

**Flowering and fruiting  
phenology of native  
plants in the Alligator  
Rivers Region with  
particular reference to  
the Ranger uranium  
mine lease area**

**Kym Brennan**



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## **Abstract**

It is currently agreed that local native plant species will be used to revegetate disturbed sites at the Ranger uranium mine in the Alligator Rivers Region (ARR) of the NT. For many species, seed supplies will not be available commercially and the mining company, or a contractor to it, will need to undertake a seed collection program. Central to the success of an effective seed collection program is knowledge concerning the times of flowering and fruiting of target species. This report gives the flowering and fruiting periods of 288 native plant species which might be considered for use on disturbed sites at Ranger. The species listing includes data from 93 species of trees and shrubs, 39 grass species and 156 species of other herbaceous plants. There was a slight peak in the number of species of trees and shrubs with mature fruit in September. The fruiting periods of most herbaceous species were highly restricted to the months of March and April.

# **1 Introduction**

It is currently agreed that disturbed areas on the Ranger uranium mine lease will be revegetated using native plant species to create assemblages with species compositions and densities similar to those in surrounding natural undisturbed plant communities (SSARR 1990, 59). This indicates the need for revegetation strategies for disturbed sites to establish a considerable diversity of plant species spanning the totality of lifeforms from trees and shrubs to annual herbs and grasses.

To implement such revegetation programs native seed will have to be obtained. However, at Ranger it is unlikely that commercial seed suppliers will be able to provide either the range or the quantity of seed necessary to complete revegetation within the current guidelines. The company, or a consultant to it, will have to undertake a sustained program of seed collection either on its lease or perhaps further afield in Kakadu National Park or Arnhem Land.

Central to the efficiency of a seed collection program is the need for knowledge of the flowering and fruiting periods (ie the phenology) of the range of plants that might be considered useful for revegetation. Very little has been published on the flowering and fruiting patterns of native plants in the Alligator Rivers Region (ARR). Hinz (1990) provides flowering and fruiting periods for 56 species of trees and shrubs from undisturbed vegetation communities near the Nabarlek uranium mine while Bowman et al (1991) report the flowering periods of 13 species of trees and shrubs from a site near Edith Falls south of the ARR. There are no published records of the phenology of herbaceous plants in the ARR. This report provides phenological data for a range of plant species occurring in the Ranger lease area. It also includes phenological information for species on sites elsewhere in the ARR examined during a study of potential natural analogue sites for rehabilitation of the Ranger uranium mine waste rock dump.

## **2 Methods**

### **2.1 Study sites**

The primary data presented in this report were collected during consecutive monthly visits to a set of 18 field sites of 1 ha to 3 ha in area. The locations of these sites are presented in table 1.

### **2.2 Study period**

For the 10 sites, 1 to 10, on the Ranger lease, data were collected throughout a 22 month period from March 1991 to December 1992. The 8 sites on hills, distant from Ranger, were each observed over a 12 month period; sites 12, 13, 14, 17 and 18 from December 1991 to November 1992 and sites 19, 20 and 22 from August 1992 to July 1993.

### **2.3 Field methods**

At each site, during each monthly visit any species in flower or with fruit was noted. Additionally for trees and shrubs, the presence of buds in months prior to flowering was noted and fruit was recorded in three classes of maturity viz immature, mature or over-mature. Site visits consisted of a slow walk through the site with frequent stops to examine herbaceous plants and the crowns of trees and shrubs (with the aid of binoculars). The time taken to complete each site varied enormously according to the amount of plant 'activity' encountered. A burnt site at the end of the Dry season might be completed within 10 minutes though the same site during the Wet season, at the time of greatest herbaceous biomass, could take over an hour to finish.

**Table 1** Location of sites

Site	Landscape type	General location	1:100 000 map sheet	Grid reference	
1	lowland woodland	Ranger lease	Cahill	2706	86006
2	lowland woodland	Ranger lease	Cahill	2719	86000
3	lowland woodland	Ranger lease	Cahill	2712	85989
4	lowland woodland	Ranger lease	Cahill	2715	85982
5	lowland woodland	Ranger lease	Cahill	2717	85976
6	lowland woodland	Ranger lease	Cahill	2713	85968
7	lowland woodland	Ranger lease	Cahill	2712	85952
8	lowland woodland	Ranger lease	Cahill	2749	85971
9	lowland woodland	Ranger lease	Cahill	2749	85956
10	lowland woodland	Ranger lease	Cahill	2750	85945
12	hill woodland on schist	hills near Fisher Airstrip	Stow	2447	84985
13	hill woodland	hills just N of Barra Gorge t/o on Kakadu Hwy	Mundogie	2188	85370
14	hill woodland	hills 13 km S of Old Darwin Rd on Kakadu Hwy	Mundogie	2235	85540
17	hill woodland on sandstone	Lookout Hill, Jabiluka	Cahill	2717	86167
18	hill woodland on schist	Tin Camp Creek	Oenpelli	3091	86275
19	hill woodland on schist	Tin Camp Creek	Oenpelli	3128	86222
20	hill woodland on schist	Tin Camp Creek	Oenpelli	3133	86215
22	hill woodland on schist	Tin Camp Creek	Oenpelli	3136	86221

## 2.4 Additional data sources

The data gathered from the site visits were enhanced by addition of phenological records compiled from other projects that had been either completed in previous years or that had operated concurrently. Additional records of flowering and fruiting of herbaceous plants from each site were obtained from monthly, species-sorted biomass samples acquired during a concurrent project. For the Ranger lease there was also a large set of phenological data from trees and shrubs collected between 1981 and 1984 during a study on terrestrial birds (Brennan unpub data).

## 2.5 Data storage

The data from this project are stored in Paradox database tables in the directory

`g:\plantbio\data\db\vegsurvs\table name`

The phenology data are stored in the table PHENDATA and an example page from this file showing its structure is given in table 2.

The column 'OSS code' is the species code. It can be linked to the 'OSS code' column in the table NAMES to convert species codes to botanical names. The column 'Site #' is the site number which can be linked to column 'Site #' in table SITES to obtain site location details. The column 'State code' contains the phenological data and can be linked to the column 'State code' in table PHENSTAT to convert the codes to meaningful text.

**Table 2** Sample of table structure of Paradox database table PHENDATA

Trip #	Date	Month	Site #	OSS code	State code
8	28 Oct 1991	10	1	9387	2
8	28 Oct 1991	10	1	9387	4
8	28 Oct 1991	10	2	1608	4
8	28 Oct 1991	10	2	1632	2
8	28 Oct 1991	10	3	1602	4
8	28 Oct 1991	10	10	2961	4
8	28 Oct 1991	10	10	8572	2
9	22 Nov 1991	11	1	1607	4
9	22 Nov 1991	11	1	1614	2
9	22 Nov 1991	11	1	1632	4
9	22 Nov 1991	11	1	1934	2
9	22 Nov 1991	11	1	9387	2
9	22 Nov 1991	11	1	9387	4
9	22 Nov 1991	11	2	1934	2
9	22 Nov 1991	11	2	2087	1
9	22 Nov 1991	11	2	2162	2
9	22 Nov 1991	11	3	2406	2
9	22 Nov 1991	11	10	9548	2

### 3 Results and discussion

Diagrams showing the flowering and fruiting records of all 288 species observed amongst the study sites are presented in appendix A (trees and shrubs, 93 species), appendix B (grasses, 39 species) and appendix C (other herbaceous plants, 156 species). Overall summaries of the flowering and fruiting patterns of plants from the 10 eucalypt woodland sites on the Ranger lease are shown in figs 1 and 2.

