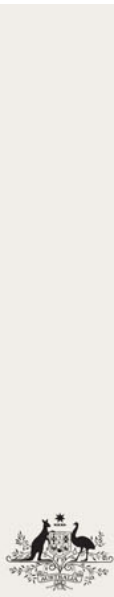
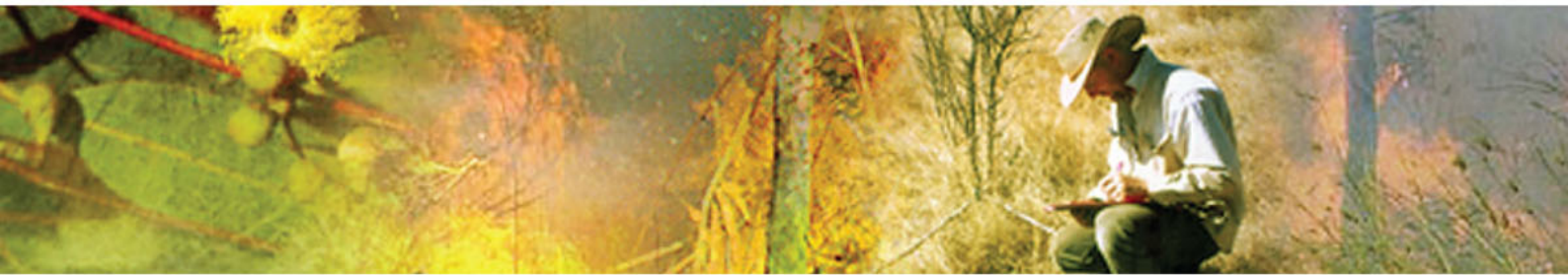


APPENDIX E – NT NRM REPORT



Custom area

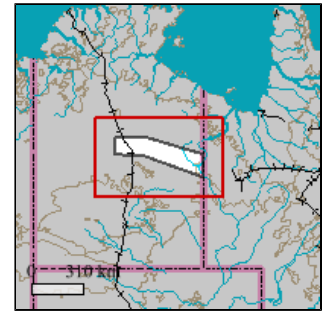
NT NRM Report



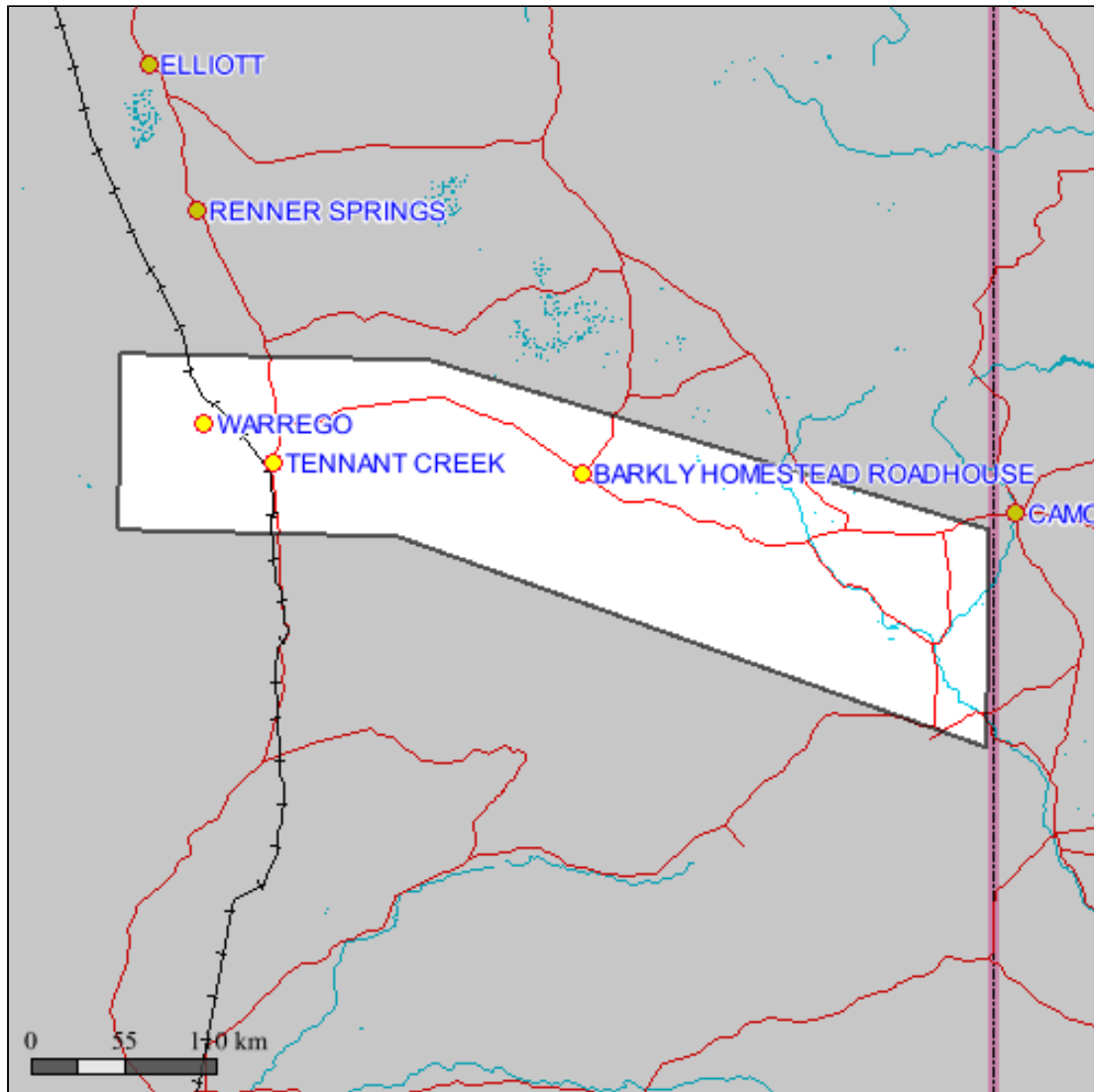
Custom area

Custom area encompasses an area of 54363.78 sq km extending from 19 deg 4.0 min to 21 deg 9.0 min S and 133 deg 22.0 min to 137 deg 58.0 min E.

