



TERN
AusPlots

Summary of Sites on Credo Conservation Reserve

October 2012 – January 2014



Eucalyptus salmonophloia mid open Woodland, Credo Conservation Reserve



tern.org.au | tern@uq.edu.au | +61 (0)7 3365 9097



Supported by

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Acknowledgments

Ausplots Rangelands gratefully acknowledges the staff at Credo Conservation Reserve and at the WA Department of Parks and Wildlife, in particular Nick Casson and Stephen Van Leeuwen for their help and support in the project and for allowing access to the property. Thanks also to the many other volunteers who have helped with data curation and sample processing. Thanks also to Mike Hislop and the staff from the WA Herbarium for undertaking the plant identifications.

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Introduction

Between October 2012 and January 2014, AusPlots, part of the Terrestrial Ecosystems Research Network (TERN), undertook surveys Credo Conservation Reserve, Western Australia. The surveys involved vegetation and soils work following the AusPlots Rangelands methodology, with 13 plots completed. The plots are part of over 580 plots completed nationally. Figure 1 shows the national AusPlots plot network, and Figure 2 shows the locations of the plots on Credo Conservation Reserve.

This report provides a snapshot of some of the data which was collected during the survey work. A more detailed description of the methods used can be found online in our *AusPlots Rangelands Survey Protocols Manual* (White *et al.* 2012), available from our website www.ausplots.org.

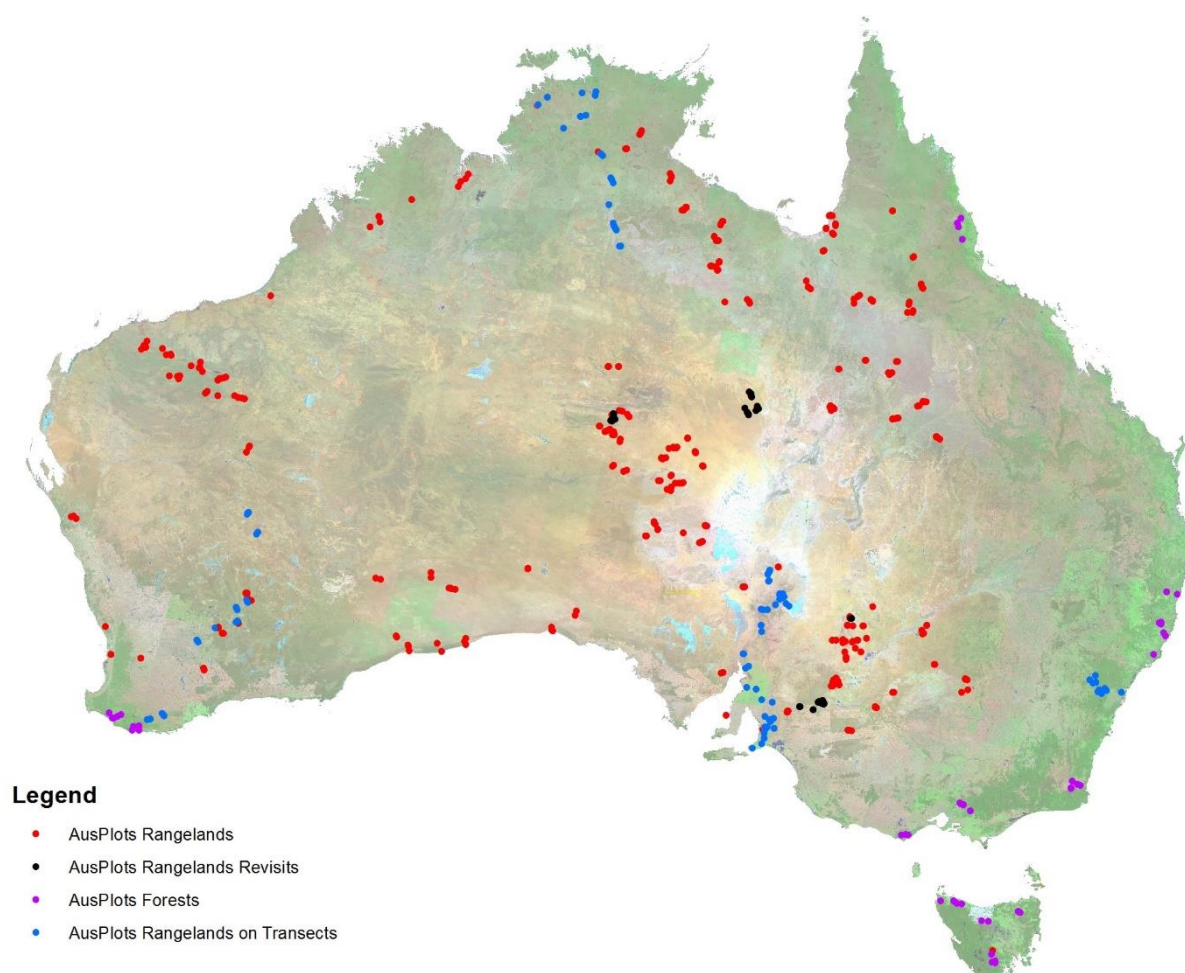


Figure 1. AusPlots plot network

LandSat Image used courtesy of the Commonwealth Department of the Environment



Figure 2. AusPlots Rangelands plot locations Credo Conservation Reserve

Topographic data copyright Geoscience Australia

Accessing the Data

All of the data the AusPlots collects is freely available online through the AEKOS data portal at www.aekos.org.au. It can also be viewed on the Soils to Satellites website which contains a range of useful visualisations sourced from the Atlas of Living Australia. At <http://www.soils2satellites.org.au/>.

Point intercept data

The point intercept method is a straightforward method that is readily repeatable and requires little instruction to produce reliable plot information. It provides accurate benchmark data at each plot including substrate type and cover; as well as species structural information such as growth form, height, cover and abundance and population vertical structure. The demographic information produced at each plot can be compared spatially to indicate plot differences, and temporally to indicate change over time. Additionally, the cover data collected at each plot can be used to validate cover data extrapolated through remote sensing techniques.

Plant collections

Each species that is found within the plot has a herbarium grade sample taken. These have all been formally identified by the NT herbarium. Much of the material is then lodged at the NT herbarium or at the Ausplots facility in Adelaide.

Leaf tissue samples

All of the above samples also have leaf tissue samples taken. This involves placing leaf samples from each species into a cloth bag and drying them on silica desiccant. All of the dominant species have an extra 4 samples collected. These samples are available for use on application to Ausplots facility in Adelaide. They are able to be used for genetic analysis, Isotopic composition and range of other uses.

Site description information

Contextual information is also collected at each site. This includes measures of slope an aspect, surface strew and lithology, and information on the grazing and fire history of the site. The sites location is also recorded with a differential GPS and the plot corners and centres (with landholder permission) marked with a star picket.

Structural summary

Detailed structural summary information is also collected at each site. When combined with the height and cover information from the point intercept data it enables the creation of structural description compatible with and NVIS level 5 description.

Leaf Area Index

In plots where a mid and/or upper canopy is present a measure of Leaf Area is recorded. The tool used is an LAI-2200 and it captures LAI measurements in a range of canopies using one or two sensors attached to a single data logger (LI-COR 1990). The LAI data has a range of potential application such as studies of canopy growth, canopy productivity, woodland vigour, canopy fuel load, air pollution deposition, modelling insect defoliation, remote sensing, and the global carbon cycle.

Basal area

Basal area measurements are collected across plots where woody biomass is taller than 2m. Basal area measurements provide information useful for calculating biomass and carbon levels and for structural studies. The wedge aperture, the length of string – 50 cm (and hence the distance from the eye and subsequent angle from the eye to the edges of the wedge aperture) and species count are all important in calculations. Algorithms developed for use with the basal wedge include the above data to calculate plant basal area on a per hectare basis even though species are counted outside the one hectare plot area. The method is plotless but used because it is based on the

concept of circles (trunks/basal area) within circles (circular plots) – the area of one varies proportionally to the change in the area of the other. Use of the basal wedge may be superseded by further improvement of the 3D photo point method and development of algorithms to provide information on vegetation community structure.

Soil classification

Soils descriptions i.e. information recorded, number of recordings and coverage of locations, are generally poor across the rangelands region of Australia. The plot descriptions and soil characterisations collected will substantially alleviate this paucity of information. The data collected can also be used to increase the reliability of the rangelands component of the Soil and Landscape Grid of Australia, produced by the TERN facility consistent with the Global Soil Map specifications. Analyses of the collected samples will greatly enhance the level of knowledge (e.g. nutrient and carbon levels) and hence understanding of rangelands soils and how they will respond to climate change and management options. It is hoped to eventually be able to analyse all 9 of the soil pits from within the plot using a number of different methods e.g. wet chemistry, MIR or NIR (mid infrared spectrometry or near infrared spectroscopy) either individually to provide a measure of variation of the parameter being measured across a plot or bulked together and a sub-sample extracted and analysed to provide a mean value for that parameter across a plot.

Soil meta barcoding samples

Metagenomics is the study of genetic material recovered directly from environmental samples. Soil metagenomics provides the opportunity to understand what organisms are present at survey plots and provides an indication on their abundance. The collection techniques result in a bias towards higher order organisms. All of the Ausplots Credo Conservation Reserve have soil meta barcoding samples collected.

Soil bulk density

The soil bulk density (BD), also known as dry bulk density, is the weight of dry soil divided by the total soil volume. The total soil volume is the combined volume of solids and pores which may contain air or water, or both. The average values of air, water and solid in soil are easily measured and are a useful indication of a soils physical condition. Soil test results are most often presented either as a percentage of soil (e.g. % organic carbon) or as a weight per unit of soil (e.g. nitrogen, mg/kg). As bulk density is a measure of soil weight in a given volume, it provides a useful conversion from these units to an area basis unit (e.g. t/ha). The resulting number gives an easily understandable idea of the carbon storage or nutritional status of the soil on an area basis.

3D Photo Panorama

AusPlots uses a three-dimensional method for photographing the site. This involves taking three 360 degree panoramas in a triangular pattern. This allows the creation of a 3D model of the vegetation within the site which can be used to monitor change over time, track plot condition as well as providing a unique, fast measurement of basal area and biomass. A subset of these photo panoramas is shown below.



WAACOO0020



WAACOO0021



WAACOO0022



WAACOO0023



WAACOO0024



WAACOO0025



WAACOO0026



WAACOO0027



WAACOO0028



WAACOO0029



WAGCOO0001



WAGCOO0002



WAGCOO0004

Regional Context

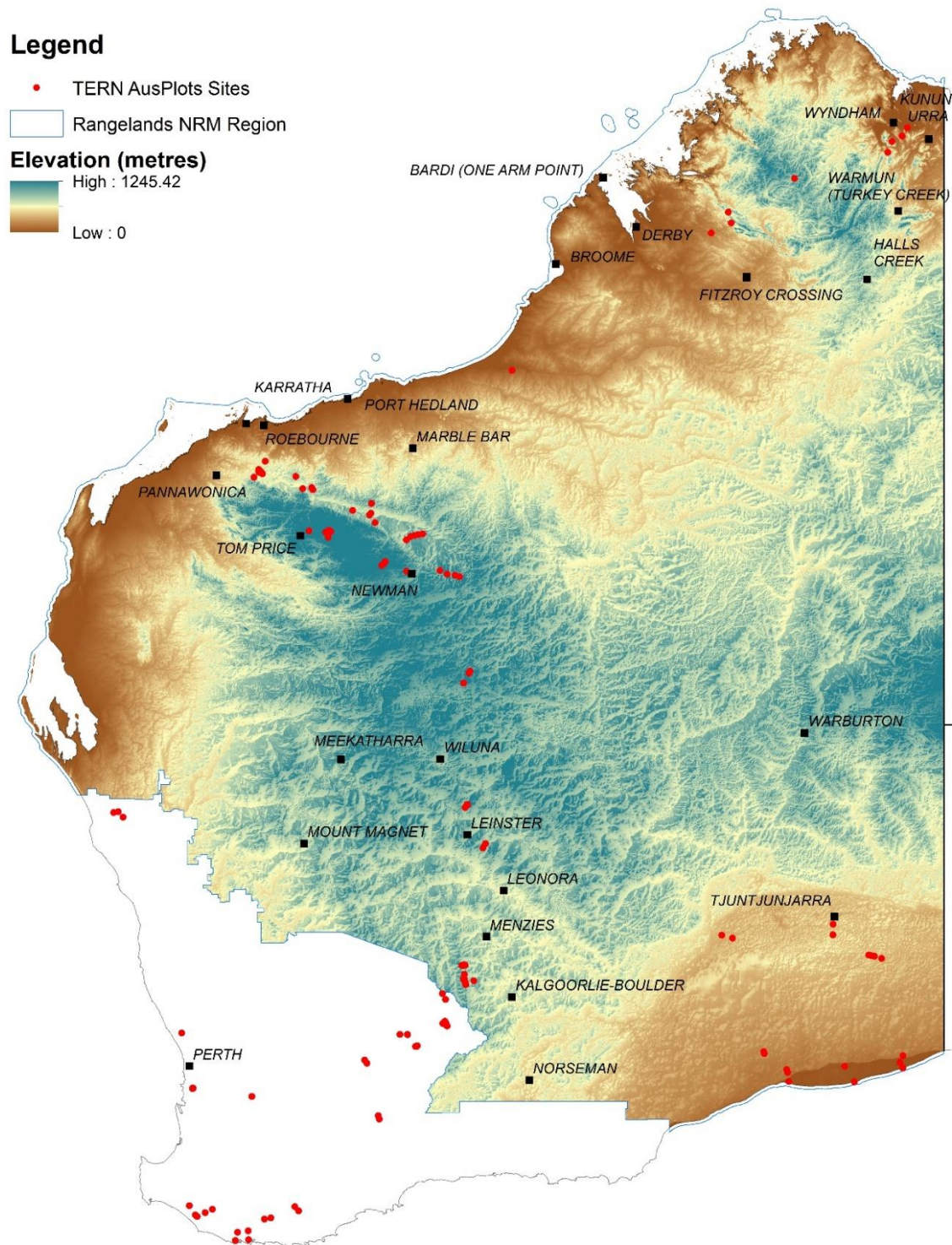


Figure 3. Modelled 9s elevation

Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

Legend

- TERN AusPlots Sites
- Pastoral Stations
- Protected Areas
- Rangelands NRM Region