#### 3.1 Herbaceous species

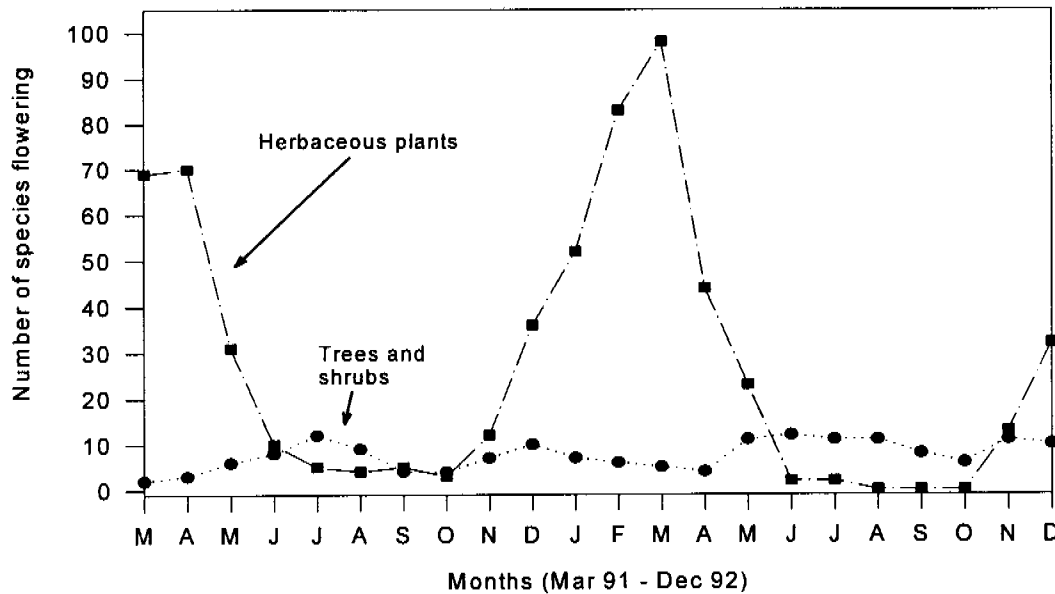
Flowering and fruiting of herbaceous species was, not unexpectedly, mostly confined to the Wet season months, January to April, with March being the most active month. One hundred and thirty-six herbaceous species were observed flowering or fruiting in the three months from February to April on the 10 Ranger sites.

From fig 3, it is clear that the majority of herbaceous species that flower and fruit at the beginning of the Wet season (from September to December) have perennial root systems. Early flowering herbaceous species with perennial root systems included *Drosera petiolaris*, *Minuria macrorrhiza*, *Murdannia graminea*, *Arthrostylis aphylla*, *Tephrosia reticulata*, *Haemodorum brevicaulis*, *Iphigenia indica*, *Eriachne obtusa*, *Kailarsenia suffruticosa*, *Stemona australiana*, *Brunoniella linearifolia*, *Curculigo ensifolia*, *Sauropus* sp 2, *Sauropus* sp 4, *Gymnema trinerve* and *Helicteres* sp 4. Very few species of true annuals began to flower or fruit before January.

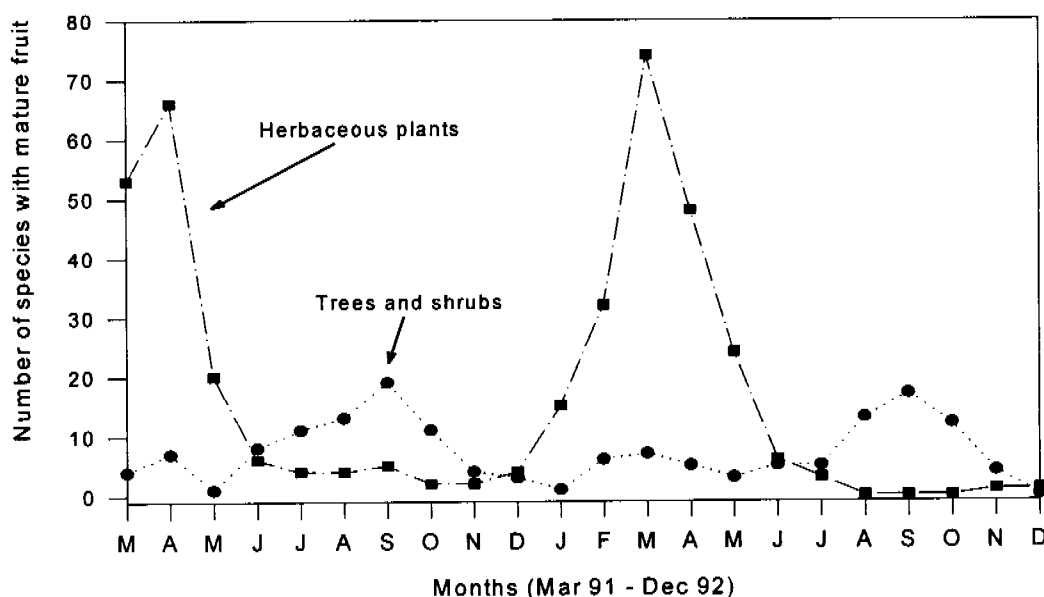
At the end of the Wet season a group of 7 'late' species, *Spermacoce exerta*, *Blumea tenella*, *Polycarpaea violacea*, *Goodenia leiosperma*, *Cymbopogon procera*, *Mitrasacme connata* and *Stylidium leptorrhizum*, were only observed to fruit after April.



During the mid Dry season months, June to August, a total of 15 herbaceous species were recorded with flower. The flowering of some of these appeared to be initiated by fire. On site 1 on the Ranger uranium lease, in the Dry season of 1991, two species with perennial root systems, *Minuria macrorhiza* and *Sauropus* sp 4, first flowered in July and August respectively after the site was burnt in late June. In the following Dry season (1992), when the site was not burnt until late August, neither of these species commenced flowering until November. At least two other herbaceous species with perennial roots, *Ptilotus distans* and *Haemodorum brevicaulle*, also appeared to be stimulated by fire to begin flowering but these responses were only noted incidentally from 'off site' locations.



**Figure 1** Overall pattern of flowering of plants in eucalypt woodlands on the Ranger uranium lease (from 10 sites over 22 months)



**Figure 2** Overall pattern of fruiting of plants in eucalypt woodlands in the Ranger uranium lease (from 10 sites over 22 months)

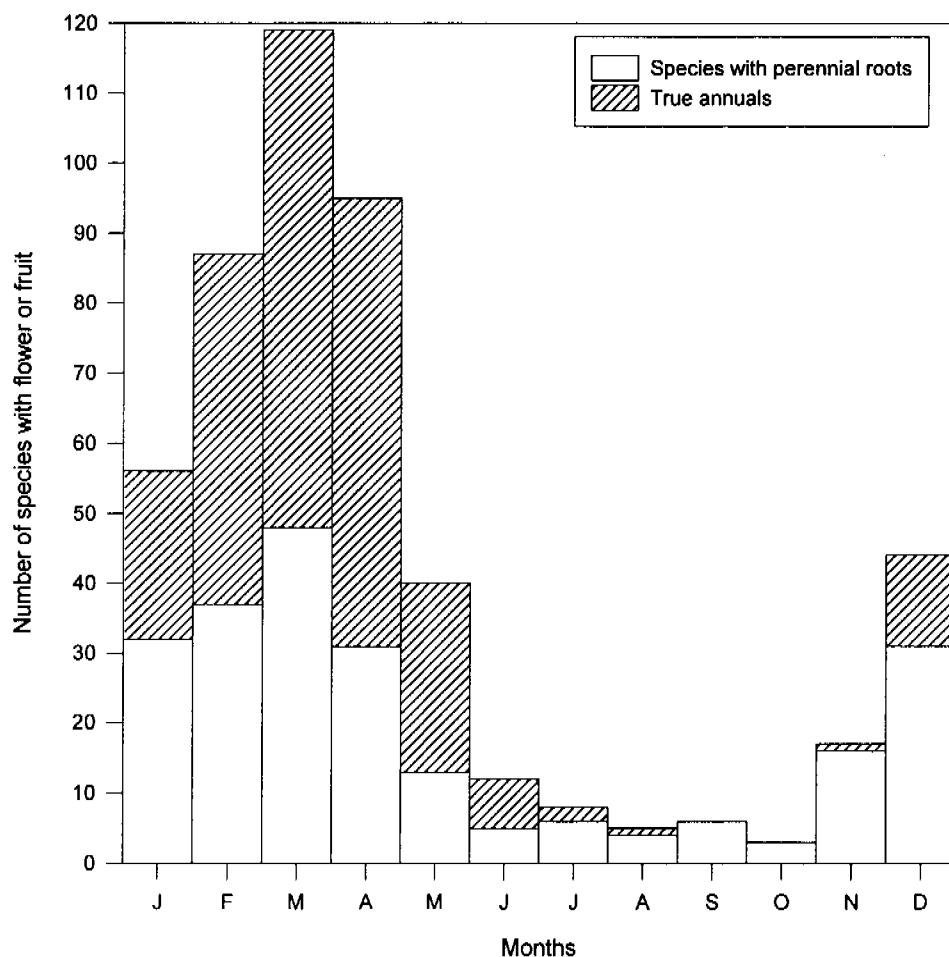


Figure 3 Overall pattern of flowering and fruiting of annual and perennial herbaceous plants in eucalypt woodlands on the Ranger uranium lease

