Great Western Woodlands Project

Fire in gimlet woodlands

Overview

Fire is a recurrent disturbance across Mediterranean-climate landscapes. Fire shapes vegetation patterns, community composition and community diversity. Understanding how communities change with aspects of the fire regime, such as time since fire, is crucial for the identification of appropriate fire return intervals for biodiversity conservation.

The Great Western Woodlands (GWW) is an internationally significant area with great biological and cultural richness. This 16 million ha region of south-western Australia arguably comprises the largest and most intact area of contiguous temperate woodland remaining on Earth. The woodlands of the GWW are typically fire sensitive and are at risk from inappropriate fire regimes.

Project Aims

The project addresses fire ecology and management in the GWW, by using space-for-time surveys to investigate the effects of time since fire on assembly and recovery of plant community composition, development of ecosystem structure, and fuel dynamics. These components of the project are ongoing, with a journal paper on assembly and recovery of plant community composition under review. The 'Fire in Gimlet woodlands' webpages will be updated with this new information when it becomes available.

A key component of the research has been the development of methods to estimate the time since fire of long-unburnt vegetation.

The research will deliver critical information for the ecological management of fire in the GWW.

Study location

The GWW are located in south-western Australia, between the largely cleared wheatbelt to the west and arid rangelands to the east and north. Our study was conducted in the western portion of the GWW.

Methods

We identified woodlands dominated by gimlet (*Eucalyptus salubris*) as being an important community to investigate the effects of time since fire on vegetation composition. Gimlet is a tree killed by complete canopy scorch and is a dominant canopy species in woodlands across the breadth of the GWW. Please follow the links for full details on how plot time since fire was determined and how vegetation composition and soil characteristics were measured.

Resources and publications

Follow these links for access to project data, metadata and resources and publications.

Contacts, project team and recommended citation

Click here for further details.

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Acknowledgements

This project was jointly supported by the Department of Environment and Conservation's (DEC) Great Western Woodlands Conservation Strategy, CSIRO Ecosystem Sciences (CES) and the Australian Supersite Network, part of the Australian Government's Terrestrial Ecosystems Research Network, a research infrastructure facility established under the National Collaborative Research Infrastructure Strategy and Education Infrastructure Fund - Super Science Initiative - through the Department of Industry, Innovation, Science, Research and Tertiary Education. Georg Wiehl (CES), Paul Gioia, Aminya Ennis, Lachie McCaw and Glen Daniel (all DEC) contributed to various aspects of the project.

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Great Western Woodlands Project

Estimating the time since fire of long-unburnt *Eucalyptus salubris* plots - Methods

The full details of the methods, results and management implications of this research can be found in Gosper et al. (2013), but the methods are briefly summarized here.

Aims

Establishing the time since disturbance is a significant challenge in infrequently-disturbed communities. We aimed to characterise the relationship between observable tree rings, plant age and plant size in *Eucalyptus salubris*, to extend the ability to determine the time since fire of woodland stands beyond that available from satellite imagery. We then estimated the age of long-unburnt *E. salubris* stands and the age class distribution of Eucalyptus woodlands more broadly.

Study location

Eucalyptus salubris woodlands in semi-arid Mediterranean climate south-western Australia, in the western parts of the Great Western Woodlands in the districts of Karroun Hill (30°14'S, 118°30'E), Yellowdine (31°17'S, 119°39'E) and Parker Range (31°47'S, 119°37'E).

Plot selection

In each district, 50 m x 50 m plots were placed in relatively uniform *E. salubris* woodland in each of the following time since fire age classes: < 10 years (4-8 plots per district), 38-60 years (3-5 plots per district) and long-unburnt (> 60 years; 11-13 plots per district). An additional 3 plots 10-38 years post-fire were sampled where such fires had occurred, giving a total of 72 plots.

Determining time since fire of sample plots

At each plot we sampled 16 trees by use of a modified version of the point-centred quarter method, measuring the diameter at the base of trunks (D_{10}) and plant height of the nearest tree in each of the four compass quadrants radiating from the four corners of each plot. At 39 of the 72 sites, we randomly selected three individual *E. salubris*, and measured plant height and diameter at their base (D_{10}). We then took either a basal trunk section using a hacksaw (*n* = 100 trees, 34 sites; sanded prior to scoring for growth rings) or a 12 mm diameter core using a motorised tree corer (*n* = 17 trees, seven sites; two sites has a combination of sections and cores), depending on plant size. As nearly all trees sufficiently large as to require coring were hollow, only sections were used in analyses.

Regression analyses were used to test for relationships between:

1. plant age (assumed to be equal to plot time since fire, as determined from Landsat imagery for plots burnt since 1972) and mean number of growth rings per trunk. Linear relationships were strong and positive, indicating growth rings can be used to estimate plant time since fire;
2. mean number of growth rings per trunk and various combinations of plant size (plant diameter at the base and/or plant height) and plot location. For relationships between ring count and plant size and location variables, linear models were tested on untransformed, and square-root and $\log_{10}$ transformed ring counts, to test if plant growth rate declined with plant age. Models were compared on the basis of maximising adjusted r^2 and (within transformation alternatives) minimizing AIC (Akaike information criterion). Plant height reached a plateau shortly beyond the tallest trees with a complete growth ring record, indicating that tree height was likely to be a poor predictor of growth rings in old trees. The best performing plausible models were: (1) untransformed growth rings predicted by tree diameter + location; and (2) square-root growth rings predicted by tree diameter + location. These are the two models used for generating alternative time since fire estimates for long-unburnt plots.

The effectiveness of the models in estimating growth rings was tested using the plant size data from the point-centred quarter measurements, using all 23 plots of known age (burnt after 1972). Pearson's correlation coefficient indicated a moderately strong correlation between known age and estimated age from the best-performing models.

Plant size data from the point-centred quarter measurements was used at plots not burnt since 1972 and without a complete growth ring record to estimate their time since fire. The two best-performing plausible models produced large differences in estimated plot times since fire of the longest-unburnt plots (with the model of untransformed growth rings (Model 2) producing much lower estimates (range 88-370 years) than the model of square-root transformed growth rings (Model 5; range 110-1460 years)), with uncertainty in time since fire estimates increasing especially beyond 200 years post-fire.

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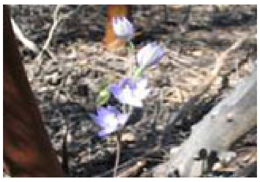
Fire in gimlet woodlands

Plant diversity in fire-sensitive temperate eucalypt woodlands - Methods



The full details of the methods, results and management implications of this research will be available in a journal publication shortly, but are briefly summarized here.

Aim

To better understand the impacts of time since fire on plant composition and diversity in fire-sensitive eucalypt woodlands, using a space-for-time approach.

Study location

Eucalyptus salubris woodlands in semi-arid Mediterranean climate south-western Australia, in the western parts of the Great Western Woodlands near Karroun Hill (30°14'S, 118°30'E), Yellowdine (31°17'S, 119°39'E) and Parker Range (31°47'S, 119°37'E).

Plot selection

Each of the 72 plots was 50 x 50 m (unless as noted on sites table), with sides aligned north-south and east-west and with a steel dropper placed in the north-west corner. Plots were placed in relatively uniform vegetation within 1 km of vehicular tracks on public land; Nature Reserves, Unallocated Crown Land or Unmanaged Reserves. Plots were spaced at least 250 m apart, and at least 500 m apart for plots of the same time since fire. Plot location was taken with a GPS. Plot times since fire were determined using a combination of Landsat imagery, growth ring counts and growth ring-plant size relationships. The time since fire range of samples was 3-370 years (using Model 2 of Gosper et al. (2013); using an equally valid alternative model for estimating time since fire this range was 3-1460 years; Gosper et al. (2013)).

Flora sampling

In each plot we recorded the vascular plant taxa present by tallying all species detected in nested plots of 1, 5, 10, 25, 100, 500, 1000 and 2500 m^2. Abundance was estimated by systematically placing a 12.5 mm diameter pole vertically at 50 points per plot, each 3 m apart, and recording the identity of all plants with live parts intercepting the pole. Sixteen of these points were placed along each of the two sides of the 50 x 50 m plot commencing at the north-west corner, with the remaining 18 points placed along the diagonal starting in the same corner. This technique provided an objective measure of abundance reflecting but not equivalent to projective cover. Species that were present but not recorded at point intercepts were allocated a nominal proportional abundance of 1%.

Diversity indices

Diversity indices were calculated per plot. We tallied total species number per plot (species density), and using cover data, calculated the Shannon diversity index ($\log_e x$) and Pielou's evenness index.

Soil sampling

A single bulked sample of the top 10 cm of soil was taken from aggregation of multiple 2 cm diameter sub-samples collected from a subset of 52 plots. Samples were stored at ~4°C until delivery to the CSBP Futurefarm analytical laboratories (Bibra Lake, WA), where they were thoroughly mixed, air dried at 40°C, and ground to pass through a 2 mm sieve. Analyses were undertaken on each bulked sample to determine available phosphorus, potassium, ammonium, nitrate, organic carbon, extractable sulphur, pH ($CaCl_2$) and conductivity.

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Data downloads

Two data files are available for download, in Microsoft Excel format. Metadata associated with this information is available. These data are currently being used for research into the impacts of fires on *Eucalyptus salubris* woodlands. These data have been used to support one journal publication, with a second under review at present. While these data are freely available for use, we request that potential users contact the project team to discuss opportunities for collaboration. Note that some of these data are duplicates of data available at the TERN Data Discovery Portal, lodged under the project "Time-since-fire plots. Great Western Woodlands (1) Floristic composition and diversity".

1. A table listing the plots sampled, their location, their estimated time since fire and the sample data collected at each.
2. A table containing data on plot diversity indices, species-area relationships, floristic cover and soil nutrient composition.
3. A representative photo from each plot is below. Note that all photos are copyright 'Carl Gosper and Georg Wiehl, Department of Environment and Conservation and CSIRO Ecosystem Sciences'


Site photos

Click on each site number for a site photograph. All photos are copyright 'Carl Gosper and Georg Wiehl, Department of Environment and Conservation and CSIRO Ecosystem Sciences.'

GIM01 GIM02 GIM03 GIM04
GIM05 GIM06 GIM07 GIM08
GIM09 GIM10 GIM11 GIM12
GIM13 GIM14 GIM15 GIM16
GIM17 GIM18 GIM19 GIM20
GIM21 GIM22 GIM23 GIM24
GIM25 GIM26 GIM27 GIM28
GIM29 GIM30 GIM31 GIM32

GIM33 GIM34 GIM35 GIM36
GIM37 GIM38 GIM39 GIM40
GIM41 GIM42 GIM43 GIM44
GIM45 GIM46 GIM47 GIM48
GIM49 GIM50 GIM51 GIM52
GIM53 GIM54 GIM55 GIM56
GIM57 GIM58 GIM59 GIM60
GIM61 GIM62 GIM63 GIM64
GIM65 GIM66 GIM67 GIM68
GIM69 GIM70 GIM71 GIM72

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Resources and publications

The following publications describe the results, outcomes and management implications of the project. Additional publications will be added as they become available. Some publications are downloadable as PDFs, others have links to websites hosting the publication.


Information Sheet 65 / 2013
Science Division

Ageing long-unburnt Gimlet woodlands

Background

Findings

Estimating the time since fire of gimlet woodlands

Journal paper

This contains the technical details of the research and has undergone peer-review.

Gosper, C.R., Prober, S.M., Yates, C.J. and Wiehl, G. (2013) Estimating the time since fire of long-unburnt *Eucalyptus salubris* (Myrtaceae) stands in the Great Western Woodlands. Australian Journal of Botany 61, 11-21. doi: 10.1071/BT12212

DEC Science Division Information Sheet

This provides a 2-page summary of the key findings and management implications of our research.

Gosper, C., Yates, C. and Prober, S. (2013) Ageing long-unburnt gimlet woodlands. Science Division Information Sheet 65/2013.

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Metadata

Title

Fire regimes and effects of fire in gimlet (*Eucalyptus salubris*) woodlands

Abstract

Disturbances are important ecosystem processes affecting patterns of species diversity (including species richness, diversity and evenness) and community composition. Determining appropriate disturbance regimes for particular ecosystems is thus an important issue for natural resource management. There have been few studies of the response of plant species composition and diversity to fire in 'fire-sensitive' Mediterranean-climate woodlands, where the dominant overstorey trees are typically killed by fire, resulting in dense post-fire recruitment. The Great Western Woodlands (GWW) region of south-western Australia supports the world's largest remaining area of Mediterranean-climate woodland, which in mosaic with mallee, shrublands and salt lakes cover an area of 160 000 km^2. *Eucalyptus* woodlands in this region are typically fire-sensitive, and fire return intervals recorded over recent decades have been much shorter than the long-term average. This has led to considerable conservation concern regarding the loss of mature woodlands, and has highlighted a need to better understand how plant species composition and diversity changes with time since fire. We established a series of plots in gimlet woodlands within the Great Western Woodlands TERN Supersite at a range of times since fire (72 50 x 50 m plots). To estimate plot ages for this study we used satellite imagery, growth ring counts and relationships between growth ring counts and plant size.

Keywords

Ecological fire management; fire interval; Mediterranean-type ecosystem; obligate seeder; space-for-time; succession

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Funding Sources

1. A biodiversity and cultural conservation strategy for the Great Western Woodlands, Western Australian Department of Environment and Conservation
2. Australian Supersite Network, part of the Australian Government's Terrestrial Ecosystems Research Network, a research infrastructure facility established under the National Collaborative Research Infrastructure Strategy and Education Infrastructure Fund - Super Science Initiative - through the Department of Industry, Innovation, Science, Research and Tertiary Education.

Usage Rights

These data are currently being used for research into the impacts of fires on *Eucalyptus salubris* woodlands. These data have been used to support one journal publication, with a second under review at present. These data are freely available for use, however, we request that potential users contact the project team to discuss opportunities for collaboration. Note that some of these data are duplicates of data available at the TERN Data Discovery Portal, lodged under the project "Time-since-fire plots. Great Western Woodlands (1) Floristic composition and diversity".

Geographic coverage

The western half of the Great Western Woodlands, south-western Western Australia. Plots were established in the vicinities of Karroun Hill (30°14'S, 118°30'E); Yellowdine (31°17'S, 119°39'E) and Parker Range (31°47'S, 119°37'E).

Temporal coverage

1 July 2010 to 1 December 2012

Taxonomic coverage

All vascular flora. Taxonomy follows Florabase, Western Australian Herbarium (1998-2012) as at 4 January 2011.

Methods

See links for methods for estimating the time since fire of *E. salubris* plots and measuring floristic diversity.

Description of columns in data files

1. Plot details table

Column Header	Descriptor
Plot number	
Datum	
Zone	UTM
Easting	NB - in text format to preserve 0
Northing	
Latitude	
Longitude	
Location accuracy	
Elevation	Metres above sea level (measured with GPS)
Aspect	
Topo position	Topographic position
Location	Written description of plot location
Tenure	UCL = Unallocated Crown land; NR = Nature Reserve
Date established	Same as date plot sampled for flora
Vegetation	Lists dominant canopy species
Surface soil description	Written description
Soil_sample	Sample number
Photos	Y = Yes for plot photo(s)
Species-area	Y = Yes for species-area data (nested subplots within 50 x 50 m)
Flora_richness	Y = Yes for species density determined per 2500 m^2 plot
Flora_cover	Y = Yes for floristic cover measured
Veg_structure	Y = Yes for vegetation structure measured
Fuel	Y = Yes for VESTA fuel assessment conducted
LS Fire year	Year of fire from Landsat image analysis
LS Yrs since fire	Years since fire from Landsat image analysis (i.e. time since fire truncated at 60 years for plots with no evidence of fire in the oldest (1972) Landsat image.
Model 2 fire date	Year of fire (= number of growing seasons post-fire, not necessarily calendar year) of plots from Landsat image analysis, estimates from growth ring counts, and growth ring-size relationships using Model 2 of Gosper et al. (2013). Model 2 and Model 5 were the best-fitting plausible models.
Model 2 yrs since fire	Years since fire (growth seasons) from estimates from Landsat image analysis, growth ring counts and growth ring-size relationships using Model 2 of Gosper et al. (2013).
Model 5 fire date	Year of fire (= number of growing seasons post-fire, not necessarily calendar year) of plots from Landsat image analysis, estimates from growth ring counts, and growth ring-size relationships using Model 5 of Gosper et al. (2013). Model 2 and Model 5 were the best-fitting plausible models.
Model 5 yrs since fire	Years since fire (growth seasons) from estimates from Landsat image analysis, growth ring counts and growth ring-size relationships using Model 5 of Gosper et al. (2013).
Dating method	Method used for determining 'Model 2 (or 5) yrs since fire': L = Landsat, R = growth ring count, E = estimate from growth ring-size relationships
Notes	

