

Yangedi Road Airfield Reserve (R25911) 2017

One permanent monitoring quadrat was set upon 17/12/08, in the banksia woodland. This was resurveyed on 15/10/09, and additional species from near the quadrat were added to the list. The 2009 species count from the quadrat was 28% greater than in 2008 (due to the timing of the survey, being carried out earlier in the season), and the total number of species recorded (including those from outside the quadrat) was 61% greater. The number of recorded weed species also increased.

The 2010 surveys occurred on 12/10/10. 2010 was an extremely dry winter and spring; many ephemeral species were missing, and the surveys were carried out early due to rapid heating and drying. The dieback front was observed to be approaching closer to the quadrat. The 2010 species count from the quadrat was 2% greater than in 2009 (despite the poor season), and the total number of species recorded (including those from outside the quadrat) was 16% greater.

The 2012 surveys occurred on 5/10/12. The wet spring has led to substantial extension of flowering period, and an observed second flowering in some species (e.g. *Phlebocarya ciliata*). There was an unusual abundance of *Podotheca gnaphalioides* along the edge of the firebreak.

The 2017 surveys occurred on 30/11/17. The quadrat could not be located due to substantial new growth of spearwood (*Kunzea glabrescens*) so a spot survey was carried out and GPS coordinates recorded. The vegetation was very dry due to the late season, and the annuals were no longer apparent. There was considerable evidence of rabbit and kangaroo activity.

General comments: Yangedi Road Airfield Reserve has areas of remnant vegetation belonging to several floristic communities, only one of which is regularly surveyed. The vegetation is generally in good condition, with substantial threat from weed invasion around the edges, and is also under threat from dieback (*Phytophthora cinnamomi*). Further threat exists from the use of the reserve as an airfield, including the desire for expansion and concern about fire hazard. Weed and dieback control programs are valuable in managing the biodiversity value of this area, and signs have been erected warning vehicles to not park in the remnant vegetation. Consultants' reports concerning past developments, including flora assessments, are available and should be consulted for further information.

Location of 2017 spot survey (UTM WGS84):

Summary – number of species recorded

Year	Quadrat A (included weeds)	Additional species nearby (included weeds)
2008	43 (8)	-
2009	52 (7)	13 (1)
2010	54 (8)	23 (2)
2012	67 (8)	21 (1)
2017 spot survey	-	61 (7)

Flora List for Monitoring Quadrat in Yangedi Road Airfield Reserve (numbers refer to year of survey)

Plant species	Quadrat A	Nearby	2017 Spot Survey
<i>Acacia lasiocarpa</i>	09	10, 12	
<i>Adenanthos cygnorum</i>		09, 10, 12	17
<i>Amphipogon turbinatus</i>	09, 10, 12		17
<i>Anigozanthos manglesii</i>	09, 12	10	17
<i>Austrostipa compressa</i>		09, 10, 12	17
<i>Baeckea camphorosmae</i>	08, 09, 10, 12		17

