

October 2003

Frogwatch

ACT & REGION
NATIONAL WATER WEEK
COMMUNITY FROGWATCH CENSUS REPORT

Produced by the
Ginninderra
Catchment Group



environment ACT
ACT URBAN SERVICES



Natural Heritage Trust
Helping Communities Help Australia
A Commonwealth Government Initiative

**ACT Region
October 2003 National Water Week
Community Frogwatch Census Report**

The Australian Capital Territory 2003 National Water Week Community Frogwatch Program was carried out with the assistance of funds made available by the ACT Government under the ACT Government Environment Grants Program.

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ACKNOWLEDGMENTS

A HUGE THANK YOU goes to all the community participants who volunteered their time and effort for the ACT National Water Week Frogwatch Census. The response from volunteers this year has been overwhelming, with over 150 people taking part. Thank you for your enthusiasm and commitment to making the program such a success.

The Australian Capital Territory 2003 National Water Week Community Frogwatch Program was carried out with the assistance of funds made available by the ACT Government under the ACT Government Environment Grants Program.

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Peter Ormay from Environment ACT, Wildlife Research and Monitoring, for his assistance with species identification.

The Ginninderra Catchment Group, for initiating and coordinating the project.

Ederic Slater, who allowed us to copy his audio CD, "Frog Calls of the ACT" at a minimum cost for distribution to volunteers.

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Peter Lehmann and the Australian National Botanic Gardens for providing a fantastic venue for our seminar.

Richard Manning and the Mugga Mugga Education Centre for providing a fantastic venue for our seminar.

1. SUMMARY

Frog species are widely recognised as indicators of environmental health and their presence can indicate good water quality and the availability of high quality habitat. Conversely, the absence or decline of frog populations can indicate unhealthy or degraded catchments.

In 2002, ACT Waterwatch initiated the ACT Region National Water Week Community Frogwatch Census, modeled on the Ginninderra Catchment Group's successful Frogwatch Program. Over 40 volunteers monitored frog calls at 29 sites for the 2002 Census.

In 2003 the Frogwatch Census expanded dramatically to include 150 community participants and close to 120 sites, providing a snapshot of frog species and abundance in the ACT Region. Twenty-seven of the Frogwatch sites were affected by the January 2003 bushfires. The information collected will help to identify future community monitoring and action programs that will create a more frog friendly Upper Murrumbidgee Catchment.

The Aim of the Program is:

To conduct an ACT & Upper Murrumbidgee Community Frogwatch Census that will generate significant information about the presence and abundance of frog populations in the region.

The Objectives of the Program include:

Census Information Objectives

- Increase understanding of frog distribution and abundance;
- Increase knowledge and understanding about the health of our waterways;
- Monitor the impacts of bushfires and drought on our local ecosystems and catchments;
- Monitor the impact of bushfires on local wildlife, and track recovery rates;
- Provide supplemental information to Environment ACT's Wildlife Research and Monitoring Unit's professional frog monitoring program; and
- Continue the collection of important frog monitoring data to enhance previous studies.

Community Capacity Building Objectives

- Provide an exciting, hands-on opportunity for community engagement in Natural Resource Management (NRM);
- Provide opportunities for community involvement in wildlife monitoring;
- Provide CAMPFIRE (Community Assessment Monitoring Program for Fire Impacted River Ecology) and Waterwatch groups the opportunity to broaden their monitoring activities;
- Increase community participation in a range of important issues such as biodiversity, water quality, habitat restoration and construction and other important NRM projects;
- Facilitate community monitoring and evaluation of NRM on-ground works, eg wetland development, willow removal and revegetation projects; and
- Increase the awareness of frog populations and their habitat requirements.

2. METHODOLOGY

Frogwatch participants attended one of three Frogwatch Seminars where they learnt about the different frog species in the region and their calls, basic safety and site selection guidelines, procedures for preventing the spread of potential frog pathogens, frog identification techniques and procedures for undertaking and recording Frogwatch observations.

All participants received a Frogwatch Kit, which contained:

- The Frogwatch Monitoring Plan;
- A list of frog species likely to be calling during spring, with descriptions of habitat and calls;
- Pathogen Control Guidelines;
- Frog Facts!;
- Procedures for Monitoring Frog Calls;
- Field Data Sheets;
- Contact Details and Feedback Forms;
- An audio CD - "Frog Calls of the ACT" by Ederic Slater;
- An Environment ACT Thermometer; and
- A blank cassette tape.

Each participant or group then registered their Frogwatch site(s). Participants were encouraged to select useful sites that had intrinsic value to the program. For example, a Waterwatch monitoring site, a newly constructed wetland area, an environmentally sensitive or bushfire affected area, proposed restoration sites, farm dams, or a site in which they have a particular interest.

Frog calls were then monitored by community volunteers at sites across the Upper Murrumbidgee Catchment according to the following guidelines:

Season	Dates	Time of Day	How Often	Duration
Spring	19 th - 25 th October 2003 (National Water Week)	During the 2 hours after dark (eg. between about 7 - 9 pm during October)	On at least one evening during National Water Week 2003	Tape recording of frog calls for 5-10 minutes

At each site, Frogwatchers recorded details about:

- Site Location;
- Habitat;
- Vegetation;
- Weather conditions; and
- Frogs Species observed.

These details were recorded onto Field Data Sheets. Participants took tape recordings of the sounds present during the early evening at their site. Even if there were no frogs calling, the recording and data collected were submitted. This information was then sent to the Frogwatch Coordinator for confirmation.

All audio tapes were checked for accuracy of identification by the Frogwatch Coordinator. A number of the tapes were also checked by Peter Ormay of Environment ACT Wildlife research and Monitoring, to confirm unusual species or calls that were difficult to distinguish.

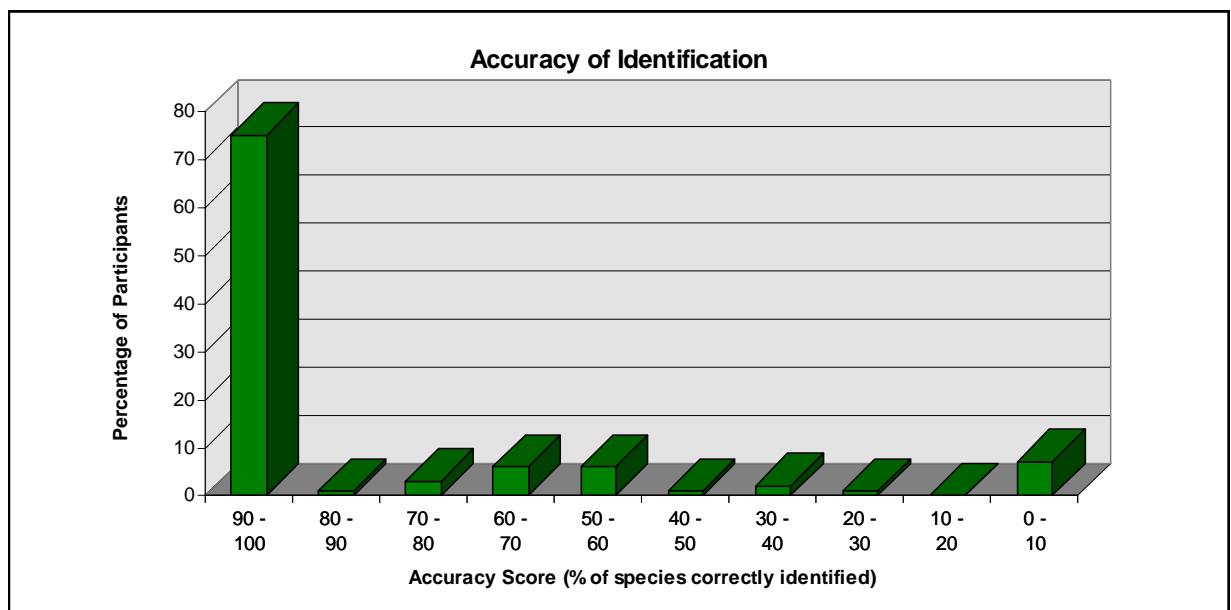
3. QUALITY ASSURANCE / QUALITY CONTROL

The data collected for the 2003 ACT Region National Water Week Community Frogwatch Census has undergone a strict process that ensures the quality of the data is known. The quality control procedures employed include:

- Monitoring of calls at all sites was undertaken during National Water Week, 19 - 26 October 2003, during the first 2 hours after dark. Observations taken outside of these specified times are highlighted in *italics* in the results section of this report (Section 5).
- Audio recordings were taken at all monitoring sites. These recordings were then used to confirm identification of species and the number of frogs calling. This data was assessed by the Frogwatch Coordinator. The Environment ACT Wildlife Research and Monitoring Unit investigated unusual or difficult results. Any data that has not been confirmed is not included in this report.

As shown in the chart below, over 70% of participants were able to identify all species correctly.