TERN AusPlots Sites Rangelands NRM Region WA

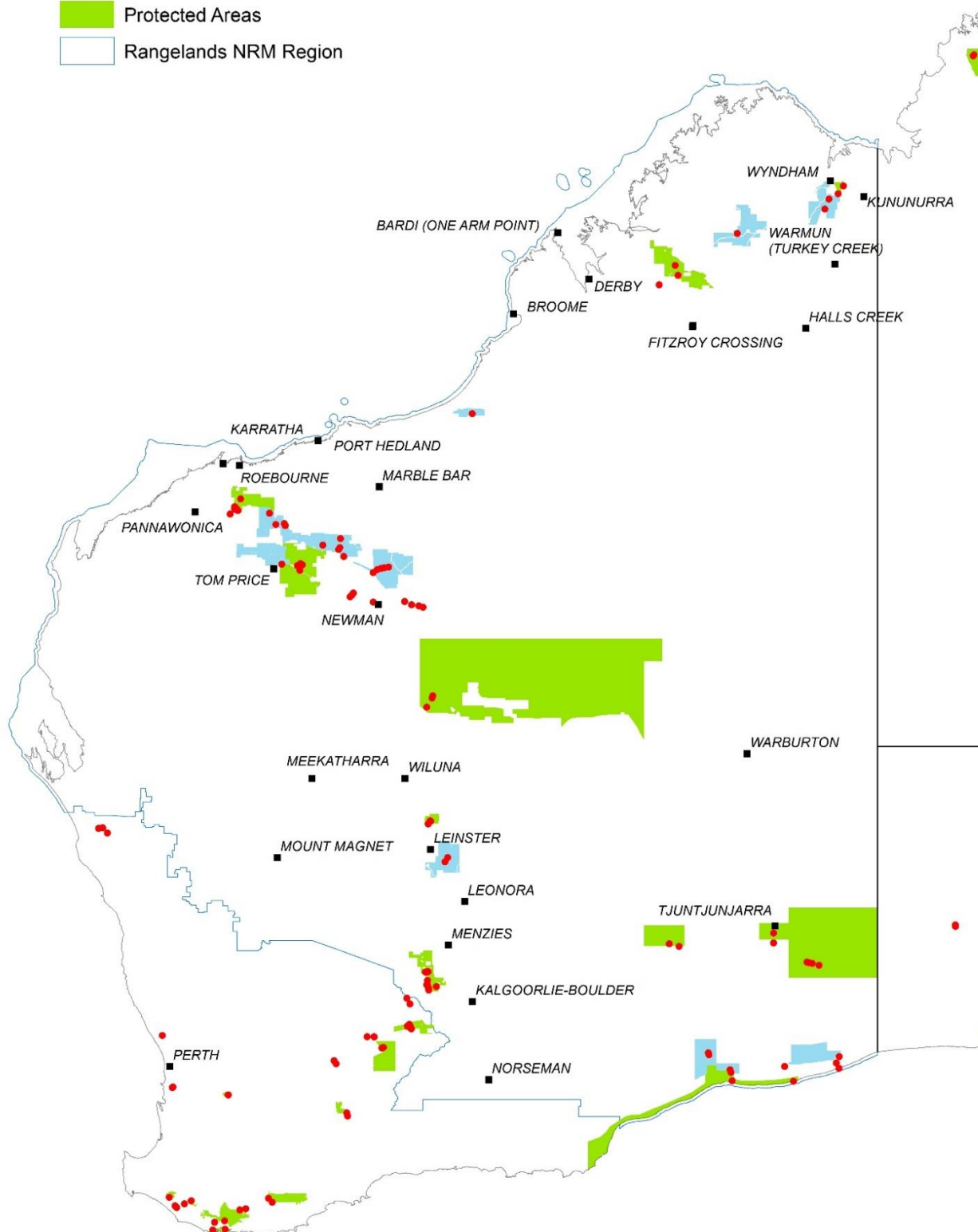


Figure 4. Conservation and pastoral land use
CAPAD 2014 © Commonwealth of Australia

Legend

- TERN AusPlots Sites

□ Rangelands NRM Region

Mean Annual Temperature

High : 29.7
Low : 16.0

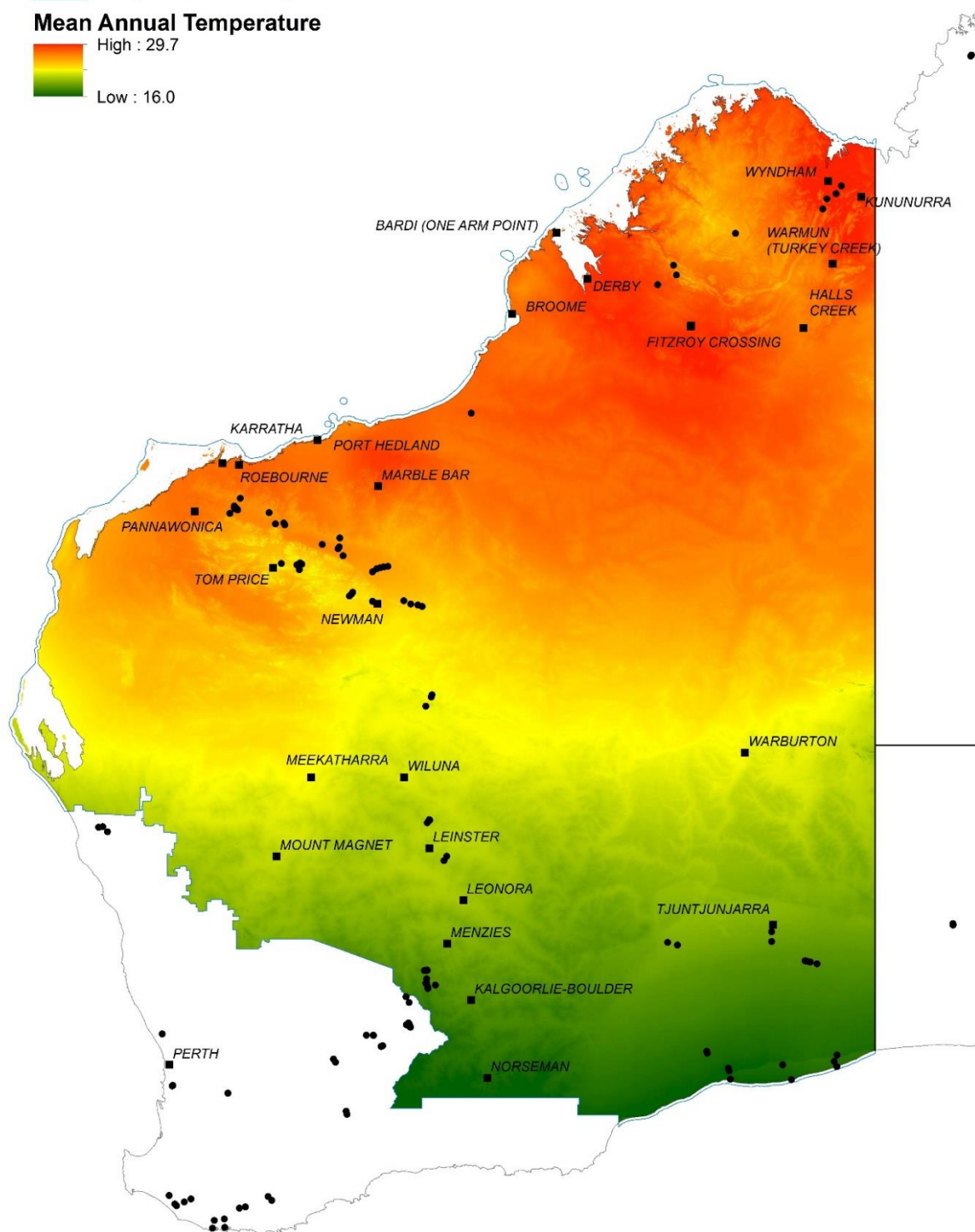


Figure 5. Mean annual temperature

Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

Legend

- TERN AusPlots Sites

□ Rangelands NRM Region

Mean Annual Precipitation (mm)

High : 1393
Low : 164.196

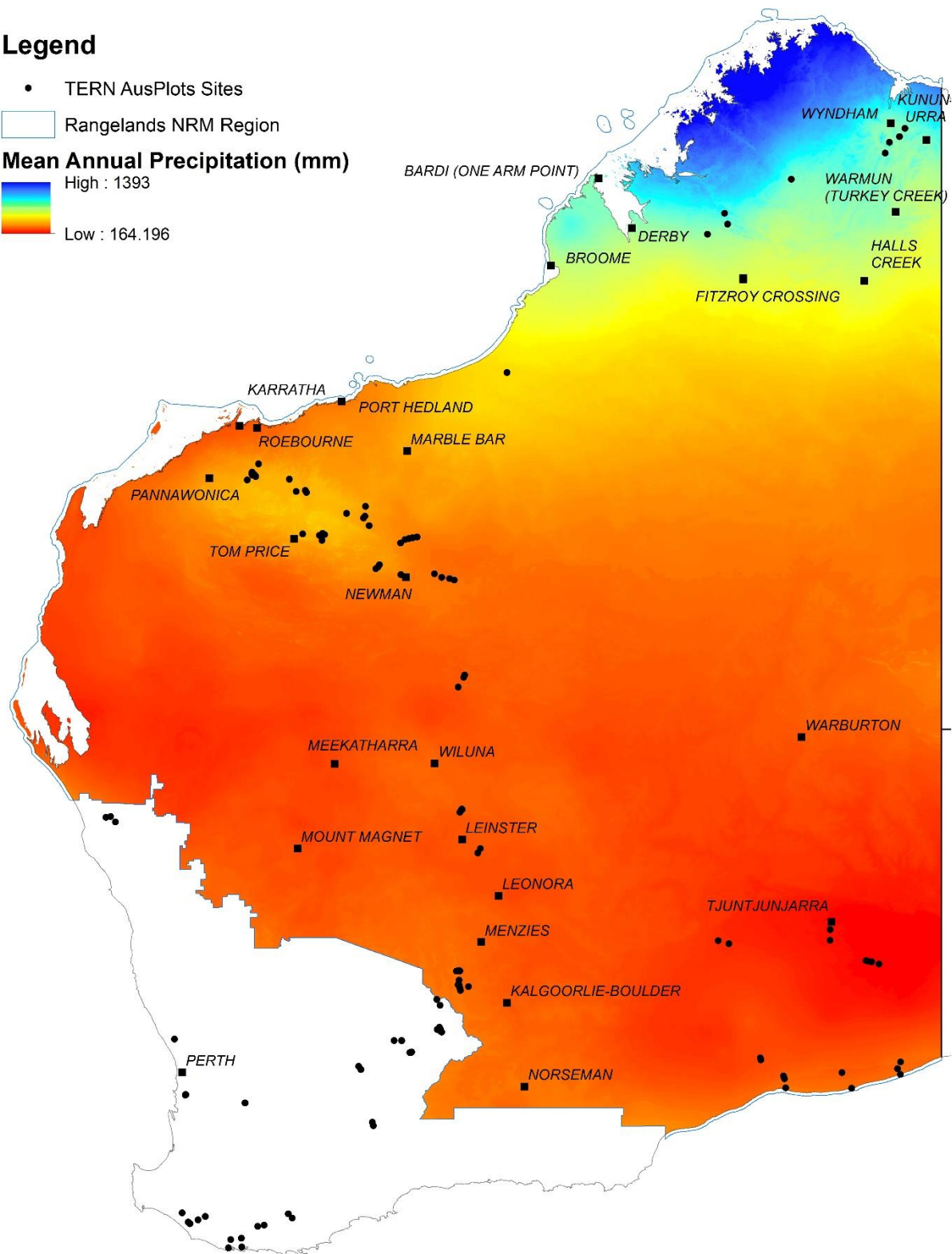


Figure 6. Mean annual Precipitation

Climate Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

Uses of AusPlots Data from Credo Conservation Reserve

The AusPlots survey method was developed out of a dire need for consistent, national scale ecological data and surveillance monitoring. To date, we have completed over 530 survey plots across the continent. The data and samples collected from these surveys are being used in a range of ways to allow comparisons across the state and the continent. Some of the projects that have made use of the data and samples from Credo Conservation Reserve sites are listed below.

Opportunities for Integrated Ecological Analysis across Inland Australia with Standardised Data from Ausplots Rangelands (*Greg Guerin*)

How species abundance distributions (SADs) vary over climatic gradients is a key question for the influence of environmental change on ecosystem processes. Greg Guerin is a researcher based at the University of Adelaide. Greg has undertaken analysis on the entire plot network (including Credo) He has found linear relationships between SAD shape and rainfall within grassland and shrubland communities, indicating more uneven abundance in deserts and suggesting relative abundance may shift as a consequence of climate change, resulting in altered diversity and ecosystem function.

Floristic and structural assessment of Australian rangeland vegetation with standardized plot based surveys (*Zdravko Baruch*)

Vegetation classification at a continental scale has been lacking over the rangelands in Australia due to a lack of consistent data beyond state and regional levels. Zdravko undertook an integrated and comparative environmental, floristic and structural description of rangeland vegetation based on the AusPlots Surveys. His results offer a tentative classification scheme that is novel, ecologically sound and coherent in terms of floristic composition and structural attributes.

The extent of forest in dryland biomes (*Jean-Francois Bastin*)

The vegetation cover data from Credo was also part of a recent mapping project undertaken by the Food and Agriculture arm of the UN. They were able to show that in 2015, 1327 million hectares of drylands had more than 10% tree-cover, and 1079 million hectares comprised forest globally. Their estimate is 40 to 47% higher than previous estimates, corresponding to 467 million hectares of forest that have never been reported before. This increases current estimates of global forest cover by at least 9%.

Herbarium Collections

The AusPlots program works very closely with state and national herbaria to help augment their collections to enable research and to better understand species distributions. Located in valuable areas of native vegetation, the plant collections made on Credo Conservation Reserve have been eagerly accepted by the NT Herbarium and the National Herbarium in Canberra. These specimens are currently being professionally mounted and preserved and will form a permanent part of their collection, which is available to botanical researchers globally to support ongoing research.

Some other applications that may be undertaken in the future are listed below.

- Assessing vegetation change using the AusPlots methodology as both a baseline and a continued surveillance monitoring tool.
- Detecting the impact of invasive species based on soil and vegetation data.
- Ground-truthing satellite derived vegetation and soil data
- Soil carbon analysis using the soil bulk density samples
- Mapping soil phosphorus, nitrogen and other nutrients using soil pit and subsite samples
- Assessing fuel loading using the basal area and leaf area data.
- Use of the leaf tissue samples for genetic and isotopic analysis.

For more information

More information on the AusPlots facility can be found on our website www.AusPlots.org

For more information regarding the survey work on Credo Conservation Reserve and assistance downloading and utilising the data from *AEKOS* and *Soils2Satellites* contact Emrys Leitch, AusPlots Field Survey Officer, emrys.leitch@adelaide.edu.au

For more information regarding the AusPlots facility, contact Ben Sparrow, AusPlots Director, ben.sparrow@adelaide.edu.au

Appendices

Appendix 1. Summary of AusPlots data and samples from Credo Conservation Reserve

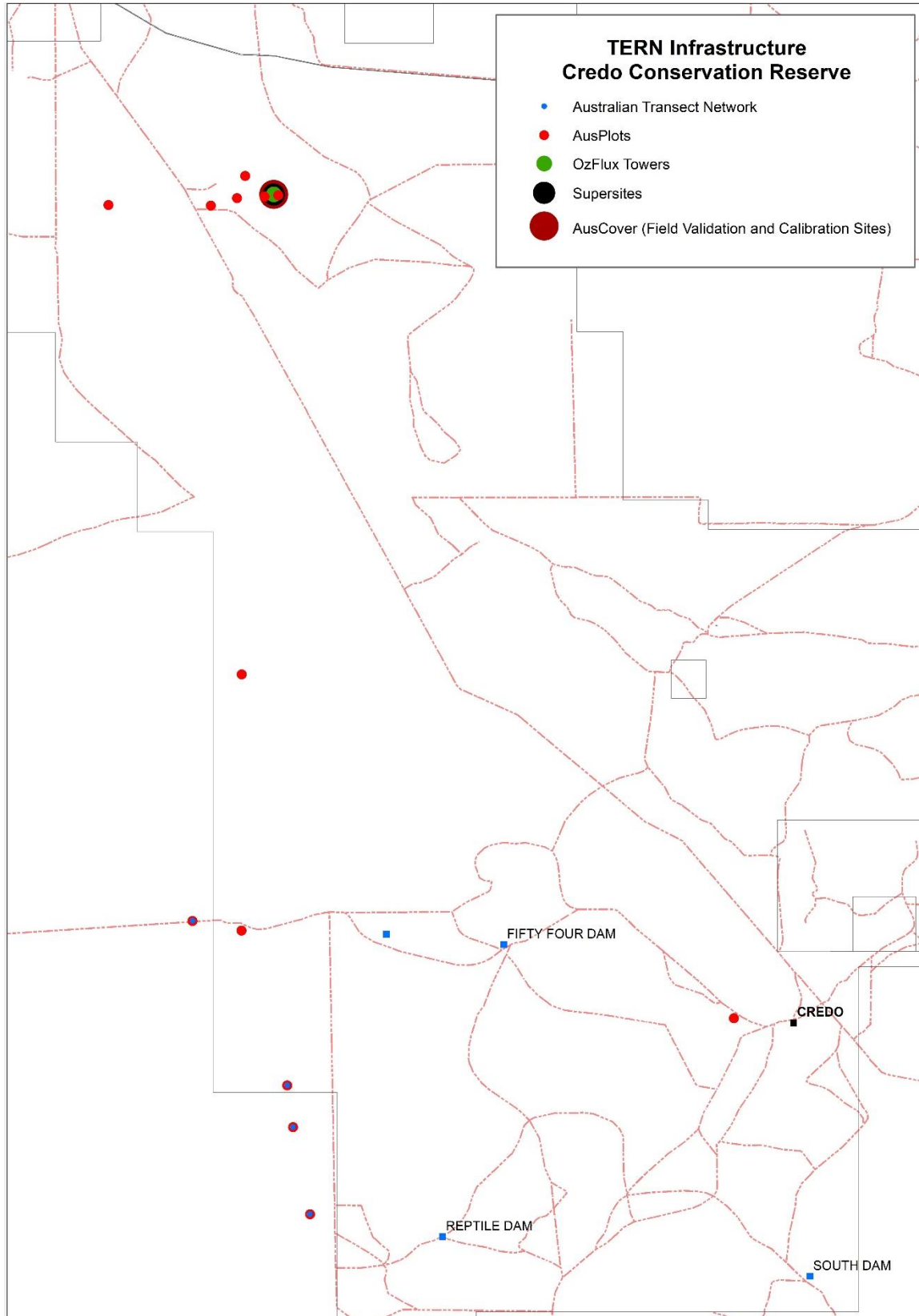
AusPlots Data and Samples	Count
<i>Total Collections</i>	532
<i>Total Leaf Tissue Samples</i>	900
<i>Total number of soil samples</i>	311
<i>Total weight of soil (kg)</i>	311
<i>Number of sites with Bulk Density data</i>	8
<i>Number of Sites with Basal wedge</i>	7
<i>Total metagenomic samples</i>	117
<i>Total metagenomic weight (kg)</i>	59

Appendix 2. Plot locations

Plot Name	Date	Location	latitude	longitude
WAACOO0020	30-Oct-13	36km north of Credo Station and then 2.6km east of Coolgardie North Road. 36km north of Coolgardie	-30.192	120.6551389
WAACOO0021	01-Nov-13	About 200m west of flux tower at Credo supersite. About 35km north of Credo homestead on the Coolgardie north road, and due east by about 2km.	-30.1923333	120.6506111
WAACOO0022	12-Nov-13	35km north of Credo Homestead on the Coolgardie north road. CSIRO supersite GB100.	-30.1953056	120.63275
WAACOO0023	15-Nov-13	35km north of Credo Station on Coolgardie North Road. 500m east of WACOO 0022 and 500m west of flux tower.	-30.1927942	120.6414669
WAACOO0024	26-Nov-13	35km north of Credo Homestead on Coolgardie North Road. Then about 2km east on track and 300m north of track.	-30.1854222	120.6441389
WAACOO0025	29-Nov-13	2km south of supersite at Credo Station along Coolgardie north road, and then about 3km east.	-30.1951194	120.5987833
WAACOO0026	04-Jan-14	15km due west of Credo homestead.	-30.5303861	120.6656806
WAACOO0027	21-Jan-14	15km due west of Credo homestead on a ridge-based rise with yellow sand. 2 km north of WAACOO0026. 1.5 km south of mine pit on ridge. Site overlays with South Western Australian Transitional Transect WATCOO0014	-30.5014861	120.6600417
WAACOO0028	09-Jan-14	25km west of Credo Homestead.	-30.4875833	120.6581361
WAACOO0029	11-Jan-14	25km East of Credo Homestead. 1.5km west of a granite outcrop.	-30.4328972	120.6266833
WAGCOO0001	08-Oct-12	Credo Station. 22km North West of Credo Station Homestead.	-30.4361278	120.6429056
WAGCOO0002	09-Oct-12	Credo conservation reserve. 17km west north west of Credo station Homestead.	-30.3509917	120.6426917
WAGCOO0004	10-Oct-12	Credo Conservation Reserve. Edge of airstrip 2km West of Credo Station Homestead.	-30.4652583	120.8060833

Appendix 3. Co-location with existing plots

AusPlots works on a mix of both new plots (where this is little existing monitoring infrastructure) and co-location with existing plots. The 13 plots on Credo Conservation Reserve are co-located with existing 4 other TERN Facilities monitoring sites; The Australian Transect Networks' South West Australia Transitional Transect (SWATT), OzFlux, AusCover and Supersites. The Map below shows the where the AusPlots sit in relation to these sites.



Appendix 4. Point intercept data

Plot name	Herbarium ID	Common name	Approx. % cover
WAACOO0020	<i>Eucalyptus salmonophloia</i>	Salmon gum	9.90
WAACOO0020	<i>Eucalyptus salubris</i>	Fluted Gum Tree	4.65
WAACOO0020	<i>Eremophila scoparia</i>	Broom Bush	3.76
WAACOO0020	<i>Maireana trichoptera</i>	Pink-seeded Bluebush, Downy Bluebush	2.18
WAACOO0021	<i>Eucalyptus salubris</i>	Fluted Gum Tree	10.20
WAACOO0021	<i>Maireana sedifolia</i>	Dense Bluebush	6.73
WAACOO0021	<i>Eucalyptus salmonophloia</i>	Salmon gum	2.67
WAACOO0021	<i>Eremophila scoparia</i>		1.58
WAACOO0022	<i>Eucalyptus clelandii</i>	Cleland's blackbutt	25.74
WAACOO0022	<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	Mirret	15.25
WAACOO0023	<i>Eucalyptus transcontinentalis</i>	Redwood	13.76
WAACOO0023	<i>Eucalyptus salmonophloia</i>	Salmon gum	3.07
WAACOO0023	<i>Eremophila scoparia</i>	Broom Bush	2.28
WAACOO0023	<i>Maireana sedifolia</i>	Dense Bluebush	2.08
WAACOO0023	<i>Eucalyptus salubris</i>	Fluted Gum Tree	1.98
WAACOO0023	<i>Atriplex nummularia</i> subsp. <i>spathulata</i>		1.78
WAACOO0024	<i>Acacia incurvaneura</i>	Narrow-leaf Mulga	55.64
WAACOO0024	<i>Eremophila granitica</i>	Granite Poverty Bush	5.84
WAACOO0025	<i>Maireana sedifolia</i>	Dense Bluebush	9.31
WAACOO0025	<i>Atriplex vesicaria</i>	Bladder Saltbush	7.72
WAACOO0025	<i>Enneapogon caerulescens</i>		4.06
WAACOO0025	<i>Atriplex nummularia</i> subsp. <i>spathulata</i>		3.17
WAACOO0026	<i>Triodia</i> sp.	'Spinifex'	34.16
WAACOO0026	<i>Acacia yorkakinensis</i> subsp. <i>acrita</i>		27.72
WAACOO0026	<i>Allocasuarina spinosissima</i>		5.05
WAACOO0026	<i>Acacia resinimarginea</i>	Old Man Wodjil	3.86
WAACOO0026	<i>Acacia consanguinea</i>		3.66
WAACOO0026	<i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>		3.07
WAACOO0026	<i>Melaleuca cordata</i>		1.68
WAACOO0027	<i>Triodia rigidissima</i>		29.41
WAACOO0027	<i>Melaleuca calyptroides</i>		12.38
WAACOO0027	<i>Conospermum stoechadis</i> subsp. <i>stoechadis</i>		5.45
WAACOO0027	<i>Lepidobolus preissianus</i> subsp. <i>volubilis</i>		4.26
WAACOO0027	<i>Melaleuca cordata</i>		3.96
WAACOO0027	<i>Euryomyrtus maidenii</i>		3.37
WAACOO0027	<i>Chamelaucium ciliatum</i>	Stirling Wax	3.17
WAACOO0027	<i>Calothamnus gilesii</i>		3.07
WAACOO0027	<i>Eucalyptus ceratocorys</i>	Horn-capped mallee	2.38
WAACOO0027	<i>Eucalyptus rigidula</i>	Stiff leaved Mallee	1.58

Plot name	Herbarium ID	Common name	Approx. % cover
WAACOO0028	Triodia rigidissima		21.58
WAACOO0028	Acacia sibina		10.69
WAACOO0028	Acacia cylindrica		8.12
WAACOO0028	Allocasuarina spinosissima		6.73
WAACOO0028	Keraudrenia velutina subsp. velutina		6.24
WAACOO0028	Grevillea didymobotrya subsp. didymobotrya		3.07
WAACOO0028	Allocasuarina campestris		2.08
WAACOO0028	Melaleuca hamata		1.98
WAACOO0029	Triodia rigidissima		41.29
WAACOO0029	Acacia yorkkrakensis subsp. acrita		31.88
WAACOO0029	Chrysitrix distigmata		7.82
WAACOO0029	Eucalyptus rigidula	Stiff leaved Mallee	4.26
WAACOO0029	Melaleuca calyptroides		3.07
WAACOO0029	Melaleuca cordata		2.67
WAACOO0029	Eucalyptus ceratocorys	Horn-capped mallee	2.48
WAACOO0029	Calytrix creswellii		2.28
WAACOO0029	Euryomyrtus maidenii		2.18
WAACOO0029	Eucalyptus platycorys	Boorabbin Mallee	1.78
WAACOO0029	Dodonaea amblyophylla		1.58
WAGCOO0001	Eucalyptus salmonophloia	Salmon gum	24.06
WAGCOO0001	Atriplex sp.	Saltbushes	2.57
WAGCOO0002	Triodia rigidissima		35.74
WAGCOO0002	Acacia yorkkrakensis subsp. acrita		9.90
WAGCOO0002	Eucalyptus oldfieldii	Oldfields Mallee	3.76
WAGCOO0004	Maireana sedifolia	Dense Bluebush	8.71
WAGCOO0004	Enneapogon caeruleus		5.94
WAGCOO0004	Maireana pyramidata	Black Bluebush	4.85
WAGCOO0004	Austrostipa nitida	Balcarra Grass	4.06
WAGCOO0004	Sclerolaena diacantha	Grey Copper Burr	3.27
WAGCOO0004	Salvia verbenaceae		2.87
WAGCOO0004	Sclerolaena cuneata	Tangled Copperburr	2.57
WAGCOO0004	Eriochiton sclerolaenoides	Woolly Bindii	2.18
WAGCOO0004	Medicago minima	Burr Medic	1.68
WAGCOO0004	Ptilotus obovatus	Cotton Bush	1.68

Appendix 5. Substrate and growth form

Plot Name	Substrate	Approx. % substrate
WAACOO0020	Bare ground	29.9
WAACOO0020	Cryptogam	30.79
WAACOO0020	Coarse woody debris	5.54
WAACOO0020	Gravel	11.29
WAACOO0020	Leaf litter	26.93
Plot Name	Substrate	Approx. % substrate
WAACOO0021	Bare ground	21.98
WAACOO0021	Cryptogam	34.36
WAACOO0021	Coarse woody debris	6.73
WAACOO0021	Gravel	10.69
WAACOO0021	Leaf litter	28.61
Plot Name	Substrate	Approx. % substrate
WAACOO0022	Bare ground	12.18
WAACOO0022	Cryptogam	12.67
WAACOO0022	Coarse woody debris	4.46
WAACOO0022	Gravel	12.57
WAACOO0022	Leaf litter	62.67
Plot Name	Substrate	Approx. % substrate
WAACOO0023	Bare ground	1.98
WAACOO0023	Cryptogam	12.97
WAACOO0023	Coarse woody debris	2.48
WAACOO0023	Gravel	33.86
WAACOO0023	Leaf litter	46.73
WAACOO0023	Rock	5.54
Plot Name	Substrate	Approx. % substrate
WAACOO0024	Bare ground	1.39
WAACOO0024	Cryptogam	10.79
WAACOO0024	Coarse woody debris	9.21
WAACOO0024	Gravel	15.54
WAACOO0024	Leaf litter	72.67
WAACOO0024	Rock	0.1
Plot Name	Substrate	Approx. % substrate
WAACOO0025	Bare ground	4.06
WAACOO0025	Cryptogam	55.54
WAACOO0025	Coarse woody debris	0.4
WAACOO0025	Gravel	16.53
WAACOO0025	Leaf litter	50.59
WAACOO0025	Not Collected	0.1
WAACOO0025	Unknown	0.5

Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0020	Forb	5.22
WAACOO0020	Shrub	42.03
WAACOO0020	Tree Mallee	16.23
WAACOO0020	Tree/Palm	34.78
WAACOO0020	Tussock grass	1.74
Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0021	Chenopod	4.58
WAACOO0021	Forb	5.28
WAACOO0021	Shrub	43.66
WAACOO0021	Tree/Palm	46.48
Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0022	Forb	0.37
WAACOO0022	Shrub	1.67
WAACOO0022	Tree Mallee	33.52
WAACOO0022	Tree/Palm	64.44
Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0023	Chenopod	0.28
WAACOO0023	Forb	1.97
WAACOO0023	Shrub	39.89
WAACOO0023	Tree/Palm	56.18
WAACOO0023	Tussock grass	1.69
Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0024	Fern	0.23
WAACOO0024	Forb	0.11
WAACOO0024	Shrub	95.1
WAACOO0024	Tree/Palm	3.99
WAACOO0024	Tussock grass	0.57
Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0025	Chenopod	1.96
WAACOO0025	Forb	28.68
WAACOO0025	Shrub	39.11
WAACOO0025	Tussock grass	9
WAACOO0025	Vine	21.25

Plot Name	Substrate	Approx. % substrate
WAACOO0026	Bare ground	49.41
WAACOO0026	Cryptogam	7.92
WAACOO0026	Coarse woody debris	0.89
WAACOO0026	Leaf litter	69.01

Plot Name	Substrate	Approx. % substrate
WAACOO0027	Bare ground	36.14
WAACOO0027	Cryptogam	5.35
WAACOO0027	Coarse woody debris	0.79
WAACOO0027	Leaf litter	77.92

Plot Name	Substrate	Approx. % substrate
WAACOO0028	Bare ground	34.26
WAACOO0028	Cryptogam	14.55
WAACOO0028	Coarse woody debris	1.49
WAACOO0028	Gravel	3.07
WAACOO0028	Leaf litter	63.96
WAACOO0028	Unknown	0.1

Plot Name	Substrate	Approx. % substrate
WAACOO0029	Bare ground	49.21
WAACOO0029	Cryptogam	4.75
WAACOO0029	Coarse woody debris	0.89
WAACOO0029	Leaf litter	84.65

Plot Name	Substrate	Approx. % substrate
WAGCOO0001	Bare ground	32.18
WAGCOO0001	Cryptogam	16.24
WAGCOO0001	Coarse woody debris	0.2
WAGCOO0001	Gravel	5.45
WAGCOO0001	Leaf litter	50.79

Plot Name	Substrate	Approx. % substrate
WAGCOO0004	Bare ground	12.97
WAGCOO0004	Cryptogam	47.43
WAGCOO0004	Coarse woody debris	0.1
WAGCOO0004	Gravel	4.36
WAGCOO0004	Leaf litter	42.48

Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0026	Hummock grass	34.5
WAACOO0026	Shrub	58.52
WAACOO0026	Shrub Mallee	3.89
WAACOO0026	Tree/Palm	2.99

Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0027	Forb	0.12
WAACOO0027	Hummock grass	35.09
WAACOO0027	Sedge	6.46
WAACOO0027	Shrub	52.46

Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0028	Forb	0.25
WAACOO0028	Hummock grass	26.78
WAACOO0028	Sedge	1.47
WAACOO0028	Shrub	64.5
WAACOO0028	Shrub Mallee	0.74
WAACOO0028	Tree/Palm	6.27

Plot Name	Growth Form	Approx. % of Growth Forms
WAACOO0029	Forb	0.16
WAACOO0029	Hummock grass	35.85
WAACOO0029	Sedge	12.47
WAACOO0029	Shrub	39.7

Appendix 6. Structural summary

Plot name	Structural description
WAACOO0020	<i>Eremophila scoparia</i> mid open shrubland (1-2m) with isolated, <i>Maireana trichoptera</i> , <i>Maireana triptera</i> and <i>Atriplex nummularia</i> subsp. <i>spathulata</i> . Isolated emergent <i>Eucalyptus salmonophloia</i> , and <i>Eucalyptus salubris</i> . ground stratum very sparse.
WAACOO0021	<i>Eucalyptus salubris</i> / <i>Eucalyptus salmonophloia</i> mid woodland (10-30m) . Mid stratum sparse dominated by <i>Maireana sedifolia</i> . Ground cover sparse
WAACOO0022	<i>Eucalyptus clelandii</i> / <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> mid Woodland (10-30m) with <i>Eucalyptus longissima</i> and <i>Eucalyptus transcontinentalis</i> . Mid stratum is isolated shrubs- <i>Eremophila scoparia</i> , <i>Atriplex nummularia</i> subsp. <i>spathulata</i> , and <i>Acacia merrallii</i> .
WAACOO0023	<i>Eucalyptus transcontinentalis</i> mid woodland (10-30m) with <i>Eucalyptus salmonophloia</i> and <i>Eucalyptus salubris</i> (with isolated trees of <i>E. clelandii</i> adjacent). Mid stratum is sparse and dominated by <i>Eremophila scoparia</i> , <i>Maireana sedifolia</i> , and <i>Atriplex nummularia</i> subsp. <i>spathulata</i> (>2m), Minimal ground stratum.
WAACOO0024	<i>Acacia incurvaneura</i> low open forest with <i>Acacia caesaneura</i> (<10m). Mid stratum is sparse and dominated by <i>Eremophila granitica</i> .
WAACOO0025	<i>Maireana sedifolia</i> / <i>Atriplex vesicaria</i> / <i>Atriplex nummularia</i> subsp. <i>spathulata</i> mid open Chenopod shrub land (1-2m). Sparse tussock grass understratum dominated by <i>Enneapogon caeruleus</i> . Isolated <i>Acacia tetragonophylla</i> , and <i>Eremophila alternifolia</i> shrubs.
WAACOO0026	<i>Acacia yorkkrakinensis</i> subsp. <i>acrita</i> mid open shrubland with <i>Allocasuarina spinosissima</i> and <i>Acacia resinimarginea</i> and <i>Acacia consanguinea</i> (1-2m). Emergent <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> (<3m). A dense hummock grass understratum dominated by <i>Triodia</i> sp. Possibly <i>T. rigidissima</i>
WAACOO0027	Sparse mallee shrubland (<3m) of <i>Eucalyptus ceratocorys</i> , <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> , <i>Eucalyptus rigidula</i> , (and adjacent isolated <i>Callitris preissii</i>). Sparse shrubland (1-2m) of <i>Grevillea excelsior</i> , <i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i> , and
WAACOO0028	<i>Acacia sibina</i> / <i>Acacia cylindrica</i> / <i>Allocasuarina spinosissima</i> mid shrubland with isolated emergent <i>Eucalyptus horistes</i> , <i>Eucalyptus leptopoda</i> subsp. <i>leptopoda</i> , and <i>Eucalyptus rigidula</i> (<3). A hummock grass ground stratum dominated by <i>Triodia rigidissima</i> .
WAACOO0029	<i>Eucalyptus rigidula</i> , <i>Eucalyptus ceratocorys</i> , <i>Eucalyptus platycorys</i> low sparse mallee shrubland (<3m) ,with isolated <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> . Dense mid stratum dominated by <i>Acacia yorkkrakinensis</i> subsp. <i>acrita</i> (post-fire, usually >2m). Dense hummock grass understratum dominated by <i>Triodia rigidissima</i>
WAGCOO0001	<i>Eucalyptus salmonophloia</i> mid open Woodland
WAGCOO0002	<i>Eucalyptus oldfieldii</i> mallee shrubland to <i>Acacia yorkkrakinensis</i> subsp. <i>acrita</i> mid open shrubland with <i>Triodia rigidissima</i> hummock grass understory.
WAGCOO0004	<i>Maireana sedifolia</i> low open Chenopod Shrubland.

Appendix 7. Soil Classification

Plot name	Sample	Upper depth	Lower depth	Texture	PH	EC	effervescence
WAACOO0020	Sample from Pit	0	0.1	Sandy clay loam			Non-calcareous
WAACOO0020	Sample from Pit	0.1	0.2	Sandy clay loam			Slightly calcareous
WAACOO0020	Sample from Pit	0.2	0.3	Sandy clay loam			Moderately calcareous
WAACOO0020	Sample from Pit	0.3	0.4	Sandy clay loam			Moderately calcareous
WAACOO0020	Sample from Pit	0.4	0.5	Sandy clay loam			Slightly calcareous
WAACOO0020	Sample from Pit	0.5	0.6	Clay loam sandy			Slightly calcareous
WAACOO0020	Sample from Pit	0.6	0.7	Clay loam sandy			Slightly calcareous
WAACOO0020	Sample from Pit	0.7	0.8	Clay loam sandy			Slightly calcareous
WAACOO0021	Sample from Pit	0	0.1	Clay loam sandy			Non-calcareous
WAACOO0021	Sample from Pit	0.1	0.2	Clay loam sandy			Slightly calcareous
WAACOO0021	Sample from Pit	0.2	0.3	Clay loam sandy			Moderately calcareous
WAACOO0021	Sample from Pit	0.3	0.4	Clay loam sandy			Moderately calcareous
WAACOO0021	Sample from Pit	0.4	0.5	Clay loam sandy			Moderately calcareous
WAACOO0021	Sample from Pit	0.5	0.6	Clay loam sandy			Slightly calcareous
WAACOO0021	Sample from Pit	0.6	0.7	Clay loam sandy			Slightly calcareous
WAACOO0021	Sample from Pit	0.7	0.8	Clay loam sandy			Slightly calcareous
WAACOO0021	Sample from Pit	0.8	0.9	Clay loam sandy			Moderately calcareous
WAACOO0022	Sample from Pit	0	0.1	Silty clay loam			Non-calcareous
WAACOO0022	Sample from Pit	0.1	0.2	Silty clay loam			Non-calcareous
WAACOO0022	Sample from Pit	0.2	0.3	Silty clay loam			Slightly calcareous
WAACOO0022	Sample from Pit	0.3	0.4	Silty clay loam			Moderately calcareous
WAACOO0022	Sample from Pit	0.4	0.5	Silty clay loam			Moderately calcareous
WAACOO0022	Sample from Pit	0.5	0.6	Silty clay loam			Highly calcareous
WAACOO0022	Sample from Pit	0.6	0.7	Silty clay loam			Highly calcareous
WAACOO0023	Sample from Pit	0	0.1	Sandy clay loam			Non-calcareous
WAACOO0023	Sample from Pit	0.1	0.2	Sandy clay loam			Non-calcareous
WAACOO0023	Sample from Pit	0.2	0.3	Sandy clay loam			Not Collected
WAACOO0023	Sample from Pit	0.3	0.4	Sandy clay loam			Not Collected
WAACOO0023	Sample from Pit	0.4	0.5	Sandy clay loam			Slightly calcareous
WAACOO0023	Sample from Pit	0.5	0.6	Sandy clay loam			Moderately calcareous
WAACOO0024	Sample from Pit	0	0.1	Sandy loam			Non-calcareous
WAACOO0024	Sample from Pit	0.1	0.2	Sandy loam			Not Collected
WAACOO0024	Sample from Pit	0.2	0.3	Sandy loam			Not Collected
WAACOO0024	Sample from Pit	0.3	0.4	Sandy loam			Not Collected
WAACOO0024	Sample from Pit	0.4	0.5	Sandy loam			Not Collected
WAACOO0025	Sample from Pit	0	0.1	Clayey sand			Slightly calcareous
WAACOO0025	Sample from Pit	0.1	0.2	Clayey sand			Not Collected
WAACOO0025	Sample from Pit	0.2	0.3	Clayey sand			Not Collected
WAACOO0025	Sample from Pit	0.3	0.4	Clayey sand			Not Collected

Plot name	Sample	Upper depth	Lower depth	Texture	PH	EC	effervescence
WAACOO0025	Sample from Pit	0.4	0.5	Clayey sand			Not Collected
WAACOO0025	Sample from Pit	0.5	0.6	Clayey sand			Not Collected
WAACOO0026	Sample from Pit	0	10	Sand			Non-calcareous
WAACOO0026	Sample from Pit	10	20	Sand			Non-calcareous
WAACOO0026	Sample from Pit	20	30	Sand			Non-calcareous
WAACOO0026	Sample from Pit	30	40	Sand			Non-calcareous
WAACOO0026	Sample from Pit	40	50	Sand			Non-calcareous
WAACOO0026	Sample from Pit	50	60	Sand			Non-calcareous
WAACOO0026	Sample from Pit	60	70	Sand			Non-calcareous
WAACOO0026	Sample from Pit	70	80	Sand			Non-calcareous
WAACOO0026	Sample from Pit	80	90	Sand			Non-calcareous
WAACOO0027	Sample from Pit	0	10	Sand			Non-calcareous
WAACOO0027	Sample from Pit	10	20	Sand			Non-calcareous
WAACOO0027	Sample from Pit	20	30	Sand			Non-calcareous
WAACOO0027	Sample from Pit	30	40	Sand			Non-calcareous
WAACOO0027	Sample from Pit	40	50	Sand			Non-calcareous
WAACOO0027	Sample from Pit	50	60	Sand			Non-calcareous
WAACOO0027	Sample from Pit	60	70	Sand			Non-calcareous
WAACOO0027	Sample from Pit	70	80	Sand			Non-calcareous
WAACOO0027	Sample from Pit	80	90	Sand			Non-calcareous
WAACOO0028	Sample from Pit	0	10	Sand			Non-calcareous
WAACOO0028	Sample from Pit	10	20	Sand			Non-calcareous
WAACOO0028	Sample from Pit	20	30	Sand			Non-calcareous
WAACOO0028	Sample from Pit	30	40	Sand			Non-calcareous
WAACOO0029	Sample from Pit	0	10	Sand			Non-calcareous
WAACOO0029	Sample from Pit	10	20	Sand			Non-calcareous
WAACOO0029	Sample from Pit	20	30	Sand			Non-calcareous
WAACOO0029	Sample from Pit	30	40	Sand			Non-calcareous
WAACOO0029	Sample from Pit	40	50	Sand			Non-calcareous
WAACOO0029	Sample from Pit	50	60	Sand			Non-calcareous
WAACOO0029	Sample from Pit	60	70	Sand			Non-calcareous
WAACOO0029	Sample from Pit	70	80	Sand			Non-calcareous
WAACOO0029	Sample from Pit	80	90	Sand			Non-calcareous
WAGCOO0001	Sampled from Pit	0	10	Not recorded	6.1	0.365	Not recorded
WAGCOO0001	Sampled from Subsite 1	0	10	Not recorded	6.9	0.457	Not recorded
WAGCOO0001	Sampled from Subsite 2	0	10	Not recorded	6.8	0.736	Not recorded
WAGCOO0001	Sampled from Subsite 3	0	10	Not recorded	7	0.454	Not recorded
WAGCOO0001	Sampled from Subsite 4	0	10	Not recorded	6.8	0.5	Not recorded
WAGCOO0001	Sampled from Subsite 5	0	10	Not recorded	7.3	0.46	Not recorded
WAGCOO0001	Sampled from Subsite 6	0	10	Not recorded	7	0.49	Not recorded
WAGCOO0001	Sampled from Subsite 7	0	10	Not recorded	6.2	0.94	Not recorded

Plot name	Sample	Upper depth	Lower depth	Texture	PH	EC	effervescence
WAGCOO0001	Sampled from Subsite 8	0	10	Not recorded	5.5	0.44	Not recorded
WAGCOO0001	Sampled from Subsite 9	0	10	Not recorded	6.4	0.4	Not recorded
WAGCOO0004	Sampled from Subsite 2	0	10	Not recorded	8.6	0.518	Not recorded

Appendix 8. Bulk density

Plot name	Sample depth	Fine earth weight	Fine earth bulk density
WAACOO0020	0 to 10cms	202.56	1.64
WAACOO0020	10 to 20cms	220.45	2.04
WAACOO0020	20 to 30cms	220.45	0.68
WAACOO0022	10 to 20cms	218.68	1.00
WAACOO0022	20 to 30cms	216.48	1.36
WAACOO0023	0 to 10cms	198.8	1.22
WAACOO0023	10 to 20cms	198.8	3.03
WAACOO0023	20 to 30cms	213.6	3.43
WAACOO0025	10 to 20cms	211.89	0.41
WAACOO0025	20 to 30cms	170.89	0.91
WAACOO0026	0 to 10cms	322.1	1.46
WAACOO0026	10 to 20cms	329.88	1.49
WAACOO0026	20 to 30cms	329.7	1.49
WAACOO0027	0 to 10cms	337.41	1.53
WAACOO0027	10 to 20cms	346.74	1.57
WAACOO0027	20 to 30cms	350.17	1.59
WAACOO0028	0 to 10cms	315.37	1.47
WAACOO0028	10 to 20cms	297.66	1.44
WAACOO0028	20 to 30cms	288.77	1.57
WAACOO0029	0 to 10cms	316.56	1.43
WAACOO0029	10 to 20cms	309.62	1.40
WAACOO0029	20 to 30cms	322.65	1.46

Appendix 9. Plant collection

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0020	Fabaceae	Acacia erinacea	Prickly Wattle	
WAACOO0020	Fabaceae	Acacia hemiteles	Broombush	
WAACOO0020	Fabaceae	Acacia jennerae	Coonavitra Wattle	
WAACOO0020	Casuarinaceae	Allocastrum acutivalvis		
WAACOO0020	Chenopodiaceae	Atriplex nummularia subsp. spathulata		
WAACOO0020	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAACOO0020	Poaceae	Austrostipa nitida	Balcarra Grass	
WAACOO0020	Sapindaceae	Dodonaea lobulata	Bead Hopbush	
WAACOO0020	Scrophulariaceae	Eremophila decipiens subsp. decipiens		
WAACOO0020	Scrophulariaceae	Eremophila ionantha	Violet-flowered Eremophila	
WAACOO0020	Scrophulariaceae	Eremophila scoparia	Broom Bush	
WAACOO0020	Myrtaceae	Eucalyptus salmonophloia	Salmon gum	
WAACOO0020	Myrtaceae	Eucalyptus salubris	Gimlet	
WAACOO0020	Chenopodiaceae	Maireana georgei	Golden Bluebush	
WAACOO0020	Chenopodiaceae	Maireana pyramidata	Black Bluebush	
WAACOO0020	Chenopodiaceae	Maireana sedifolia	Dense Bluebush	
WAACOO0020	Chenopodiaceae	Maireana tomentosa subsp. tomentosa		
WAACOO0020	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAACOO0020	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAACOO0020	Asteraceae	Olearia muelleri	Dusky Daisy-bush	
WAACOO0020	Amaranthaceae	Ptilotus holosericeus		
WAACOO0020	Amaranthaceae	Ptilotus nobilis subsp. nobilis		
WAACOO0020	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAACOO0020	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAACOO0020	Chenopodiaceae	Sclerolaena drummondii		
WAACOO0020	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0020	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAACOO0020	Solanaceae	Solanum nummularium	Money-leaf Solanum	
WAACOO0021	Fabaceae	Acacia erinacea	Prickly Wattle	
WAACOO0021	Chenopodiaceae	Atriplex nummularia subsp. spathulata		
WAACOO0021	Chenopodiaceae	Atriplex vesicaria	Bladder Saltbush	
WAACOO0021	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAACOO0021	Poaceae	Austrostipa nitida	Balcarra Grass	
WAACOO0021	Poaceae	Enteropogon ramosus	Curly Windmill Grass	
WAACOO0021	Poaceae	Eragrostis dielsii	Mallee Love-grass	
WAACOO0021	Scrophulariaceae	Eremophila ionantha	Violet-flowered Eremophila	
WAACOO0021	Scrophulariaceae	Eremophila scoparia	Broom Bush	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0021	Myrtaceae	Eucalyptus salmonophloia	Salmon gum	
WAACOO0021	Myrtaceae	Eucalyptus salubris	Gimlet	
WAACOO0021	Frankeniaceae	Frankenia desertorum		
WAACOO0021	Chenopodiaceae	Maireana georgei	Golden Bluebush	
WAACOO0021	Chenopodiaceae	Maireana pyramidata	Black Bluebush	
WAACOO0021	Chenopodiaceae	Maireana sedifolia	Dense Bluebush	
WAACOO0021	Chenopodiaceae	Maireana tomentosa subsp. tomentosa		
WAACOO0021	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAACOO0021	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAACOO0021	Asteraceae	Olearia muelleri	Dusky Daisy-bush	
WAACOO0021	Poaceae	Paspalidium constrictum	Box Grass	
WAACOO0021	Pittosporaceae	Pittosporum angustifolium	Weeping Pittosporum	
WAACOO0021	Poaceae	Poaceae sp.		
WAACOO0021	Amaranthaceae	Ptilotus holosericeus		
WAACOO0021	Amaranthaceae	Ptilotus nobilis	Regal Foxtail	
WAACOO0021	Amaranthaceae	Ptilotus nobilis subsp. nobilis		
WAACOO0021	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAACOO0021	Chenopodiaceae	Rhagodia drummondii		
WAACOO0021	Apocynaceae	Rhyncharrhena linearis	Purple Pentatlope	
WAACOO0021	Asteraceae	Schoenia cassiniana		
WAACOO0021	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAACOO0021	Chenopodiaceae	Sclerolaena drummondii		
WAACOO0021	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0021	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAACOO0021	Asteraceae	Streptoglossa liatroides	Wertaloona Daisy	
WAACOO0022	Fabaceae	Acacia merrallii	Merrall's Wattle	
WAACOO0022	Fabaceae	Acacia tetragonophylla	Kurara	
WAACOO0022	Chenopodiaceae	Atriplex nummularia subsp. spathulata		
WAACOO0022	Chenopodiaceae	Atriplex sp.	orache	
WAACOO0022	Chenopodiaceae	Atriplex vesicaria	Bladder Saltbush	
WAACOO0022	Poaceae	Austrostipa nitida	Balcarra Grass	
WAACOO0022	Scrophulariaceae	Eremophila interstans subsp. interstans		
WAACOO0022	Scrophulariaceae	Eremophila scoparia	Broom Bush	
WAACOO0022	Myrtaceae	Eucalyptus celastroides subsp. celastroides		
WAACOO0022	Myrtaceae	Eucalyptus clelandii		
WAACOO0022	Myrtaceae	Eucalyptus longissima		
WAACOO0022	Myrtaceae	Eucalyptus transcontinentalis	Redwood	
WAACOO0022	Chenopodiaceae	Maireana georgei	Golden Bluebush	
WAACOO0022	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAACOO0022	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAACOO0022	Asteraceae	Olearia muelleri	Dusky Daisy-bush	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0022	Pittosporaceae	Pittosporum angustifolium	Weeping Pittosporum	
WAACOO0022	Poaceae	Poaceae sp.		
WAACOO0022	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAACOO0022	Chenopodiaceae	Rhagodia drummondii		
WAACOO0022	Goodeniaceae	Scaevola spinescens	Currant Bush	
WAACOO0022	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAACOO0022	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0022	Malvaceae	Sida spodochroma	Limestone Sida	
WAACOO0022	Solanaceae	Solanum hoplopetalum	Thorny Solanum	
WAACOO0022	Fabaceae	Templetonia ceracea		
WAACOO0023	Fabaceae	Acacia hemiteles	Broombush	
WAACOO0023	Fabaceae	Acacia tetragonophylla	Kurara	
WAACOO0023	Chenopodiaceae	Atriplex nummularia subsp. spatulata		
WAACOO0023	Chenopodiaceae	Atriplex vesicaria	Bladder Saltbush	
WAACOO0023	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAACOO0023	Poaceae	Austrostipa nitida	Balcarra Grass	
WAACOO0023	Chenopodiaceae	Enchylaena sp.		
WAACOO0023	Scrophulariaceae	Eremophila decipiens subsp. decipiens		
WAACOO0023	Scrophulariaceae	Eremophila scoparia	Broom Bush	
WAACOO0023	Myrtaceae	Eucalyptus clelandii		
WAACOO0023	Myrtaceae	Eucalyptus salmonophloia	Salmon gum	
WAACOO0023	Myrtaceae	Eucalyptus salubris	Gimlet	
WAACOO0023	Myrtaceae	Eucalyptus transcontinentalis	Redwood	
WAACOO0023	Santalaceae	Exocarpos aphyllus	Current Bush	
WAACOO0023	Chenopodiaceae	Maireana georgei	Golden Bluebush	
WAACOO0023	Chenopodiaceae	Maireana sedifolia	Dense Bluebush	
WAACOO0023	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAACOO0023	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAACOO0023	Asteraceae	Olearia muelleri	Dusky Daisy-bush	
WAACOO0023	Pittosporaceae	Pittosporum angustifolium	Weeping Pittosporum	
WAACOO0023	Amaranthaceae	Ptilotus nobilis	Regal Foxtail	
WAACOO0023	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAACOO0023	Chenopodiaceae	Sclerolaena drummondii		
WAACOO0023	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0023	Malvaceae	Sida spodochroma	Limestone Sida	
WAACOO0023	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAACOO0024	Fabaceae	Acacia acuminata	Jam Wattle	
WAACOO0024	Fabaceae	Acacia burkittii	Fine Leaf Jam.	
WAACOO0024	Fabaceae	Acacia caesaneura	Western Blue Mulga	
WAACOO0024	Fabaceae	Acacia incurvaneura	Narrow-leaf Mulga	
WAACOO0024	Fabaceae	Acacia tetragonophylla	Kurara	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0024	Poaceae	Aristida contorta	Bunched Kerosene Grass	
WAACOO0024	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAACOO0024	Poaceae	Austrostipa scabra	Rough Speargrass	
WAACOO0024	Casuarinaceae	Casuarina pauper	Belah	
WAACOO0024	Pteridaceae	Cheilanthes sieberi subsp. sieberi		
WAACOO0024	Sapindaceae	Dodonaea lobulata	Bead Hopbush	
WAACOO0024	Chenopodiaceae	Enchylaena tomentosa var. tomentosa		
WAACOO0024	Scrophulariaceae	Eremophila decipiens subsp. decipiens		
WAACOO0024	Scrophulariaceae	Eremophila granitica	Granite Poverty Bush	
WAACOO0024	Myrtaceae	Eucalyptus griffithsii	Grey Gum	
WAACOO0024	Myrtaceae	Eucalyptus salmonophloia	Salmon gum	
WAACOO0024	Myrtaceae	Eucalyptus transcontinentalis	Redwood	
WAACOO0024	Euphorbiaceae	Euphorbia drummondii	Balsam	
WAACOO0024	Goodeniaceae	Goodenia havilandii	Hill Goodenia	
WAACOO0024	Proteaceae	Grevillea nematophylla subsp. nematophylla		
WAACOO0024	Proteaceae	Hakea preissii	Christmas Hakea	
WAACOO0024	Apocynaceae	Marsdenia australis	Doubah	
WAACOO0024	Myrtaceae	Melaleuca hamata		
WAACOO0024	Fabaceae	Mirbelia microphylla		
WAACOO0024	Poaceae	Monachather paradoxus	Bandicoot Grass	
WAACOO0024	Asteraceae	Olearia muelleri	Dusky Daisy-bush	
WAACOO0024	Pittosporaceae	Pittosporum angustifolium	Weeping Pittosporum	
WAACOO0024	Lamiaceae	Prostanthera althoferi subsp. althoferi		
WAACOO0024	Lamiaceae	Prostanthera grylloana		
WAACOO0024	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAACOO0024	Chenopodiaceae	Rhagodia sp.		
WAACOO0024	Santalaceae	Santalum spicatum	Sandalwood	
WAACOO0024	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0024	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAACOO0024	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
WAACOO0024	Goodeniaceae	Velleia hispida		
WAACOO0024	Asteraceae	Waitzia acuminata var. acuminata		
WAACOO0025	Malvaceae	Abutilon oxycarpum	Flannel Weed	
WAACOO0025	Fabaceae	Acacia jennerae	Coonavitra Wattle	
WAACOO0025	Fabaceae	Acacia tetragonophylla	Kurara	
WAACOO0025	Chenopodiaceae	Atriplex nummularia subsp. spathulata		
WAACOO0025	Chenopodiaceae	Atriplex vesicaria	Bladder Saltbush	
WAACOO0025	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAACOO0025	Poaceae	Austrostipa nitida	Balcarra Grass	
WAACOO0025	Asteraceae	Brachyscome ciliaris	Variable Daisy	
WAACOO0025	Casuarinaceae	Casuarina pauper	Belah	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0025	Asteraceae	*Centaurea melitensis	Cockspur Thistle	
WAACOO0025	Asteraceae	Cephalipterum drummondii		
WAACOO0025	Chenopodiaceae	Chenopodium curvispicatum	Cottony Saltbush	
WAACOO0025	Convolvulaceae	Convolvulus remotus	Grassy Bindweed	
WAACOO0025	Convolvulaceae	Cuscuta planiflora	Small-seeded Alfalfa Dodder	
WAACOO0025	Chenopodiaceae	Enchylaena tomentosa var. tomentosa		
WAACOO0025	Poaceae	Enneapogon caerulescens		
WAACOO0025	Poaceae	Enteropogon ramosus	Curly Windmill Grass	
WAACOO0025	Poaceae	Eragrostis dielsii	Mallee Love-grass	
WAACOO0025	Scrophulariaceae	Eremophila alternifolia	Emubush	
WAACOO0025	Scrophulariaceae	Eremophila decipiens subsp. decipiens		
WAACOO0025	Chenopodiaceae	Eriochiton sclerolaenoides	Woolly Bindii	
WAACOO0025	Myrtaceae	Eucalyptus celastroides	Mealy Blackbutt	
WAACOO0025	Myrtaceae	Eucalyptus sp.		
WAACOO0025	Myrtaceae	Eucalyptus transcontinentalis	Redwood	
WAACOO0025	Frankeniaceae	Frankenia desertorum		
WAACOO0025	Chenopodiaceae	Maireana pyramidata	Black Bluebush	
WAACOO0025	Chenopodiaceae	Maireana sedifolia	Dense Bluebush	
WAACOO0025	Chenopodiaceae	Maireana sp.		
WAACOO0025	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAACOO0025	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAACOO0025	Fabaceae	*Medicago minima	Burr Medic	
WAACOO0025	Asteraceae	Minuria cunninghamii	Bush Minuria	
WAACOO0025	Poaceae	Poaceae sp.		
WAACOO0025	Amaranthaceae	Ptilotus nobilis subsp. nobilis		
WAACOO0025	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAACOO0025	Chenopodiaceae	Rhagodia drummondii		
WAACOO0025	Asteraceae	Rhodanthe floribunda	Common White Sunray	
WAACOO0025	Poaceae	Rostraria pumila	Rough-tail	
WAACOO0025	Poaceae	Rytidosperma caespitosum	Ringed Wallaby Grass	
WAACOO0025	Chenopodiaceae	Salsola australis		
WAACOO0025	Lamiaceae	Salvia verbenaca	Vervain	
WAACOO0025	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAACOO0025	Chenopodiaceae	Sclerolaena drummondii		
WAACOO0025	Chenopodiaceae	Sclerolaena obliquicuspis	Limestone Bindii	
WAACOO0025	Fabaceae	Senna artemisioides subsp. filifolia		
WAACOO0025	Malvaceae	Sida intricata	Neverfail	
WAACOO0025	Malvaceae	Sida petrophila	Rock Sida	
WAACOO0025	Malvaceae	Sida spodochroma	Limestone Sida	
WAACOO0025	Solanaceae	Solanum lasiophyllum	Flannel Bush	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0025	Solanaceae	Solanum nummularium	Money-leaf Solanum	
WAACOO0025	Asteraceae	*Sonchus oleraceus	Annual Sowthistle	
WAACOO0025	Chenopodiaceae	Tecticornia disarticulata		
WAACOO0025	Asteraceae	Vittadinia eremaea		
WAACOO0025	Poaceae	*Vulpia muralis	Wall Fescue	
WAACOO0025	Zygophyllaceae	Zygophyllum iodocarpum	Violet Twin-leaf	
WAACOO0026	Fabaceae	Acacia consanguinea		
WAACOO0026	Fabaceae	Acacia resinimarginea	Old Man Wodjil	
WAACOO0026	Fabaceae	Acacia yorkkrakensis subsp. acrita		
WAACOO0026	Casuarinaceae	Allocasuarina spinosissima		
WAACOO0026	Myrtaceae	Baeckea muricata		
WAACOO0026	Euphorbiaceae	Beyeria sulcata var. sulcata		
WAACOO0026	Rutaceae	Boronia ternata var. ternata		
WAACOO0026	Cupressaceae	Callitris preissii	Common Cypress Pine	
WAACOO0026	Myrtaceae	Calothamnus gilesii		
WAACOO0026	Myrtaceae	Calytrix creswellii		Priority Flora Category 3
WAACOO0026	Myrtaceae	Enekbatus cryptandroides		
WAACOO0026	Myrtaceae	Eucalyptus leptopoda subsp. subluta		
WAACOO0026	Myrtaceae	Eucalyptus rigidula	Stiff leaved Mallee	
WAACOO0026	Myrtaceae	Euryomyrtus maidenii		
WAACOO0026	Proteaceae	Grevillea didymobotrya subsp. didymobotrya		
WAACOO0026	Proteaceae	Grevillea excelsior	Orange Flame Grevillea	
WAACOO0026	Proteaceae	Hakea francisiana	Grass Leaf Hakea	
WAACOO0026	Boraginaceae	Halgania integerrima		
WAACOO0026	Malvaceae	Seringia elliptica		
WAACOO0026	Cyperaceae	Lepidosperma sanguinolentum		
WAACOO0026	Santalaceae	Leptomeria preissiana		
WAACOO0026	Fabaceae	Leptosema aculeatum		
WAACOO0026	Myrtaceae	Leptospermum fastigiatum		
WAACOO0026	Ericaceae	Leucopogon sp. Coolgardie (M.Hislop & F.Hort MH3197)		
WAACOO0026	Myrtaceae	Malleostemon roseus		
WAACOO0026	Myrtaceae	Melaleuca calyptroides		
WAACOO0026	Myrtaceae	Melaleuca cordata		
WAACOO0026	Myrtaceae	Melaleuca hamata		
WAACOO0026	Myrtaceae	Micromyrtus monotaxis		
WAACOO0026	Fabaceae	Mirbelia seorsifolia		
WAACOO0026	Rutaceae	Phebalium filifolium	Slender Phebalium	
WAACOO0026	Lamiaceae	Pityrodia lepidota		
WAACOO0026	Santalaceae	Santalum acuminatum	Quandong	
WAACOO0026	Santalaceae	Santalum spicatum	Sandalwood	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0026	Myrtaceae	Thryptomene urceolaris		
WAACOO0026	Asparagaceae	Thysanotus sp.		
WAACOO0026	Poaceae	Triodia rigidissima		
WAACOO0026	Poaceae	Triodia sp.		
WAACOO0026	Poaceae	Triodia tomentosa		
WAACOO0026	Myrtaceae	Verticordia pritzelii	Pritzel's Featherflower	
WAACOO0027	Fabaceae	Acacia inaequiloba		
WAACOO0027	Fabaceae	Acacia lasiocalyx		
WAACOO0027	Fabaceae	Acacia ligulata	Dune Wattle	
WAACOO0027	Fabaceae	Acacia uncinella		
WAACOO0027	Fabaceae	Acacia yorkrakinensis subsp. acrita		
WAACOO0027	Casuarinaceae	Allocasuarina sp.		
WAACOO0027	Casuarinaceae	Allocasuarina spinosissima		
WAACOO0027	Proteaceae	Banksia elderiana		
WAACOO0027	Euphorbiaceae	Beyeria sulcata var. sulcata		
WAACOO0027	Rutaceae	Boronia coerulescens	Blue Boronia	
WAACOO0027	Cupressaceae	Callitris preissii	Common Cypress Pine	
WAACOO0027	Myrtaceae	Calothamnus gilesii		
WAACOO0027	Asparagaceae	Chamaexeros fimbriata		
WAACOO0027	Myrtaceae	Chamelaucium ciliatum	Stirling Wax	
WAACOO0027	Proteaceae	Conospermum stoechadis subsp. stoechadis		
WAACOO0027	Goodeniaceae	Dampiera sp.		
WAACOO0027	Sapindaceae	Dodonaea amblyophylla		
WAACOO0027	Myrtaceae	Eucalyptus ceratocorys	Horn-capped mallee	
WAACOO0027	Myrtaceae	Eucalyptus leptopoda subsp. subluta		
WAACOO0027	Myrtaceae	Eucalyptus rigidula	Stiff leaved Mallee	
WAACOO0027	Myrtaceae	Euryomyrtus maidenii		
WAACOO0027	Haloragaceae	Glischrocaryon aureum	Common Popflower	
WAACOO0027	Proteaceae	Grevillea didymobotrya subsp. didymobotrya		
WAACOO0027	Proteaceae	Grevillea eremophila		
WAACOO0027	Proteaceae	Grevillea excelsior	Orange Flame Grevillea	
WAACOO0027	Proteaceae	Grevillea sp.		
WAACOO0027	Proteaceae	Grevillea sp.	Grevillea	
WAACOO0027	Proteaceae	Grevillea teretifolia		
WAACOO0027	Proteaceae	Hakea minyma		
WAACOO0027	Restionaceae	Lepidobolus preissianus subsp. volubilis		
WAACOO0027	Cyperaceae	Lepidosperma rigidulum		
WAACOO0027	Cyperaceae	Lepidosperma sanguinolentum		
WAACOO0027	Myrtaceae	Leptospermum fastigiatum		
WAACOO0027	Pittosporaceae	Marianthus bicolor		
WAACOO0027	Myrtaceae	Melaleuca calyptroides		

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0027	Myrtaceae	Melaleuca cordata		
WAACOO0027	Fabaceae	Mirbelia trichocalyx		
WAACOO0027	Proteaceae	Petrophile stricta		
WAACOO0027	Thymelaeaceae	Pimelea aeruginosa		
WAACOO0027	Apiaceae	Platysace trachymenioides		
WAACOO0027	Cyperaceae	Schoenus hexandrus		
WAACOO0027	Stylidiaceae	Stylidium arenicola		
WAACOO0027	Fabaceae	Templetonia aculeata	Spiny Bush-pea	
WAACOO0027	Asparagaceae	Thysanotus sparteus		
WAACOO0027	Poaceae	Triodia rigidissima		
WAACOO0028	Fabaceae	Acacia cylindrica		Priority Flora Category 3
WAACOO0028	Fabaceae	Acacia erinacea	Prickly Wattle	
WAACOO0028	Fabaceae	Acacia inaequiloba		
WAACOO0028	Fabaceae	Acacia lasiocalyx		
WAACOO0028	Fabaceae	Acacia longispinea		
WAACOO0028	Fabaceae	Acacia sibina		
WAACOO0028	Fabaceae	Acacia uncinella		
WAACOO0028	Fabaceae	Acacia yorkkrakensis subsp. acrita		
WAACOO0028	Casuarinaceae	Allocasuarina campestris		
WAACOO0028	Casuarinaceae	Allocasuarina spinosissima		
WAACOO0028	Myrtaceae	Baeckea muricata		
WAACOO0028	Proteaceae	Banksia elderiana		
WAACOO0028	Euphorbiaceae	Beyeria sulcata var. sulcata		
WAACOO0028	Cupressaceae	Callitris preissii	Common Cypress Pine	
WAACOO0028	Myrtaceae	Calothamnus gilesii		
WAACOO0028	Cyperaceae	Chrysitrix distigmata		
WAACOO0028	Goodeniaceae	Dampiera tenuicaulis		
WAACOO0028	Sapindaceae	Dodonaea amblyophylla		
WAACOO0028	Myrtaceae	Enekbatus cryptandroides		
WAACOO0028	Myrtaceae	Eucalyptus horistes		
WAACOO0028	Myrtaceae	Eucalyptus leptopoda subsp. leptopoda		
WAACOO0028	Myrtaceae	Eucalyptus rigidula	Stiff leaved Mallee	
WAACOO0028	Myrtaceae	Euryomyrtus maidenii		
WAACOO0028	Proteaceae	Grevillea didymobotrya subsp. didymobotrya		
WAACOO0028	Proteaceae	Grevillea excelsior	Orange Flame Grevillea	
WAACOO0028	Proteaceae	Grevillea haplantha subsp. haplantha		
WAACOO0028	Proteaceae	Grevillea hookeriana subsp. apiculoba		
WAACOO0028	Proteaceae	Grevillea juncifolia subsp. temulenta		
WAACOO0028	Proteaceae	Grevillea teretifolia		
WAACOO0028	Proteaceae	Hakea francisiana	Grass Leaf Hakea	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0028	Proteaceae	Hakea scoparia subsp. scoparia		
WAACOO0028	Boraginaceae	Halgania integerrima		
WAACOO0028	Malvaceae	Hannafordia quadrivalvis subsp. quadrivalvis		
WAACOO0028	Lamiaceae	Hemigenia brachyphylla		
WAACOO0028	Myrtaceae	Homalocalyx thryptomenoides		
WAACOO0028	Fabaceae	Jacksonia nematoclada		
WAACOO0028	Malvaceae	Seringia elliptica		
WAACOO0028	Restionaceae	Lepidobolus preissianus subsp. volubilis		
WAACOO0028	Cyperaceae	Lepidosperma sanguinolentum		
WAACOO0028	Santalaceae	Leptomeria preissiana		
WAACOO0028	Fabaceae	Leptosema aculeatum		
WAACOO0028	Myrtaceae	Leptospermum fastigiatum		
WAACOO0028	Pittosporaceae	Marianthus bicolor		
WAACOO0028	Myrtaceae	Melaleuca cordata		
WAACOO0028	Myrtaceae	Melaleuca hamata		
WAACOO0028	Fabaceae	Mirbelia seorsifolia		
WAACOO0028	Proteaceae	Persoonia coriacea		
WAACOO0028	Rutaceae	Phebalium brevifolium		
WAACOO0028	Rutaceae	Phebalium canaliculatum		
WAACOO0028	Lamiaceae	Pityrodia lepidota		
WAACOO0028	Apiaceae	Platysace trachymenioides		
WAACOO0028	Cyperaceae	Schoenus hexandrus		
WAACOO0028	Rhamnaceae	Stenanthemum stipulosum		
WAACOO0028	Myrtaceae	Thryptomene urceolaris		
WAACOO0028	Poaceae	Triodia rigidissima		
WAACOO0028	Poaceae	Triodia tomentosa		
WAACOO0028	Lamiaceae	Westringia cephalantha var. cephalantha		
WAACOO0028	Lamiaceae	Westringia rigida	Stiff Western Rosemary	
WAACOO0029	Fabaceae	Acacia colletioides	Pin Bush	
WAACOO0029	Fabaceae	Acacia hemiteles	Broombush	
WAACOO0029	Fabaceae	Acacia inaequiloba		
WAACOO0029	Fabaceae	Acacia longispinea		
WAACOO0029	Fabaceae	Acacia uncinella		
WAACOO0029	Fabaceae	Acacia yorkkrakensis subsp. acrita		
WAACOO0029	Casuarinaceae	Allocasuarina sp.		
WAACOO0029	Casuarinaceae	Allocasuarina spinosissima		
WAACOO0029	Cupressaceae	Callitris preissii	Common Cypress Pine	
WAACOO0029	Myrtaceae	Calytrix creswellii		Priority Flora Category 3
WAACOO0029	Asparagaceae	Chamaexeros fimbriata		
WAACOO0029	Cyperaceae	Chrysitrix distigmatosa		