### 3.2 Trees and shrubs

From fig 1 and fig 2 it is evident that seasonal peaks in the number of species of trees and shrubs flowering and fruiting follow a somewhat bimodal pattern. Flowering peaks occurred in June/July and November/December while peak fruiting times occur 2–3 months later in September and February/March. A point of particular note is that the number of species fruiting during the September peak of each year is much greater than the number of species flowering in June/July. Of the 23 species recorded with mature fruits in September (both years combined), seven, *Eucalyptus porrecta*, *Eucalyptus bleeseri*, *Planchonella pohlmaniana*, *Gardenia megasperma*, *Eucalyptus latifolia*, *Eucalyptus foelscheana* and *Eucalyptus chartacea*, had always finished flowering prior to June. For three of these, *P pohlmaniana*, *G megasperma* and *E chartacea*, the flower to fruit maturation time was over 9 months. None of the tree and shrub species with mature fruit in September flowered later than July.

Comparison of the flowering and fruiting periods of trees and shrubs in the Ranger area with those from Nabarlek (Hinz 1990) and Edith Falls (Bowman et al 1991) showed that generally each species timing of phenological events was similar throughout the region. However, of the species studied by Hinz (1990) at Nabarlek, *Acacia gonocarpa*, *Brachychiton megaphyllus* (as *B paradoxum*), *Eucalyptus tectifica*, *Hakaea arborescens* and *Terminalia ferdinandiana* were listed as flowering and fruiting up to 2 months earlier than reported here for the Ranger area. Conversely, *Eucalyptus tetradonta*, *Grevillea decurrens* and *Petalostigma pubescens* were reported flowering and fruiting 2 to 4 months later. The flowering period of *Eucalyptus setosa* reported by Hinz (1990) was particularly intriguing. Although this species has now

been split into 3 taxa, *E. chartacea*, *E. dunlopiana* and *E. papillosa*, none of the flowering periods given here for any of these species correspond with that published by Hinz (1990). From the current data it is impossible to determine whether these intra specific phenology differences between the Ranger area and the Nabarlek area are consistent from year to year.

Although the diagrams in appendix A show the times at which mature fruit can be expected to occur on the various species of trees and shrubs, they do not convey the regularity or intensity of fruit production from year to year or from site to site. Local and regional fruit production can be extremely variable from year to year (Hinz 1990, Brennan unpub data). Table 3 shows the somewhat irregular patterns of mature fruit production for 4 common species of *Eucalyptus* on the sites on the Ranger lease during this study.

The fruiting season of *Eucalyptus porrecta* in 1991 appeared to be more extensive than in 1992 but for the other three species the 1992 season was better. *Eucalyptus miniata* and *E. bleeseri* had particularly poor fruit crops in 1991 and this appeared to be a regional phenomenon (pers obs.). Though outbreaks of defoliating insects, bird (cockatoo) predation and fire were readily identifiable as significant agents causing fruit loss on the Ranger study sites, there were doubtless other more subtle factors related to seasonal weather and ground water conditions that also contributed to variations in annual fruit production. These factors could directly or indirectly influence bud initiation processes, the effectiveness of flower pollination systems and fruit maturation success. Fruit collection strategies to overcome spatial and temporal variations in fruit production would be essential if the lead time between seed collection and scheduled seed use is short.