2. Diversity-floristics table: Diversity indices worksheet

Column Header	Descriptor
Plot	Plot number. NB - All indices per 2500 m2 area
Species_density	Number of species per plot
Evenness	Pielou's evenness calculated on cover data
Diversity	Shannon diversity index (logex) calculated on cover data

3. Diversity-floristics table: Species-area worksheet

Column Header	Descriptor
Plot	Plot number
1 m^2	Cumulative number of species per subplot area
5m^2	Cumulative number of species per subplot area
10m^2	Cumulative number of species per subplot area
25m^2	Cumulative number of species per subplot area
100m^2	Cumulative number of species per subplot area
500m^2	Cumulative number of species per subplot area
1000m^2	Cumulative number of species per subplot area
2500m^2	Cumulative number of species per plot area

4. Diversity-floristics table: Floristic cover worksheet

Column Header	**Descriptor**
Plot	Plot number
Acacia andrewsii	Cover of Acacia andrewsii (0 = absent, 1% = present but not recorded at point intercepts, 2% = recorded at 1 of 50 intercepts etc)
etc	

5. Diversity-floristics table: Soils data

Column Header	**Descriptor (see methods)**
Plot_Number	
Ammonium	
Nitrate	
P	Available phosphorus
K	Potassium
Sulphur	Extractable sulphur
Organic_C	Organic carbon
Conductivity	Conductivity (1:5 soil:water extract)
pH (CaCl$_2$)	pH (1:5 soil/0.01M CaCl$_2$)

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Contact information

Please contact us for further information on any aspect of the study.

Recommended citation

To cite the study methodology, please cite the relevant publication(s). Citation for the data:

Gosper CR, Yates CJ and Prober SM (2013). Fire in gimlet woodlands. NatureMap, Department of Environment and Conservation. On-line: http://naturemap.dec.wa.gov.au/Query.aspx?querytype=content&content=gimlet

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Plot	Species_density	Evenness	Diversity
GIM01	18	0.522	1.509
GIM02	42	0.6629	2.478
GIM03	28	0.7673	2.557
GIM04	23	0.728	2.283
GIM05	26	0.7342	2.392
GIM06	41	0.826	3.068
GIM07	57	0.8756	3.54
GIM08	53	0.8413	3.34
GIM09	29	0.6924	2.331
GIM10	21	0.678	2.064
GIM11	43	0.8351	3.141
GIM12	41	0.8278	3.074
GIM13	42	0.7051	2.635
GIM14	24	0.6957	2.211
GIM15	27	0.7147	2.356
GIM16	37	0.7056	2.548
GIM17	40	0.7548	2.784
GIM18	32	0.7713	2.673
GIM19	50	0.8497	3.324
GIM20	35	0.6966	2.477
GIM21	49	0.7743	3.013
GIM22	43	0.6931	2.607
GIM23	27	0.6483	2.137
GIM24	18	0.7141	2.064
GIM25	37	0.8233	2.973
GIM26	62	0.8228	3.396
GIM27	41	0.8502	3.157
GIM28	33	0.8865	3.1
GIM29	40	0.7805	2.879
GIM30	34	0.7779	2.743
GIM31	27	0.6603	2.176
GIM32	31	0.7399	2.541
GIM33	28	0.7165	2.387
GIM34	25	0.608	1.957
GIM35	27	0.7632	2.515
GIM36	32	0.7373	2.555
GIM37	40	0.7477	2.758
GIM38	32	0.7812	2.708
GIM39	55	0.7393	2.963
GIM40	44	0.7864	2.976
GIM41	40	0.8038	2.965
GIM42	34	0.7417	2.615
GIM43	59	0.7385	3.011
GIM44	33	0.6627	2.317
GIM45	27	0.7407	2.441
GIM46	52	0.8451	3.339
GIM47	53	0.793	3.148
GIM48	30	0.5569	1.894
GIM49	20	0.7529	2.256

GIM50	36	0.849	3.042
GIM51	41	0.7598	2.822
GIM52	33	0.7661	2.679
GIM53	46	0.6759	2.588
GIM54	55	0.7189	2.881
GIM55	49	0.7245	2.82
GIM56	31	0.7851	2.696
GIM57	56	0.8225	3.311
GIM58	71	0.872	3.717
GIM59	38	0.7228	2.629
GIM60	28	0.6637	2.211
GIM61	62	0.828	3.417
GIM62	25	0.6761	2.176
GIM63	49	0.8467	3.295
GIM64	47	0.7162	2.757
GIM65	36	0.8321	2.982
GIM66	41	0.769	2.856
GIM67	39	0.7924	2.903
GIM68	24	0.8048	2.558
GIM69	35	0.7995	2.842
GIM70	61	0.9328	3.835
GIM71	52	0.8842	3.494
GIM72	31	0.8857	3.042

Notes to accompany diversity indices spreadsheet

Date custodian	Carl Gosper	carl.gosper@dec.wa.gov.au
	All indices per 2500 m2 area	
Species_density	Number of species per plot (2500m2)	
Evenness	Pielou’s evenness calculated on cover data	
Diversity	Shannon diversity index ($\log_e x$) calculated on cover data	

Plot	1 m2	5m2	10m2	25m2	100m2	500m2	1000m2	2500m2
GIM01	2	3	4	4	8	10	15	18
GIM02	1	3	5	7	10	21	29	42
GIM03	4	5	6	7	11	18	26	28
GIM04	4	5	6	7	9	14	16	23
GIM05	6	7	7	8	9	17	19	26
GIM06	5	9	13	14	22	30	35	41
GIM07	8	18	26	34	39	48	55	57
GIM08	0	20	23	25	42	48	52	53
GIM09	4	6	9	11	15	20	23	29
GIM10	4	6	7	7	11	13	13	21
GIM11	1	3	4	8	16	25	32	43
GIM12	4	8	11	14	18	24	33	41
GIM13	0	5	6	12	22	27	31	42
GIM14	1	1	1	2	7	11	20	24
GIM15	7	10	11	12	13	19	23	27
GIM16	3	5	10	11	13	27	29	37
GIM17	5	5	5	6	13	19	25	40
GIM18	2	3	6	6	12	20	24	32
GIM19	1	5	7	7	20	40	45	50
GIM20	6	6	9	12	18	31	34	35
GIM21	2	5	8	9	19	37	43	49
GIM22	0	4	7	12	19	31	33	43
GIM23	3	6	9	11	12	13	17	27
GIM24	3	4	5	5	7	11	15	18
GIM25	2	4	9	12	24	32	35	37
GIM26	3	6	7	11	16	25	40	62
GIM27	1	7	10	14	18	28	34	41
GIM28	2	5	7	12	15	21	24	33
GIM29	2	4	6	8	14	25	28	40
GIM30	3	6	9	12	17	23	27	34
GIM31	3	4	7	8	10	17	19	27
GIM32	4	7	8	11	18	22	25	31
GIM33	3	3	4	10	13	19	24	28
GIM34	2	5	7	9	11	13	16	25
GIM35	3	5	6	6	9	16	19	27
GIM36	3	7	8	9	14	19	20	32
GIM37	2	4	5	13	16	28	34	40
GIM38	2	3	7	9	15	22	26	32
GIM39	3	5	7	8	19	38	47	55
GIM40	4	9	10	12	22	29	35	44
GIM41	2	4	7	7	18	30	32	40
GIM42	4	6	10	13	13	22	30	34
GIM43	3	13	16	21	30	36	51	59
GIM44	2	4	5	6	9	15	20	33
GIM45	1	2	3	7	8	15	20	27
GIM46	1	5	8	15	20	26	47	52
GIM47	2	4	6	7	27	39	46	53
GIM48	1	3	3	6	7	12	24	30
GIM49	1	1	2	4	8	14	17	20

GIM50	0	4	6	7	11	22	27	36
GIM51	0	1	3	8	10	21	32	41
GIM52	2	4	4	7	11	16	30	33
GIM53	3	5	8	9	14	28	30	46
GIM54	2	5	11	17	23	38	42	55
GIM55	4	9	9	12	18	29	32	49
GIM56	1	5	6	10	20	28	29	31
GIM57	8	13	16	20	29	39	44	56
GIM58	4	19	21	30	46	52	57	71
GIM59	0	3	7	10	14	16	22	38
GIM60	1	5	7	10	18	24	26	28
GIM61	8	13	17	27	40	55	59	62
GIM62	1	1	2	3	6	15	19	25
GIM63	0	3	6	12	25	37	43	49
GIM64	3	3	6	7	15	21	26	47
GIM65	7	8	8	10	16	27	33	36
GIM66	3	5	8	13	19	23	28	41
GIM67	8	14	19	20	25	29	33	39
GIM68	1	3	4	12	16	17	22	24
GIM69	3	4	4	5	6	16	17	35
GIM70	1	1	1	6	15	45	55	61
GIM71	2	3	10	15	23	41	44	52
GIM72	1	1	5	6	9	17	21	31

Plot	Acacia andrewsii	Acacia anthochaera	Acacia asepala	Acacia assimilis subsp. assimilis	Acacia beauverdiana	Acacia camptoclada	Acacia chrysella	Acacia colletioides	Acacia concolorans	Acacia deficiens	Acacia densiflora	Acacia duriuscula	Acacia enervia subsp. enervia	Acacia enervia subsp. explicata	Acacia erinacea	Acacia hemiteles	Acacia intricata	Acacia jennerae	Acacia kalgoorliensis	Acacia ligustrina	Acacia longispinea	Acacia merrallii	Acacia nigripilosa subsp. nigripilosa
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[illegible]	0	0	0	0	0	0	0	12	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0
[illegible]	0	0	0	0	0	0	0	4	0	0	0	0	2	0	2	1	0	0	0	0	0	1	0
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[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	0
[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Plot	Acacia nyssophylla	Acacia poliochroa	Acacia prainii	Acacia resinimarginea	Acacia resinistipulea	Acacia sericocarpa	Acacia sp. narrow phyllode (B.R. Maslin 7831)	Acacia steedmanii subsp. steedmanii	Acacia warramaba	Actinobole uliginosum	Allocasuarina acutivalvis subsp. acutivalvis	Allocasuarina helmsii	Alyxia buxifolia	Amphipogon caricinus var. caricinus	Amyema miquelii	Angianthus tomentosus	Aristida contorta	Arthropodium curvipes	Arthropodium dyeri	Asteridea athrixioides	Astroloma serratifolium	Atriplex nummularia subsp. spathulata	Atriplex vesicaria
[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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[illegible]	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
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[illegible]	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	1	0	0	0	0	0
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[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
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[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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[illegible]	1	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
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Plot	Austrodanthonia caespitosa	Austrostipa elegantissima	Austrostipa eremophila	Austrostipa hemipogon	Austrostipa puberula	Austrostipa scabra subsp. scabra	Austrostipa trichophylla	Regelia inops	Blennospora drummondii	Brachyscome iberidifolia	Bromus rubens	Bulbine semibarbata	Caladenia sp.	Calamphoreus inflatus	Calandrinia eremaea	Callitris canescens	Callitris preissii	Calocephalus multiflorus	Calotis hispidula	Calytrix birdii	Carpobrotus modestus	Cassytha glabella	Cassytha melantha
[illegible]	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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[illegible]	1	8	0	1	0	0	2	0	1	1	0	0	0	0	1	0	0	0	2	0	0	0	0
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Cassytha nodiflora	Centaurea melitensis	Centrolepis sp.	Cephalipterum drummondii	Cheilanthes adiantoides	Chthonocephalus pseudevax	Comesperma integerrimum	Coopernookia strophiolata	Crassula exserta	Cryptandra wilsonii	Daucus glochidiatus	Daviesia argillacea	Daviesia articulata	Daviesia benthamii subsp. acanthoclona	Daviesia grahamii	Daviesia nematophylla	Dianella revoluta var. divaricata	Dodonaea bursariifolia	Dodonaea inaequifolia	Dodonaea microzyga var. acrolobata	Dodonaea stenozyga	Dodonaea viscosa subsp. angustissima	Enchylaena lanata	Eragrostis dielsii	Eremophila caerulea subsp. merrallii	Eremophila caperata	Eremophila clarkei	Eremophila decipiens subsp. decipiens	Eremophila drummondii	Eremophila glabra subsp. albicans	Eremophila ionantha	Eremophila oppositifolia subsp. angustifolia	Eremophila scoparia	Eriochiton sclerolaenoides	Erodium cygnorum	Erymophyllum ramosum subsp. ramosum	Eucalyptus calycogona subsp. calycogona	Eucalyptus capillosa subsp. capillosa	Eucalyptus celastroides subsp. celastroides	Eucalyptus celastroides subsp. virella	Eucalyptus cylindrocarpa	Eucalyptus eremophila	Eucalyptus extensa	Eucalyptus flocktoniae subsp. flocktoniae	Eucalyptus longicornis	Eucalyptus loxophleba subsp. lissophloia	Eucalyptus moderata	Eucalyptus polita	Eucalyptus salmonophloia	Eucalyptus salubris	Eucalyptus sheathiana	Eucalyptus subangusta subsp. subangusta	Eucalyptus yilgarnensis	Eutaxia lasiocalyx	Eutaxia sp.	Exocarpos aphyllus	Exocarpos sparteus	Gilruthia osbornei	[illegible]	[illegible]
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Glischrocaryon flavescens	Goodenia berardiana	Goodenia mimuloides	Goodenia pusilliflora	Grevillea acuaria	Grevillea huegelii	Grevillea oncogyne	Grey stunted daisy	Hakea erecta	Hakea francisiana	Hakea invaginata	Hakea kippistiana	[illegible]	Hakea recurva	Halgania andromedifolia	Haloragis trigonocarpa	Haloragodendron glandulosum	Hyalosperma demissum	Hyalosperma glutinosum subsp. glutinosum	Hydrocotyle pilifera var. glabrata	Hydrocotyle rugulosa	Hypochaeris glabra	Keraudrenia integrifolia	Lachnagrostis plebeia	Lawrencella rosea	Lepidium oxytrichum	Lepidosperma sp. A2 Inland Flat (G.J. Keighery 7000)	Leptosema daviesioides	Leucochrysum fitzgibbonii	Levenhookia leptantha	Lobelia cleistogamoides	Lobelia rarifolia	Lolium rigidum	Lomandra effusa	Lycium australe	Lysiana casuarinae	Lysimachia arvensis	Maireana carnosa	Maireana georgei	Maireana thesioides	Maireana trichoptera	Maireana triptera	Medicago minima	Melaleuca acuminata subsp. acuminata	Melaleuca adnata	Melaleuca atroviridis	Melaleuca ctenoides	Melaleuca cucullata	Melaleuca eleuterostachya	Melaleuca hamata	Melaleuca johnsonii	Melaleuca lateriflora	Melaleuca laxiflora	Melaleuca pauperiflora subsp. fastigiata	Melaleuca pauperiflora subsp. pauperiflora	Melaleuca phoidophylla	Melaleuca sheathiana	Melaleuca sparsiflora	Melaleuca spicigera	Melaleuca stereophloia	Melaleuca zeteticorum	Mesembryanthemum crystallinum	Microcybe multiflora subsp. multiflora	Microtis eremaea	Monachather paradoxus	Olearia exiguifolia	Olearia muelleri
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Olearia pimeleoides	Omphalolappula concava	Pentaschistis airoides	Persoonia coriacea	Phebalium drummondii	Phebalium filifolium	Phebalium lepidotum	Phebalium megaphyllum	Phebalium tuberculosum	Philotheca brucei subsp. brucei	Phlegmatospermum drummondii	Plantago debilis	Podolepis capillaris	Podolepis tepperi	Podotheca gnaphalioides	Pogonolepis stricta	Poranthera microphylla	Prostanthera semiteres subsp. semiteres	Pterostylis sp.	Ptilotus carlsonii	Ptilotus drummondii var. scaposus	Ptilotus exaltatus var. villosus	Ptilotus gaudichaudii var. parviflorus	Ptilotus holosericeus	Ptilotus obovatus	Ptilotus spathulatus forma spathulatus	Rhagodia drummondii	Rhagodia preissii subsp. preissii	Rhodanthe chlorocephala subsp. rosea	Rhodanthe citrina	Rhodanthe laevis	Rhodanthe oppositifolia	Rhodanthe pygmaea	Rhodanthe rubella	Rinzia carnosa	Rostraria pumila	Santalum acuminatum	Santalum spicatum	Scaevola spinescens	Schoenia cassiniana	Sclerolaena diacantha	Sclerolaena drummondii	Sclerolaena eriacantha	Sclerolaena parviflora	Senecio glossanthus	Senna artemisioides subsp. filifolia	Senna pleurocarpa var. angustifolia	Senna stowardii	Siloxerus pygmaeus	Sisymbrium runcinatum	Solanum hoplopetalum	Solanum nummularium	Sonchus oleraceus	Stellaria filiformis	Stenopetalum filifolium	Tecticornia disarticulata	Templetonia smithiana	Thelymitra petrophila	Thysanotus manglesianus
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0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	1	0	1
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0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
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0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	4	0	1	0	0	1	0	1	0	0	1	0	1	1	0	1	1	0	2	0	1
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0

Notes to accompany floristic cover data

Date custodian	Carl Gosper	carl.gosper@dec.wa.gov.au

Methods for floristic sampling

Plots were sampled in spring 2010 or spring 2011, with each time since fire class sampled in each year.

For each plot we recorded the vascular plant taxa present and estimated their abundance.

To measure abundance we systematically placed a 12.5 mm diameter pole vertically at 50 points per plot (along two sides of the plot and the diagonal), each 3 m apart, and recorded the identity of all plants with live parts intercepting the pole.

Species that were present but not recorded at point intercepts were allocated a nominal proportional abundance of 1%.

Taxonomy follows the Western Australian Herbarium (1998-2012) as at Jan 2012.

Plot_Number	Ammonium	Nitrate	P	K	Sulphur	Organic_C	Conductivity	pH (CaCl2)
GIM01	1	1	4	223	5.29	1.27	0.122	6.4
GIM02	0.5	1	1	187	2.16	0.85	0.075	6.4
GIM03	1	0.5	5	130	10.6	0.99	0.21	6.4
GIM04	1	3	2	373	4.21	1.83	0.157	7.8
GIM05	1	1	1	225	1.98	0.91	0.146	7.8
GIM06	1	2	1	211	2.73	0.97	0.075	7.2
GIM07	1	4	2	221	3.77	0.77	0.099	6.5
GIM08	1	3	1	404	2.05	0.78	0.12	7.6
GIM09	1	1	1	176	3.88	1.13	0.127	7.1
GIM10	1	1	2	185	12.5	0.97	0.259	6.5
GIM11	1	1	2	197	1.93	0.94	0.031	5.7
GIM12	1	4	2	274	2.08	1.03	0.1	6.9
GIM13	0.5	1	2	147	1.07	0.44	0.02	6.6
GIM14	1	4	4	475	2.46	1.28	0.071	6.7
GIM15	1	5	4	466	5.49	1.9	0.195	7.7
GIM16	1	3	3	448	3.09	1.2	0.186	7.6
GIM17	1	7	6	356	4.24	1.31	0.283	7.7
GIM18	1	2	2	371	2.04	0.89	0.065	6.3
GIM19	1	0.5	2	243	1.6	0.68	0.145	7.7
GIM20	1	2	3	186	3.13	1.15	0.081	5.6
GIM21	1	1	1	86	0.92	0.42	0.018	6.3
GIM22	2	2	2	40	1.53	0.72	0.044	6.3
GIM23	1	1	1	88	1.96	0.67	0.028	6.3
GIM24	2	2	4	264	6.43	1.27	0.183	6.2
GIM25	1	2	2	163	2.04	0.71	0.075	5.9
GIM26	2	4	4	193	9.51	1.82	0.098	6.1
GIM27	1	2	1	237	1.73	0.79	0.156	7.1
GIM28	1	1	3	198	3.22	0.48	0.065	7.2
GIM29	2	3	5	180	2.37	0.47	0.019	5.1
GIM30	1	6	8	176	3.94	0.98	0.1	5.8
GIM31	2	9	5	172	20.7	1.93	0.253	5.8
GIM32	2	8	9	400	3.6	1.46	0.115	6.5
GIM33	1	2	5	223	1.39	0.85	0.046	6.1
GIM34	1	1	4	421	1.4	0.77	0.161	7.2
GIM35	1	7	3	169	2.64	1.05	0.086	6.5
GIM36	1	9	4	248	3.04	1.19	0.069	5.9
GIM37	1	1	6	394	1.09	0.87	0.112	7.4
GIM38	1	2	16	352	1.91	0.91	0.123	7.6
GIM39	1	2	5	245	2.87	0.83	0.074	7
GIM40	1	1	4	221	1.32	0.55	0.018	5.8
GIM41	1	1	3	132	1.37	0.6	0.028	6.1
GIM42	1	2	3	143	1.37	0.77	0.049	5.9
GIM43	1	1	14	148	0.96	0.59	0.02	5.8
GIM44	1	6	6	252	9.93	1.12	0.296	6.2
GIM45	2	23	5	246	9.04	1.78	0.247	6.2
GIM46	1	1	2	409	1.31	0.71	0.105	7.1
GIM47	1	2	3	197	1.56	0.47	0.036	6
GIM48	1	1	4	229	2.41	1.18	0.101	6.8
GIM49	1	3	3	311	5.48	0.99	0.205	6.6

GIM50	1	1	2	216	3.15	0.62	0.075	5.2
GIM51	1	3	3	204	10.8	0.84	0.233	6.1
GIM52	1	3	8	255	6.33	1.43	0.221	6.2

Notes to accompany soils data spreadsheet

Date custodian	Carl Gosper	carl.gosper@dec.wa.gov.au

Methods for soil sampling

We analysed a single bulked sample of the top 10 cm of soil from aggregation of multiple 2 cm diameter sub-samples collected from throughout each of 52 50 x 50 m plots sampled in spring 2010.

Samples were stored at ~4^{o}C until delivery to the CSBP Futurefarm analytical laboratories (Bibra Lake, WA), where they were thoroughly mixed, air dried at 40 °C, and ground to pass through a 2 mm sieve.

Analyses were undertaken on each bulked sample as follows (where given, method numbers apply to Rayment and Higginson 1992)

available phosphorus (Colwell method, bicarbonate-extractable phosphorus - manual colour, 9B1)

potassium (Colwell method, bicarbonate-extractable potassium, 18A1)

ammonium and nitrate (measured simultaneously using Lachat Flow Injection Analyser, soil:solution ratio 1:5, 1M KCl, indophenol blue, Searle 1984, and with copperized-cadmium column reduction)

organic carbon (Walkley and Black method, 6A1)

extractable sulphur (40°C for 3 hours, 0.25M KCl, measured by ICP; Blair et al. 1991)

pH (1:5 soil/0.01M $CaCl_2$, 4B2)

conductivity (1:5 soil:water extract, 3A1)

Blair GJ, Chinoim N, Lefroy RB, Anderson GC, Crocker GJ (1991) A soil sulfur test for pasture and crops. Aust J Soil Res 29:619–626

Rayment GE, Higginson FR (1992) Australian Laboratory Handbook of Soil and Water Chemical Methods. Inkata Press, Melbourne

Searle PL (1984) The berthelot or indophenol reaction and its use in the analytical chemistry of nitrogen. A review. Analyst 109:549-568

Plot number	Datum	Zone	Easting	Northing	Latitude	Longitude	Location accuracy	Elevation	Aspect	Topo position	Location	Tenure	Date established	Vegetation	Surface soil description	Soil_sample	Photos	Species-area	Flora_richness	Flora_cover	Veg_structure	Fuel	LS Fire year	LS Yrs since fire	Model 2 fire date	Model 2 yrs since fire	Model 5 fire date	Model 5 yrs since fire	Dating method	Notes
GIM01	WGS 84	50 H	0711824	6454154	-32°1'44.27672"	119°14'34.93127"	<5	414	Nil	Flat	E side of Emu fence Rd, N of Soldier's Rd junction	UCL	30-Sep-10	Gimlet-Salmon Gum	Pale brown-grey sandy loam - no rock	SM1	Y	Y	Y	Y	Y	Y	1952-1972	38	1972	38	1972	38	L	
GIM02	WGS 84	50 H	0730180	6452953	-32°2'10.33820"	119°26'15.19153"	<5	430	Nil	Ridge	S side of King Ingram Rd	UCL	01-Oct-10	Gimlet-Eucalyptus sheathiana	Brownish sandy loam, no rock	SM2	Y	Y	Y	Y	Y		1952-1972	38	1968	42	1972	38	L	
GIM03	WGS 84	50 H	0747155	6447629	-32°4'50.17585"	119°37'6.69599"	<5	433	Nil	Ridge	N side of King Ingram Rd	UCL	01-Oct-10	Gimlet-dense Melaleuca understorey	Grey-brown sandy loam, quartz pebbles on surface	SM3	Y	Y	Y	Y	Y	Y	1952-1972	38	1972	38	1972	38	L	
GIM04	WGS 84	50 J	0746019	6484219	-31°45'3.89330"	119°35'49.96808"	<5	391	Nil	Ridge	W side Forrestania-Marvel Loch Rd, N of Dunbar Rd	UCL	02-Oct-10	Gimlet-Morrel	Red sandy loam, laterite surface pebbles	SU1	Y	Y	Y	Y	Y	Y	Pre-1952	60	1870	140	1750	260	E	
GIM05	WGS 84	50 J	0749599	6477326	-31°48'44.74495"	119°38'12.25249"	<5	388	Nil	Flat	E side of Forrestania-Marvel Loch Rd, N of Cheriton's Mine	UCL	02-Oct-10	Gimlet-Salmon Gum	Red sandy loam, laterite surface pebbles	SB1	Y	Y	Y	Y	Y	Y	2001	9	2001	9	2001	9	R&L	
GIM06	WGS 84	50 J	0750950	6472203	-31°51'29.89103"	119°39'8.34051"	<5	424	SE	Upslope	S of cleared line running E of Forrest.-Marvel Loch Rd, S of Cheriton's Mine, Jilbadji NR	NR	02-Oct-10	Gimlet-Merrit	Orange sandy loam, laterite surface pebbles	SB2	Y	Y	Y	Y	Y		2008	2	2007	3	2007	3	R&L	
GIM07	WGS 84	50 J	0750770	6470214	-31°52'34.56556"	119°39'3.34625"	<5	419	Nil	Flat	E of Forrest.-Marvel Loch Rd, S of Cheriton's Mine, Jilbadji NR	NR	02-Oct-10	Gimlat-Eucalyptus moderata	Orange sandy loam, laterite surface pebbles	SB3	Y	Y	Y	Y	Y		2008	2	2007	3	2007	3	R&L	
GIM08	WGS 84	50 J	0749349	6478071	-31°48'20.77019"	119°38'2.06720"	<5	393	Nil	Flat	N of cleared line running E of Forrest.-Marvel Loch Rd, N of British India Rd	UCL	03-Oct-10	Gimlet-Salmon Gum	Red sandy loam, no pebbles	SU2	Y	Y	Y	Y	Y	Y	Pre-1952	60	1750	260	1240	770	E	
GIM09	WGS 84	50 J	0750556	6465872	-31°54'55.60809"	119°38'59.24672"	<5	441	Nil	Flat	E of Forrest.-Marvel Loch Rd, S of Cheriton's Mine, Jilbadji NR	NR	03-Oct-10	Gimlet-dense Melaleuca understorey	Orange-brown sandy loam	SM4	Y	Y	Y	Y	Y	Y	1952-1972	38	1965	45	1965	45	R	
GIM10	WGS 84	50 J	0750336	6457290	-31°59'34.21662'	119°38'58.87384"	<5	418	Nil	Flat	E of Forrest.-Marvel Loch Rd, S of Cheriton's Mine, Jilbadji NR	NR	03-Oct-10	Gimlet-Merrit	Orange-brown sandy loam	SU3	Y	Y	Y	Y	Y	Y	Pre-1952	60	1941	69	1941	69	R	
GIM11	WGS 84	50 J	0750618	6469344	-31°53'2.91264"	119°38'58.37547"	<5	422	Nil	Flat	W side Forrestania-Marvel Loch Rd, S of Cheriton's Mine	NR	03-Oct-10	Gimlet-dense Melaleuca understorey	Orange sandy loam, laterite surface pebbles	SM5	Y	Y	Y	Y	Y	Y	1952-1972	38	1966	44	1966	44	R	
GIM12	WGS 84	50 J	0740541	6480726	-31°47'1.42877"	119°32'25.05112"	<5	387	Nil	Flat	S side of Dunbar Rd	UCL	04-Oct-10	Gimlet-Salmon Gum	Orange sandy loam, quartz surface pebbles	SB4	Y	Y	Y	Y	Y	Y	2003	7	2002	8	2002	8	R&L	
GIM13	WGS 84	50 J	0734203	6480901	-31°47'0.49274"	119°28'24.13181"	<5	382	Nil	Flat	S side of Dunbar Rd	UCL	04-Oct-10	Gimlet-Salmon Gum-Yorrell	Orange sandy loam	SU4	Y	Y	Y	Y	Y	Y	Pre-1952	60	1820	190	1590	420	E	
GIM14	WGS 84	50 J	0744481	6495454	-31°39'0.53839"	119°34'41.47249"	<5	379	SE	Flat	W side of Forrestania-Marvel Loch Rd, S of Parker Range Rd	Unmanged reserve	04-Oct-10	Gimlet-Salmon Gum	Orange sandy loam	SU5	Y	Y	Y	Y	Y	Y	Pre-1952	60	1940	70	1940	70	R	
GIM15	WGS 84	50 J	0744153	6494551	-31°39'30.08968"	119°34'29.83941"	<5	388	SE	Upslope	W side of Forrestania-Marvel Loch Rd, S of Parker Range Rd	Unmanged reserve	04-Oct-10	Gimlet-Morrel	Brownish sandy loam, surface quartz pebbles	SB5	Y	Y	Y	Y	Y		2003	7	2002	8	2002	8	R&L	
GIM16	WGS 84	50 J	0755005	6545264	-31°11'56.17431"	119°40'34.59843"	<5	381	Nil	Flat	E side Lake Seabrook-Yellowdine Rd	Unmanged reserve	05-Oct-10	Gimlet-Yorrell	Orange-red sandy loam with quartz pebbles	CB1	Y	Y	Y	Y	Y		2003	7	2002	8	2002	8	R&L	
GIM17	WGS 84	50 J	0755878	6547552	-31°10'41.24881"	119°41'5.45414"	<5	370	NW	Upslope	E side Lake Seabrook-Yellowdine Rd, Duladgin NR	NR	05-Oct-10	Gimlet-Salmon Gum	Orange-red sandy loam with surface laterite and quartz pebbles	CU1	Y	Y	Y	Y	Y		Pre-1952	60	1890	120	1810	200	E	
GIM18	WGS 84	50 J	0756511	6552117	-31°8'12.62960"	119°41'25.15417"	<5	370	Nil	Upslope	E side Lake Seabrook-Yellowdine Rd, Yellowdine NR	NR	05-Oct-10	Gimlet-Salmon Gum	Orangy sandy loam	CU2	Y	Y	Y	Y	Y		Pre-1952	60	1780	230	1400	610	E	
GIM19	WGS 84	50 J	0754480	6544602	-31°12'18.06639"	119°40'15.38510"	<5	380	Nil	Upslope	Off woodcutters track W of Yellowdine-Lake Seabrook Rd	Unmanged reserve	05-Oct-10	Gimlet-Morrel	Orange-red sandy loam, surface quartz	CB2	Y	Y	Y	Y	Y		2003	7	2002	8	2002	8	R&L	
GIM20	WGS 84	50 J	0747909	6523080	-31°24'1.50780"	119°36'26.54789"	<5	425	W	Upslope	S side of Rd from Palmer's Find to Emu Fence Rd	UCL	06-Oct-10	Gimlet-dense Melaleuca understorey	Orange sandy loam	CM1	Y	Y	Y	Y	Y		1952-1972	38	1968	42	1968	42	R	25 x 100m // to road
GIM21	WGS 84	50 J	0751292	6520977	-31°25'7.12134"	119°38'36.43709"	<5	373	Nil	Flat	E side of Marvel Loch-Yellowdine Rd, S of Palmer's Find	UCL	06-Oct-10	Gimlet-Salmon Gum-Yorrell	Orange sandy loam	CM2	Y	Y	Y	Y	Y		1952-1972	38	1960	50	1960	50	R	
GIM22	WGS 84	50 J	0753302	6522875	-31°24'3.96234"	119°39'50.74475"	<5	371	Nil	Upslope	S side of Rd heading W of Palmer's Find to salt lake	UCL	06-Oct-10	Gimlet-Salmon Gum	Orange sandy loam	CU3	Y	Y	Y	Y	Y		Pre-1952	60	1860	150	1730	280	E	
GIM23	WGS 84	50 J	0754656	6522950	-31°24'0.46096"	119°40'41.89447"	<5	370	Nil	Flat	Mt Palmer townsite, immediatly east of Mt Palmer Hotel.	UCL	06-Oct-10	Gimlet-Salmon Gum	Orange sandy loam	CM3	Y	Y	Y	Y	Y		1952-1972	38	1962	48	1964	46	E	No dropper.
GIM24	WGS 84	50 J	0743131	6536639	-31°16'45.16852"	119°33'13.89362"	<5	401	Nil	Upslope	E of track running S off power line eastment, S of Great Eastern Hwy, W of Yellowdine	UCL	07-Oct-10	Gimlet-Salmon Gum	Orange sandy loam	CM4	Y	Y	Y	Y	Y		1952-1972	38	1960	50	1960	50	R	
GIM25	WGS 84	50 J	0754199	6542988	-31°13'10.65642"	119°40'6.24897"	<5	372	SE	Upslope	W side Lake Seabrook-Yellowdine Rd	Unmanged reserve	07-Oct-10	Gimlet-Morrel	Orange sandy loam	CB3	Y	Y	Y	Y	Y		2003	7	2002	8	2002	8	R&L	
GIM26	WGS 84	50 J	0754809	6545776	-31°11'39.71531"	119°40'26.73244"	<5	384	E	Midslope	S of track running W off Lake Seabrook-Yellowdine Rd	Unmanged reserve	07-Oct-10	Gimlet-Salmon Gum	Orange sandy loam with large quartz surface rocks	CB4	Y	Y	Y	Y	Y		2003	7	2003	7	2003	7	L	25 x 100m perpendicular to road
GIM27	WGS 84	50 J	0752782	6538037	-31°15'52.41118"	119°39'17.24455"	<5	369	Nil	Flat	E of Lake Seabrook-Yellowdine Rd	Unmanged reserve	07-Oct-10	Gimlet-Yorrell	Orange sandy loam with surface quartz pebbles	CU4	Y	Y	Y	Y	Y		Pre-1952	60	1810	200	1520	490	E	
GIM28	WGS 84	50 J	0753076	6533851	-31°18'8.00504"	119°39'32.16317"	<5	377	Nil	Flat	E of Yellowdine-Palmer's Find Rd, across water pipeline trench, Yellowdine NR	NR	07-Oct-10	Gimlet-Eucalyptus moderata-Yorrell	Orange sandy loam	CU5	Y	Y	Y	Y	Y		Pre-1952	60	1770	240	1360	650	E	
GIM29	WGS 84	50 J	0645838	6632824	-30°25'40.28985'	118°31'6.83020"	<5	411	Nil	Flat	W of Rabbit Proof Fence Rd (N-S section), S of Mallee track junction	UCL	25-Oct-10	Gimlet	Orange sandy loam	NU1	Y	Y	Y	Y	Y		Pre-1952	60	1770	240	1320	690	E	
GIM30	WGS 84	50 J	0646020	6641714	-30°20'51.50588"	118°31'9.18106"	<5	476	SE	Upslope	W of Rabbit Proof Fence Rd (N-S section), btwn Mallee & Adam's track junctions	UCL	26-Oct-10	Gimlet-Wheatbelt Wandoo-Eucalyptus sheathiana	Pale orange sandy loam, surface quartz rock	NB1	Y	Y	Y	Y	Y		2003	7	2003	7	2003	7	L	
GIM31	WGS 84	50 J	0640553	6654518	-30°13'58.01068"	118°27'38.30534"	<5	503	S	Upslope	S of Rabbit Proof Fence Rd (E-W section), UCL S of Karroun Hill NR	UCL	26-Oct-10	Gimlet-Yorrell-Wheathblet Wandoo	Pale orange sandy loam, surface quartz rock	NU2	Y	Y	Y	Y	Y		Pre-1952	60	1780	230	1320	690	E	
GIM32	WGS 84	50 J	0628258	6654252	-30°14'11.55257"	118°19'58.55626"	<5	490	W	Upslope	N of Rabbit Proof Fence Rd (E-W section), Karroun Hill NR	NR	26-Oct-10	Gimlet-Salmon Gum-Yorrell	Orange sandy loam, surface quartz	NB2	Y	Y	Y	Y	Y		2003	7	2003	7	2003	7	L	25 x 100m // to fence
GIM33	WGS 84	50 J	0635137	6648813	-30°17'5.50973"	118°24'18.37388"	<5	492	S	Flat	S of Adam's track, W of 12 mile track junction	UCL	26-Oct-10	Gimlet-Eucalyptus moderata-Yorrell	Orange sandy loam	NB3	Y	Y	Y	Y	Y		2003	7	2002	8	2002	8	R&L	
GIM34	WGS 84	50 J	0643634	6648823	-30°17'1.66418"	118°29'36.33606"	<5	471	Nil	Flat	S of Adam's track, E of 12 mile track junction	UCL	26-Oct-10	Gimlet-Yorrell	Orange-red sandy loam, some surface laterite and quartz pebbles	NU3	Y	Y	Y	Y	Y		Pre-1952	60	1810	200	1540	470	E	
GIM35	WGS 84	50 J	0637459	6636024	-30°23'59.91399"	118°25'51.30635"	<5	454	Nil	Flat	E of 12 mile track, just N of mallee track junction	UCL	27-Oct-10	Gimlet-Eucalyptus moderata-Yorrell	Pale orange sandy loam	NU4	Y	Y	Y	Y	Y		Pre-1952	60	1830	180	1600	410	E	
GIM36	WGS 84	50 J	0614612	6654586	-30°14'5.62118"	118°11'27.98141"	<5	451	Nil	Flat	N of Rabbit Proof Fence Rd (E-W section) E of Boundary Rd junction, Karroun Hill NR	NR	27-Oct-10	Gimlet-Eucalyptus moderata-Salmon Gum	Orange sandy loam with little gravel	NM1	Y	Y	Y	Y	Y		1952-1972	38	1972	38	1972	38	L	25 x 100m perpendicular to fence
GIM37	WGS 84	50 J	0594944	6661283	-30°10'34.19892"	117°59'10.07338"	<5	377	Nil	Ridge	N of Rabbit Proof Fence Rd (E-W section) W of Clark Rd junction, Karroun Hill NR	NR	27-Oct-10	Gimlet-Morrel-Yorrell	Orange sandy loam	NM2	Y	Y	Y	Y	Y		1952-1972	38	1965	45	1965	45	R	
GIM38	WGS 84	50 J	0592624	6663150	-30°9'34.19691"	117°57'42.74715"	<5	367	Nil	Flat	N of Rabbit Proof Fence Rd (E-W section) at Beacon N Rd junction, Karroun Hill NR	NR	27-Oct-10	Gimlet-Salmon Gum-Yorrell	Orange sandy loam, small surface quartz pebbles	NU5	Y	Y	Y	Y	Y		Pre-1952	60	1830	180	1590	420	E	