FIGURE 1. Frogwatch Participants' Accuracy Score



4. FROGWATCH MONITORING SITES

Figure 2. Location of Frogwatch Monitoring Sites, Frogwatch Census October 2003

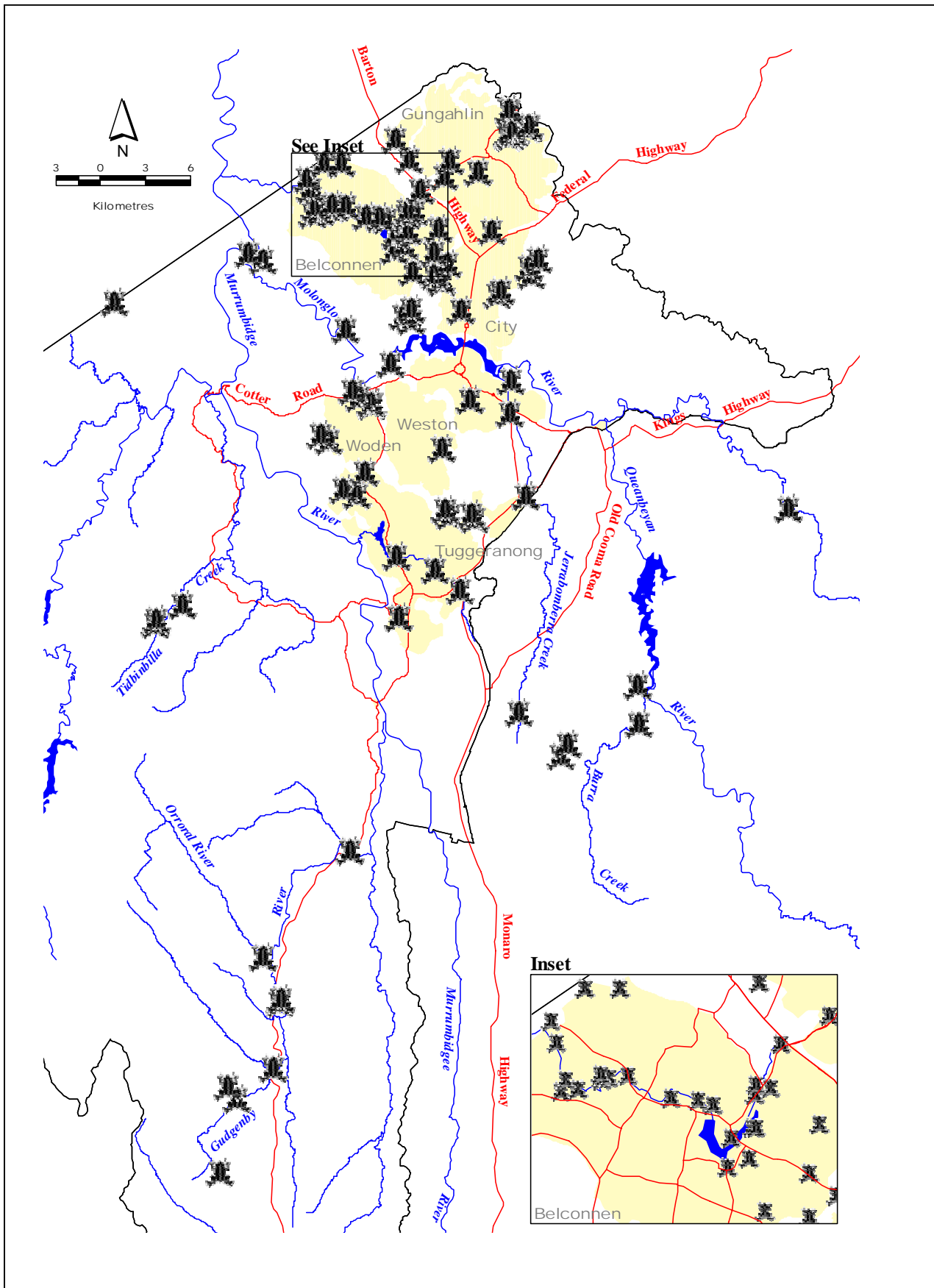


Table 1. Frogwatch Monitoring Sites Location Details

NOTE: * indicates a site that was also monitored during the 2002 Frogwatch Census

Site Code	Site Name	Northing	Eastin g	Observers
PLM100	Laver Farm Dam 1, Murrumbateman	6135127 AMG	680000 AMG	P. Laver
PLM200	Laver Farm Dam 2, Murrumbateman	6135100 AMG	680000 AMG	P. Laver
MFL009	Mulligans Flat Site 9	6107780	696260	A. Leavesley
MFL008	Mulligans Flat Site 8	6107720	696285	A. Leavesley
UCM100	Mulligans Flat University of Canberra Site 1	6106710	697589	K. Kleeman, G. Murray, Y. Corey
UCM200	Mulligans Flat University of Canberra Site 2	6106601	697481	K. Kleeman, J. Gallimore, K. Reedy
UCM300	Mulligans Flat University of Canberra Site 3	6106586	697636	K. Kleeman, J. Gallimore, K. Reedy
MFL005	Mulligans Flat Site 5	6106380	696460	A. Leavesley
MFL006	Mulligans Flat Site 6	6106380	696460	A. Leavesley
MFL007	Mulligans Flat Site 7	6106250	696700	A. Leavesley
MUL001	Mulligans Flat Peter L. Pond 1	6106248	696248	P. Liston & W. Henderson
MFL004	Mulligans Flat Site 4	6106120	696285	A. Leavesley & J. Nardini
MFL003	Mulligans Flat Site 3	6106080	696420	A. Leavesley & J. Nardini
MFL001	Mulligans Flat Site 1	6106030	696180	A. Leavesley & J. Nardini
MFL002	Mulligans Flat Site 2	6105995	696250	A. Leavesley & J. Nardini
HAL001	Halls Creek Showground Bridge	6105800	688725	G. Medlin
GBY100	Fleetwood Smith St Pond, Nicholls	6104450	689600	G. Medlin
GIN002	Gungahlin Golf Course, upstream of Gungahlin Pond - North	6104390	692350	C. Valakis
DGP001	Dunlop Grasslands Pond	6104250	685100	L. Churchill, F. Fawke, P. Fawke
FBP001	West Belconnen Pond. Gross Pollutant Trap Outflow Point	6104250	683925	F. & P. Fawke, D. Lassam
GINMAR	Gungahlin Marketplace Dam and small pond	6103670	694200	C. Valakis
GFW002	Gungahlin Pond Storm Water Outlet, Nicholls	6103375	691916	D. & V. Wu
GFW002	Gungahlin Pond Storm Water Outlet, Nicholls	6103375	691916	C. Williams
FGC030 *	Gooromon Ponds Creek, Pool Crossing	6103200	682825	F. & P. Fawke, Dennis Lassam
FGC009 *	Dunlop Pond 1	6102500	683000	P. & F. Fawke
GIN007 [FGC003] *	Ginninderra Creek downstream of Barton Highway, Giralang	6102430	690320	M. Griffin-Warwicke
FGW200	Herron Creek, Latham	6101460	684450	R. Smith, J. & J. Hubbard, Mark & Michael
FGC007 *	Ginninderra Creek, Flynn footbridge	6101406	685357	J. Carter
SWA100	Red Park, Latham	6101330	684700	J. Richardson & A. Smith
FGC090	Ginninderra Creek, Macgregor	6101270	683310	P. Fawke & D. Lassam
FGW100	Fellows Pond and Boardwalk Wetland, Latham	6101260	684500	R. Smith, J. & J. Hubbard, Mark & Michael
MCW002	Mackellar Wetland (development 2003)	6101110	689520	J. Carter
FGG010 *	Giralang Pond, Smalley Ct	6100990	689990	M. O'Halloran
GFW008 [FGC008] *	Kippax Creek	6100970	683730	S. Harding & J. Daly
CHA100	Backyard Pool, Brownless St, Macgregor	6100880	683150	J. Richardson & L. Christie

GFW004	Mackellar Wetland (constructed 2000)	6100800	689480	S. Harding & J. Daly
JBT001	Melba BMX track - storm water tributary	6100670	686750	J. Mugodo & T. Nelson
FGC006 *	Ginninderra Creek, Evatt	6100610	687630	J. Carter

Site Code	Site Name	Northing	Eastin g	Observers
GIN009	Ginninderra Creek, downstream of dam wall.	6100450	68880	J. & M. Hagan
CME001	Kaleen Storm Water Drain	6099840	691580	C. Evans
FGC010 *	Lake Ginninderra and College Creek junction, Lawson	6099730	689390	J. & R. Kiely
FGC020 *	College Creek, Lawson	6099730	689500	J. & R. Kiely
FSC100	Sullivans Creek at Flemington Road	6099697	695123	P. Liston & W. Henderson
FGC040	Diddums Close beach, Lake Ginninderra	6099390	688690	J. & R. Kiely
FGC050	University of Canberra Campus, Creek near Pantowora Rd	6098710	689290	J. & R. Kiely
GFW005 [FGD005] *	John Knight Park, Belconnen - top pond	6098443	688596	A. Sticpewich & Laura
FGD050	Storm water channel, back of Lyneham Ridge, Kaleen	6098250	691250	K. Hodges
STI100	Molonglo River at Murrumbidgee	6098200	678870	A. Leavesley & J. Nardini
FMC220	Mt Majura Dam (lower - via Jukes St)	6097860	698200	K. Nicolson
LDM100	Lookout Dam, Holt	6097750	6079850	A. Leavesley
FGD020	O'Connor Ridge Dam	6097500	692130	K. Hodges
FMC210	Top Dam, Mt Majura Nature Reserve	6097300	697600	S. Joyce
CHC100	Calvary Hospital Drain	6097000	689800	A. Leavesley
FGD030	Australian Institute of Sport, near bike path	6096800	691250	D. Wong
FMC200	Mt Majura Dam 1	6096750	697750	S. & N. Darby
FMC200	Mt Majura Dam 1	6096750	697750	J. Savigny, J. Castley & R. Palma
ORD001	O'Connor Ridge Drain	6096490	691750	R. McConville
ORD001	O'Connor Ridge Drain	6096490	691750	K. Smith
FMW020 *	Dryandra St Wetland, O'Connor	6096305	691820	G. & B. Hall
FMC100	Levee Bank, Tyson St, Ainslie	6095750	695750	C. & L. Dow
FMC060	Levee Bank, Fisher St, Ainslie	6095500	695500	C. & L. Dow
JDOD01	Aranda Bushland (Carne Creek)	6094500	689750	J. & D. O'Dea

FMW010 *	David St Wetlands	6094450	693100	G. & B. Hall
FGD040	Aranda Bushland Dam	6094091	689249	M. & K. Fyfe
FGD040	Aranda Bushland Dam	6094091	689249	A. Leavesley & S. Rae
FBM100	Black Mountain Dam	6093750	689750	A. Leavesley

Site Code	Site Name	Northing	Eastin g	Observers
CMM100	Coppins Crossing	6093180	685364	M. Fyfe
MYA050	Yarralumla Creek	6090880	688380	S. Nicholas & L. Paine
GCC100	Condor Creek	6095000	670000	V. Tanner & Tim
JER500	Jerrabomberra Wetlands, first Bird Hide from Dairy Rd Carpark	6089755	696400	M. Cooper, M Cooper & J Cameron
SFF100	Stromlo Forest Retention Dam	6089090	685850	T. Brady & L. Giles
CMW500	Weston Creek Gross Pollutant Trap	6088600	686300	A. Llorens
FRH100	Red Hill Storm Water Drain	6088500	693700	R. McLeish & Family
XER001	Bottom Pond, Canberra Institute of Technology, Weston	6088280	687060	R. Morgan
XER003	Middle or Large Pond, Canberra Institute of Technology Dept of Horticulture, Weston	6088230	687200	R. Morgan
XER002	Top Pond, Canberra Institute of Technology Dept of Horticulture, Weston	6088110	687120	R. Morgan
JER300	Jerrabomberra Creek, Mill Creek Oval	6087600	696300	M. Cooper, M Cooper & J Cameron
COO100	Cooleman Ridge, North West Dam	6086100	683700	A. Llorens
CMC100	Cooleman Ridge, Old Dam	6085750	684250	J. Cleary and M. Stutters
FAD200	Garden Pond, Decker Place, Fadden	6085250	691825	A. Llorens
CMC700	Vikings BMX track, Tuggeranong Parkway	6083620	686660	W. Lichacz
CMC750	Fisher Dam, Tuggeranong Parkway, Fisher	6083620	686660	W. Lichacz
CMC600	Neighbour Horse Paddock Dam	6082500	685250	E. Ormes-Lichacz & M. Doeple
MGC100	Murrumbidgee Golf Course, Kambah	6082094	686145	J. Burkitt & C. Webster
JER020	Jerrabomberra Creek, Lanyon Drive Bridge	6082062	697338	N. Webb
FAD300	Wanniassa Hills Fire Trail	6081150	692050	A. Llorens
RCD001	Rose Cottage Horse Paddock and Dam 8	6080810	693720	N. Webb

FAD100	Fadden Hills Silt Pond	6080750	692320	J. Burkitt
RCD002	Rose Cottage Horse Paddock Dam 7	6080550	694000	N. Webb
FTP100	Isabella Pond	6078067	688750	J. Douglas & D. Giddings
FTT010 *	Tuggeranong Homestead - ephemeral soak	6077120	691310	J. Goodrum
CTT300	Upper Tuggeranong Creek, Lienhop Bridge, Theodore	6075820	693000	J. Goodrum

Site Code	Site Name	Northing	Eastin g	Observers
FTD160	Barbeque Swamp, Tidbinbilla Nature Reserve	6074800	674500	G. & B. Hall, N. Philpot, F. Spier, J. Goodrum, Janette & Shona
CMM200	Gordon Settling Pond	6074000	688900	M. & H. Strong
FTD010 *	Rippers Pond Tidbinbilla Nature Reserve	6073800	672800	G. & B. Hall, N. Philpot, F. Spier, J. Goodrum, Janette & Shona
FTD120	Boardwalk Pond	6073500	672700	G. & B. Hall, N. Philpot, F. Spier, J. Goodrum, Janette & Shona
GOG001	Tin Hut Dam	6069450	704870	B. Morriss, N. Carroll & I. Kenny
JER100	Jerrabomberra Creek @ Barrett's property	6067645	696916	L. Barrett
GOG002	Willow Crossing, Burra Creek	6066900	704950	B. Morriss, N. Carroll & I. Kenny
GOG003	Plummers Dam, Plummers Rd, Burra	6065520	700150	N. Carroll, I. Kenny & D. Stockbridge
GOG004	Leaky Dam, Plummers Rd, Burra	6064750	699700	N. Carroll, I. Kenny & D. Stockbridge
TGN200	Gundgenby River, Naas Crossing	6058400	685700	G. & B. Hall
FTR010 [TOR100] *	Orroral River Campsite	6051325	679850	J. Goodrum
TGC100	Glendale Crossing, Gudgenby River	6048525	681050	J. Goodrum
TGC100	Glendale Crossing, Gudgenby River	6048300	681000	G. & B. Hall
TRC100	Rendezvous Creek, Namadgi NP	6043925	680525	J. Goodrum
TMC100	Middle Creek, Gundgenby River	6042750	677550	J. & K. Goodrum
FTB010 *	Bogong Creek, Gundgenby River	6041900	678100	J. Goodrum
CGH100	Hospital Creek, Old Boboyan Rd Crossing, Namadgi NP	6037000	677000	J. Goodrum
CFR100	Captains Flat Rd, Queanbeyan	6081200	714900	G. & E. Reynolds

5. RESULTS

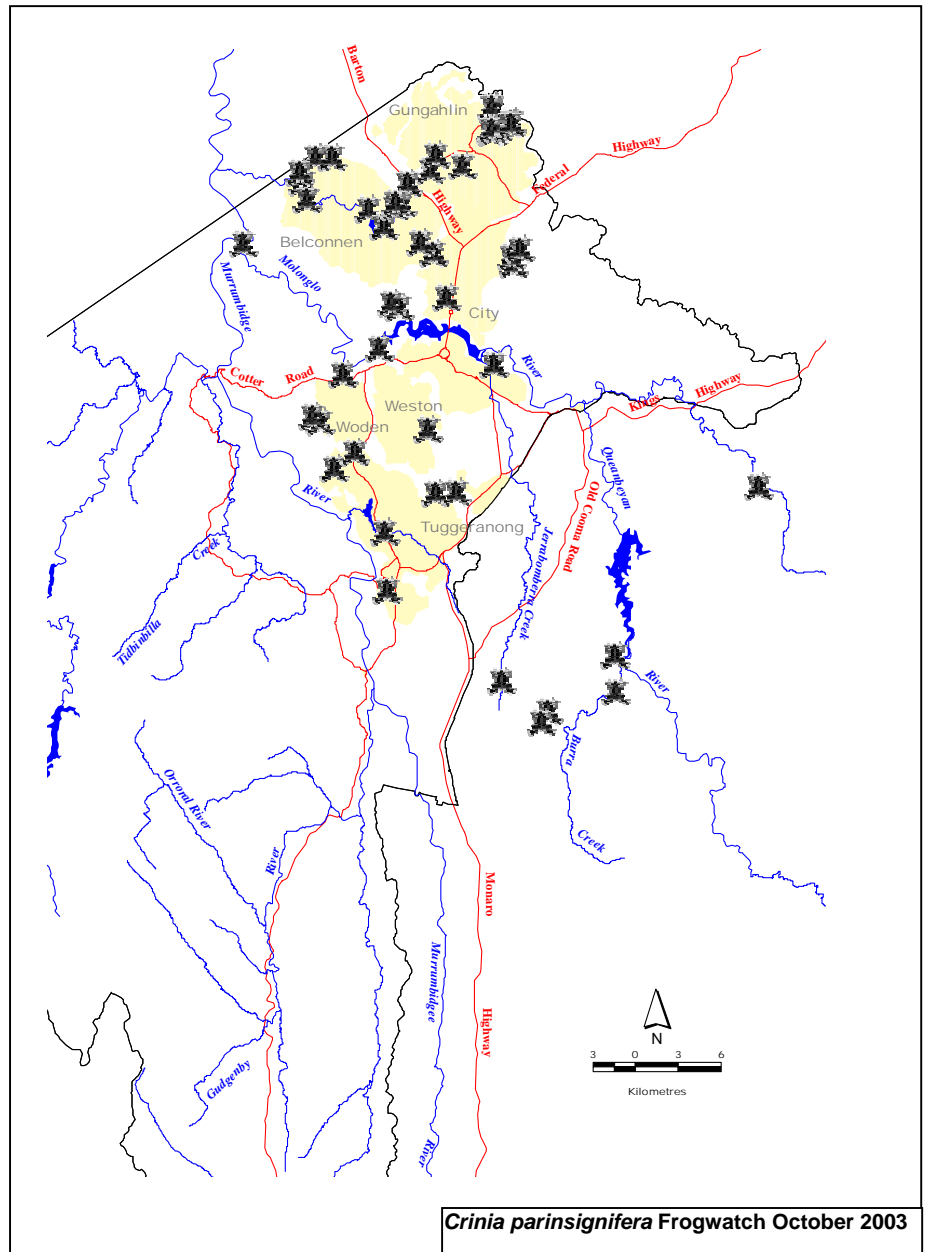


Photo: Peter Robertson.