Plant species	Quadrat A	Nearby	2017 Spot Survey
<i>Banksia attenuata</i>	08, 09, 10, 12		17
<i>Banksia ilicifolia</i>		09, 10, 12	17
<i>Banksia menziesii</i>	08, 09, 10, 12		17
<i>Bossiaea eriocarpa</i>	08, 09, 10, 12		17
* <i>Briza maxima</i>	08, 09, 10, 12		17
<i>Burchardia congesta</i>	08, 09, 10, 12		17
<i>Caesia micrantha</i>	08, 12		17
<i>Caladenia flava</i>		09, 12	
<i>Calytrix angulata</i>	08, 09, 10, 12		17
<i>Calytrix fraseri</i>	12		
* <i>Carpobrotus edulis</i>	08, 12	10	
<i>Centrolepis drummondiana</i>	09, 12		
<i>Chamaescilla corymbosa</i>	09, 10, 12		
<i>Conostephium pendulum</i>	10, 12		17
<i>Conostephium preissii</i>	09, 10, 12		17
<i>Conostylis aculeata</i>	08, 09, 10, 12		17
<i>Conostylis juncea</i>	08, 09, 10, 12		17
<i>Crassula colorata</i>	12		
<i>Dampiera linearis</i>		09, 10, 12	17
<i>Dasypogon bromeliifolius</i>	08, 09, 10, 12		17
<i>Desmocladius flexuosus</i>	08, 09, 10, 12		17
* <i>Disa bracteata</i>	08, 09, 10		
<i>Drakaea glyptodon</i>	09, 10, 12		
<i>Drosera erythrorhiza</i>	09, 10, 12		17
<i>Drosera menziesii</i>	09, 10, 12		
<i>Drosera nitidula</i>	08, 09, 10		
* <i>Ehrharta calycina</i>	08	09, 10, 12	17
<i>Eremaea pauciflora</i>		09, 10, 12	17
<i>Euchilopsis linearis</i>		10, 12	17
<i>Gastrolobium capitatum</i>	10, 12		
* <i>Gladiolus caryophyllaceus</i>	08, 09, 10, 12		17
<i>Gompholobium tomentosum</i>	08, 09, 10, 12		
<i>Hibbertia ferruginea</i>	08, 10, 12		
<i>Hibbertia huegelii</i>	09, 10, 12		17
<i>Hibbertia vaginata</i>		09, 10, 12	17
<i>Hovea trisperma</i>	08, 09, 10, 12		
* <i>Hypochaeris glabra</i>	08, 09, 10, 12		17
* <i>Hypochaeris radicata</i>	08, 09, 10, 12		17
<i>Hypolaena exsulca</i>		09, 10, 12	17
<i>Isolepis cernua</i>	12		
<i>Jacksonia furcellata</i>		09, 10, 12	17
<i>Johnsonia pubescens</i>	09, 10, 12		
<i>Kunzea glabrescens</i>	12	09, 10	17
<i>Kunzea recurva</i>	10, 12		17
<i>Lachnagrostis filiformis</i>	12		
<i>Laxmannia squarrosa</i>	08, 09, 10, 12		17
<i>Lechenaultia floribunda</i>	08, 09, 10, 12		17
<i>Lepidosperma pubisquameum</i>	08, 10, 12	09	17
<i>Leucopogon</i> sp.	08, 10, 12		
<i>Lomandra</i> sp.	08, 09, 10, 12		17
<i>Loxocarya cinerea</i>	08, 09, 10, 12		17
<i>Lyginia barbata</i>	09, 10, 12		17
<i>Lyginia imberbis</i>	08, 09, 10, 12		17
<i>Lysinema ciliatum</i>		10, 12	17
<i>Macarthuria australis</i>	08, 09, 10, 12		17
<i>Macrozamia riedlei</i>		10, 12	17

Plant species	Quadrat A	Nearby	2017 Spot Survey
<i>Melaleuca thymoides</i>	08, 09, 10, 12		17
<i>Microtis media</i>	12		
<i>Neurachne alopecuroidea</i>	08		17
<i>Nuytsia floribunda</i>	08, 09	10, 12	17
<i>Patersonia occidentalis</i>	08, 09, 10, 12		17
<i>Petrophile linearis</i>	09, 10, 12		17
<i>Philotheca spicata</i>	09, 10, 12		17
<i>Phlebocarya ciliata</i>	08, 09, 10, 12		17
* <i>Pinus radiata</i>		10, 12	17
<i>Podotheca chrysantha</i>	09, 10, 12		17
<i>Podotheca gnaphalioides</i>	12		17
<i>Pterostylis nana</i>	12		
<i>Pterostylis vittata</i>		10, 12	
<i>Pyrorchis nigricans</i>	09, 12	10	
<i>Quinetia urvillei</i>	12		
* <i>Romulea rosea</i>	08, 09, 10, 12		
<i>Schoenus curvifolius</i>		09, 10, 12	
<i>Scholtzia involucrata</i>	09, 10, 12		
<i>Siloxerus humifusus</i>	08, 12		
<i>Stirlingia latifolia</i>	08	12	17
<i>Stylidium brunonianum</i>	08, 09, 10, 12		
<i>Stylidium repens</i>	08, 10		17
<i>Stylidium schoenoides</i>	08, 09, 10, 12		
<i>Tetraria octandra</i>	09, 10, 12		17
<i>Thysanotus manglesianus</i>	09, 10, 12		17
<i>Thysanotus triandrus</i>	08, 12		17
<i>Thysanotus sparteus</i>	08		17
<i>Trachymene pilosa</i>	09, 10, 12		
* <i>Ursinia anthemoides</i>	09, 10, 12		17
<i>Xanthorrhoea preissii</i>		10, 12	17
<i>Xanthosia huegelii</i>		10, 12	

* Introduced species

Photos of the quadrat follow.

17/12/08:



12/10/10:



5/10/12:



An abundance of *Podotrocha gnaphalioides*:

