



Woodland Watch 2004 Survey of Wheatbelt Woodlands



Western Australian Herbarium

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Introduction

Woodland Watch is a woodlands conservation project launched in 2000 by WWF-Australia, in collaboration with the Herbarium of the Department of Conservation and Land Management, and with the assistance of funding from the Natural Heritage Trust and Alcoa Australia. One of the major objectives of the project was to carry out floristic surveys of selected remnant eucalypt woodlands of the Avon Wheatbelt region – on private farmlands and other lands not within the conservation estate. The Avon Wheatbelt bioregion is situated in the South West Botanical Province of Western Australia, which roughly corresponds to one of WWF's Global 200 priority ecoregions - the Southwest Australia Ecoregion. It is bound by Jarrah forest in the southwest, and the Eremaean Botanical Province –the Murchison and goldfields districts, to the northeast. It encompasses an area of 93,520 square kms, of which 93% has been cleared – predominantly for agriculture (Beard 1990).

Four woodland types considered by WWF-Australia to be amongst the most threatened eucalypt woodland communities of the Avon Wheatbelt region were selected for the research and conservation project: those dominated by salmon gum (*Eucalyptus salmonophloia*), gimlet (*E. salubris*), York gum (*E. loxophleba*) and red morrel (*E. longicornis*).

The primary aims of the project were to identify woodlands of high conservation value in the Avon Wheatbelt, to assist private landowners and rural communities to better manage and conserve these remnant woodlands, and to help landholders to better understand the major threats to these woodlands and their management needs. These include consideration of such impacts as soil compaction, and over-clearing and grazing, which have contributed to the secondary and more important problems of salinity and rising water tables.

Conducting flora surveys in these woodland communities was considered an essential preliminary activity, to highlight their uniqueness and diversity, and to assess and report on their condition. Using this and other information, property owners could then be advised on how best to manage and protect their remnant vegetation through fencing and other management practices, and conservation support schemes such as covenants. Thus, through Woodland Watch, it is possible to address some of the threats to the woodlands, including salinity. Future monitoring of the sites may provide data on the ability and rate at which these eucalypt woodlands can recover from disturbance.

The role of the WA Herbarium in this project was to survey, identify and voucher all plant specimens collected from selected woodland sites. A total of 41 sites were surveyed in the first year (2000), followed by 21 sites in 2001, 25 sites in 2002, and 25 sites in 2003.

In 2004 a further 35 sites were surveyed and 1,555 voucher specimens collected. To date this series of projects has sampled 147 sites and collected a total of 5,520 voucher specimens.

Methodology

Sites were surveyed and plants vouchered by Mike Hislop of the WA Herbarium, with the assistance of Mike Griffiths, Mick Davis and Bronwen Smith of WWF-Australia. As with previous Woodland Watch surveys, the methodology for each site visited in 2004 comprised three parts:

Ten by ten metre quadrats

The location of each 10 × 10 metre quadrat was based on the area that best represented the species diversity of the selected woodland type. All species found were collected. Each quadrat was permanently marked by a steel stake on the north-western corner, from which the coordinates were recorded using a GPS.

Random stratified collection

This involved a random walk covering the confines of the selected woodland, avoiding adjoining habitats to keep the integrity of survey purely to the targeted Eucalyptus woodland habitat.

Overall assessment

An overall assessment of the condition of each site was made using procedures adopted by the Wildflower Society of Western Australia (Trudgen 1991).

This methodology was considered the most effective to achieve the objectives of the project within the time constraints.

Results

In 2004 a total of 35 sites were surveyed, resulting in 1,555 collections. Of the 35 woodland sites surveyed, 5 were *Eucalyptus salmonophloia*, 12 *Eucalyptus loxophleba*, 1 *Eucalyptus longicornis*, and 9 *Eucalyptus salubris*. The remaining sites were predominantly of other woodland types: 1 *Eucalyptus brachycorys*, 3 *Eucalyptus wandoo*, and 1 mallee woodlands (with *Eucalyptus subangusta* and *Allocasuarina acutivalvis*). These selected woodlands varied greatly in size from 10 hectares to several hundred hectares; they also varied in condition.

One site was found to have an exceptionally high numbers of species. Site 134, a *Eucalyptus loxophleba* Woodland S of Trayning, produced voucher specimens of 61 species. Site 131, an *Eucalyptus salmonophloia* woodland northwest of Bencubbin, produced 55 species. The smallest collection was recorded for a *Eucalyptus salmonophloia* woodland, represented by 26 species (Site 124, a town reserve at Kununoppin).

From the 12 *Eucalyptus loxophleba* woodland sites surveyed, a total of 586 specimens were vouchered at an average of 49 species per site. From the 3 *Eucalyptus wandoo* woodland sites surveyed, 128 species were collected at an average of 43 species per site. A total of 5 *Eucalyptus salmonophloia* woodland sites were surveyed, with 195 specimens vouchered at an average of 39 species per site. From the 9 *Eucalyptus salubris* woodland sites surveyed (including modified *Eucalyptus salubris* woodland types) 346 specimens were collected at an average of 38 species per site.



Eucalyptus salubris [Photo: Richard McLellan/WWF-Australia]

Collections of note

Whilst the majority of gatherings made during the 2005 survey provided small range extensions, a number were more significant. Some of these, including several possible new or otherwise undescribed species, new locations of Priority taxa, and more notable range extensions, are highlighted below.

Likely New Species

Twelve (12) possible new species were collected on Woodland Watch sites during the survey. All require further study.

- ***Baeckea* sp. Tampia Hill (J.C. Anway 327).** (WW-137). This is only the fourth collection of this unnamed taxon and the first in thirty years.
- ***Calandrinia* aff. *corrigioloides*.** (WW-114). There appear to be two more or less distinct inland variants of *C. corrigioloides*: one, with smooth seeds, that is at least similar to the common coastal form; and a variant (as here) with a different seed shape and a textured surface. This latter entity, of which there are very few collections, possibly warrants taxonomic recognition at some level.
- ***Calandrinia* sp. Blackberry (D.M.Porter 171).** (WW-117, WW-118, WW-119, WW-120, WW-126, WW-135). An informal phrase name currently used at the WA Herbarium to refer to a taxon that is probably unnamed but of uncertain status. It was referred to in the 2003 survey results as *C. aff. eremaea*. It differs from typical *eremaea* in its different seed character but is almost indistinguishable in general morphology.
- ***Diuris* aff. *recurva*.** (WW-120). An unnamed species in the difficult *D. recurva* complex.
- ***Lepidosperma* sp. A2 Island Flat (G.J. Keighery 7000).** (WW-139, WW-141). This is an informal phrase name currently used at the WA Herbarium to refer to a taxon that is probably unnamed but of uncertain status.
- ***Lepidosperma* aff. *costale*.** (WW-143). While clearly quite close to typical *L. costale* (also present at this site) the fact that this entity maintains a number of differences while growing in close proximity to that species strongly suggests that it should be regarded as a separate and distinct taxon. The co-occurrence of two potentially different but certainly closely related taxa at a particular locality, as here, is of great significance to taxonomists in their efforts to resolve problematic groups of species.
- ***Leucopogon* sp Yanneymooning (F.Mollemans 3797).** (WW-127). Collected from a decomposing granite breakaway. This collection represents only the fourth known locality (and most westerly) for this taxon.
- ***Phyllangium* sp.** (WW-133). An interesting collection. Unlike *P. sulcatum*, which is quite widespread in the Wheatbelt, the lower stems here are tuberculate. There is also some indication that, although still immature here, the diagnostic seed character may be different. A fruiting collection taken in the second half of October should resolve the identity of this plant

- ***Stylidium coroniforme* subsp. *amblyphyllum***. (WW-141). Currently listed as DRF. In the course of her revisionary studies towards a Flora of Australia treatment of *Stylidium*, Juliet Wege has decided that the southern populations of *S. coroniforme* are sufficiently distinct to warrant recognition at the infraspecific level. It will soon be referred to therefore as subsp. *amblyphyllum*. This taxon was first collected in 2002 near Quairading during an earlier Woodland Watch survey (2002) and this collection is only the second for the subspecies.
- ***Trachymene* sp. aff. *cyanopetala***. (WW-114). This is an anomalous collection with one mericarp typically hair and the other glabrous or with a few marginal hairs. The genus *Trachymene* was recently revised by Barbara L. Rye, but she has not seen any other collections that match this one. Possibly a hybrid between typical *T. cyanopetala* and the variant of *T. pilosa* also collected at this site.
- ***Triglochin* sp. B Flora of Australia**. (WW-114, WW-123, WW-126). An informal phrase name currently used at the WA Herbarium to refer to a taxon that is probably unnamed but of uncertain status.
- ***Triglochin* sp. C Flora of Australia**. (WW-114). An informal phrase name currently used at the WA Herbarium to refer to a taxon that is probably unnamed but of uncertain status.