Crinia parinsignifera Plains Froglet

Number of Sites where Detected:	57
Median Number of Individuals Observed:	5 - 20

Site Code	Number detected	Site Code	Number detected
CFR100	5 - 20	GOG001	20 - 50
CMC600	20 - 50	GOG002	5 - 20
CMC700	5 - 20	GOG003	5 - 20
CMM200	1 - 5	GOG004	1 - 5
COO100	5 - 20	JER100	5 - 20
DGP001	5 - 20	JER500	20 - 50
FAD100	5 - 20	LDM100	5 - 20
FAD200	1 - 5	MCW002	1 - 5
FBM100	5 - 20	MFL001	5 - 20
FBP001	5 - 20	MFL002	5 - 20
FGC006	1 - 5	MFL003	5 - 20
FGC009	20 - 50	MFL004	1 - 5
FGC030	1 - 5	MFL005	5 - 20
FGC040	1 - 5	MFL006	1 - 5
FGC090	5 - 20	MFL007	5 - 20
FGD020	20 - 50	MFL008	5 - 20
FGD040	5 - 20	MFL009	5 - 20
FGD050	20 - 50	MYA050	1 - 5
FGG010	5 - 20	MUL001	20 - 50
FMC200	5 - 20	PLM100	1 - 5
FMC210	5 - 20	PLM200	5 - 20
FMC220	5 - 20	RCD001	20 - 50
FMW010	5 - 20	SFF100	1 - 5
FTP100	1 - 5	STI100	1 - 5
GFW002	1 - 5	UCM100	20 - 50
GFW004	>100	UCM200	5 - 20
GIN002	5 - 20	UCM300	20 - 50
GIN007	1 - 5	XER001	1 - 5
GINMAR	1 - 5		



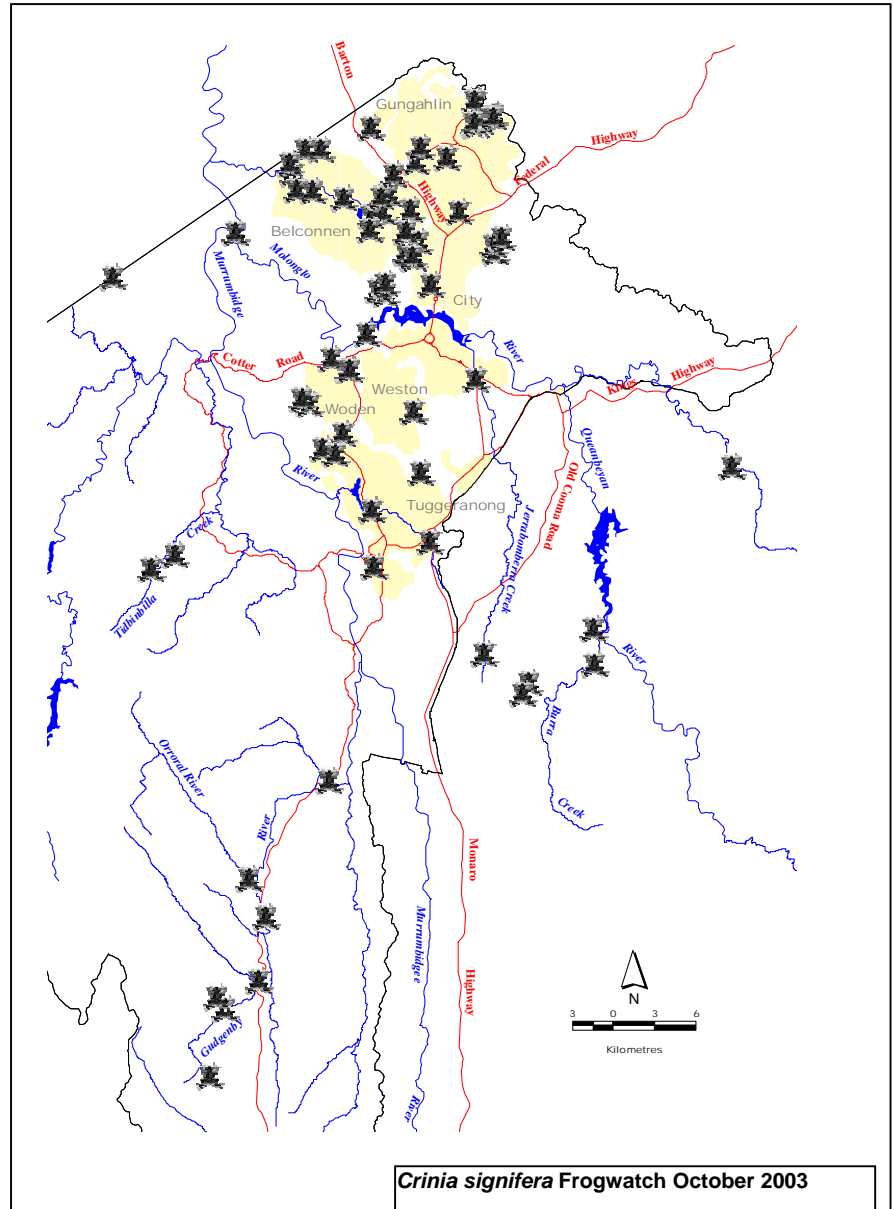


Crinia signifera Common Eastern Froglet

Number of Sites where Detected:	76
Median Number of Individuals Observed:	5 - 20

Photo: Peter Robertson,
www.frogs.org.au

Site Code	Number detected	Site Code	Number detected
CFR100	5 - 20	GFW005	1 - 5
CGH10	1 - 5	GINMAR	1 - 5
CMC60	1 - 5	GIN002	5 - 20
CMC70	5 - 20	GIN007	5 - 20
CME001	1 - 5	GIN009	1 - 5
CMM20	20 - 50	GOG001	5 - 20
COO10	1 - 5	GOG002	5 - 20
CTT300	1 - 5	GOG003	1 - 5
DGP001	5 - 20	GOG004	1 - 5
FAD100	20 - 50	HAL001	1 - 5
FAD200	1 - 5	JER100	1 - 5
FBM100	1 - 5	JER300	5 - 20
FBP001	1 - 5	JBT001	1 - 5
FGC009	5 - 20	JDOD01	1 - 5
FGC010	1 - 5	LDM100	1 - 5
FGC020	5 - 20	MFL001	1 - 5
FGC030	1 - 5	MFL002	1 - 5
FGC040	5 - 20	MFL003	1 - 5
FGD020	20 - 50	MFL005	5 - 20
FGD030	5 - 20	MFL006	1 - 5
FGD040	5 - 20	MFL007	1 - 5
FGD050	20 - 50	MFL009	1 - 5
FGC090	5 - 20	MGC100	20 - 50
FGG010	5 - 20	MUL001	50 - 100
FGW10	5 - 20	MYA050	5 - 20
FMC200	5 - 20	ORD001	1 - 5
FMC210	5 - 20	PLM100	1 - 5
FMC220	1 - 5	PLM200	1 - 5
FMW01	1 - 5	SFF100	20 - 50
FMW02	20 - 50	STI100	5 - 20
FSC100	1 - 5	TGC100	1 - 5
FTB010	5 - 20	TGN200	1 - 5
FTD010	5 - 20	TMC100	1 - 5
FTD160	5 - 20	TRC100	5 - 20
FTP100	5 - 20	UCM100	20 - 50
FTR010	1 - 5	UCM200	20 - 50
GCC10	5 - 20	UCM300	20 - 50
GFW00	1 - 5	XER001	1 - 5
GFW00	>100	XER003	5 - 20



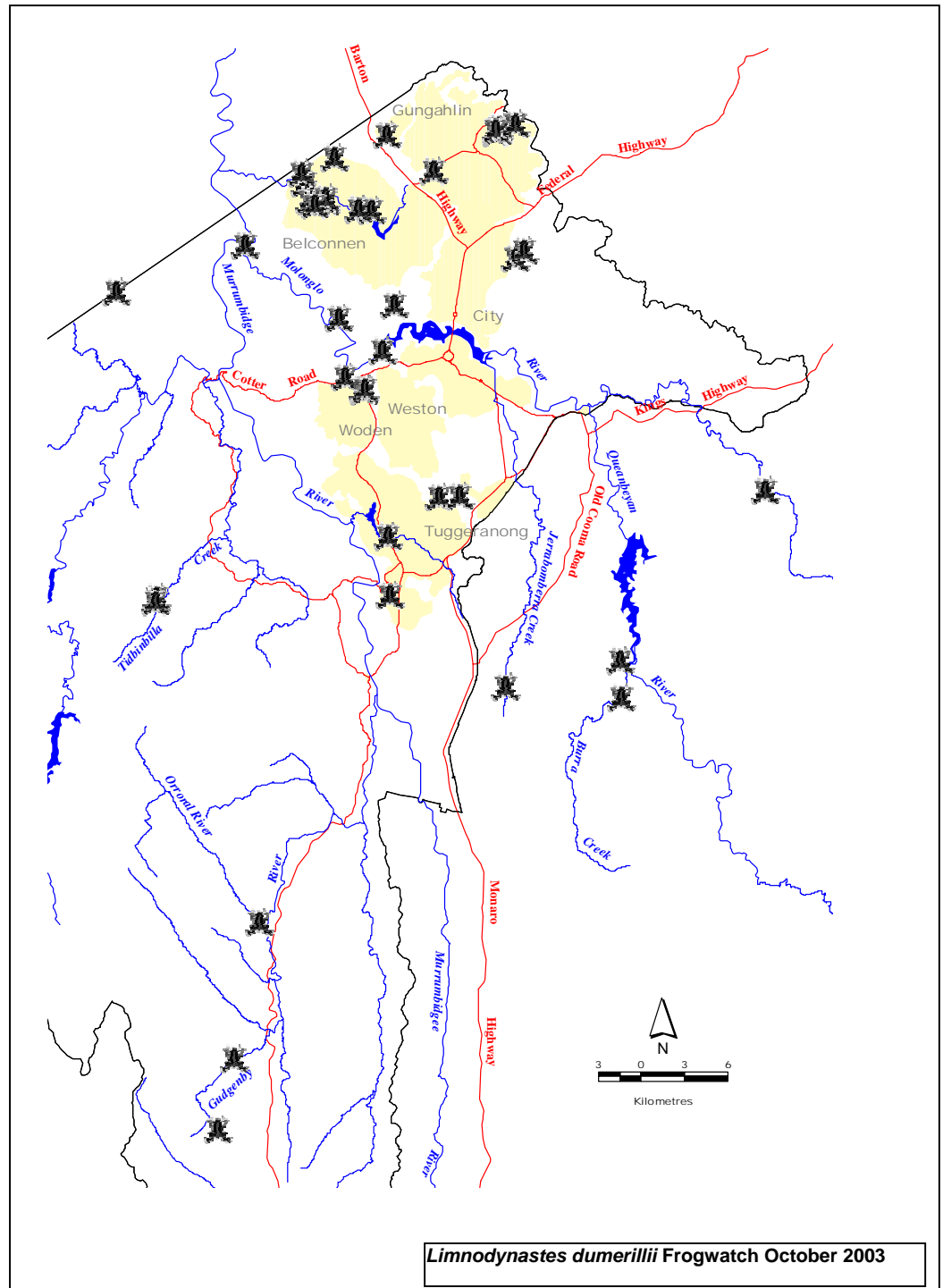


Limnodynastes dumerillii Eastern Banjo Frog

Number of Sites where Detected:	43
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CFR100	5 - 20
CGH100	1 - 5
CMM100	1 - 5
CMM200	5 - 20
CMW500	1 - 5
DGP001	1 - 5
FAD100	5 - 20
FGC006	1 - 5
FGC009	20 - 50
FGC030	1 - 5
FGC090	5 - 20
FGD040	1 - 5
FGW100	1 - 5
FGW200	1 - 5
FMC210	1 - 5
FMC220	1 - 5
FTD010	1 - 5
FTD120	5 - 20
FTP100	1 - 5
FTR010	5 - 20
FTB010	5 - 20
GCC100	1 - 5
GFW002	1 - 5
GFW008	1 - 5
GOG001	1 - 5
GOG002	1 - 5
JBT001	1 - 5
JER100	1 - 5
LDM100	1 - 5
MFL002	1 - 5
MFL003	1 - 5
MFL004	1 - 5
MFL005	1 - 5
MUL001	1 - 5
MYA050	1 - 5
PLM200	1 - 5
RCD001	1 - 5
SFF100	5 - 20
STI100	1 - 5
UCM300	1 - 5
XER001	1 - 5
XER003	1 - 5
XER002	1 - 5



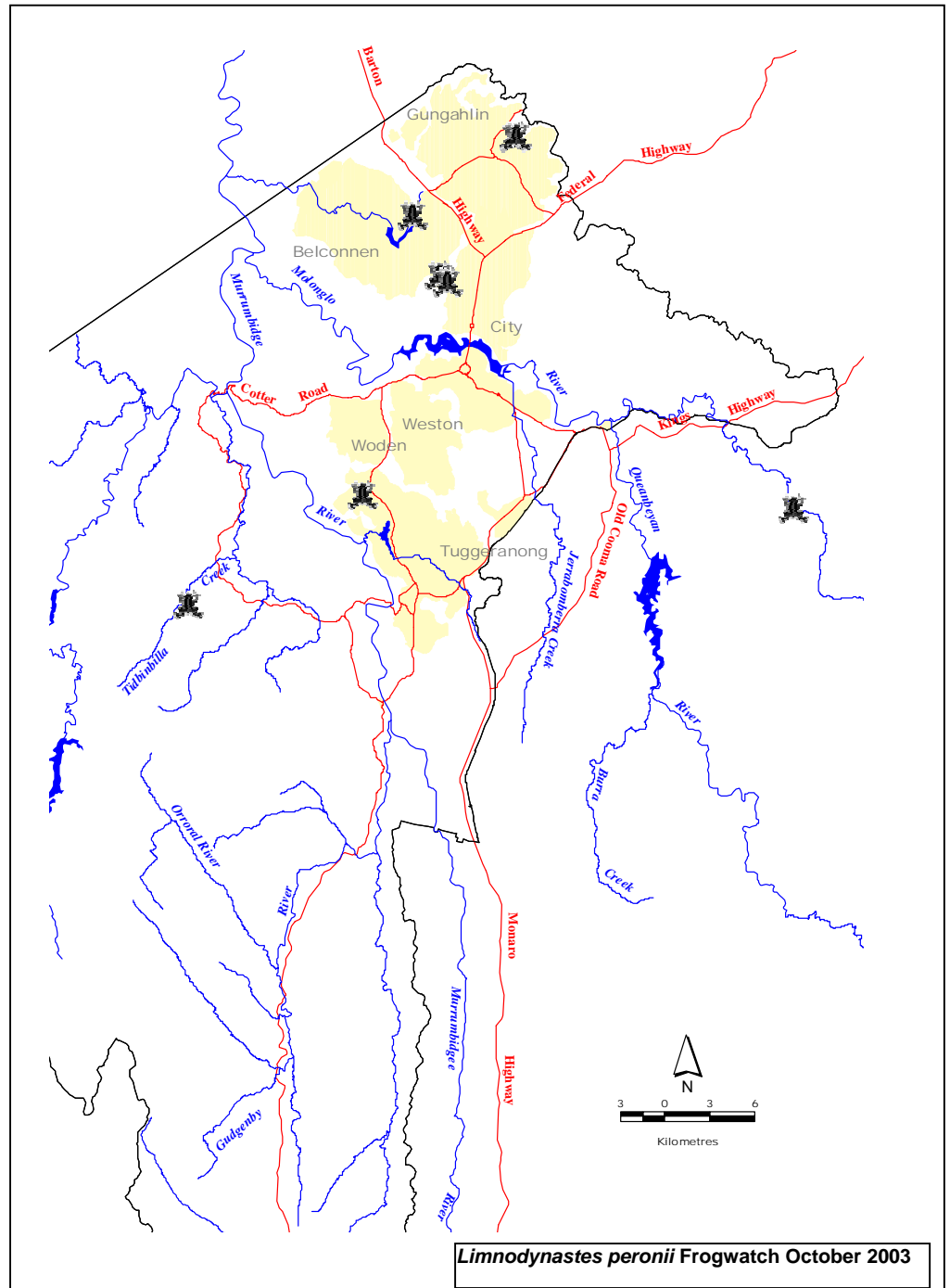


Limnodynastes peronii Brown-striped Frog

Number of Sites where Detected:	8
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CFR100	1 - 5
GFW004	1 - 5
FGD030	1 - 5
FMW020	1 - 5
FTD160	1 - 5
MFL002	1 - 5
MFL003	1 - 5
MGC100	1 - 5



