Queensland Government

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description: .....

.....

Habitat Conditions (e.g. stream flow, water quality, fire, pig or stock damage, weeds etc): .....

.....

.....

Other search notes (incl factors affecting detectability): .....

.....

Search:	1	2	3	4
Date				
Time (start - finish)				
Observer/s:				
Air Temperature (D / W)				
Water temperature				
Water depth (cm)				
Relative humidity (%)				
Wind Velocity*				
Wind Direction				
Cloud Cover (8ths)				
Precipitation*				
Moon*				
Night Light*				
Effort (area or dist per time)				

Records **Transect length (m):** ..... **Transect direction: Upstream / Downstream** *Codes on back of page ^Optional

SEARCH #	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)^

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

SEARCH #	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)^

Altitude Derivation

Code	Description
ALT	Altimeter
DEM	Digital elevation model
EST	Estimate from known height
GPS	Global Positioning System
KNO	Known 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
4	No rain now but med - heavy rain in past 24hrs
5	past 24hrs
6	Fog/mist
7	Isolated showers

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

Location accuracy

Code	Description
B	+/-0-10m
C	+/-11-50m
D	+/-51-100m (site)
E	+/-101-300m
F	+/-301-500m
G	+/-501-1000m
H	+/-1001-3000m
I	>3000m

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

Record Type

Code	Description
H	Heard
S	Seen
CC	Caught by hand
CF	Found dead
DR	Remains (eg: skull, feathers)
CR	Roadkill

Location 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

Age/Sex

Code	Description	Code	Description
UK	Unknown	AM	Adult male
AA	Adult (sex unknown)	FF	Female (age unknown)
SA	Sub-adult (sex unknown)	JF	Juvenile female
JJ	Juvenile (sex unknown)	SF	Sub-adult female
FP	Tadpole	AF	Adult female
MM	Male (age unknown)	EG	Egg
JM	Juvenile male	HA	Metamorph
SM	Sub-adult male		

Microhabitat

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 Burrow	AV	In Aquatic Vegetation
IG	In Grass	IH	In tree hollow
IL	In Litter	IR	In Reeds
IT	In Tree		

Reproductive Condition

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

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

WATERBIRD/SHOREBIRD SURVEY

OFFICE USE ONLY **SITE ID/WIC ID:** .....

Surveynums:.....

Entered:..... Checked:..... Corrected:.....

SITE ALIAS (field code): .....

PROJECT: .....

Queensland Government

Locality Info: (not required if site info datasheet already filled out)

Datum: _____ **Location derivation:*** _____ **zone:** _ _ **easting:** _ _ _ _ _ _ _ **northing** _ _ _ _ _ _ _

Accuracy:* _____ **Altitude** _____ **Altitude accuracy:** _____ m **Altitude derivation:*** _____

Locality description: .....

Tenure: ..... **Reserve or Property Name:** ..... **Bioregion:** .....

Habitat Description (incl if waterbody is fresh/saline, if applicable) .....

.....

.....

Site Visit comments (incl water levels/extent/depth and disturbance info): .....

.....

Date	
Time (start - finish)	
Temperature	
Wind Velocity*	
Wind Direction	
Cloud Cover (8ths)	
Precipitation*	
Tide (if applicable)	L -- half -- H -- half -- L
Survey type:	land -- boat -- air
Observer/s:	
% site perimeter seen	0-25 26-50 51-75 76-100
% site interior seen	0-25 26-50 51-75 76-100

Site map/sketch Include details of wetland, showing area surveyed, significant habitat and other features (e.g. breeding areas)

Records **Count accuracy:** Accurate Fair Estimate *Codes on back of page

Breeding species	Nests	Chicks	Young	Adolescents	Adults
Common name	Bonded pair/unoccupied **active** nest/nest with adult/egg present (no visible chicks/young)	On or off nest, naked or downy.	On or off nest, pin feathers present on head/body, not fully feathered.	Fully feathered, plumage other than adult	Total number observed. Enter "P" for present where a species was seen but not counted.
	Comment:				
	Comment:				
	Comment:				
	Comment:				
	Comment:				
	Comment:				
	Comment:				
	Comment:				
	Comment:				

Non-breeding species	Count	Non-breeding species	Count

Continued over page

Non-breeding species	Count	Non-breeding species	Count

Comments: Include extra comments, presence of dead birds, details of habitat change, disturbances and threats.

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

Location 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

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