Priority taxa (confirmed)

Ten (10) new populations of DRF and Priority species were recorded during this survey:

Taxon	Status	Site
• <i>Acacia phaeocalyx</i>	P3	WW-141
• <i>Austrostipa exilis</i>	P2	WW-133
• <i>Blennospora phlegmatocarpa</i>	P3	WW-133
• <i>Gunniopsis rubra</i>	P3	WW-126 WW-131 WW-139
• <i>Stenanthemum tridentatum</i>	P4	WW-143
• <i>Stylidium coroniforme</i> subsp. <i>amblyphyllum</i>	DRF (new subspecies)	WW-141
• <i>Stylidium tenuicarpum</i>	P4	WW-140 WW-144

Significant Range Extensions

Seventeen (17) taxa were collected with significant range extensions:

Taxon	Site	Notes
• <i>Abutilon cryptopetalum</i>	WW-147	Southwesterly range extension in WA.
• <i>Baeckea</i> sp. Tampia Hill (J.C. Amway 327)	WW-137	First collection of this undescribed species for 30 years.
• <i>Bertya dimerostigma</i>	WW-139	Significant westerly range extension of over 100 kms (from the Woollocutty district NE of Hyden).
• <i>Dodonaea larraeoides</i>	WW-133	Most easterly collection.
• <i>Hakea nitida</i>	WW-141	This collection is only the second from what appears to be a definite outlier population of the species in the central Wheatbelt. The first of these (ie. R. Davis 9467) was collected during the 2000 Woodland Watch surveys. Because the two specimens are in fruit only an effort should be made to make flowering collections earlier in the year from these populations to dispel any doubts that there may be some morphological divergence from the main populations to the south.
• <i>Leucopogon</i> sp Yanneymooning (F.Mollema 3797)	WW-127	Collected from a decomposing granite breakaway. This collection represents only the fourth known locality (and most westerly) for this taxon.
• <i>Lomandra nutans</i>	WW-146	From a northern outlier population.
• <i>Menkea australis</i>	WW-117	The most northerly collection from the Avon Wheatbelt, although it is known from pastoral country to the northeast.
• <i>Monotaxis bracteatae</i>	WW-146	Together with an occurrence at nearby St Ronans reserve this population represents a south west outlier for this widely spread species.
• <i>Patersonia drummondii</i> subsp. <i>drummondii</i>	WW-126	Southwesterly range extension.
• <i>Patersonia drummondii</i> subsp. <i>drummondii</i>	WW-146	Southwesterly range extension.
• <i>Phebalium lepidotum</i>	WW-139	Apart from a curious outlier in the Perenjori district well to the north of its usual range,

- this is the most westerly collection of the species so far recorded in the state.
- *Podolepis tepperi* WW-118 Northwesterly range extension.
 - WW-122
 - *Sclerolaena densiflora* WW-118 Another species that mainly occurs in arid and semi-arid areas to the north and east. This collection represents a south westerly range extension.
 - *Sclerolaena drummondii* WW-117 Fills an apparent gap in the previously known distribution which had appeared disjunct hitherto.
 - *Stellaria filiformis* WW-122 Most collections of this species are from central Wheatbelt and east beyond the agricultural areas. This is the first collection from the northern Wheatbelt, although there are two collections to the north of the agricultural region.
 - *Trachymene pilosa* WW-114 *Trachymene pilosa* – This entity is referred to by Barbara L. Rye in her recent treatment of the genus as *the homomorphic short tuberculate variant* of the species. This is a northern range extension of this rarely collected form.

Other Collections of Interest:

Taxon	Site	Notes
• <i>Acacia acuminata</i>	WW-116 WW-120 WW-122 WW-123	An undescribed variant <i>with</i> narrow phyllodes, widespread in the South West and Interzone area between Shark Bay and Esperance.
• <i>Acacia erinacea</i>	WW-140	This is the prostrate variant of the species which may well come to be recognized as taxonomically distinct.
• <i>Acacia pulchella</i>	WW-146	An infraspecific name has not been applied here to this unusual variant. Of the named varieties it is probably closest to <i>A. var. reflexa</i> but differs in its erect petioles.
• <i>Acacia</i> sp.	WW-126	This is an interesting collection. It belongs to the <i>A. sclerophylla</i> group of species but does not well match any of the named taxa. Neither is it familiar to <i>Acacia</i> authority Bruce Maslin. A further fruiting collection of this entity will help resolve its identity.
• <i>Erodium crinitum</i>	WW-124	A species that mostly occurs in pastoral country to the north and east of the

- agricultural districts; only the fourth collection from the Wheatbelt.
- *Erymophyllum tenellum* WW-126
WW-129 A hairy form, rather than the normal glabrous form. This is the first time that this anomaly has been observed by WA Herbarium taxonomist Paul Wilson, who recently revised the genus.
 - *Grevillea acuaria* WW-137 – This variant is currently referred to in the literature as the ‘soft leaf form’. This specimen apparently represents the northernmost collection of this entity. It seems probable that the latter will be formally recognized at some time in the future as taxonomic studies continue.
 - *Grevillea levis* WW-138 This is right at the southern limit for the species and the style pollen presenter is atypically elongate.
 - *Hakea recurva* WW-122 This specimen is notable in being intermediate between the typical subspecies and subsp. *arida*.
 - *Hibbertia exasperatae* WW-140 As with several other species collected at this site (eg *Brachyscome perpusilla* and *Westringia rigida*) *H. exasperatae* is right at the southwest extremity of its range in this area.
 - *Hibbertia ovata* / *H. montana* intermediate WW-146 This material belongs to a close-knit group of species that are much in need of taxonomic revision. It matches collections from nearby Mokine Nature Reserve.
 - *Lachnagrostis plebeia* WW-133 A poorly collected species. This represents only the third time that it has been collected in the Wheatbelt.
 - *Lepidium oxytrichum* WW-118 This species mainly occurs in the pastoral country to the north and east of the agricultural region.
This is only the third collection from the Avon Wheatbelt, the other two being from the Mullewa area and another Woodland Watch collection from Kununoppin.
 - *Lepidosperma brunonianum* WW-140 This complex genus of sedges is greatly in need of taxonomic revision. The boundaries of a number of the named species are not clear while at the same time there appear to be many unnamed taxa. This name is applied rather tentatively here.
 - *Lepidosperma obtusum* WW-146 This species appears to have a very restricted distribution. It is currently only known from a few collections mostly in and around Wambyn Nature Reserve.
 - *Lepidosperma resinosum* WW-138 This complex genus of sedges is greatly in need of taxonomic revision. The boundaries of a number of the named species are not clear while at the same time there appear to

- *Lomandra nutans* WW-146 be many unnamed taxa. This name is applied rather tentatively here. There are only 2 other collections of this species from the area (Mokine and Wambyn Nature Reserves) and together they form a northern outlier in its distribution.
- *Oxalis perennans* WW-134
WW-140 - This taxon belongs to the cosmopolitan *O. corniculata* complex the Australian members of which are much in need of taxonomic revision. For this reason the name is applied rather tentatively here.
- *Phyllangium* sp. WW-133 An interesting collection. Unlike *P. sulcatum*, which is quite widespread in the wheat belt, the lower stems here are tuberculate. There is also some indication that, although still immature here, the diagnostic seed character may be different.
- *Stenopetalum lineare* WW-117
WW-121 There have been very few collections of this taxon from the Wheatbelt generally and only one other from the northern Wheatbelt.
- *Tetragonia diptera* WW-113
WW-114 Generally occurs to the north of the agricultural areas. Only the third collection from the Avon Wheatbelt.
- *Thysanotus manglesianus* WW-145 A more typical larger flowered variant than another found at the same site.

Conclusion

The woodlands surveyed in 2004 were found to be largely comprised of species in the following plant families (in alphabetical order) — Asteraceae, Chenopodiaceae, Mimosaceae, Papilionaceae and Poaceae.

Although dominated by eucalypts, there are relatively few species of Myrtaceae within these woodlands, except for the genus *Melaleuca*. Even though melaecus were relatively common, they were frequently located either on the periphery of these woodlands or in small pockets within, often near granite or by watercourses and in wet depressions. There were four common species of *Melaleuca* found in the woodlands visited in this survey, namely *Melaleuca acuminata*, *M. eleuterostachya*, *M. lanceolata* and *M. scalena*.

As with sites surveyed in 2000-2001, 2002 and 2003, Proteaceae was also poorly represented in these woodland types.



Red Morrel woodland [Photo: Richard McLellan/WWF-Australia]

Acknowledgments

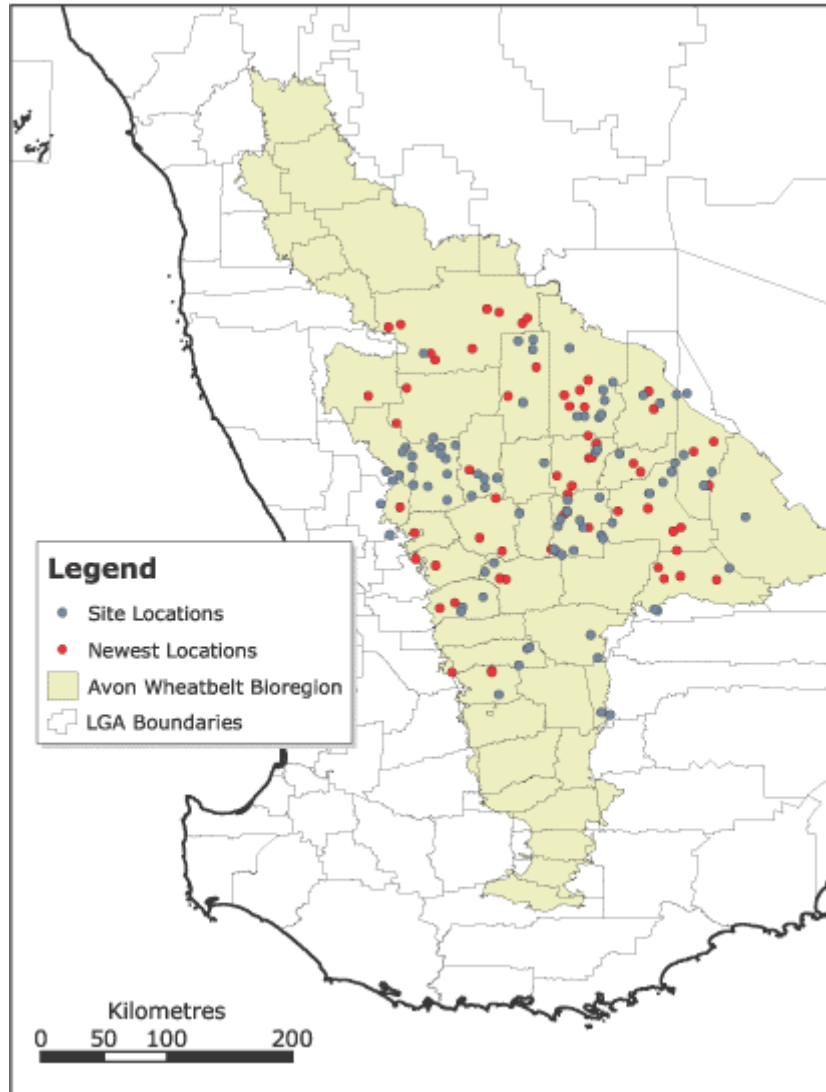
This document draws on information collected and provided by Mike Hislop, and was compiled and edited by Nicholas Lander and Richard McLellan. Document design follows that devised by Alex Chapman for earlier reports in this series. The map was prepared by Paul Gioia and the accompanying web site by Ben Richardson (see **References**). Photographs by Richard McLellan/WWF-Australia.

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Map of Survey Sites



Site Species Lists

For a current listing of all Woodland Watch survey sites, please refer to the Western Australian Herbarium's *FloraBase - Woodland Watch* web site at <http://florabase.calm.wa.gov.au/special/wwatch/>

Site: WW-113 **No. of Species:** 51
Locality: Dalwallinu
Vegetation: *Eucalyptus brachycorys* woodland

Acacia colletioides
Acacia ligustrina
Acanthocarpus canaliculatus
Actinobole uliginosum
**Aira cupaniana*
**Arctotheca calendula*
Arthropodium dyeri
Brachyscome ciliaris
Brachyscome perpusilla
Brachyscome pusilla – A member of a difficult species complex much in need of taxonomic revision
**Brassica tournefortii*
**Bromus rubens*
Calandrinia granulifera
Calotis hispidula
Chthonocephalus pseudevax
Crassula closiana
Crassula colorata var. *acuminata*
Daucus glochidiatus
Enchylaena lanata
Eremophila decipiens
Erodium cygnorum
Eucalyptus brachycorys
Eucalyptus loxophleba subsp. *supralaevis*
Goodenia berardiana
**Hordeum glaucum*
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrate*
Hydrocotyle rugulosa
**Hypochaeris glabra*
Hypoxis glabella var. *glabella*
Maireana marginate
Melaleuca eleuterostachya
Olearia muelleri
Parietaria cardiostegia
**Petrorhagia dubia*
Plantago debilis
Podolepis canescens
Podolepis capillaries
Podotheca gnaphalioides
Rhagodia drummondii
Rhodanthe chlorocephala subsp. *rosea*
Rhodanthe pygmaea
Senecio glossanthus

Stenopetalum gracile
Tetragonia diptera
Thysanotus manglesianus
Trachymene cyanopetala
**Tripteris clandestina*
**Urospermum picroides*
**Vulpia myuros* var. *myuros*
Wahlenbergia gracilentia

Site: WW-114 **No. of Species:** 42

Locality: Kalannie

Vegetation: *Eucalyptus salicola* woodland

Acacia colletioides
Actinobole uliginosum
Alyxia buxifolia
Atriplex paludosa subsp. *baudinii*
Brachyscome pusilla
Calandrinia aff. *corrigioloides*
Calandrinia eremaea
Calandrinia granulifera
Callitris glaucophylla
Calotis hispidula
Crassula colorata
Dodonaea viscosa subsp. *angustissima*
Enchylaena lanata
Eremophila caperata –
Eucalyptus salicola
Exocarpos aphyllus
Goodenia berardiana
Levenhookia leptantha
Lomandra effuse
Maireana trichoptera
Melaleuca eleuterostachya
Olearia dampieri subsp. *eremicola*
Olearia muelleri
* *Pentaschistis airoides*
Pittosporum angustifolium
Plantago debilis
Podolepis capillaries
Podotheca gnaphalioides
Ptilotus obovatus
Rhagodia drummondii
Rhagodia preissii subsp. *preissii*
Rhodanthe pygmaea
Sclerolaena diacantha
Solanum nummularium
Stenopetalum sphaerocarpum
Tetragonia diptera
Thysanotus specki
Trachymene aff. *cyanopetala*
Trachymene pilosa
Triglochin sp.B Flora of Australia
Triglochin sp.C Flora of Australia
Zygophyllum simile

Site: WW-115 **No. of Species:** 46
Locality: Kalannie
Vegetation: *Eucalyptus salubris* woodland

Acacia acuminata
Acacia erinacea
Alyxia buxifolia
Arthropodium dyeri
Blennospora drummondii
Brachyscome perpusilla
Calotis hispidula
Cephalopterum drummondii
Cheilanthes sieberi subsp. *sieberi*
Crassula colorata var. *acuminata*
Daucus glochidiatus
Dodonaea inaequifolia
Enchylaena lanata
Eremophila clarkei
Eremophila oldfieldii subsp. *angustifolia*
Eremophila oppositifolia subsp. *angustifolia*
Erodium cygnorum
Eucalyptus kochii subsp. *plenissima*
Eucalyptus salubris
Goodenia berardiana
Goodenia pusilliflora
Hyalosperma zacchaeus
Hydrocotyle pilifera var. *glabrata*
Isoetopsis graminifolia
Lawrencella rosea
Maireana georgei
Maireana marginata
Maireana trichoptera
Olearia muelleri
Olearia pimeleoides
Podolepis lessonii
Ptilotus exaltatus
Ptilotus gaudichaudii
Ptilotus obovatus
Rhagodia drummondii
Rhodanthe polycephala
Scaevola spinescens
Schoenia cassiniana
Sclerolaena diacantha
Senna artemisioides subsp. *filifolia*
Stenopetalum filifolium
Thysanotus manglesianus
Trachymene ornata
Velleia cycnopotamica
Velleia rosea
Waitzia acuminata var. *acuminata*

Site: WW-116 **No. of Species:** 34
Locality: Pithara
Vegetation: *Eucalyptus subangusta* and *Allocasuarina acutivalvis* mallee woodland

Acacia acuminata
Acacia assimilis S.Moore subsp. *assimilis*

Acacia coolgardiensis Maiden subsp. *coolgardiensis*
Allocasuarina acutivalvis subsp. *acutivalvis*
**Arctotheca calendula*
Blennospora drummondii
Brachyscome perpusilla
Calandrinia –
Calotis hispidula
Ceratogyne obionoides
Cheilanthes sieberi subsp. *sieberi*
Comesperma integerrimum
Daucus glochidiatus
Drosera macrantha subsp. *macrantha*
Ecdeiocolea monostachya
Enchylaena lanata
Eremophila decipiens subsp. *decipiens*
Eucalyptus kochii subsp. *kochii*
Eucalyptus subangusta subsp. *subangusta*
Goodenia berardiana
Hakea invaginata
Hydrocotyle pilifera var. *glabrata*
Hydrocotyle rugulosa
Lawrencella rosea
Melaleuca eleuterostachya
Melaleuca hamata
Phyllangium sulcatum
Pimelea avonensis
Rhodanthe laevis
Senecio glossanthus
Trachymene cyanopetala
Trachymene ornata
Velleia cynopotamica
Waitzia acuminata var. *acuminata*

Site: WW-117

No. of Species: 46

Locality: Dalwallinu

Vegetation: *Eucalyptus longicornis* forest

Acacia acuaria
Acacia erinacea
Acacia hemiteles
Acacia merrallii
Actinobole uliginosum
Atriplex acutibractea subsp. *karoniensis*
* *Brassica tournefortii*
* *Bromus rubens*
Calandrinia eremaea
Calandrinia sp. Blackberry (D.M. Porter 171) - See note above
Calotis hispidula
Crassula colorata var. *colorata*
Daucus glochidiatus
Dodonaea inaequifolia
Enchylaena lanata
Eremophila decipiens subsp. *decipiens*
Eucalyptus longicornis
Eucalyptus wubinensis
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*

Maireana marginata
* *Medicago minima*
Melaleuca acuminata subsp. *websteri*
Melaleuca pauperiflora subsp. *fastigiata*
Menkea australis
Omphalolappula concava
Parietaria cardiostegia
Phlegmatospermum drummondii
Pimelea avonensis
Plantago debilis
Podolepis tepperi
Rhagodia drummondii
Rhagodia preissii subsp. *preissii*
Rhodanthe laevis
Rhodanthe pygmaea
Santalum acuminatum
Sclerolaena diacantha
Sclerolaena drummondii
Senecio glossanthus
* *Spergula pentandra*
Stenopetalum lineare
Trachymene cyanopetala
Trachymene ornata
Trymalium daphnifolium
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*

Site: WW-118

No. of Species: 47

Locality: Dalwallinu

Vegetation: *Eucalyptus salubris*/*salmonophloia* woodland

Acacia anthochaera
Acacia erinacea
Angianthus tomentosus
* *Brassica tournefortii*
Calandrinia corrigioloides
Calandrinia sp. Blackberry (D.M. Porter 171)
Calotis hispidula
Cephalopterum drummondii
* *Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *acuminata*
Daucus glochidiatus
Enchylaena lanata
Eremophila decipiens subsp. *decipiens*
Eremophila oppositifolia subsp. *angustifolia*
Erodium cygnorum
Eucalyptus salmonophloia
Eucalyptus salubris
Hyalosperma glutinosum subsp. *glutinosum*
Hyalosperma zacchaeus
Hydrocotyle pilifera var. *glabrata*
Lepidium oxytrichum
Maireana carnosia
Maireana marginata
Maireana thesioides
Maireana trichoptera
Melaleuca lateriflora subsp. *lateriflora*

Olearia muelleri
Parietaria cardiostegia
Plantago debilis
Ptilotus exaltatus
Ptilotus obovatus
Rhagodia drummondii
**Rostraria pumila*
Scaevola spinescens
**Schismus barbatus*
Schoenia cassiniana
Sclerolaena densiflora
Sclerolaena diacantha
Sclerolaena drummondii
Senecio glossanthus
Senna artemisioides subsp. *x artemisioides*
**Spergula pentandra*
Templetonia sulcata – This species is closely related to *T. smithiana* and can only be reliably separated on fruiting characters. Both species are known to occur in the northern wheatbelt. In the absence of these diagnostic characters, as here, the older name, *T. sulcata* is used.
Thysanotus manglesianus
Trachymene cyanopetala
Trachymene ornata
Zygophyllum ovatum

Site: WW-119 **No. of Species:** 45

Locality: Dalwallinu

Vegetation: *Eucalyptus salubris* woodland

Acacia erinacea
Angianthus tomentosus
Arthropodium dyeri
Austrostipa nitida
**Brassica tournefortii*
Calandrinia sp *Blackberry* (D.M.Porter 171)
Calotis hispidula
Cephalopterum drummondii
**Cleretum papulosum* subsp *papulosum*
Comesperma integerrimum
Crassula colorata var *acuminata*
Daucus glochidiatus
Eremophila oldfieldii subsp *angustifolia*
Eremophila oppositifolia subsp *angustifolia*
**Erodium cicutarium*
Erodium cygnorum
Eucalyptus salubris
Goodenia berardiana
Goodenia pusilliflora
Hydrocotyle pilifera var *glabrata*
Hypoxis glabella var *glabella*
Lepidium oxytrichum – See note above
Maireana marginata
Maireana thesioides
* *Medicago truncatula*
Parietaria cardiostegia
Plantago debilis
Ptilotus exaltatus
Ptilotus holosericeus

Ptilotus obovatus
Rhagodia drummondii
Rhodanthe pygmaea
Scaevola spinescens
Schoenia cassiniana
Sclerolaena diacantha
Sclerolaena drummondii – See note above
Senecio glossanthus
Senna stowardii
**Spergula pentandra*

Site: WW-120

No. of Species: 46

Locality: Dalwallinu

Vegetation: *Eucalyptus loxophleba* subsp. *supralaevis* woodland

Acacia acuarina
Acacia acuminata – See note above
Actinobole uliginosum
Allocasuarina campestris
**Arctotheca calendula*
Blennospora drummondii
Borya sphaerocephala
Brachyscome iberidifolia
Brachyscome perpusilla
Caladenia vulgata
Calandrinia sp. Blackberry (D.M. Porter 171) – See note above
Calotis hispidula
Cephalopterum drummondii
Ceratogyne obionoides
Cheilanthes sieberi subsp. *sieberi*
Chthonocephalus pseudevax
Crassula closiana
Crassula colorata var. *acuminata*
Diuris aff. *recurva* – See note above
Drosera glanduligera
Drosera macrantha subsp. *macrantha*
Drosera subhirtella
Erodium cygnorum
Eucalyptus loxophleba subsp. *supralaevis*
Gilberta tenuifolia
Goodenia berardiana
Grevillea levis
Hyalosperma demissum
Hyalosperma glutinosum Steetz subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*
**Hypochaeris glabra*
Lawrencella rosea
Levenhookia dubia
Melaleuca radula
**Parentucellia latifolia*
Phyllangium sulcatum
Podolepis lessonii
Podotheca gnaphalioides
Rhodanthe manglesii
Rhodanthe spicata
Stylidium confluens
Trachymene cyanopetala

Trachymene ornata
**Tripteris clandestina*
Velleia cycnopotamica
Waitzia acuminata subsp. *acuminata*

Site: WW-121 **No. of Species:** 29
Locality: Pithara
Vegetation: *Eucalyptus salubris/salmonophloia* woodland

Angianthus tomentosus
Atriplex semilunaris
* *Brassica tournefortii*
Calandrinia calyptata
Calandrinia eremaea
Calotis hispidula
Crassula colorata var. *acuminata*
Crassula decumbens var. *decumbens*
Enchylaena lanata
Eucalyptus salubris
Hyalosperma glutinosum subsp. *glutinosum*
Maireana brevifolia
Maireana carnosae
Maireana marginata
* *Medicago truncatula*
Melaleuca pauperiflora subsp. *fastigiata*
Menkea australis
**Pentaschistis airoides*
Podotheca gnaphalioides
**Rostraria pumila*
**Schismus barbatus*
Sclerolaena diacantha
Senecio pinnatifolius
* *Sisymbrium orientale*
* *Spergula pentandra*
Stenopetalum lineare – See note above
Trachymene cyanopetala
* *Vulpia muralis*
Waitzia acuminata var. *acuminata*

Site: WW-122 **No. of Species:** 50
Locality: Kalannie
Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuaria
Acacia acuminata – See note above
Acacia erinacea
Actinobole uliginosum
Alyxia buxifolia
**Brassica tournefortii*
Calandrinia aff. *eremaea*
Calandrinia granulifera
Calotis hispidula
Crassula closiana
Crassula colorata var. *acuminata*
Daucus glochidiatus
Drosera macrantha subsp. *macrantha*

Enchylaena lanata
Eremophila clarkei
Eremophila decipiens
Erodium cygnorum
Eucalyptus loxophleba subsp. *supralaevis*
Exocarpos aphyllus
Gilruthia osbornei
Goodenia berardiana
Grevillea acuararia
Hakea recurva – See note above
Hyalosperma glutinosum subsp. *glutinosum*
Hyalosperma zacchaeus
Hydrocotyle pilifera var. *glabrata*
Lawrencella rosea
* *Lolium perenne* x *rigidum*
Maireana marginata
* *Medicago truncatula*
Olearia muelleri
Plantago debilis
Podolepis lessonii
Podolepis tepperi –
Ptilotus exaltatus
Ptilotus gaudichaudii
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Rhodanthe chlorocephala subsp. *rosea*
Rhodanthe laevis
Rhodanthe pygmaea
Santalum spicatum
Sclerolaena diacantha
Senecio glossanthus
Stellaria filiformis –
Templetonia smithiana
Thysanotus manglesianus
Trachymene cyanopetala
Trachymene ornata
Wahlenbergia gracilentia

Site: WW-123

No. of Species: 40

Locality: Kunonoppin

Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuminata – See note above
Acacia hemiteles
Acacia longispinea
Amphipogon caricinus
Brachyscome ciliaris
Brachyscome perpusilla
Caladenia vulgata
Calotis hispidula
Cheilanthes sieberi subsp. *sieberi*
Crassula colorata var. *colorata*
Cryptandra wilsonii
Cyanicula amplexans
Daucus glochidiatus
Elymus scaber
Erodium cygnorum

Eucalyptus loxophleba subsp. *lissophloia*
Gilberta tenuifolia
Goodenia berardiana
Hyalosperma demissum
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*
Hydrocotyle rugulosa
Lawrencella rosea
Maireana carnosia
Menkea australis
Olearia muelleri
Phebalium tuberculatum
Phyllangium sulcatum
Plantago debilis
Rhagodia drummondii
Rhodanthe laevis
Santalum acuminatum
Schoenia cassiniana
Trachymene cyanopetala
Trachymene ornata
Triglochin sp B Flora of Australia (P.G.Wilson 4294) – See note above
**Tripteris clandestina*
Velleia cycnopotamica
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*

Site: WW-124 **No. of Species:** 26

Locality: Kununoppin

Vegetation: *Eucalyptus salmonophloia* woodland

**Arctotheca calendula*
**Avena fatua*
**Brassica tournefortii*
**Cleretum papulosum* subsp. *papulosum*
**Erodium aureum*
Acacia aestivalis
Acacia hemiteles
Austrodanthonia acerosa
Crassula colorata var. *acuminata*
Daucus glochidiatus
Enchylaena lanata
Eremophila decipiens subsp. *decipiens*
Erodium crinitum – See note above
Erodium cygnorum
Eucalyptus salmonophloia
Hyalosperma glutinosum subsp. *glutinosum*
Lycium australe
**Medicago truncatula*
Pimelea microcephala subsp. *microcephala*
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Rhodanthe pygmaea
Sclerolaena diacantha
Senna artemisioides subsp. *filifolia*
**Sisymbrium orientale*
**Sonchus oleraceus*

Site: WW-125 **No. of Species:** 42
Locality: Bullfinch
Vegetation: *Eucalyptus myriadena* woodland

Acacia acuminata
Acacia colletioides
Acacia merrallii
Actinobole uliginosum
Austrostipa elegantissima
Austrostipa nitida
Brachyscome pusilla
Calandrinia eremaea
Calandrinia granulifera
Calotis hispidula
Crassula colorata var. *colorata*
Enchylaena lanata
Erodium cygnorum
Eucalyptus myriadena subsp. *myriadena*
Exocarpos aphyllus
Goodenia berardiana
Levenhookia leptantha
Lomandra effusa
Lycium australe
Maireana carnosae
Maireana georgei
Maireana marginata
Maireana trichoptera
Olearia exiguiifolia
Olearia muelleri
**Pentaschistis airoides*
Pimelea microcephala subsp. *microcephala*
Podotheca gnaphalioides
Ptilotus exaltatus
Ptilotus gaudichaudii
Ptilotus holosericeus
Ptilotus obovatus
Ptilotus polystachyus var. *polystachyus*
Rhagodia drummondii
Sclerolaena diacantha
Senna artemisioides subsp. *filifolia*
Solanum nummularium
Stellaria filiformis
Stenopetalum filifolium
Thysanotus speckii
Trachymene cyanopetala
Zygophyllum eremaeum

Site: WW-126 **No. of Species:** 40
Locality: Nungarin
Vegetation: *Eucalyptus salubris* woodland

Acacia erinacea
Acacia hemiteles
Acacia sp. – See note above
Austrostipa scabra
Blennospora drummondii

Brachyscome perpusilla
Calandrinia sp. Blackberry (D.M.Porter 171) – See note at Site 117.
Calandrinia eremaea
Calotis hispidula
Crassula colorata var. *acuminata*
Dodonaea viscosa subsp. *angustissima*
Eremophila clarkei
Eremophila drummondii
Erymophyllum tenellum
Eucalyptus capillosa subsp. *capillosa*
Eucalyptus moderata – This taxon was until recently known by the name *E. semivestita* ms.
Eucalyptus salubris
Eucalyptus yilgarnensis
Goodenia berardiana
Grevillea huegelii
Gunniopsis rubra – A Priority 3 taxon.
Maireana georgei
Maireana marginata
Maireana trichoptera
Melaleuca acuminata subsp. *acuminata*
Olearia muelleri
Phebalium tuberosum - A particularly variable species as currently recognized.
Podolepis tepperi
Ptilotus holosericeus
Rhodanthe laevis
Santalum acuminatum
Sclerolaena diacantha
Senecio glossanthus
Stellaria filiformis
Templetonia sulcata – This species is closely related to *T. smithiana* and can only reliably be separated on fruiting characters. Both species are known to occur in the eastern wheat belt. In the absence of these diagnostic characters, as here, the older name – *T. sulcata* is used.
Trachymene cyanopetala
Triglochin sp B Flora of Australia (P.G.Wilson 4294) –
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*
Wilsonia humilis

Site: WW-127

No. of Species: 49

Locality: Bonnie Rock

Vegetation: *Eucalyptus loxophleba* subsp. *lissophloia* woodland

**Pentaschistis airoides*
Acacia acuminata
Acacia colletioides
Actinobole uliginosum
Alyxia buxifolia
Arthropodium dyeri
Austrodanthonia caespitosa
Austrostipa scabra
Borya constricta
Calandrinia calyptrata
Calandrinia granulifera
Calocephalus multiflorus
Calotis hispidula
Chthonocephalus pseudevax
Crassula colorata var. *colorata*

Daucus glochidiatus
Enchylaena lanata
Eremophila clarkei
Eremophila oppositifolia subsp. *angustifolia*
Eremophila papillata
Erodium cygnorum
Eucalyptus loxophleba subsp. *lissophloia*
Gilruthia osbornei
Hyalosperma demissum
Hyalosperma glutinosum subsp. *glutinosum*
Hyalosperma zacchaeus
Leucopogon sp. Yanneymooring (F. Mollemans 3797) – See note above
Maireana carnosa
Maireana georgei
Menkea australis
Olearia muelleri
Olearia pimeleoides
Parietaria cardiostegia
Phebalium megaphyllum x *tuberculosis* – The complex genus *Phebalium* is known for its propensity to produce apparently stabilized hybrids involving various species combinations.
Philotheca brucei subsp. *brucei*
Plantago debilis
Podolepis capillaris
Podolepis lessonii
Podolepis tepperi
Ptilotus drummondii
Ptilotus obovatus
Rhodanthe laevis
Rhodanthe pygmaea
Sclerolaena diacantha
Senna artemisioides subsp. *filifolia*
Trachymene cyanopetala
Trachymene ornata
Velleia cycnopotamica
Zygophyllum apiculatum

Site: WW-128

No. of Species: 37

Locality: Bonnie Rock

Vegetation: *Eucalyptus salmonophloia/salubris* woodland

**Arctotheca calendula*
Acacia nyssophylla
Actinobole uliginosum
Angianthus tomentosus
Aristida contorta
Austrostipa elegantissima
Austrostipa nitida
Calandrinia eremaea
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *acuminata*
Enchylaena lanata
Eremophila caperata
Eremophila decipiens subsp. *decipiens*
Eremophila ionantha
Eucalyptus salmonophloia
Eucalyptus salubris
Exocarpos aphyllus

Hyalosperma glutinosum subsp. *glutinosum*
Maireana carnos
Maireana marginata
Maireana tomentosa subsp. *tomentosa*
Maireana trichoptera
**Medicago truncatula*
Menkea australis
**Mesembryanthemum nodiflorum*
Olearia pimeleoides
Pimelea microcephala subsp. *microcephala*
Podotheca gnaphalioides
Pogonolepis muelleriana
Ptilotus exaltatus
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Sclerolaena diacantha
Sclerolaena drummondii
Sclerolaena fusiformis
Senna artemisioides subsp. *filifolia*
Zygophyllum eremaeum

Site: WW-129

No. of Species: 48

Locality: Beacon

Vegetation: *Eucalyptus salubris*/salmonophloia woodland

**Arctotheca calendula*
Acacia merrallii
Acacia nyssophylla
Actinobole uliginosum
Angianthus tomentosus
Atriplex sp. – Male flowering specimen . In *Atriplex* Section *Dialysex*, to which this collection belongs, it is often necessary to see fruiting females before species can be assigned with confidence.
Austrostipa elegantissima
Austrostipa nitida
**Brassica tournefortii*
Calandrinia eremaea
Calandrinia granulifera
Calotis hispidula
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *colorata*
Enchylaena lanata
Erodium cygnorum
Erymophyllum tenellum -
Eucalyptus salmonophloia
Eucalyptus salubris
Exocarpos aphyllus
Gilruthia osbornei
**Hordeum glaucum*
Hyalosperma glutinosum subsp. *glutinosum*
**Lolium perenne* x *rigidum*
Maireana carnos
Maireana marginata
Maireana trichoptera
**Medicago minima*
**Medicago truncatula*
**Oncosiphon piluliferum* – Formerly known as *Pentzia globifera*.

Parietaria cardiostegia
Plantago debilis
**Pentaschistis airoides*
Podolepis capillaris
Podolepis lessonii
Podotheca gnaphalioides
Pogonolepis muelleriana
**Sisymbrium irio*
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Rhodanthe pygmaea
Sclerolaena diacantha
**Sonchus oleraceus*
**Spergula pentandra*
Senecio glossanthus
Senna artemisioides subsp. *filifolia*
Thysanotus speckii
Zygophyllum eremaeum

Site: WW-130

No. of Species: 47

Locality: Bencubbin

Vegetation: *Eucalyptus salubris* woodland, with *Eucalyptus subangusta*

**Arctotheca calendula*
Acacia mackeyana
Actinobole uliginosum
Allocasuarina acutivalvis subsp. *acutivalvis*
Austrostipa trichophylla
Austrostipa variabilis
Blennospora drummondii
Calandrinia calyptrata
Calandrinia granulifera
Calotis hispidula
Chthonocephalus pseudevax
**Cleretum papulosum* subsp. *papulosum*
Crassula closiana
Crassula colorata var. *acuminata*
Daucus glochidiatus
Dodonaea inaequifolia
Eremophila clarkei
Eremophila papillata
Erodium cygnorum
Eucalyptus salubris
Eucalyptus subangusta subsp. *subangusta*
Gilruthia osbornei
Goodenia berardiana
Hyalosperma demissum
Hydrocotyle pilifera var. *glabrata*
Hypoxis glabella var. *glabella*
Levenhookia leptantha
Maireana marginata
**Medicago polymorpha*
Melaleuca acuminata subsp. *acuminata*
Melaleuca lateriflora subsp. *lateriflora*
Melaleuca scalena
Olearia muelleri
**Pentaschistis airoides*

Phebalium megaphyllum
Phyllangium sulcatum
Plantago debilis
Podolepis lessonii
Podolepis tepperi
Ptilotus holosericeus
Ptilotus spathulatus forma *spathulatus*
Rhodanthe laevis
Trachymene cyanopetala
Trachymene ornata
Velleia cycnopotamica
**Vulpia muralis*
Wahlenbergia gracilenta

Site: WW-131 **No. of Species:** 55

Locality: Bencubbin

Vegetation: *Eucalyptus salmonophloia* woodland

Acacia acuaria
Acacia erinacea
Acacia hemiteles
Acacia mackeyana
Acacia merrallii
Actinobole uliginosum
Austrodanthonia caespitosa
**Bromus rubens*
Calandrinia calyptrata
Calandrinia granulifera
Calotis hispidula
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata A mixed collection of var *colorata* and var *acuminata*.
Daviesia nematophylla
Enchylaena lanata
Eremophila oppositifolia subsp. *angustifolia*
Eremophila papillata
Erymophyllum tenellum
Eucalyptus celastroides susp. *virella*
Eucalyptus salmonophloia
Eucalyptus salubris
Eucalyptus subangusta subsp. *subangusta*
Eucalyptus yilgarnensis
Gilruthia osbornei
Goodenia berardiana
Grevillea huegelii
Gunniopsis rubra – Priority 3 taxon
**Hordeum glaucum*
Hydrocotyle pilifera var. *glabrata*
**Hypochaeris glabra*
Maireana carnosae
Maireana georgei
Maireana marginata
Melaleuca eleuterostachya
Melaleuca scalena
Menkea australis
Millotia tenuifolia var. *tenuifolia*
Olearia muelleri
**Pentaschistis airoides*

Plantago debilis
Podolepis capillaris
Podolepis tepperi
Podotheca gnaphalioides
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Rhodanthe laevis
Sclerolaena diacantha
Senecio glossanthus
**Spergula pentandra*
Thysanotus patersonii
Trachymene cyanopetala
Trachymene ornata
Velleia cycnopotamica
Waitzia acuminata var. *acuminata*

Site: WW-132 **No. of Species:** 52

Locality: Miling

Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuminata
Acacia enervia subsp. *explicata*
Acacia hemiteles
Acacia sericocarpa
**Anagallis arvensis* var. *caerulea*
Angianthus tomentosus
**Arctotheca calendula*
Austrostipa nitida
Brachyscome ciliaris
Brachyscome pusilla – This taxon belongs in the difficult *B. iberidifolia* complex, which is much in need of taxonomic revision. The above name is used rather tentatively here.
**Bromus rubens*
Bulbine semibarbata
Calandrinia eremaea
Calandrinia granulifera
Ceratogyne obionoides
Crassula closiana
Crassula colorata var. *acuminata*
Crassula colorata var. *colorata*
Crassula decumbens var. *decumbens*
Enchylaena lanata
Erymophyllum tenellum
Eucalyptus loxophleba subsp. *loxophleba*
Gonocarpus nodulosus
Goodenia berardiana
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*
**Hypochoeris glabra*
Lawrencella rosea
Maireana marginata
Melaleuca acuminata subsp. *websteri*
Melaleuca adnata
Melaleuca atroviridis
Melaleuca lateriflora subsp. *lateriflora*
Nicotiana rotundifolia
**Parentucellia latifolia*
**Pentaschistis airoides*

Phyllangium sulcatum
Podolepis lessonii
Pogonolepis stricta
Poranthera microphylla
Rhagodia drummondii
Rhodanthe citrina
Rhodanthe manglesii
Senecio glossanthus
**Silene gallica* var. *gallica*
Trachymene cyanopetala
Trachymene ornata
Trachymene pilosa - This is an unusual collection of plants showing typical heteromorphic but also homomorphic fruit types.
Velleia cycnopotamica
**Vulpia muralis*
Wahlenbergia preissii
Waitzia acuminata var. *acuminata*

Site: WW-133 **No. of Species:** 40

Locality: Trayning

Vegetation: *Eucalyptus salubris* woodland

Acacia erinacea
Actinobole uliginosum
Arthropodium dyeri
Austrostipa exilis – Priority 2 taxon.
Austrostipa variabilis
Blennospora phlegmatocarpa – Priority 3 taxon
**Bromus rubens*
Bulbine semibarbata
Calandrinia calyptrata
Calotis hispidula
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *colorata*
Daucus glochidiatus
Daviesia nematophylla
Diuris sp.
Dodonaea larraeoides – See note above
Eremophila oppositifolia subsp. *angustifolia*
Eucalyptus salubris
Goodenia pusilliflora
Hydrocotyle rugulosa
Lachnagrostis plebeia – See note above
Maireana georgei
Maireana marginata
Melaleuca coronicarpa
Melaleuca lateriflora subsp. *lateriflora*
Olearia muelleri
Parietaria cardiostegia
**Pentaschistis airoides*
Phyllangium sp. – See note above
Plantago debilis
Podolepis canescens
Podolepis tepperi
Ptilotus holosericeus
Rhodanthe pygmaea

Rhodanthe rubella
Senecio glossanthus
Stellaria filiformis
Trachymene cyanopetala
Trachymene ornata
Wahlenbergia gracilentia

Site: WW-134 **No. of Species:** 61

Locality: Trayning

Vegetation: *Eucalyptus loxophleba* woodland

**Anagallis arvensis* var. *caerulea*
Arthropodium curvipes
Austrostipa nitida
Austrostipa scabra
Bulbine semibarbata
Calandrinia calyptrata
Calandrinia granulifera
Calotis hispidula
**Cleretum papulosum* subsp. *papulosum*
**Cotula bipinnata*
Crassula colorata var. *acuminata*
Crassula colorata var. *colorata*
Crassula decumbens subsp. *decumbens*
Daucus glochidiatus
**Ehrharta longiflora*
Enchylaena lanata
Erodium cygnorum
Erymophyllum tenellum
Eucalyptus loxophleba subsp. *loxophleba*
Gilberta tenuifolia
Goodenia berardiana
Goodenia pusilliflora
Grevillea paniculata
**Hordeum glaucum*
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*
**Hypochaeris glabra*
Lepidium rotundum
Lomandra effusa
Maireana marginata
Neurachne alopecuroidea
Oxalis perennans - See note above
**Parentucellia latifolia*
Parietaria cardiostegia
**Pentaschistis airoides*
Phyllangium sulcatum
Plantago debilis
Podolepis canescens
Podolepis capillaris
Podolepis lessonii
Podolepis tepperi
Ptilotus divaricatus var. *divaricatus*
Ptilotus spathulatus forma *spathulatus*
Rhodanthe manglesii
Rhodanthe pygmaea

Rhodanthe spicata
Scaevola spinescens
Schoenia cassiniana
Sclerolaena diacantha
Senecio glossanthus
Stylobasium australe
Trachymene cyanopetala
Trachymene ornate
**Tripteris clandestina*
**Ursinia anthemoides*
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*
Waitzia nitida

Site: WW-135

No. of Species: 45

Locality: Doodlakine

Vegetation: *Eucalyptus salmonophloia* woodland, with *Eucalyptus longicornis*

Acacia dissona var. *dissona*
Acacia hemiteles
Acacia merrallii
Asteridea athrixioides
Austrodanthonia caespitosa
Austrostipa elegantissima
Austrostipa nitida
Austrostipa scabra
**Avena fatua*
**Brassica tournefortii*
Calandrinia calyptrata
Calandrinia eremaea
Calandrinia sp Blackberry (D.M.Porter 171) – See note above
Calotis hispidula
**Carrichtera annua*
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *acuminata*
Crassula colorata var. *colorata*
Daucus glochidiatus
Dodonaea viscosa subsp. *angustissima*
**Ehrharta longiflora*
Enchylaena lanata
Eremophila decipiens subsp. *decipiens*
Eremophila drummondii
Eremophila ionantha
Eremophila oppositifolia subsp. *angustifolia*
**Erodium aurium*
Erodium cygnorum
Eucalyptus longicornis
Eucalyptus salmonophloia
Exocarpos aphyllus
Maireana carnosia
Maireana georgei
**Medicago truncatula*
Melaleuca lanceolata – This is the inland variant of the species formerly known as subsp. *thaeroides*
Pittosporum angustifolium
Pogonolepis muelleriana
Rhagodia drummondii

Rhagodia preissii subsp. *preissii*
Santalum acuminatum
Sclerolaena diacantha
Senecio glossanthus
Senna artemisioides subsp. *filifolia*
Templetonia sulcata
Zygophyllum eremaeum

Site: WW-136

No. of Species: 36

Locality: Narembeen

Vegetation: *Eucalyptus salmonophloia* woodland with *E. salubris* & *E. sheathiana*

Acacia erinacea
Acacia hemiteles
Allocasuarina acutivalvis subsp. *acuivalvis*
Blennospora drummondii
Calandrinia calyptrata
Calotis hispidula
Crassula colorata var. *acuminata*
Crassula decumbens var. *decumbens*
Daucus glochidiatus
Daviesia argillacea
Dodonaea bursariifolia
Eucalyptus calycogona subsp. *calycogona*
Eucalyptus capillosa subsp. *polyclada*
Eucalyptus salmonophloia
Eucalyptus sheathiana
Eucalyptus tephroclada
Grevillea huegelii
Melaleuca acuminata subsp. *acuminata*
Melaleuca eleuterostachya
Melaleuca scalena
Menkea australis
Millotia tenuifolia var. *tenuifolia*
Olearia muelleri
**Pentaschistis airoides*
Phebalium megaphyllum
Podolepis tepperi
Poranthera microphylla
Rhodanthe laevis
Senecio glossanthus
Thysanotus patersonii
Trachymene cyanopetala
Velleia cycnopotamica
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*
**Zaluzianskya divaricata*

Site: WW-137

No. of Species: 34

Locality: Narembeen

Vegetation: *Eucalyptus salubris* woodland, with *E. yilgarnensis*

Acacia acuminata
Acacia erinacea
Acacia merrallii
Actinobole uliginosum

Allocasuarina acutivalvis subsp. *acutivalvis*
Alyxia buxifolia
Austrostipa elegantissima
Austrostipa trichophylla
Baeckea sp. Tampia Hill (J.C. Anway 327) – See note above
Brachyscome perpusilla
Calandrinia calyptrata
Callitris canescens
Calotis hispidula
Daucus glochidiatus
Eremophila drummondii
Eucalyptus capillosa subsp. *polyclada*
Eucalyptus loxophleba subsp. *lissophloia*
Eucalyptus salubris
Eucalyptus tephroclada
Eucalyptus yilgarnensis
Grevillea acuaria – See note above
Gunniopsis rubra - Priority 3 taxon.
Hyalosperma demissum
Hydrocotyle pilifera var. *glabrata*
Maireana georgei
Olearia muelleri
Phebalium megaphyllum
Podolepis tepperi
Sclerolaena diacantha
Senna artemisioides subsp. *filifolia*
Templetonia sulcata – This species is closely related to *T. smithiana* and can only reliably be separated on fruiting characters. Both species are known to occur in the eastern wheat belt. In the absence of these diagnostic characters, as here, the older name *T. sulcata* is used.
Thysanotus patersonii
Trymalium daphnoides
Velleia cycnopotamica

Site: WW-138

No. of Species: 49

Locality: Narembeen

Vegetation: *Eucalyptus loxophleba* subsp. *lissophloia* woodland

**Avellinia michelii*
**Brassica tournefortii*
**Bromus rubens*
Chthonocephalus pseudevax
Calandrinia granulifera
Calandrinia eremaea
Eucalyptus olivina
Eucalyptus sporadica
Eucalyptus sheathiana
Caladenia roei
Diuris sp.
Acacia acutata
Acacia assimilis subsp. *assimilis*
Acacia graniticola
Acacia lasiocalyx
Actinobole uliginosum
Aristida contorta
Austrodanthonia acerosa

Austrostipa elegantissima
Austrostipa nitida
Austrostipa scabra
Borya constricta
Brachyscome iberidifolia
Calandrinia calyptrata
Calytrix leschenaultii
Crassula colorata var. *acuminata*
Crassula exserta
Dampiera lavandulacea
Desmocladius asper
Eremophila drummondii
Eucalyptus loxophleba subsp. *lissophloia*
Grevillea huegelii
Grevillea levis -
Lepidosperma resinum – See note above
Leptospermum roei
Millotia tenuifolia var. *tenuifolia*
Opercularia vaginata
**Pentaschistis airoides*
Pityrodia teckiana
Podolepis capillaris
Podolepis lessonii
Podotheca gnaphalioides
Stackhousia muricata
Thysanotus patersonii
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*
Westringia rigida
**Vulpia muralis*

Site: WW-139

No. of Species: 51

Locality: Hines Hill

Vegetation: *Eucalyptus salicola* woodland, with *Eucalyptus brachycorys*

Acacia colletioides
Acacia hemiteles
Actinobole uliginosum
Amyema miquelii
Austrodanthonia acerosa
Austrodanthonia acerosa
Austrostipa elegantissima
Austrostipa nitida
Bertya dimerostigma - See note above
Blennospora phlegmatocarpa
Brachyscome pusilla – See note above
**Brassica tournefortii*
Calandrinia eremaea
Callitris glaucophylla
**Cleretum papulosum* subsp. *papulosum*
Crassula colorata var. *colorata*
Crassula exserta
Cryptandra wilsonii
Daviesia nematophylla
Enchylaena lanata
Eremophila drummondii
Eucalyptus brachycorys

Eucalyptus myriadena subsp. *myriadena*
Eucalyptus salicola
Eucalyptus yilgarnensis
Goodenia berardiana
Gunniopsis rubra -- Priority 3 taxon.
Hyalosperma glutinosum subsp. *glutinosum*
Lepidosperma sp. A2 Island Flat (G.J. Keighery 7000) –
Lomandra effusa
Melaleuca hamata
Menkea australis
Olearia dampieri subsp. *eremicola*
Olearia muelleri
**Pentaschistis airoides*
Phebalium lepidotum – See note above
Podolepis capillaris
Podotheca angustifolia
Poranthera microphylla
Ptilotus gaudichaudii
Ptilotus spathulatus forma *spathulatus*
Rhagodia drummondii
Sarcozona praecox
Stenopetalum filifolium
Thysanotus manglesianus
Thysanotus speckii
Trachymene cyanopetala
Velleia cycnopotamica
Waitzia acuminata var. *acuminata*
Westringia cephalantha
Zygophyllum eremaeum

Site: WW-140

No. of Species: 53

Locality: Popanyinning

Vegetation: *Eucalyptus wandoo* subsp. *wandoo* woodland

Acacia erinacea –
Acacia lasiocarpa var. *sedifolia*
Allocasuarina huegeliana
**Anagallis arvensis* var. *caerulea*
Astroloma serratifolium
Baeckea crispiflora
Blennospora drummondii
Borya sphaerocephala
Brachyscome perpusilla
Caesia micrantha
Caladenia falcata
Caladenia flava subsp. *flava*
Ceratogyne obionoides
Chamaescilla corymbosa var. *corymbosa*
Comesperma volubile
Conostylis pusilla
Cryptandra arbutiflora var. *arbutiflora*
Cryptandra nutans
Dampiera lindleyi
Daviesia hakeoides subsp. *subnuda*
Diuris sp.
Dodonaea pinifolia

Drosera macrantha subsp. *macrantha*
Dryandra fraseri var. *fraseri*
Eucalyptus phenax
Eucalyptus wandoo subsp. *wandoo*
Gastrolobium parviflorum
Gastrolobium stowardii
Glischrocaryon aureum var. *aureum*
Hakea lissocarpha
Hibbertia commutata
Hibbertia exasperatae – See note above
Hydrocotyle callicarpa
Hydrocotyle pilifera var. *glabrata*
Lagenophora huegelii
Lepidosperma brunonianum – See note above
Neurachne alopecuroidea
Opercularia vaginata
Oxalis perennans – See note above
Phyllangium sulcatum
Podolepis gracilis
Rhodanthe laevis
Rhodanthe manglesii
**Romulea rosea* var. *communis*
Schoenus nanus
Stylidium tenuicarpum - Priority 4 taxon.
Synaphea interioris – As currently recognized this is a broadly circumscribed species with a number of more or less distinct variants.
Tetratheca confertifolia
Thomasia foliosa
Thysanotus patersonii
Trachymene pilosa
Westringia rigida
Velleia cynopotamica

Site: WW-141

No. of Species: 34

Locality: Quairading

Vegetation: *Eucalyptus wandoo* subsp. *wandoo* woodland, with *Eucalyptus argyphaea*

Acacia phaeocalyx – Priority 3 taxon.
Allocasuarina campestris
Baeckea crispiflora
Blennospora drummondii
Comesperma scoparium
Crassula closiana
Dampiera lavandulacea
Dampiera oblique
Drosera macrantha subsp. *macrantha*
Dryandra armata var. *ignicida*
Eucalyptus argyphaea
Eucalyptus wandoo subsp. *wandoo*
Gastrolobium trilobum
Glischrocaryon aureum var. *aureum*
Grevillea insignis subsp. *insignis*
Grevillea spinosissima
Hakea nitida – See note above
Hakea subsulcata
Hibbertia hemignosta – Formerly known as *H. enervia*
Hypocalymma angustifolium subsp. *angustifolium*

Lepidosperma sp A2 Island Flat (G.J.Keighery 7000) - See note above
Leptospermum erubescens
Melaleuca tuberculata var. *tuberculata*
Millotia tenuifolia var. *tenuifolia*
Podotheca angustifolia
Poranthera microphylla
Rhodanthe laevis
Stylidium coroniforme – See note above
Thysanotus patersonii
Trachymene cyanopetala
Trachymene pilosa
Velleia cycnopotamica
Verticordia chrysantha
Wahlenbergia preissii

Site: WW-142

No. of Species: 49

Locality: Kellerberrin

Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuminata
Acacia lasiocalyx
**Aira cupaniana*
Allocasuarina huegeliana
**Arctotheca calendula*
Austrodanthonia caespitosa
Austrostipa nitida
Austrostipa scabra
Blennospora drummondii
Borya sphaerocephala
**Briza maxima*
**Bromus rubens*
Caesia micrantha
Caladenia hirta subsp. *rosea*
Calandrinia calyptrata
Ceratogyne obionoides
Cheilanthes sieberi subsp. *sieberi*
Crassula closiana
Crassula extrorsa
Cyanicula gemmata
Erodium cygnorum
**Ehrharta longiflora*
Eucalyptus loxophleba subsp. *loxophleba*
Gonocarpus nodulosus
Hakea recurva subsp. *recurva*
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle callicarpa
Hydrocotyle pilifera var. *glabrata*
**Hypochaeris glabra*
Lawrencella rosea
Neurachne alopecuroidea
Nicotiana rotundifolia
**Parentucellia latifolia*
Phyllangium sulcatum
Podolepis lessonii
Podotheca angustifolia
Podotheca gnaphalioides
Poranthera microphylla

Rhodanthe citrina
Rhodanthe laevis
Rhodanthe manglesii
Schoenus nanus
Siloxerus multiflorus
Solanum cleistogamum
Trachymene ornata
**Ursinia anthemoides*
Velleia cycnopotamica
Wahlenbergia preissii
Waitzia acuminata var. *acuminata*

Site: WW-143 **No. of Species:** 52

Locality: Cunderdin

Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuminata
**Aira cupaniana*
Allocasuarina campestris
Allocasuarina huegeliana
**Anagallis arvensis* var. *caerulea*
Arthropodium dyeri
Blennospora drummondii
Borya sphaerocephala
Brachyscome perpusilla
Calandrinia calyptrata
Cheilanthes sieberi subsp. *sieberi*
Crassula closiana
Dampiera lavandulacea
Drosera macrantha subsp. *macrantha*
Drosera stricticaulis
Drosera subhirtella
Eucalyptus loxophleba subsp. *loxophleba*
Gastrolobium obovatum
Gilberta tenuifolia
Gonocarpus nodulosus
Goodenia berardiana
Grevillea paniculata
Hibbertia rupicola
Hyalosperma demissum
Hydrocotyle callicarpa
Hydrocotyle pilifera var. *glabrata*
Lepidosperma aff. *costale* – See note above
Lepidosperma costale
Levenhookia dubia
Neurachne alopecuroidea
**Parentucellia latifolia*
Phyllangium sulcatum
Podolepis canescens
Podolepis lessonii
Podotheca gnaphalioides
Poranthera microphylla
Rhodanthe citrina
Rhodanthe laevis
Rhodanthe manglesii
Rhodanthe polycephala
**Romulea rosea* var. *australis*

Schoenus nanus
Siloxeros multiflorus
Sowerbaea laxiflora
Stenanthemum tridentatum -- Priority 4 taxon.
Stylidium calcaratum
Thysanotus patersonii
Trachymene cyanopetala
Trachymene ornata
Velleia cycnopotamica
Wahlenbergia gracilentia
Waitzia acuminata var. *acuminata*

Site: WW-144 **No. of Species:** 49

Locality: York

Vegetation: *Eucalyptus loxophleba* woodland

Acacia lasiocalyx
Acaia acuminata
**Aira cupaniana*
Allocasuarina huegeliana
**Anagallis arvensis* var. *caerulea*
Aphelia brizula
**Arctotheca calendula*
**Avena barbata*
Blennospora drummondii
**Briza maxima*
**Briza minor*
Burchardia umbellata
Caesia micrantha
Calandrinia calyptrate
Cheilanthes sieberi subsp. *sieberi*
Comesperma integerrimum
Dioscorea hastifolia
Dodonaea viscosa subsp. *angustissima*
Drosera macrantha subsp. *macrantha*
**Ehrharta longiflora*
**Erodium botrys*
Eucalyptus loxophleba subsp. *loxophleba*
**Galium murale*
Gonocarpus nodulosus
Goodenia berardiana
Hibbertia rupicola
Hyalosperma glutinosum subsp. *glutinosum*
Hydrocotyle pilifera var. *glabrata*
**Hypochaeris glabra*
Labichea lanceolata subsp. *brevifolia*
Lagenophora huegelii
Lawrencella rosea
Linum marginale
**Parentucellia latifolia*
Parietaria debilis
Phyllangium sulcatum
Phyllanthus calycinus
Pimelea argentea
Podolepis lessonii
Ptilotus polystachyus var. *polystachyus*
Rhodanthe corymbosa

Rhodanthe manglesii
**Romulea rosea* var. *australis*
Sowerbaea laxiflora
Stylidium emarginatum subsp. *emarginatum*
Stylidium tenuicarpum – Priority 4 taxon.
Stypandra glauca
Trachymene ornata
**Ursinia anthemoides*

Site: WW-145 **No. of Species:** 44

Locality: York

Vegetation: *Eucalyptus loxophleba* woodland

Acacia acuminata
**Aira cupaniana*
**Arctotheca calendula*
**Avena barbata*
Austrodantonia caespitosa
Austrostipa elegantissima
Austrostipa tenuifolia
Borya sphaerocephala
**Brachypodium distachyon*
**Briza maxima*
Burchardia umbellata
Caesia micrantha
Cheilanthes sieberi subsp. *sieberi*
Dioscorea hastifolia
Drosera macrantha subsp. *macrantha*
Drosera macrophylla subsp. *monantha*
Drosera stricticaulis
**Ehrharta longiflora*
**Erodium botrys*
Erodium cygnorum
Eucalyptus loxophleba subsp. *loxophleba*
Hyalosperma glutinosum subsp. *glutinosum*
**Hypochaeris glabra*
Lawrencella rosea
**Lupinus cosentinii*
Neurachne alopecuroidea
**Parentucellia latifolia*
Podolepis lessonii
Pterostylis sanguinea
Ptilotus declinatus
Ptilotus polystachyus var. *polystachyus*
Rhodanthe manglesii
**Romulea rosea* var. *australis*
Siloxerus multiflorus
Sowerbaea laxiflora
Thysanotus manglesianus
Thysanotus manglesianus – See note above
Thysanotus patersonii
Trachymene cyanopetala
Trachymene ornata
**Tripteris clandestina*
**Ursinia anthemoides*
Velleia cycnopotamica
Waitzia nitida

Site: WW-146

No. of Species: 41

Locality: York

Vegetation: *Eucalyptus wandoo* woodland with *Eucalyptus accedens*

Acacia celastrifolia
Acacia pulchella -
Astroloma epacridis
Blennospora drummondii
Boronia ramosa subsp. *anethifolia*
Bossiaea eriocarpa
Conostylis setigera subsp. *setigera*
Dampiera lavandulacea
Dryandra nobilis subsp. *nobilis*
Eucalyptus accedens
Gahnia australis
Gastrolobium cyanophyllum
Gastrolobium parviflorum
Gastrolobium villosum
Gompholobium confertum
Hibbertia hypericoides
Hibbertia ovata / *H. montana* intermediate. – See note above
Hovea chorizemifolia
Lagenophora huegelii
Lepidosperma obtusum – See note above
Lomandra nutans – – See note above
Macrozamia fraseri
Melaleuca holosericea
Millotia tenuifolia var. *tenuifolia*
Monotaxis bracteatae
Neurachne alopecuroidea
Olearia rudis
Patersonia drummondii subsp. *drummondii* – See note above
Persoonia quinquenervis
Phyllanthus calycinus
Poranthera microphylla
Pterochaeta paniculata
Rhodanthe corymbosa
Stackhousia monogyna
Stylidium caricifolium
Stylidium ciliatum
Tetralthea confertifolia
Tetralthea virgata
Thysanotus patersonii
Trachymene cyanopetala
Trachymene pilosa

Site: WW-147

No. of Species: 46

Locality: Northam

Vegetation: *Eucalyptus loxophleba* woodland

Abutilon cryptopetalum – See note above
Acacia acuminata
**Aira cupaniana*
Allocasuarina huegeliana
**Arctotheca calendula*
Austrostipa nitida

Austrostipa variabilis
**Avena barbata*
Borya sphaerocephala
**Brachypodium distachyon*
**Bromus rubens*
Cheilanthes sieberi subsp. *sieberi*
Crassula colorata var. *acuminata*
Crassula decumbens var. *decumbens*
Crassula extrorsa
Dioscorea hastifolia
Drosera macrantha subsp. *macrantha*
**Ehrharta longiflora*
**Erodium botrys*
Erodium cygnorum
Eucalyptus loxophleba subsp. *loxophleba*
Gastrolobium spinosum
Gilberta tenuifolia
Grevillea vestita subsp. *vestita*
Hibbertia rupicola
Hyalosperma glutinosum subsp. *glutinosum*
**Hypochaeris glabra*
**Moraea miniata*
Neurachne alopecuroidea
Nicotiana rotundifolia
**Pentaschistis airoides*
**Petrorhagia dubia*
Phyllangium sulcatum
Phyllanthus calycinus
Pimelea argentea
Ptilotus declinatus
Ptilotus polystachyus var. *polystachyus*
Quinetia urvillei
Rhodanthe manglesii
**Romulea rosea* var. *communis*
Syandra glauca
Thysanotus tenellus
**Trifolium arvense* var. *arvense*
**Trifolium subterraneum*
**Ursinia anthemoides*
**Vulpia myuros* var. *myuros*

Site Records Identified to Genus

The Woodland Watch 2004 survey collected some voucher specimens that could not be readily identified. In some cases these are non-flowering or fruiting specimens and thus are inadequate to determine to species level. In other cases, specialist knowledge of a genus was not available at the time of determination. Because the material is vouchered in the WA Herbarium collection, it may later be studied by specialists and then reliably named. The current name of these and other Woodland Watch specimens can be found at the web site (see **References**).

Site 122*Calandrinia* sp.**Site 129***Atriplex* sp.**Site 140***Diuris* sp.**Site 123***Acacia* sp.**Site 133***Diuris* sp.
Phyllangium sp.