Custom area is located in the Mitchell Grass Downs, Tanami, Davenport Murchison Ranges, bioregion(s)



Location of Custom area



Custom area Climate

The closest long-term weather station is WONARAH (19 deg 53.0 min S, 136.3358E)
73 km E of the center of selected area

Statistics

Mean max temp (deg C)
Mean min temp (deg C)
Average rainfall (mm)
Average days of rain

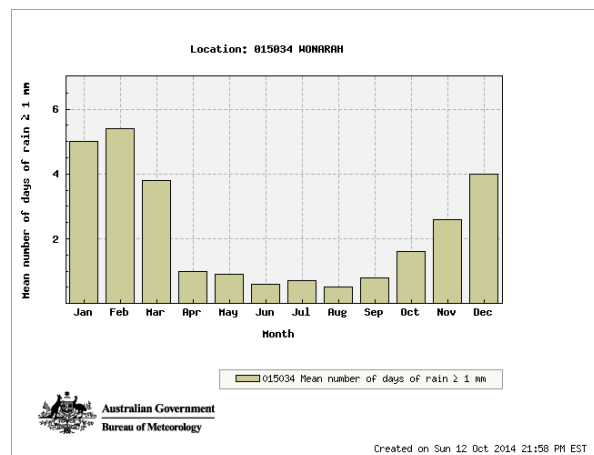
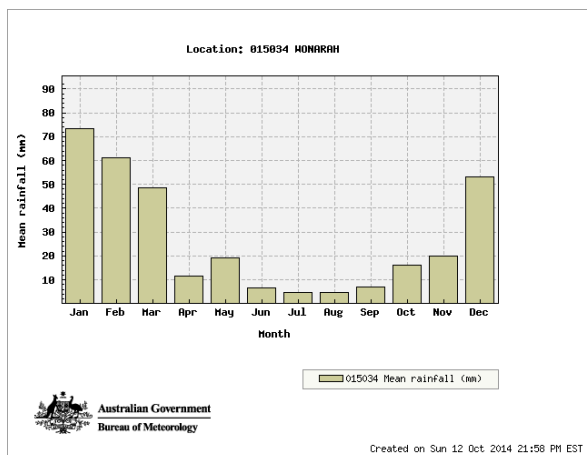
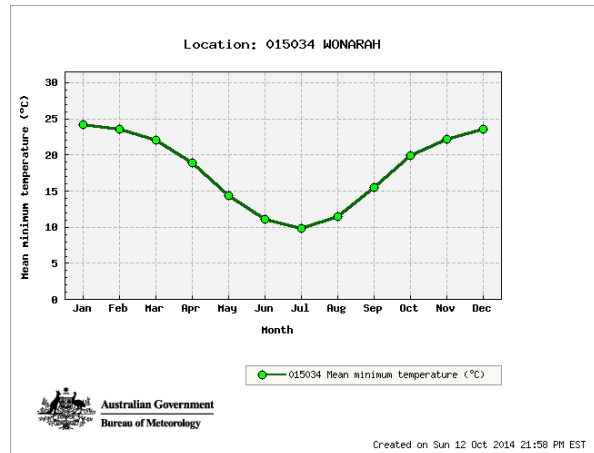
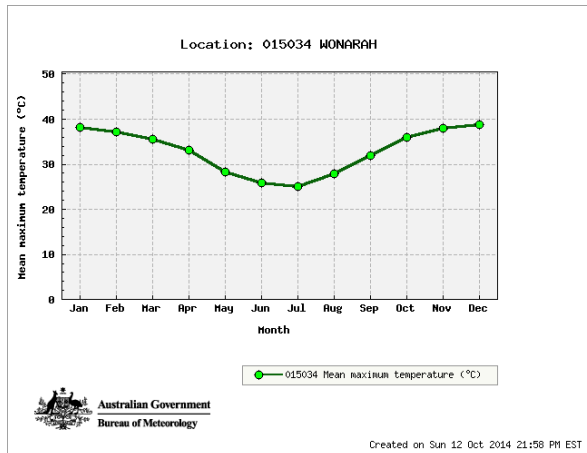
Annual Values

32.9
18.1
322.7
26.9

Years of record

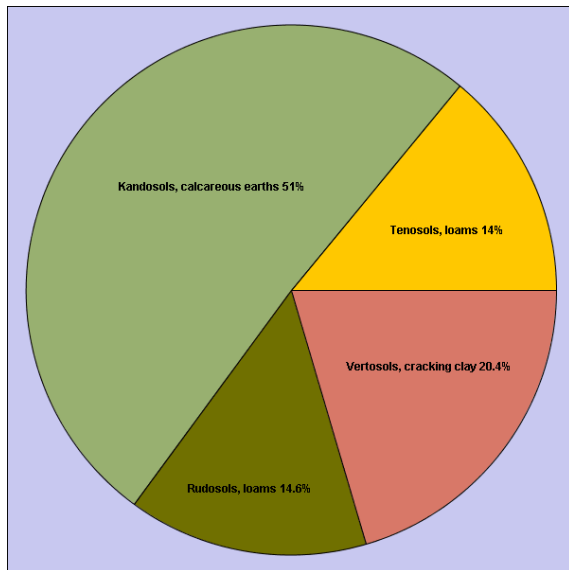
23
23
28
28

Climate summaries from Bureau of Meteorology (www.bom.gov.au)



Custom area Soils

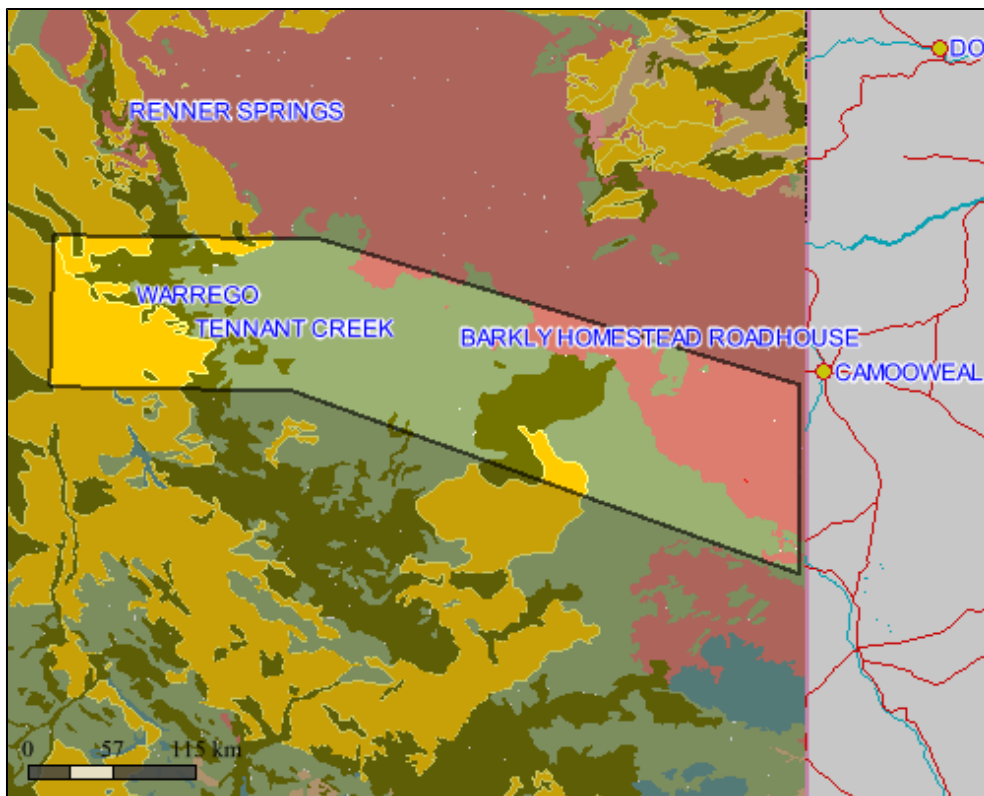
Soil Types



Area of soil types (Northcote Factual Key)

Category	Area sq km	Area%
Kandosols, calcareous earths	27723.63	51.00
Vertosols, cracking clay	11113.16	20.44
Rudosols, loams	7936.05	14.60
Tenosols, loams	7590.94	13.96

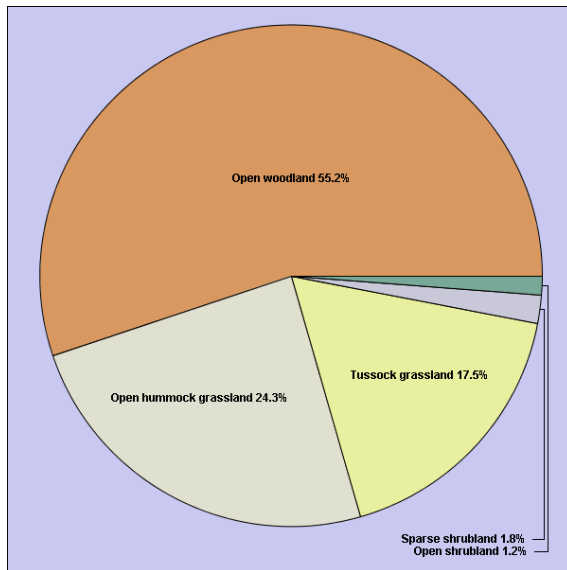
Soil Types



Soils 1:2M Layer is a copy of the NT portion (1:2,000,000 scale dataset) of the CSIRO Atlas of Australian Soils - K.H. Northcote et al. Data scale: 1:2,000,000 ANZLIC Identifier: 2DBC771205D06B6E040CD9B0F274EFE
More details: Go to www.lrm.nt.gov.au/nrmapsnt/ and enter the ANZLIC identifier in the Spatial Data Search