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAACOO0029	Fabaceae	Daviesia sp.		
WAACOO0029	Hemerocallidaceae	Dianella revoluta	Black-anther Flax-lily	
WAACOO0029	Sapindaceae	Dodonaea amblyophylla		
WAACOO0029	Myrtaceae	Eucalyptus ceratocorys	Horn-capped mallee	
WAACOO0029	Myrtaceae	Eucalyptus leptopoda subsp. subluta		
WAACOO0029	Myrtaceae	Eucalyptus platycorys	Boorabbin Mallee	
WAACOO0029	Myrtaceae	Eucalyptus rigidula	Stiff leaved Mallee	
WAACOO0029	Myrtaceae	Euryomyrtus maidenii		
WAACOO0029	Proteaceae	Grevillea didymobotrya subsp. didymobotrya		
WAACOO0029	Proteaceae	Grevillea hookeriana subsp. apiculoba		
WAACOO0029	Proteaceae	Grevillea juncifolia subsp. temulenta		
WAACOO0029	Proteaceae	Grevillea teretifolia		
WAACOO0029	Proteaceae	Hakea francisiana	Grass Leaf Hakea	
WAACOO0029	Proteaceae	Hakea scoparia subsp. scoparia		
WAACOO0029	Boraginaceae	Halgania integerrima		
WAACOO0029	Dilleniaceae	Hibbertia exasperata		
WAACOO0029	Fabaceae	Jacksonia nematoclada		
WAACOO0029	Malvaceae	Seringia elliptica		
WAACOO0029	Restionaceae	Lepidobolus preissianus subsp. volubilis		
WAACOO0029	Cyperaceae	Lepidosperma sanguinolentum		
WAACOO0029	Fabaceae	Leptosema aculeatum		
WAACOO0029	Myrtaceae	Leptospermum fastigiatum		
WAACOO0029	Myrtaceae	Melaleuca aff. hamata		
WAACOO0029	Myrtaceae	Melaleuca calyptroides		
WAACOO0029	Myrtaceae	Melaleuca cordata		
WAACOO0029	Myrtaceae	Micromyrtus sp.		
WAACOO0029	Fabaceae	Mirbelia seorsifolia		
WAACOO0029	Apiaceae	Platysace trachymenioides		
WAACOO0029	Poaceae	Poaceae sp.		
WAACOO0029	Santalaceae	Santalum acuminatum	Quandong	
WAACOO0029	Cyperaceae	Schoenus subaphyllus	Desert Bog-rush	
WAACOO0029	Stylidiaceae	Stylidium arenicola		
WAACOO0029	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
WAACOO0029	Poaceae	Triodia rigidissima		
WAACOO0029	Myrtaceae	Verticordia chrysantha	Yellow Featherflower	
WAACOO0029	Myrtaceae	Verticordia picta	China Cups	
WAGCOO0001	Fabaceae	Acacia burkittii	Fine Leaf Jam.	
WAGCOO0001	Fabaceae	Acacia erinacea	Prickly Wattle	
WAGCOO0001	Fabaceae	Acacia hemiteles	Broombush	
WAGCOO0001	Fabaceae	Acacia jennerae	Coonavitra Wattle	
WAGCOO0001	Fabaceae	Acacia sp. Narrow phyllode (B.R.Maslin 7831)		

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAGCOO0001	Fabaceae	Acacia tetragonophylla	Kurara	
WAGCOO0001	Loranthaceae	Amyema preissii	Long-leaf Mistletoe	
WAGCOO0001	Chenopodiaceae	Atriplex sp.	orache	
WAGCOO0001	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAGCOO0001	Poaceae	Austrostipa nodosa	Knotty Speargrass	
WAGCOO0001	Asteraceae	Brachyscome ciliaris	Variable Daisy	
WAGCOO0001	Crassulaceae	Crassula colorata var. colorata		
WAGCOO0001	Sapindaceae	Dodonaea viscosa subsp. angustissima		
WAGCOO0001	Chenopodiaceae	Enchylaena tomentosa var. tomentosa		
WAGCOO0001	Scrophulariaceae	Eremophila glabra subsp. glabra		
WAGCOO0001	Scrophulariaceae	Eremophila oldfieldii subsp. angustifolia		
WAGCOO0001	Scrophulariaceae	Eremophila scoparia	Broom Bush	
WAGCOO0001	Myrtaceae	Eucalyptus salmonophloia	Salmon gum	
WAGCOO0001	Santalaceae	Exocarpos aphyllus	Current Bush	
WAGCOO0001	Frankeniaceae	Frankenia sp.		
WAGCOO0001	Proteaceae	Grevillea sarissa subsp. sarissa		
WAGCOO0001	Loranthaceae	Lysiana sp.		
WAGCOO0001	Chenopodiaceae	Maireana georgei	Golden Bluebush	
WAGCOO0001	Chenopodiaceae	Maireana thesioides	Mulga Bluebush	
WAGCOO0001	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAGCOO0001	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAGCOO0001	Asteraceae	Olearia muelleri	Dusky Daisy-bush	
WAGCOO0001	Asteraceae	Olearia pimeleoides	Burrabunga	
WAGCOO0001	Pittosporaceae	Pittosporum angustifolium	Weeping Pittosporum	
WAGCOO0001	Amaranthaceae	Ptilotus holosericeus		
WAGCOO0001	Amaranthaceae	Ptilotus nobilis subsp. nobilis		
WAGCOO0001	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAGCOO0001	Chenopodiaceae	Rhagodia drummondii		
WAGCOO0001	Chenopodiaceae	Rhagodia preissii subsp. preissii		
WAGCOO0001	Poaceae	Rytidosperma caespitosum	Ringed Wallaby Grass	
WAGCOO0001	Santalaceae	Santalum spicatum	Sandalwood	
WAGCOO0001	Goodeniaceae	Scaevola spinescens	Currant Bush	
WAGCOO0001	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	
WAGCOO0001	Fabaceae	Senna artemisioides subsp. filifolia		
WAGCOO0001	Fabaceae	Senna stowardii		
WAGCOO0001	Malvaceae	Sida spodochroma	Limestone Sida	
WAGCOO0001	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAGCOO0001	Solanaceae	Solanum nummularium	Money-leaf Solanum	
WAGCOO0001	Zygophyllaceae	Zygophyllum eremaeum	Climbing Twinleaf	
WAGCOO0002	Fabaceae	Acacia resinimarginea	Old Man Wodjil	
WAGCOO0002	Fabaceae	Acacia sibina		

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAGCOO0002	Fabaceae	Acacia uncinella		
WAGCOO0002	Fabaceae	Acacia yorkkrakensis subsp. acrita		
WAGCOO0002	Casuarinaceae	Allocasuarina campestris		
WAGCOO0002	Casuarinaceae	Allocasuarina eriochlamys		
WAGCOO0002	Casuarinaceae	Allocasuarina sp.		
WAGCOO0002	Casuarinaceae	Allocasuarina spinosissima		
WAGCOO0002	Euphorbiaceae	Beyeria sulcata var. sulcata		
WAGCOO0002	Cupressaceae	Callitris preissii	Common Cypress Pine	
WAGCOO0002	Myrtaceae	Calytrix birdii		
WAGCOO0002	Myrtaceae	Calytrix creswellii		Priority Flora Category 3
WAGCOO0002	Myrtaceae	Calytrix violacea		
WAGCOO0002	Myrtaceae	Chamelaucium ciliatum	Stirling Wax	
WAGCOO0002	Lamiaceae	Cyanostegia angustifolia	Tinsel Flower	
WAGCOO0002	Goodeniaceae	Dampiera stenostachya	Narrow-spiked Dampiera	
WAGCOO0002	Sapindaceae	Dodonaea amblyophylla		
WAGCOO0002	Scrophulariaceae	Eremophila longifolia	Berrigan	
WAGCOO0002	Myrtaceae	Eucalyptus oldfieldii	Oldfields Mallee	
WAGCOO0002	Myrtaceae	Eucalyptus rigidula	Stiff leaved Mallee	
WAGCOO0002	Myrtaceae	Euryomyrtus maidenii		
WAGCOO0002	Haloragaceae	Glischrocaryon aureum	Common Popflower	
WAGCOO0002	Goodeniaceae	Goodenia elderi		
WAGCOO0002	Proteaceae	Grevillea didymobotrya subsp. didymobotrya		
WAGCOO0002	Proteaceae	Grevillea excelsior	Orange Flame Grevillea	
WAGCOO0002	Proteaceae	Grevillea haplantha subsp. haplantha		
WAGCOO0002	Proteaceae	Hakea francisiana	Grass Leaf Hakea	
WAGCOO0002	Boraginaceae	Halgania integerrima		
WAGCOO0002	Malvaceae	Seringia elliptica		
WAGCOO0002	Santalaceae	Leptomeria preissiana		
WAGCOO0002	Ericaceae	Leucopogon sp. Boorabbin (K.R.Newbey 8374)		
WAGCOO0002	Myrtaceae	Melaleuca cordata		
WAGCOO0002	Myrtaceae	Melaleuca hamata		
WAGCOO0002	Myrtaceae	Micromyrtus monotaxis		
WAGCOO0002	Proteaceae	Persoonia coriacea		
WAGCOO0002	Proteaceae	Persoonia helix		
WAGCOO0002	Proteaceae	Persoonia saundersiana		
WAGCOO0002	Rutaceae	Phebalium aff. lepidotum		
WAGCOO0002	Lamiaceae	Pityrodia lepidota		
WAGCOO0002	Rhamnaceae	Stenanthemum stipulosum		
WAGCOO0002	Stylidiaceae	Stylidium arenicola		
WAGCOO0002	Stylidiaceae	Stylidium limbatum	Fringe-leaved Triggerplant	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAGCOO0002	Myrtaceae	Thryptomene urceolaris		
WAGCOO0002	Poaceae	Triodia rigidissima		
WAGCOO0002	Poaceae	Triodia sp.		
WAGCOO0002	Myrtaceae	Verticordia chrysantha	Yellow Featherflower	
WAGCOO0002	Lamiaceae	Westringia cephalantha var. cephalantha		
WAGCOO0004	Poaceae	Aristida contorta	Bunched Kerosene Grass	
WAGCOO0004	Chenopodiaceae	Atriplex sp.	orache	
WAGCOO0004	Poaceae	Austrostipa elegantissima	Elegant Spear-grass	
WAGCOO0004	Poaceae	Austrostipa nitida	Balcarra Grass	
WAGCOO0004	Asteraceae	Calotis hispidula	Bindy eye	
WAGCOO0004	Asteraceae	*Carthamus lanatus	Saffron Thistle	
WAGCOO0004	Asteraceae	*Centaurea melitensis	Cockspur Thistle	
WAGCOO0004	Asteraceae	Cephalipterum drummondii		
WAGCOO0004	Chenopodiaceae	Chenopodium curvispicatum	Cottony Saltbush	
WAGCOO0004	Convolvulaceae	Convolvulus remotus	Grassy Bindweed	
WAGCOO0004	Convolvulaceae	Cuscuta planiflora	Small-seeded Alfalfa Dodder	
WAGCOO0004	Poaceae	Enneapogon caeruleus		
WAGCOO0004	Poaceae	Enneapogon polyphyllus	Leafy Nineawn	
WAGCOO0004	Poaceae	Enteropogon ramosus	Curly Windmill Grass	
WAGCOO0004	Poaceae	Eragrostis dielsii	Mallee Love-grass	
WAGCOO0004	Scrophulariaceae	Eremophila longifolia	Berrigan	
WAGCOO0004	Chenopodiaceae	Eriochiton sclerolaenoides	Woolly Bindii	
WAGCOO0004	Malvaceae	Lawrenia repens		
WAGCOO0004	Solanaceae	Lycium australe	Australian Box-thorn	
WAGCOO0004	Chenopodiaceae	Maireana pyramidata	Black Bluebush	
WAGCOO0004	Chenopodiaceae	Maireana sedifolia	Dense Bluebush	
WAGCOO0004	Chenopodiaceae	Maireana trichoptera	Downy Bluebush	
WAGCOO0004	Chenopodiaceae	Maireana triptera	Three-wing Bluebush	
WAGCOO0004	Chenopodiaceae	Maireana turbinata		
WAGCOO0004	Apocynaceae	Marsdenia australis	Doubah	
WAGCOO0004	Fabaceae	*Medicago minima	Burr Medic	
WAGCOO0004	Asteraceae	Minuria cunninghamii	Bush Minuria	
WAGCOO0004	Amaranthaceae	Ptilotus holosericeus		
WAGCOO0004	Amaranthaceae	Ptilotus obovatus	Cotton Bush	
WAGCOO0004	Asteraceae	Rhodanthe floribunda	Common White Sunray	
WAGCOO0004	Poaceae	Rytidosperma caespitosum	Ringed Wallaby Grass	
WAGCOO0004	Chenopodiaceae	Salsola australis		
WAGCOO0004	Lamiaceae	Salvia verbenaca	Vervain	
WAGCOO0004	Chenopodiaceae	Sclerolaena cuneata	Tangled Copperburr	
WAGCOO0004	Chenopodiaceae	Sclerolaena diacantha	Grey Copper Burr	

Plot name	Family	Herbarium determination	Common Name	WA Conservation Code
WAGCOO0004	Chenopodiaceae	Sclerolaena obliquicuspis	Limestone Bindii	
WAGCOO0004	Malvaceae	Sida intricata	Neverfail	
WAGCOO0004	Solanaceae	Solanum lasiophyllum	Flannel Bush	
WAGCOO0004	Asteraceae	Streptoglossa liatroides	Wertaloona Daisy	
WAGCOO0004	Aizoaceae	Tetragonia eremaea	Desert Spinach	
WAGCOO0004	Asteraceae	Vittadinia eremaea		
WAGCOO0004	Asteraceae	Vittadinia sulcata	Furrowed New Holland Daisy	
WAGCOO0004	Zygophyllaceae	Zygophyllum iodocarpum	Violet Twin-leaf	



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