**Table 3** Production of mature fruit for four *Eucalyptus* species on sites on the Ranger lease

Site	Years with mature fruit							
	<i>Eucalyptus porrecta</i>		<i>Eucalyptus tetradonta</i>		<i>Eucalyptus miniata</i>		<i>Eucalyptus bleeseri</i>	
	1991	1992	1991	1992	1991	1992	1991	1992
1	✓		✓	✓		✓		✓
2	✓			✓		✓		✓
3		✓	✓	✓		✓		✓
4	✓	✓	✓	✓				✓
5	✓	✓	✓	✓				✓
6	✓	✓		✓				
7	✓	✓	✓	✓	✓	✓		✓
8	✓			✓		✓	✓	✓
9	✓			✓		✓		✓
10			✓	✓				

## 4 References

- Bowman DMJS, Wilson BA & Woinarski JCZ 1991. Floristic and phenological variation in a northern Australian rocky *Eucalyptus* savanna. *Proceedings of the Royal Society of Queensland* 101, 79–90.
- Hinz R 1990. Seed technology for the Northern Territory's Top End. In *Proceedings of the AMIC Environmental Workshop, Woollongong NSW*, Australian Mining Industry Council, Dickson, ACT, 43–59.
- SSARR (Supervising Scientist for the Alligator Rivers Region) 1990. *Supervising Scientist for the Alligator Rivers Region: Annual report 1989–90*. AGPS, Canberra.

## Appendix A Flowering and fruiting periods of trees and shrubs

**Note** For fruits, immature fruit period is in light stipple, mature fruit period is in dark stipple.

### 2833 *Acacia conspersa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2835 *Acacia difficilis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2836 *Acacia dimidiata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2839 *Acacia gonocarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2841 *Acacia hemignosta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2845 *Acacia latescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 1615 *Acacia mimula*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2860 *Acacia oncinocarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2885 *Acacia umbellata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8868 *Ampelocissus frutescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1622 *Asteromyrtus symphyocarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1634 *Banksia dentata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1629 *Barringtonia acutangula*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8574 *Brachychiton diversifolius*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8576 *Brachychiton megaphyllus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1607 *Buchanania obovata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2935 *Calytrix achaeta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1617 *Calytrix exstipulata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2021 *Capparis umbonata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1616 *Cochlospermum fraseri*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2381 *Croton amhemicus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8878 *Distichostemon amhemicus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9541 *Dodonaea* sp

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1966 *Dolichandrone filiformis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1612 *Erythrophleum chlorostachys*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2358 *Erythroxylum ellipticum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1631 *Eucalyptus alba*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1605 *Eucalyptus bleeseri*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2979 *Eucalyptus chartacea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1604 *Eucalyptus confertiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2958 *Eucalyptus dichromophloia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9486 *Eucalyptus dunlopiana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2961 *Eucalyptus foelscheana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2966 *Eucalyptus kombolgiensis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1640 *Eucalyptus latifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1603 *Eucalyptus miniata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9151 *Eucalyptus oocarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9431 *Eucalyptus papillosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1639 *Eucalyptus papuana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2974 *Eucalyptus phoenicea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1619 *Eucalyptus polycarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2955 *Eucalyptus polysciada*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1601 *Eucalyptus porrecta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2977 *Eucalyptus pruinosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												



1606 *Eucalyptus tectifica*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1602 *Eucalyptus tetradonta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9154 *Eucalyptus tintinnans*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2916 *Ficus opposita*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2506 *Galactia megalophylla*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1614 *Gardenia megasperma*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8385 *Grevillea decurrens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8391 *Grevillea mimosoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1636 *Grevillea pteridifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8639 *Grewia* sp a

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8398 *Hakea arborescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2522 *Indigofera saxicola*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2528 *Jacksonia dilatata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8037 *Jasminum molle*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1627 *Lophopetalum amhemicum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1801 *Lophostemon lactifluus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1623 *Melaleuca argentea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1645 *Melaleuca cajuputi*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1620 *Melaleuca leucadendra*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1635 *Melaleuca nervosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1621 *Melaleuca viridiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2802 *Owenia vernicosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9444 *Pachynema hooglandii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2331 *Pachynema junceum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1630 *Pandanus aquaticus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8452 *Pavetta brownii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8401 *Persoonia falcata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1638 *Petalostigma pubescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2406 *Petalostigma quadriloculare*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1610 *Planchonella pohlmaniana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1632 *Planchonia careya*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8435 *Pogonolobus reticulatus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8665 *Premna acuminata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8402 *Stenocarpus acacioides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1626 *Syzygium armstrongii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1624 *Syzygium forte* ssp *potamophilum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1625 *Syzygium suborbiculare*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9071 *Tephrosia nematophylla*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2083 *Terminalia canescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2084 *Terminalia carpentariae*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2087 *Terminalia ferdinandiana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2089 *Terminalia grandiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2090 *Terminalia latipes*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1611 *Terminalia pterocarya*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8022 *Verticordia cunninghamii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8672 *Vitex glabrata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8588 *Waltheria indica*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1794 *Wrightia saligna*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1608 *Xanthostemon paradoxus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

## Appendix B Flowering and fruiting of grasses

8093 *Alloteropsis semialata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9498 *Alloteropsis* sp

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9179 *Aristida holathera*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8111 *Aristida superpendens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8123 *Brachiaria holosericea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8147 *Chrysopogon fallax*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8148 *Chrysopogon latifolius*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8156 *Cymbopogon procerus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8172 *Digitaria gibbosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1731 *Ectrosia agrostoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1565 *Eragrostis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1561 *Eragrostis cumingii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8212 *Eriachne agrostidea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1741 *Eriachne avenacea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8214 *Eriachne basedowii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8217 *Eriachne ciliata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8222 *Eriachne obtusa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												



1745 *Eriachne schultzeana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1585 *Eriachne* sp Simon 3007

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8227 *Eriachne sulcata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1763 *Eulalia annua*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8233 *Eulalia mackinlayi*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8241 *Heteropogon triticeus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9210 *Mnesithea formosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8152 *Mnesithea rotti-boellioides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1559 *Panicum mindanaense*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8301 *Pseudopogonatherum irritans*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1768 *Schizachyrium fragile*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8313 *Sehima nervosum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8314 *Setaria apiculata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9636 *Sorghum brachypodium*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8323 *Sorghum intrans*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8326 *Sorghum plumosum* var *plumosum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8333 *Sporobolus pulchellus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8336 *Thaumastochloa major*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8341 *Themeda triandra*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8346 *Triodia procera*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9229 *Yakirra nulla*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8279 *Yakirra pauciflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

## Appendix C Flowering and fruiting of non grass herbaceous species

### 2440 *Alysicarpus glumaceus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 8679 *Ampelocissus acetosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 1873 *Aristolochia holtzei*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2162 *Arthrostylis aphylla*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2441 *Austrodolichos errabundus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 1924 *Blumea tenella*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 2105 *Bonamia brevifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

### 8947 *Bonamia pannosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1586 *Borreria breviflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1588 *Borreria exserta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1592 *Borreria* sp 3

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8431 *Borreria* sp 4

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9250 *Borreria* sp 5

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9503 *Borreria* sp 8

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8898 *Brunoniella linearifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8506 *Buchnera linearis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2164 *Bulbostylis barbata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1988 *Byblis liniflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1542 *Calandrinia uniflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1820 *Cartonema parviflorum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8943 *Cartonema* sp 2

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1821 *Cartonema spicatum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9093 *Cassytha aurea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2683 *Cassytha filiformis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8510 *Centranthera cochinchinensis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1825 *Chamaecrista mimosoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2716 *Chlorophytum laxum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1546 *Cleome tetrandra*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2097 *Commelina ensifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9537 *Crotalaria brevis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2472 *Crotalaria medicaginea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2471 *Crotalaria montana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9106 *Curculigo ensifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8919 *Cynanchum brachystelmoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1726 *Cyperus pulchellus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8963 *Cyperus sporobolus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2489 *Desmodium brownii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1538 *Desmodium* sp a var 1

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9494 *Desmodium* sp a var 2

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2490 *Desmodium* sp c

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1832 *Drosera petiolaris*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8012 *Dunbaria singuliflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8013 *Eriosema chinense*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9030 *Euphorbia muelleri*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												



9031 *Euphorbia schizolepis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1808 *Euphorbia schultzei*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1805 *Euphorbia vachellii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2111 *Evolvulus alsinoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8970 *Fimbristylis caloptera*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2230 *Fimbristylis cinnamometorum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1775 *Fimbristylis densa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1780 *Fimbristylis macrantha*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2250 *Fimbristylis pachyptera*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2254 *Fimbristylis pterygosperma*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2257 *Fimbristylis recta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2259 *Fimbristylis schultzei*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9627 *Fimbristylis* sp b

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2270 *Fimbristylis xyridis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2503 *Flemingia parviflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9492 *Galactia* sp 1

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2508 *Galactia tenuiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1671 *Gomphrena canescens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8907 *Gomphrena diffusa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1675 *Gomphrena flaccida*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2647 *Gonocarpus leptothecus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2615 *Goodenia armstrongiana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9621 *Goodenia coronopifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1569 *Goodenia holtzeana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2620 *Goodenia janamba*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2622 *Goodenia leiosperma*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9463 *Gymnema trinerve*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2639 *Haemodorum brevicaule*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2640 *Haemodorum coccineum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2643 *Haemodorum parviflorum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9485 *Helicteres* sp 3

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9548 *Helicteres* sp 4

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9497 *Heliotropium alcyonium*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1973 *Heliotropium bracteatum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8929 *Heliotropium foliatum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1983 *Heliotropium ventricosum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9429 *Hibbertia* sp 13

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8676 *Hybanthus enneaspermus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2677 *Hyptis suaveolens*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2517 *Indigofera linifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9055 *Indigofera parviflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2720 *Iphigenia indica*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1860 *Ipomoea abrupta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2116 *Ipomoea diversifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8780 *Ipomoea eriocarpa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2121 *Ipomoea graminea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8446 *Kailarsenia suffruticosa*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8514 *Lindemia lobelioides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8690 *Lomandra tropica*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8918 *Marsdenia annae*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2140 *Merremia quinata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1934 *Minuria macrorhiza*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8561 *Mitrasacme connata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8563 *Mitrasacme exserta*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9519 *Mitrasacme latiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9114 *Mitrasacme nudicaulis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9115 *Mitrasacme nummularia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2101 *Murdannia graminea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8065 *Nervilia holochila*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9716 *Oldenlandia laceyi*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9008 *Pachynema sphenandrum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2669 *Patersonia macrantha*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9632 *Phyllanthus* sp 2

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1884 *Phyllanthus virgatus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2030 *Polycarpaea fallax*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2031 *Polycarpaea holtzei*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2033 *Polycarpaea longiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8364 *Polygala longifolia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8365 *Polygala orbicularis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8359 *Polygala* sp 1

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8361 *Polygala* sp 2

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8362 *Polygala* sp 4

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												



8818 *Polygala* sp 5

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2422 *Poranthera microphylla*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8376 *Portulaca bicolor*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1681 *Ptilotus corymbosus*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1683 *Ptilotus distans*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1739 *Rhynchospora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2280 *Rhynchospora longisetis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2423 *Sauropus brunonis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2424 *Sauropus ditassoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9383 *Sauropus* sp 1

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9381 *Sauropus* sp 2

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9387 *Sauropus* sp 4

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2294 *Scleria annularis*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9002 *Scleria sphacelata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2431 *Sebastiania chamaelea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9501 *Senna heptanthera*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8932 *Senna oligoclada*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2721 *Sowerbaea alliacea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8820 *Stackhousia intermedia*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8572 *Stemona australiana*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8531 *Striga curviflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8601 *Stylidium floodii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8603 *Stylidium irriguum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8604 *Stylidium leptorrhizum*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8814 *Stylosanthes hamata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8620 *Tacca leontopetaloides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9070 *Tephrosia leptoclada*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2583 *Tephrosia remotiflora*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2584 *Tephrosia reticulata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8626 *Thecanthes punicea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2722 *Thysanotus banksii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8699 *Tribulopsis pentandra*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1828 *Typhonium russell smithii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2590 *Uria cylindracea*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2591 *Uria lagopodoides*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

1915 *Wedelia cunninghamii*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2593 *Vigna lanceolata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

2141 *Xenostegia tridentata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

8691 *Xyris complanata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												

9079 *Zornia prostrata* var *prostrata*

	J	F	M	A	M	J	J	A	S	O	N	D
Flower												
Fruit												