Custom area Vegetation

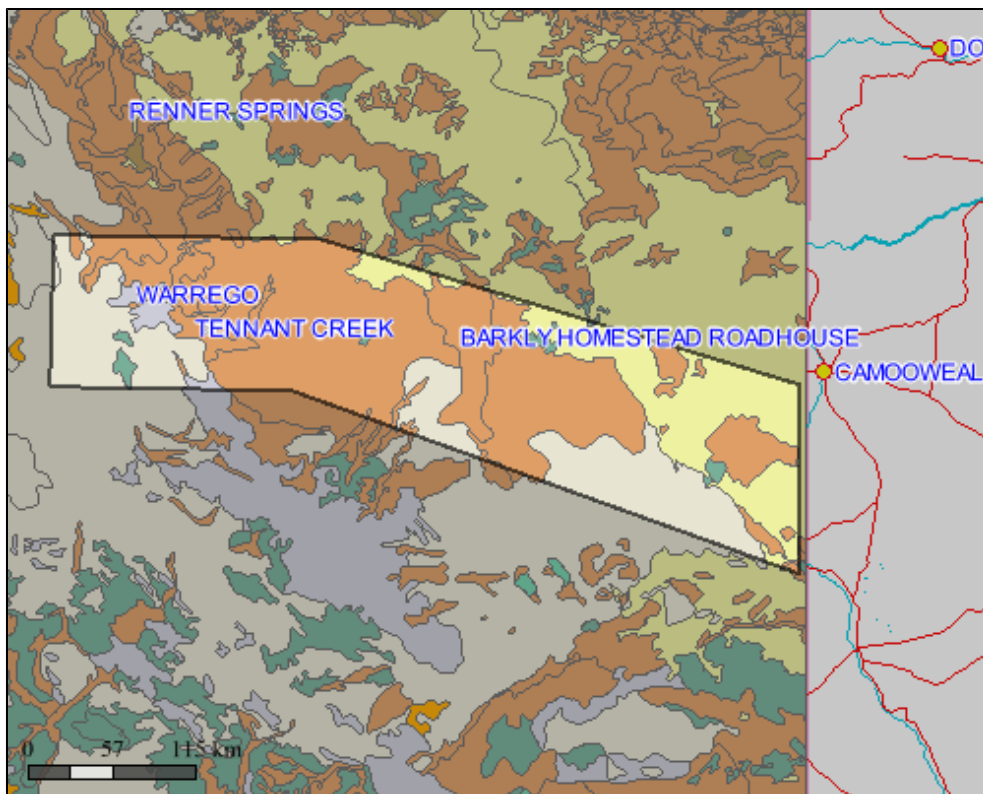
Vegetation Communities



Area of vegetation communities

Category	Area sq km	Area%
Open woodland	30002.43	55.19
Open hummock grassland	13196.61	24.27
Tussock grassland	9516.90	17.51
Sparse shrubland	983.48	1.81
Open shrubland	664.37	1.22

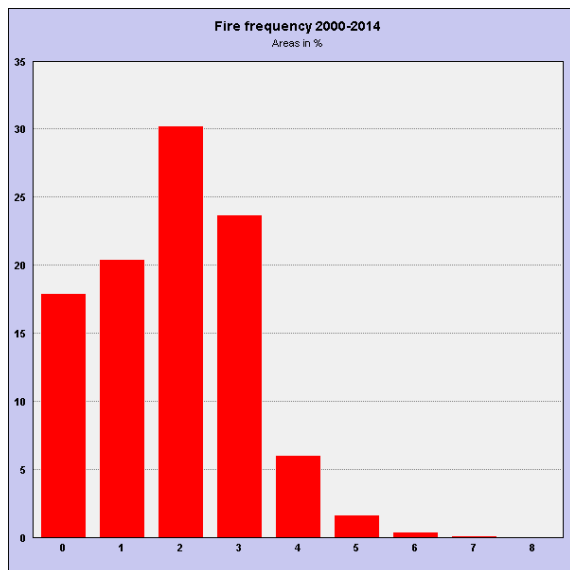
Vegetation Communities



The NVIS 2005 Layer is compiled from a number of vegetation and land unit survey maps that were recoded and re-attributed for the National Vegetation Information System (NVIS)
 Data scale variable depending on location. ANZLIC Identifier:2DBC771207006B6E040CD9B0F274EFE
 More details:Go to www.lrm.nt.gov.au/nrm/apsnt/ and enter the ANZLIC identifier in the Spatial Data Search

Custom area Fire History

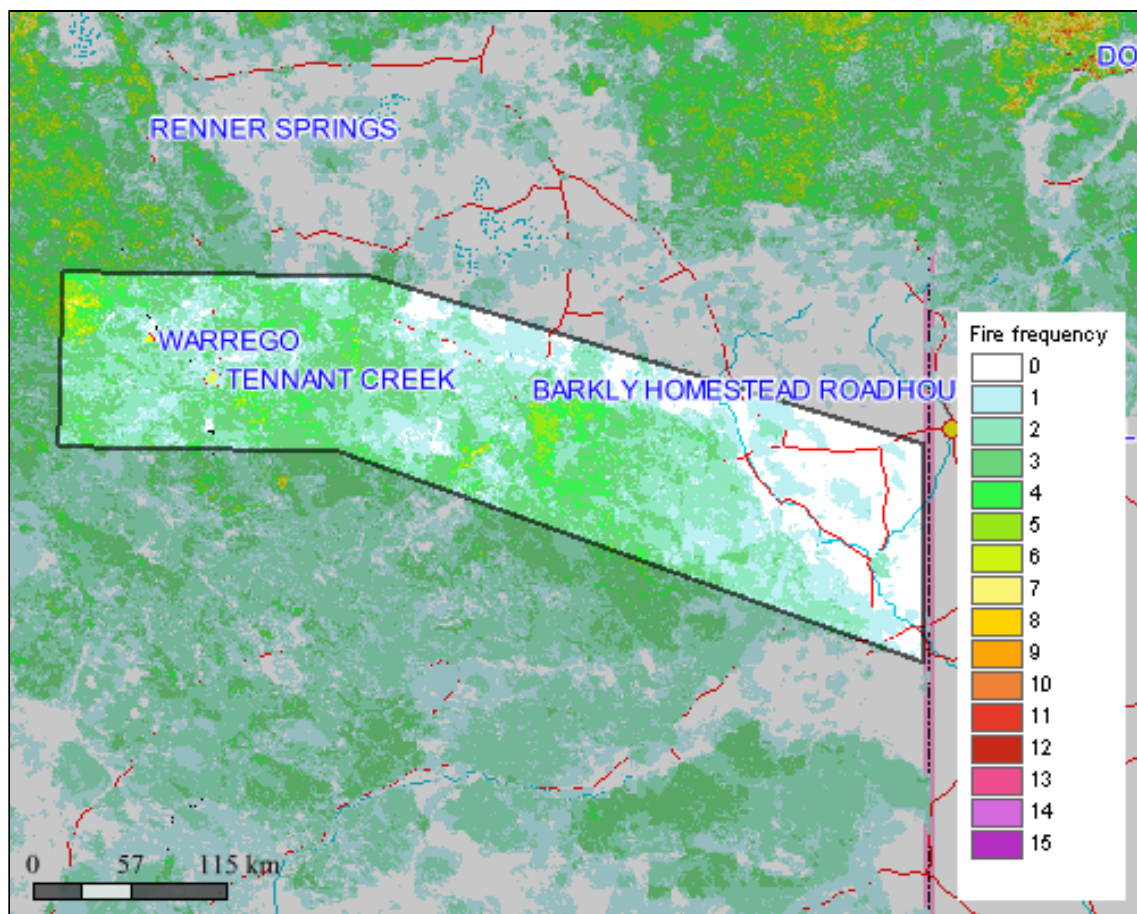
Years burnt 2000-2014



and area burnt in each category

Category	Area sq km	Area%
0	9724.48	17.89
1	11071.93	20.37
2	16410.37	30.19
3	12847.01	23.63
4	3245.32	5.97
5	862.27	1.59
6	176.56	.32
7	24.82	.05
8	1.01	.00

Years burnt 2000-2014



The fire frequency(250m) Layer is derived from satellite imagery sourced from the Moderate Resolution Imaging Spectroradiometer (MODIS) on the NASA Terra satellite
Spatial Resolution: 250m x 250m pixels (at Nadir).

Custom area Threatened Species



Threatened species recorded in Custom area (Records Updated: Sept 2013)

Group	Common Name	Scientific Name	NT Status	National Status	ID	#Observations (Latest)	#Specimens (Latest)	#Surveys (Latest)
Flowering Plants	Sporobolus	<i>Sporobolus latzii</i>	VU	.	.	0 (Unknown)	1 (1993)	0 (Unknown)
Flowering Plants	Tobermorey Melon	<i>Austrobryonia argillicola</i>	VU	.	257219	0 (Unknown)	0 (Unknown)	0 (Unknown)
Snails	Spencer's Land Snail	<i>Bothriembryon spenceri</i>	VU	.	351895	0 (Unknown)	0 (Unknown)	0 (Unknown)
Reptiles	Plains Death Adder	<i>Acanthophis hawkei</i>	VU	VU	.	0 (Unknown)	1 (1978)	0 (Unknown)
Birds	Grey Falcon	<i>Falco hypoleucos</i>	VU	.	.	4 (2010)	0 (Unknown)	0 (Unknown)
Birds	Masked Owl (northern mainland)	<i>Tyto novaehollandiae kimberli</i>	VU	VU	594609	1 (2001)	0 (Unknown)	0 (Unknown)
Mammals	Brush-tailed Mulgara	<i>Dasycercus blythi</i>	VU	VU	351695	3 (1993)	2 (1901)	0 (Unknown)
Mammals	Crest-tailed Mulgara	<i>Dasycercus cristicauda</i>	VU	EN	351695	0 (Unknown)	3 (1905)	0 (Unknown)
Mammals	Golden Bandicoot	<i>Isodon auratus</i>	EN	VU	176421	8 (1969)	16 (1936)	0 (Unknown)
Mammals	Greater Bilby	<i>Macrotis lagotis</i>	VU	VU	177125	12 (1994)	2 (1969)	2 (2004)
Mammals	Common Brushtail Possum (southern)	<i>Trichosurus vulpecula vulpecula</i>	EN	.	177146	2 (1969)	3 (1901)	0 (Unknown)
Mammals	Black-footed Rock-wallaby	<i>Petrogale lateralis</i>	.	VU	351635	3 (1988)	0 (Unknown)	0 (Unknown)

EX = Extinct

EW = Extinct in the Wild

ER = Extinct in the NT

EN = Endangered

EN/VU = One Endangered subspecies/One Vulnerable subspecies

VU=Vulnerable

VU/- = One or more subspecies vulnerable EN/- = One or more subspecies endangered

Survey = this category refers to data collected using systematic survey methodology

Specimen = this category refers to museum or other records where a specimen has been collected and lodged

Observation = this category refers to all other incidental recordings where systematic methodology may not have been used consistently.

More species info: Go to www.landmanager.org.au/view/index.aspx?id=####

where #### is the ID number from the tables above for the species of interest.

Custom area Threatened Species Grid



Threatened species recorded in the grid cell(s) in which Custom area occurs (Records Updated: Sept 2013)

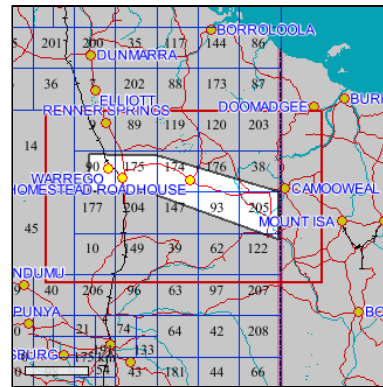
Group	Family Name	Scientific Name	Common Name	NT Status	National Status	#Observations	Latest Observation Date	#Specimens	Latest Specimen Date	#Surveys	Latest Survey Record
Flowering Plants	Poaceae	<i>Sporobolus latzii</i>	Sporobolus	VU		0	Unknown	1	1993	0	Unknown
Flowering Plants	Cucurbitaceae	<i>Austrobryonia argillicola</i>	Tobermorey Melon	VU		0	Unknown	0	Unknown	0	Unknown
Snails	Bulimulidae	<i>Bothriembryon spenceri</i>	Spencer's Land Snail	VU		0	Unknown	0	Unknown	0	Unknown
Reptiles	Varanidae	<i>Varanus panoptes</i>	Yellow-spotted Monitor	VU		0	Unknown	1	Unknown	0	Unknown
Reptiles	Elapidae	<i>Acanthophis hawkei</i>	Plains Death Adder	VU	VU	0	Unknown	22	1985	0	Unknown
Birds	Falconidae	<i>Falco hypoleucos</i>	Grey Falcon	VU		9	2010	0	Unknown	0	Unknown
Birds	Tytonidae	<i>Tyto novaehollandiae kimberli</i>	Masked Owl (northern mainland)	VU	VU	1	2001	0	Unknown	0	Unknown
Birds	Meliphagidae	<i>Grantiella picta</i>	Painted Honeyeater	VU		1	1981	0	Unknown	0	Unknown
Mammals	Dasyuridae	<i>Dasyercus blythi</i>	Brush-tailed Mulgara	VU	VU	13	1998	2	1901	0	Unknown
Mammals	Dasyuridae	<i>Dasyercus cristicauda</i>	Crest-tailed Mulgara	VU	EN	1	1998	3	1905	0	Unknown
Mammals	Dasyuridae	<i>Dasyurus hallucatus</i>	Northern Quoll	CR	EN	2	1903	0	Unknown	0	Unknown
Mammals	Dasyuridae	<i>Pseudantechinus mimulus</i>	Carpentarian Antechinus		VU	2	1969	0	Unknown	0	Unknown
Mammals	Peramelidae	<i>Isoodon auratus</i>	Golden Bandicoot	EN	VU	11	1969	16	1936	0	Unknown
Mammals	Thylacomyidae	<i>Macrotis lagotis</i>	Greater Bilby	VU	VU	48	2009	4	1969	2	2004
Mammals	Phalangeridae	<i>Trichosurus vulpecula vulpecula</i>	Common Brushtail Possum (southern)	EN		7	1969	3	1901	0	Unknown
Mammals	Macropodidae	<i>Petrogale lateralis</i>	Black-footed Rock-wallaby		VU	14	1992	0	Unknown	2	2004
Mammals	Notoryctidae	<i>Notoryctes typhlops</i>	Southern Marsupial Mole	VU	EN	1	1990	0	Unknown	0	Unknown

EX = Extinct
 EW = Extinct in the Wild
 ER = Extinct in the NT
 EN = Endangered
 EN/VU = One Endangered subspecies/One Vulnerable subspecies
 VU = Vulnerable
 VU/- = One or more subspecies vulnerable EN/- = One or more subspecies endangered

Survey = this category refers to data collected using systematic survey methodology
 Specimen = this category refers to museum or other records where a specimen has been collected and lodged
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More species info: Go to www.landmanager.org.au/view/index.aspx?id=####
 where #### is the ID number from the tables above for the species of interest.

Species listed in the table above were recorded from all the grid cells shown below (red/blue line) that overlap Custom area



Custom area Weeds and Potential Weeds



Introduced plants recorded in the grid cell(s) in which Custom area occurs and that have been identified as problem weeds in one or more locations in northern Australia. Occurrence based on Northern Territory Government databases.

Family Name	Scientific Name	Common Name	NT Status	National Status	Other Status	#Surveys	Latest Record
Asteraceae	<i>Acanthospermum hispidum</i>	Starburr	B C			2	2001
Amaranthaceae	<i>Alternanthera pungens</i>	Khaki Weed	B C		DEU NSW SA	0	Unknown
Meliaceae	<i>Azadirachta indica</i>	Neem			MP K1 C&E G&M CYP WeedsAus	0	Unknown
Poaceae	<i>Bothriochloa pertusa</i>	Indian Bluegrass			DEU	0	Unknown
Apocynaceae	<i>Calotropis procera</i>	Rubber Bush	B C (S of 16.5 deg S)		WA1 WA2 G&M	0	Unknown
Poaceae	<i>Cenchrus biflorus</i>	Gallon's Curse			NSW	2	2001
Poaceae	<i>Cenchrus ciliaris</i>	Buffel Grass			MP Gr G&M DEU	0	Unknown
Poaceae	<i>Cenchrus echinatus</i>	Mossman River Grass	B C		NSW	0	Unknown
Poaceae	<i>Cenchrus pedicellatus</i> subsp. unispiculus	Mission Grass (annual)			WeedsAus	0	Unknown
Poaceae	<i>Cenchrus setiger</i>	Birdwood Grass			DEU	0	Unknown
Poaceae	<i>Chloris barbata</i>	Purpletop Chloris			DEU	0	Unknown
Poaceae	<i>Chloris virgata</i>	Feathertop Rhodes Grass			DEU	0	Unknown
Cucurbitaceae	<i>Citrullus lanatus</i>	Camel Melon			G&M	0	Unknown
Brassicaceae	<i>Coronopus didymus</i>	Lesser Swinecress			G&M	0	Unknown
Cucurbitaceae	<i>Cucumis melo</i>	Ulcardo Melon			DEU	28	2001
Solanaceae	<i>Datura ferox</i>	Fierce Thornapple	A C		WA1 WA3 WA4 G&M	0	Unknown
Solanaceae	<i>Datura leichhardtii</i>	Native Thornapple	C		WA1 WA3 WA4	0	Unknown
Poaceae	<i>Echinochloa colona</i>	Awnless Barnyard Grass			DEU	11	2001
Poaceae	<i>Eragrostis tenuifolia</i>	Elastic Grass			DEU	0	Unknown
Amaranthaceae	<i>Gomphrena celosioides</i>	Gomphrena Weed			DEU	1	2001
Lamiaceae	<i>Hyptis suaveolens</i>	Hyptis	B C		G&M	0	Unknown
Euphorbiaceae	<i>Jatropha gossypifolia</i>	Bellyache Bush	B C	WONS	K2 WA1 WA4 Q2 C&E G&M CYP DEU	0	Unknown
Fabaceae	<i>Leucaena leucocephala</i> subsp. <i>leucocephala</i>	Coffee Bush			MP C&E G&M CYP	0	Unknown
Fabaceae	<i>Macroptilium atropurpureum</i>	Siratro			C&E	0	Unknown
Malvaceae	<i>Malvastrum americanum</i>	Spiked Malvastrum			DEU	39	2003
Malvaceae	<i>Malvastrum</i> <i>coromandelianum</i>	Prickly Malvastrum			DEU	0	Unknown
Poaceae	<i>Melinis repens</i>	Red Natal Grass			DEU	0	Unknown
Oxalidaceae	<i>Oxalis corniculata</i>	Creeping Wood-sorrel			NSW	0	Unknown

Family Name	Scientific Name	Common Name	NT Status	National Status	Other Status	#Surveys	Latest Record
Fabaceae	<i>Parkinsonia aculeata</i>	Parkinsonia	B C	WONS	MP K2 WA1 WA4 Q2 G&M CYP DEU	14	2001
Fabaceae	<i>Prosopis pallida</i>	Mesquite	A C	WONS	NSW SA K2 WA1 WA2 WA4 Q2 G&M NSW SA	1	2001
Fabaceae	<i>Senna occidentalis</i>	Coffee Senna	B C		G&M DEU	1	2001
Malvaceae	<i>Sida acuta</i>	Spiny-head Sida	B C		WA1 G&M	0	Unknown
Malvaceae	<i>Sida cordifolia</i>	Flannel Weed	B C		WA1 G&M DEU	0	Unknown
Malvaceae	<i>Sida spinosa</i>	Spiny Sida			DEU	57	2001
Poaceae	<i>Sporobolus africanus</i>	Parramatta grass			Q2 G&M	0	Unknown
Poaceae	<i>Sporobolus coromandelianus</i>	Madagascar Dropseed			DEU	0	Unknown
Fabaceae	<i>Stylosanthes hamata</i>	Caribbean Stylo			DEU	0	Unknown
Fabaceae	<i>Stylosanthes humilis</i>	Townsville Lucerne			DEU	1	2003
Zygophyllaceae	<i>Tribulus terrestris</i>	Caltrop	B C		CYP SA	8	1996
Poaceae	<i>Urochloa mosambicensis</i>	Sabi Grass			DEU	0	Unknown
Fabaceae	<i>Vachellia farnesiana</i>	Sweet Acacia			DEU	26	2001
Fabaceae	<i>Vachellia nilotica</i>	Prickly Acacia	A C	WONS	MP K2 Q2 G&M DEU NSW	0	Unknown
Asteraceae	<i>Xanthium strumarium</i>	Noogoora Burr	B C		MP WA1 WA2 WA4 DEU NSW SA	19	2001

Status Codes:

1. NATIONAL STATUS CODES
Alert, Alert List for Environmental Weeds (Please call Exotic Plant Pest Hotline 1800 084 881 if you think you have seen this weed)
Sleeper, National Sleeper Weed
Target, Targeted for eradication. (www.landmanager.com.au/view/index.aspx?id=449837)
WONS, Weeds of National Significance

2. NT STATUS CODES
A, NT Class A Weed (to be eradicated)
B, NT Class B Weed (growth & spread to be controlled)
C, NT Class C Weed (not to be introduced) (www.landmanager.com.au/view/index.aspx?id=449869)

3. OTHER STATUS CODES
C&E, Csurhes, S. & Edwards, R. (1998) Potential Environmental Weeds in Australia. Candidate Species for Preventative Control. Environment Australia, Canberra (www.landmanager.com.au/view/index.aspx?id=394504)
CYP, Draft Cape York Peninsula Pest Management Plan 2006-2011 (www.landmanager.com.au/view/index.aspx?id=371200)
DEU, Plants listed as environmental weeds by the Desert Uplands Strategic Land Resource Assessment (www.landmanager.com.au/view/index.aspx?id=332123)
G&M, Grice AC, Martin TG. 2005. The Management of Weeds and Their Impact on Biodiversity in the Rangelands. Cooperative Research Centre (CRC) for Australian Weed Management and CSIRO Sustainable Ecosystems. Commonwealth Australia (www.landmanager.com.au/view/index.aspx?id=163572)
Gr, Groves et al. 2003. Weed categories for natural and agricultural ecosystem management. Bureau of Rural Sciences (www.landmanager.com.au/view/index.aspx?id=388018)
K0, High Priority Weeds not yet established in the Katherine region
K1, High Priority Weeds posing environmental threats in the Katherine region
K2, High Priority Weeds posing existing threats in the Katherine region, as described in the Katherine Regional Weed Management Strategy 2005-2010 (www.landmanager.com.au/view/index.aspx?id=130286)
MP, Northern Territory Parks & Conservation Masterplan (www.landmanager.com.au/view/index.aspx?id=144141)
NAQS, North Australian Quarantine Strategy Target List (www.landmanager.com.au/view/index.aspx?id=449416)
NSW, Declared Noxious Weed in NSW (www.landmanager.com.au/view/index.aspx?id=449983)
Q1, QLD Class 1 Weed (not to be introduced, kept or supplied)
Q2, Class 2 Weed (eradicate where possible, not to be introduced, kept or supplied)
Q3, Qld Class 3 Weed (to be controlled near environmentally sensitive areas- not to be supplied/sold without a permit) (www.landmanager.com.au/view/index.aspx?id=190714)
SA, Declared Plant in South Australia (www.landmanager.com.au/view/index.aspx?id=449996)
WeedsAus, Listed as a significant weed by Weeds Australia (www.landmanager.com.au/view/index.aspx?id=14576)
WA1, WA Weed Class P1 (movement prohibited)
WA2, WA Weed Class P2 (aim to eradicate)
WA3, WA Weed Class P3 (control infestations)

WA4, WA Weed Class P4 (prevent spread)
WA5, WA Weed Class P3 (control infestations on public land) (www.landmanager.com.au/view/index.aspx?id=449884).

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Observation = this category refers to all other incidental recordings where systematic methodology may not have been used consistently.

More species info: Go to www.landmanager.org.au/view/index.aspx?id=####
where #### is the ID number from the tables above for the species of interest.

Plants listed in the table above were recorded from all the grid cells shown below (red/blue line) that overlap Custom area

Custom area Pest and Potential Pest Animals



Animals with pest potential recorded in the grid cell(s) in which Custom area occurs. Occurrence based on Northern Territory Government databases.

Common Name	Scientific Name	NT Status	National Status	ID	#Observations (Latest)	#Specimens (Latest)	#Surveys (Latest)
Asian House Gecko	<i>Hemidactylus frenatus</i>	P	.	188964	1 (1991)	4 (2000)	0 (Unknown)
Rock Dove	<i>Columba livia</i>	P	.	183336	2 (2001)	0 (Unknown)	0 (Unknown)
Red-tailed Black-cockatoo	<i>Calyptorhynchus banksii macrorhynchus</i>	N	.	223765	3 (1998)	0 (Unknown)	2 (2004)
Sulphur-Crested Cockatoo	<i>Cacatua galerita</i>	N	.	223772	1 (1998)	0 (Unknown)	1 (1995)
House Sparrow	<i>Passer domesticus</i>	P	.	183322	28 (2004)	16 (Unknown)	0 (Unknown)
House Mouse	<i>Mus musculus</i>	P	.	187720	31 (1996)	32 (1996)	3 (2011)
Black Rat	<i>Rattus rattus</i>	P	.	183236	0 (Unknown)	2 (1960)	0 (Unknown)
Dingo / Wild dog	<i>Canis lupus</i>	N	.	183280	37 (2009)	59 (1970)	15 (2011)
Fox	<i>Vulpes vulpes</i>	P	.	183294	10 (2009)	0 (Unknown)	2 (2011)
Cat	<i>Felis catus</i>	P	.	183259	41 (2010)	4 (1980)	9 (2011)
Rabbit	<i>Oryctolagus cuniculus</i>	P	.	187331	14 (1996)	0 (Unknown)	0 (Unknown)
Donkey	<i>Equus asinus</i>	P	.	183287	18 (2009)	0 (Unknown)	3 (2004)
Horse	<i>Equus caballus</i>	P	.	183315	16 (1999)	0 (Unknown)	0 (Unknown)
Pig	<i>Sus scrofa</i>	P	.	183329	12 (1999)	0 (Unknown)	0 (Unknown)
Camel	<i>Camelus dromedarius</i>	P	.	183210	4 (2009)	0 (Unknown)	0 (Unknown)
Cattle	<i>Bos taurus</i>	P	.	183266	11 (2010)	0 (Unknown)	29 (2011)

NT STATUS CODES:

Int, Introduced species (all non-prohibited vertebrates, and all other exotic species (www.landmanager.com.au/view/index.aspx?id=280771))

N, Native species with pest potential.

P, Prohibited species (all exotic vertebrates except those listed as non-prohibited (www.landmanager.com.au/view/index.aspx?id=450509))

Survey = this category refers to data collected using systematic survey methodology

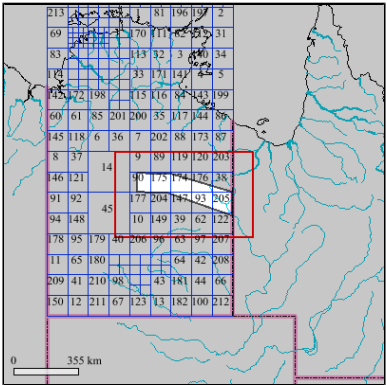
Specimen = this category refers to museum or other records where a specimen has been collected and lodged

Observation = this category refers to all other incidental recordings where systematic methodology may not have been used consistently.

More species info: Go to www.landmanager.org.au/view/index.aspx?id=####

where #### is the ID number from the tables above for the species of interest.

Potential pest animals listed in the table above were recorded from all the grid cells shown below (red/blue line) that overlap Custom area



Soils and vegetation graphs and tables refer to area of soils and vegetation only. Fire graphs and tables refer to entire selected area including sea if present. Calculations are derived from map images or vector data, and should be taken as a guide only. Accuracy cannot be guaranteed. For small areas, figures should be rounded to the nearest whole number.