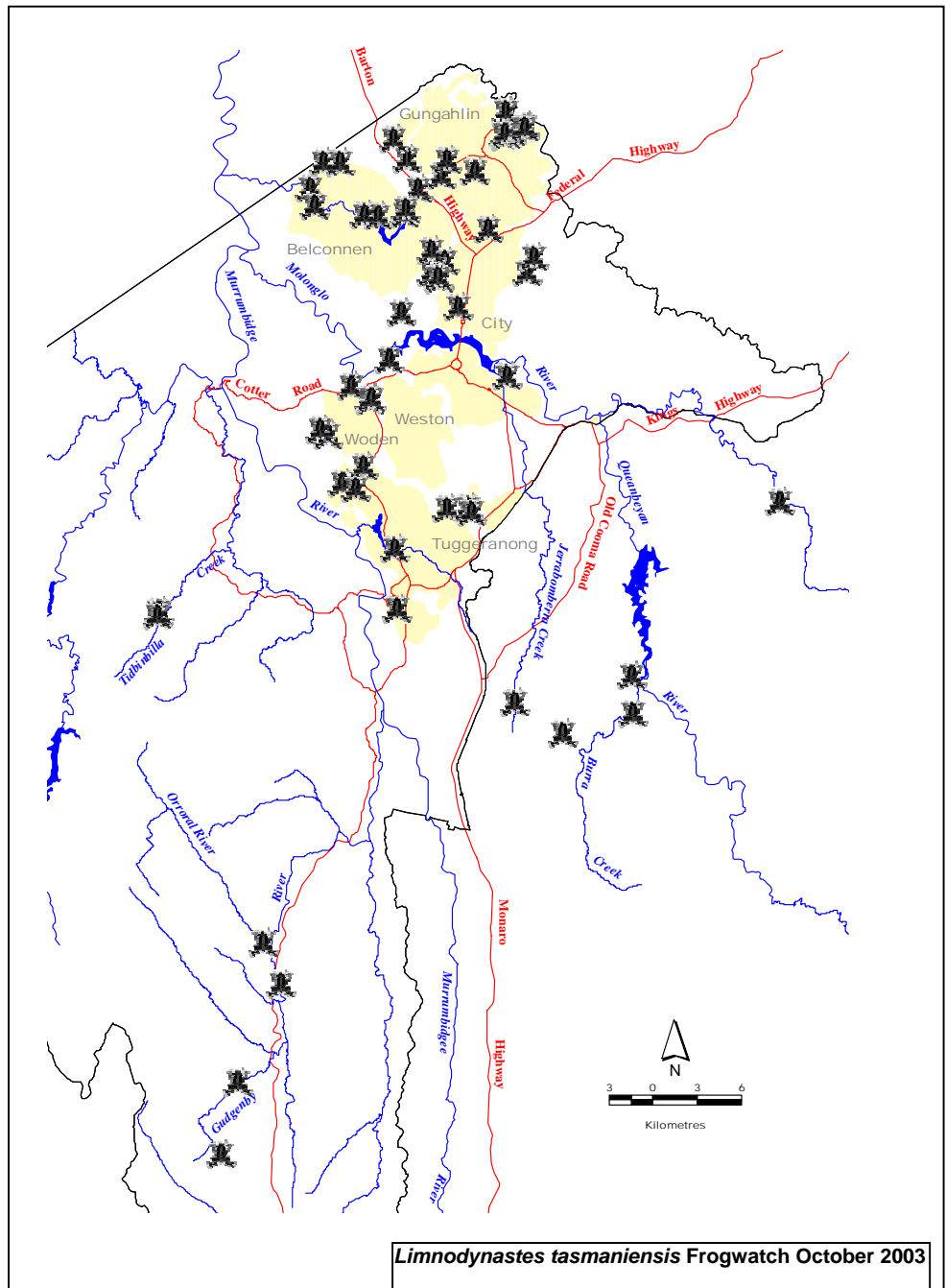


Limnodynastes tasmaniensis Spotted Grass Frog

Number of Sites where Detected:	64
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CFR100	5 - 20
CGH100	1 - 5
CMC600	5 - 20
CMC700	1 - 5
CMM200	5 - 20
COO100	1 - 5
DGP001	5 - 20
FAD100	20 - 50
FBP001	1 - 5
FGC006	1 - 5
FGC009	1 - 5
FGD020	1 - 5
FGD030	5 - 20
FGD040	1 - 5
FGD050	5 - 20
FGC090	1 - 5
FMC200	1 - 5
FMC220	1 - 5
FMMW010	5 - 20
FMMW020	1 - 5
FSC100	1 - 5
FTB010	5 - 20
FTD010	5 - 20
FTD120	5 - 20
FTP100	1 - 5
FTR010	1 - 5
GBY100	1 - 5
GFW002	1 - 5
GFW004	1 - 5
GINMAR	1 - 5
GIN002	1 - 5
GIN007	1 - 5
GOG001	5 - 20
GOG002	5 - 20
GOG003	5 - 20
HAL001	1 - 5
JBT001	1 - 5
JER100	1 - 5
JER500	20 - 50
LDM100	1 - 5
MCW002	1 - 5
MFL001	1 - 5
MFL002	5 - 20
MFL003	1 - 5
MFL005	1 - 5
MFL006	1 - 5
MFL007	1 - 5
MFL008	1 - 5
MGC100	5 - 20
MUL001	1 - 5
MYA050	5 - 20
ORD001	1 - 5
RCD001	5 - 20
RCD002	1 - 5
SFF100	20 - 50
TGC100	1 - 5
PLM100	1 - 5
PLM200	1 - 5
UCM100	1 - 5
UCM200	5 - 20
UCM300	5 - 20
XER001	1 - 5
XER002	5 - 20
XER003	5 - 20



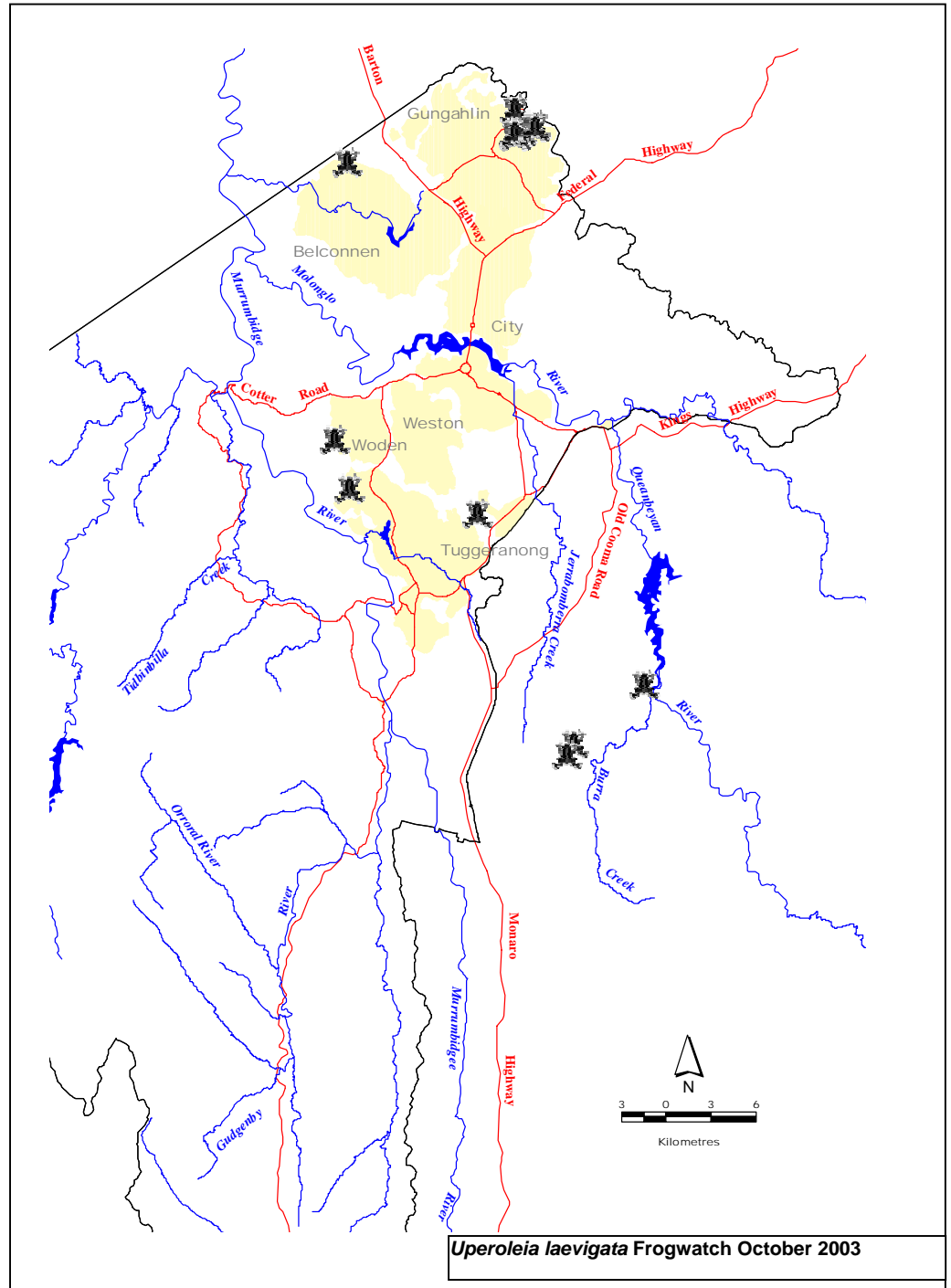


Uperoleia laevigata Smooth Toadlet

Number of Sites where Detected:	20
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CMC600	1 - 5
DGP001	1 - 5
GOG001	1 - 5
GOG003	5 - 20
GOG004	5 - 20
LDM100	1 - 5
MFL001	5 - 20
MFL002	1 - 5
MFL003	5 - 20
MFL005	5 - 20
MFL006	1 - 5
MFL007	5 - 20
MFL009	1 - 5
MUL001	1 - 5
PLM100	1 - 5
PLM200	5 - 20
RCD001	1 - 5
UCM100	1 - 5
UCM200	5 - 20
UCM300	1 - 5



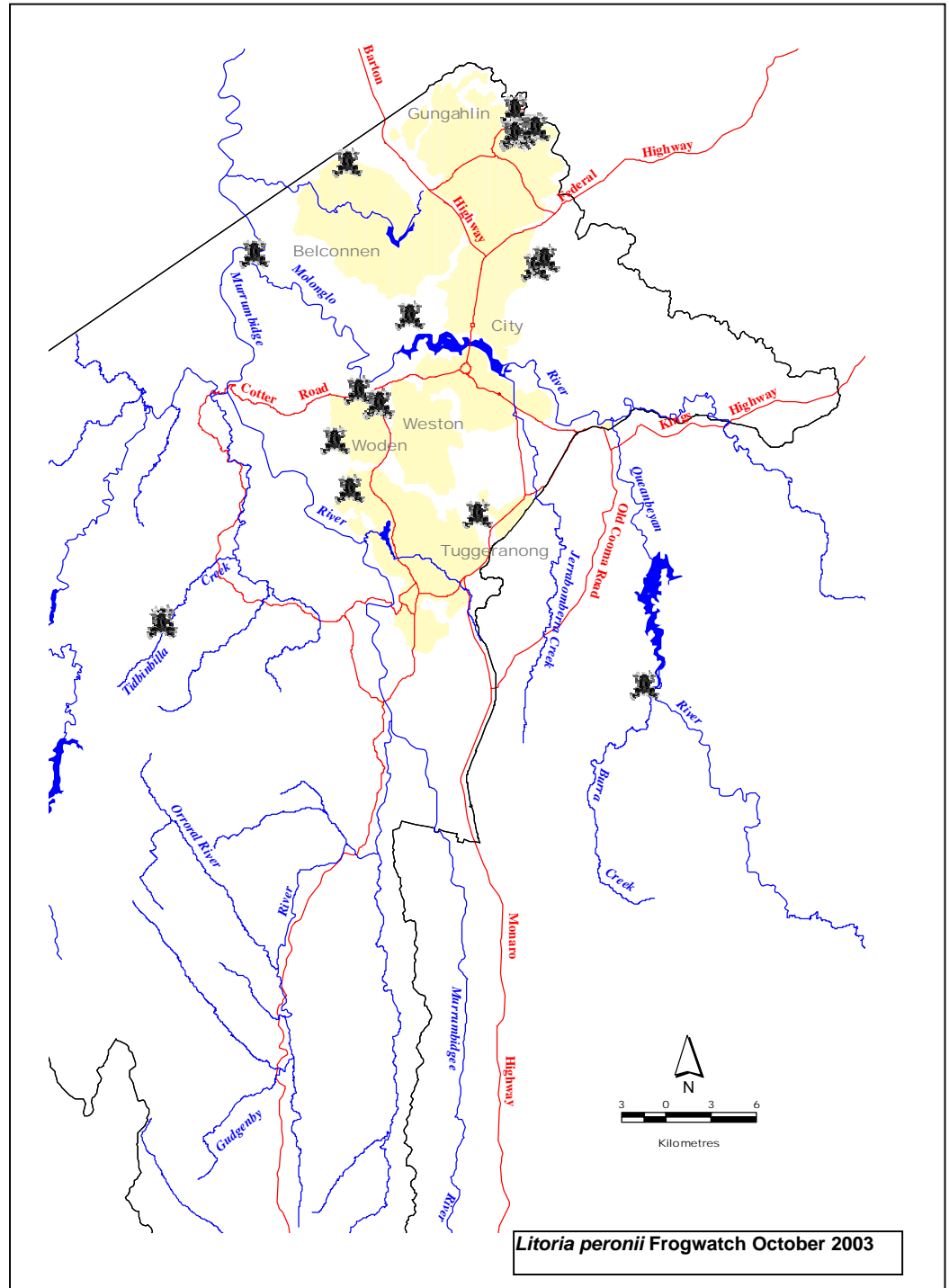


Litoria peronii Peron's Tree Frog

Number of Sites where Detected:	27
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CMC600	1 - 5
DGP001	1 - 5
FGD040	1 - 5
FMC210	1 - 5
FMC220	1 - 5
FTD010	5 - 20
FTD120	1 - 5
GOG001	1 - 5
LDM100	5 - 20
MFL001	1 - 5
MFL002	1 - 5
MFL003	1 - 5
MFL005	1 - 5
MFL006	1 - 5
MFL007	1 - 5
MFL009	1 - 5
MUL001	1 - 5
PLM100	1 - 5
PLM100	5 - 20
PLM200	5 - 20
RCD001	5 - 20
SFF100	1 - 5
ST1100	1 - 5
UCM200	1 - 5
UCM300	1 - 5
XER002	1 - 5
XER003	1 - 5



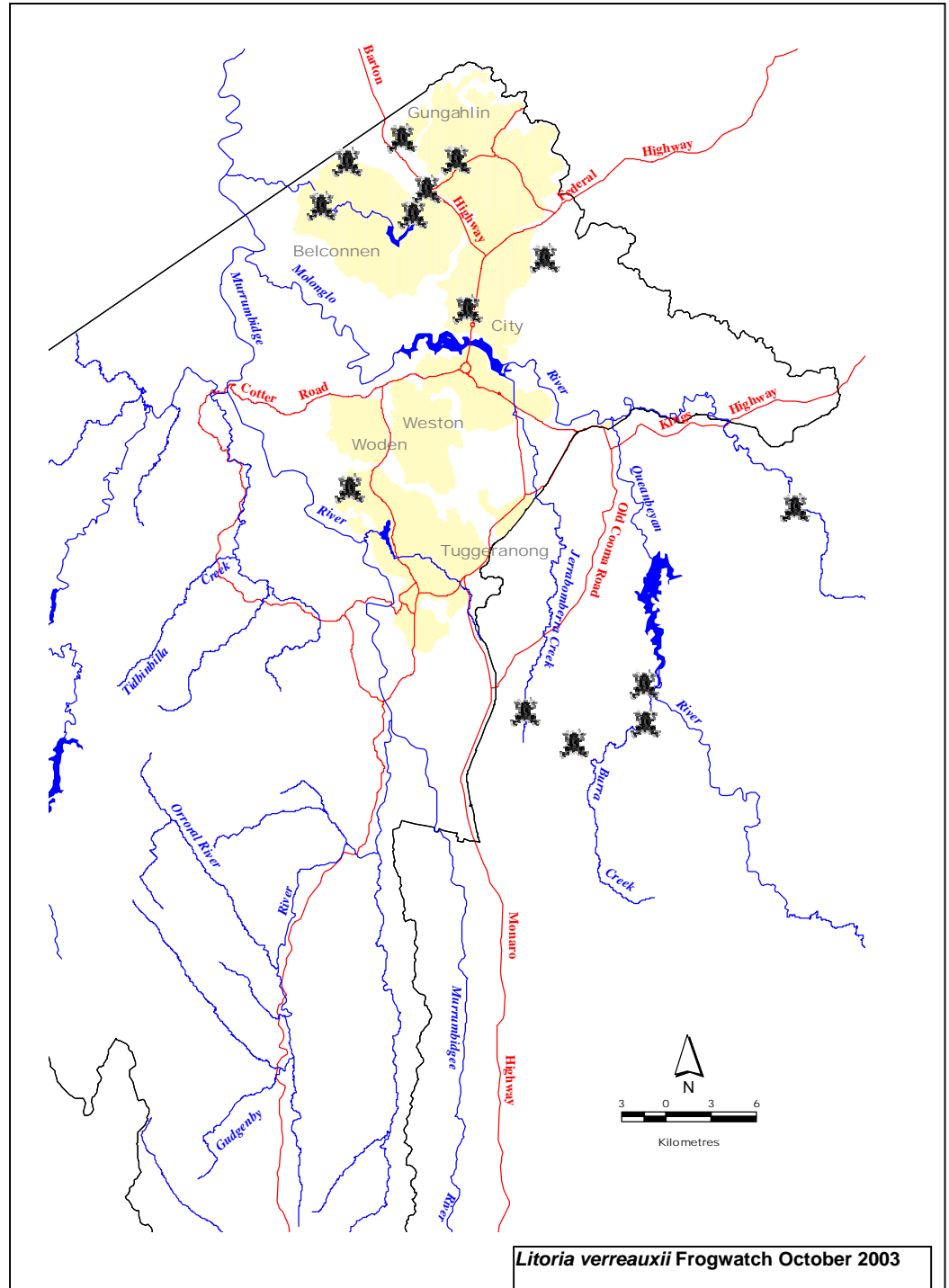


Litoria verreauxii Whistling Tree Frog

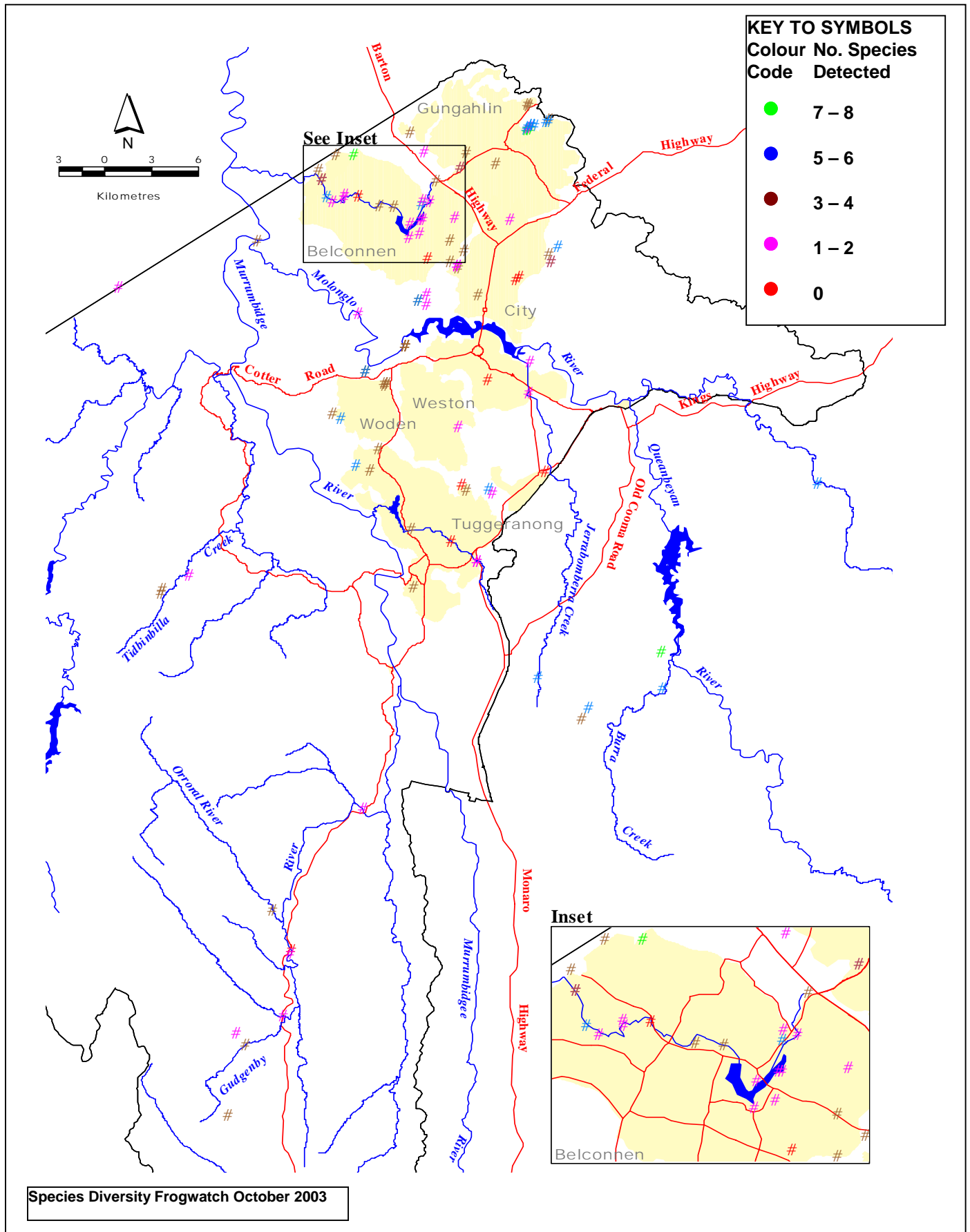
Number of Sites where Detected:	14
Median Number of Individuals Observed:	1 - 5

Photo: Peter Robertson,

Site Code	Number Observed
CFR100	5 - 20
CMC600	1 - 5
DGP001	1 - 5
FGC090	1 - 5
FMC220	1 - 5
FMW010	1 - 5
GFW004	1 - 5
GIN002	1 - 5
GIN007	1 - 5
GOG001	1 - 5
GOG002	1 - 5
GOG003	1 - 5
HAL001	1 - 5
JER100	1 - 5



5.2 SPECIES DIVERSITY AT EACH SITE



6. SUMMARY OF RESULTS

The 2003 ACT Region National Water Week Frogwatch Census involved 150 participants who monitored at almost 120 sites across the ACT and Upper Murrumbidgee Region.

Frog Species Detected

A total of 8 species were observed during National Water Week 2003 (in order of greatest distribution):

<i>Crinia signifera</i>	Common Eastern Froglet
<i>Limnodynastes tasmaniensis</i>	Spotted Grass Frog
<i>Crinia parinsignifera</i>	Plains Froglet
<i>Limnodynastes dumerillii</i>	Eastern Banjo Frog
<i>Litoria peronii</i>	Peron's Tree Frog
<i>Uperoleia laevigata</i>	Smooth Toadlet
<i>Litoria verreauxii</i>	Whistling Tree Frog
<i>Limnodynastes peronii</i>	Brown-striped Frog

Limnodynastes peronii was not detected during the Census in October 2002.

Distribution and Abundance of Frog Species

Of the species observed, *Crinia signifera*, *Limnodynastes tasmaniensis* and *Crinia parinsignifera* were the most common, each being confirmed at over 50% of all sites surveyed.

The greatest number of species observed at any one site was 7. This number of species was found at 4 sites around the ACT and Region:

- Dunlop Grasslands Dam (DGP001)
- Tin Hut Dam (GOG001)
- Mulligans Flat Site 2 (MFL002)
- Mulligans Flat Site 3 (MFL003)

Sites with 6 species present include:

- Captains Flat (CFR100)
- Neighbour Horse Paddock Dam (CMC600)
- Mt Majura Dam (FMC220)
- Lookout Dam, Holt (LDM100)
- Mulligans Flat Site 5 (MFL005)
- Mulligans Flat Pond 1 (MUL001)
- Mulligans Flat UC Site 3 (UCM300)

There were 9 sites where no frogs were heard calling, generally situated in urban areas.

7. LIST OF FROGWATCH PARTICIPANTS

Thank you for your participation!

L. Barrett	K. Fyfe	S. Mepzenrath	A. Smith
T. Brady	M. Fyfe	B. Mitchell	R. Smith
A. Britt	L. Gaha	R. Morgan	K. Smith
J. Burkitt	P. Gaha	B. Morris	F. Spier
M. Butler	J. Gallimore	I. Mudford	G. Stenhouse
T. Campbell	D. Giddings	J. Mugodo	A. Sticpewich
N. Carroll	L. Giles	M. Mulvany	D. Stockbridge
J. Carter	J. Goodrum	G. Murray	H. Strong
J. Castley	K. Goodrum	K. Murtadh	M. Strong
L. Christie	M. Griffin-Warwicke	J. Nardini	M. Stutters
L. Churchill	S. Grove	T. Nelson	V. Tanner
L. Churchill	M. Hagan	S. Nicholas	S. Theron
J. Cleary	J. Hagan	K. Nicolson	C. Valakas
I. Condon	B. Hall	D. O'Dea	K. Vileeman
J. Condon	G. Hall	J. O'Dea	R. von Behrens
M. Cooper	G. Hamilton	M. O'Halloran	D. von Behrens
K. Cotter	S. Harding	J. O'Halloran	L. Watson
L. Crossfield	W. Henderson	S. O'Halloran	N. Webb
J. Daly	K. Hodges	J. Olsson	C. Webster
F. Daly	D. Hook	E. Ormes-	P. Wells
S. Darby	J. Hubbard	Lichacz	A. Whitford
N. Darby	J. Hubbard	B. Padovan	C. Whitford
J. Darby	S. Joyce	L. Paine	L. Whitford
J. Douglas	I. Kenny	R. Palma	C. Williams
C. Dow	J. Kiely	D. Pauza	M. Williams
L. Dow	R. Kiely	N. Philpot	L. Williamson
R. Dufty	D. Lassam	S. Pope	B. Williamson
L. Emmett	P. Laver	S. Rae	D. Wong
C. Evans	A. Leavesley	K. Reedy	D. Wu
M. Farmer	W. Lichacz	D. Reynolds	Janette
K. Farrer	P. Liston	E. Reynolds	Shona
L. Farrer	A. Llorens	G. Reynolds	Laura
V. Farrer	K. Lundman	J. Richardson	Mark
F. Fawke	E. Macintyre	J. Rick	Michael
P. Fawke	R. Mcleish	G. Robinson	Tim
K. Feint	T. Mcleish	J. Savigny	
W. Firman	G. Medlin	M. Scott-Findlay	