GIM39	WGS 84	50 J	0608329	6654611	-30°14'6.88720"	118°7'32.94527"	<5	451	E	Upslope	N of Rabbit Proof Fence Rd (E-W section), btwn Clark and Boundary Rd junctions, Karroun Hill NR	NR	27-Oct-10	Gimlet-Eucalyptus moderata-Salmon Gum	Pale orange sandy loam	NM3	Y	Y	Y	Y	Y		1952-1972	38	1954	56	1954	56	R	25 x 100m // to fence
GIM40	WGS 84	50 J	0629175	6648825	-30°17'7.46236"	118°20'35.25488"	<5	481	Nil	Flat	S of Adam's track, W of 12 mile track junction	UCL	28-Oct-10	Gimlet-Salmon Gum-Yorrell	Orange sandy loam	NU6	Y	Y	Y	Y	Y		Pre-1952	60	1870	140	1750	260	E	
GIM41	WGS 84	50 J	0636541	6648792	-30°17'5.62478"	118°25'10.92400"	<5	485	S	Flat	S of Adam's track, W of 12 mile track junction	UCL	28-Oct-10	Gimlet-Eucalyptus moderata	Pale orange sandy loam	NB4	Y	Y	Y	Y	Y		2003	7	2003	7	2003	7	R&L	
GIM42	WGS 84	50 J	0637768	6649145	-30°16'53.66011"	118°25'56.67380"	<5	500	Nil	Flat	N of Adam's track, near 12 mile track junction	UCL	28-Oct-10	Gimlet-Eucalyptus moderata-Euc lox. liss.	Pale orange sandy loam	NB5	Y	Y	Y	Y	Y		2003	7	2003	7	2003	7	R&L	
GIM43	WGS 84	50 J	0637393	6640187	-30°21'44.74118"	118°25'46.86492"	<5	444	Nil	Flat	E of 12 mile track, S of Adam's track junction	UCL	28-Oct-10	Gimlet-Eucalyptus moderata-Euc lox. liss.	Pale orange sandy loam	NU7	Y	Y	Y	Y	Y		Pre-1952	60	1850	160	1660	350	E	
GIM44	WGS 84	50 J	0637337	6637729	-30°23'4.59161"	118°25'45.92914"	<5	446	SE	Midslope	W of 12 mile track, S of Adam's track junction	UCL	28-Oct-10	Gimlet-Eucalyptus moderata-Yorrell	Orange sandy loam, some laterite pebbles	NM4	Y	Y	Y	Y	Y		Pre-1952	60	1932	78	1932	78	R	
GIM45	WGS 84	50 J	0637462	6634923	-30°24'35.66930"	118°25'51.94030"	<5	476	Nil	Flat	E of 12 mile track, S of Mallee track junction	UCL	28-Oct-10	Gimlet-Eucalyptus moderata-Yorrell	Pale orange sandy loam, some surface laterite and quartz pebbles	NU8	Y	Y	Y	Y	Y		Pre-1952	60	1850	160	1690	320	E	
GIM46	WGS 84	50 J	0754317	6529034	-31°20'43.32597"	119°40'23.47691"	<5	306	Nil	Flat	W of Yellowdine-Palmer's Find Rd, Yellowdine NR	NR	29-Oct-10	Gimlet-Morrel	Orange sandy loam	CU6	Y	Y	Y	Y	Y		Pre-1952	60	1800	210	1460	550	E	
GIM47	WGS 84	50 J	0754783	6524078	-31°23'23.76144"	119°40'45.65831"	<5	373	Nil	Flat	E of Yellowdine-Palmer's Find Rd, N of Mt Palmer	UCL	29-Oct-10	Gimlet-Yorrell	Orange sandy loam, small surface quartz pebbles	CU7	Y	Y	Y	Y	Y		Pre-1952	60	1927	83	1927	83	R	
GIM48	WGS 84	50 J	0751098	6518749	-31°26'19.56426"	119°38'31.12527"	<5	372	Nil	Flat	E side of Marvel Loch-Yellowdine Rd, S of Palmer's Find	UCL	29-Oct-10	Gimlet-Yorrell	Orange sandy loam	CM5	Y	Y	Y	Y	Y		1952-1972	38	1972	38	1972	38	L	
GIM49	WGS 84	50 J	0750184	6512386	-31°29'46.73591"	119°38'2.31867"	<5	365	Nil	Flat	E side of Marvel Loch-Yellowdine Rd, S of Palmer's Find	UCL	29-Oct-10	Gimlet-Salmon Gum	Orange sandy loam, some surface laterite and quartz pebbles	CU8	Y	Y	Y	Y	Y		Pre-1952	60	1922	88	1900	110	E	
GIM50	WGS 84	50 J	0745113	6486094	-31°44'3.75631"	119°35'13.87297"	<5	367	Nil	Flat	W side of Forrestania-Marvel Loch Rd, S of Parker Range Rd	UCL	29-Oct-10	Yorrell-Gimlet	Orange sandy loam	SU6	Y	Y	Y	Y	Y	Y	Pre-1952	60	1790	220	1460	550	E	
GIM51	WGS 84	50 J	0743365	6497793	-31°37'45.49691"	119°33'57.05534"	<5	394	SE	Upslope	N of Parker Range Rd	Unmanged reserve	29-Oct-10	Gimlet-Salmon Gum-Merrit	Orange sandy loam with large laterite pebbles	SU7	Y	Y	Y	Y	Y	Y	Pre-1952	60	1938	72	1938	72	R	
GIM52	WGS 84	50 J	0742344	6498387	-31°37'26.99971"	119°33'17.80853"	<5	411	SE	Upslope	S of Parker Range Rd	Unmanged reserve	29-Oct-10	Gimlet-Salmon Gum	Orange sandy loam, small surface quartz pebbles	SU8	Y	Y	Y	Y	Y	Y	Pre-1952	60	1810	200	1540	470	E	
GIM53	WGS 84	50 J	0637170	6648914	-30°17'1.40667"	118°25'34.40494"	<5	511	Nil	Upslope	N of Adam's track, W of 12 mile junction	UCL	18-Oct-11	Gimlet-Yorrell	Orange sandy loam with medium laterite pebbles		Y	Y	Y	Y	Y		Pre-1952	60	1910	100	1860	150	E	
GIM54	WGS 84	50 J	0618570	6666465	-30°7'38.42006"	118°13'51.23416"	<5	391	Nil	Flat	W of internal track running into Karroun Hill NR from S boundary	NR	18-Oct-11	Gimlet-Yorrell	Orange sandy loam, no gravel		Y	Y	Y	Y	Y		1973-1980	35	1974	37	1974	37	R	
GIM55	WGS 84	50 J	0618624	6665959	-30°7'54.83623"	118°13'53.45589"	<5	389	Nil	Flat	E of internal track running into Karroun Hill NR from S boundary	NR	18-Oct-11	Gimlet	Orange sandy loam with no gravel		Y	Y	Y	Y	Y		Pre-1952	60	1780	230	1390	620	E	
GIM56	WGS 84	50 J	0644981	6657148	-30°12'30.72279"	118°30'22.61453"	<5	502	SE	Upslope	W of Rabbit Proof Fence Rd, Karroun Hill NR	NR	19-Oct-11	Gimlet-Wheatbelt Wandoo-Eucalyptus moderata	Orange sandy loam, no gravel		Y	Y	Y	Y	Y		1973-1980	35	1974	37	1974	37	R	
GIM57	WGS 84	50 J	0645021	6652310	-30°15'7.82536"	118°30'26.50689"	<5	464	SE	Midslope	W of Rabbit Proof Fence Rd, N of Adam's track junction	UCL	19-Oct-11	Gimlet-Yorrell	Orange sandy loam, no gravel		Y	Y	Y	Y	Y		Pre-1952	60	1800	210	1460	550	E	
GIM58	WGS 84	50 J	0637493	6638967	-30°22'24.32166"	118°25'51.18701"	<5	438	Nil	Flat	E of 12 mile track, S of Adam's track junction	UCL	19-Oct-11	Gimlet-Yorrell	Orange sandy loam, no gravel		Y	Y	Y	Y	Y		Pre-1952	60	1640	370	550	1460	E	
GIM59	WGS 84	50 J	0664389	6628993	-30°27'36.08715"	118°42'44.15447"	<5	369	Nil	Flat	North of State Barrier Fence, W of Mt Jackson Rd junction	UCL	20-Oct-11	Gimlet-Yorrell	Orange sandy loam, no gravel		Y	Y	Y	Y	Y		Unknown		1995	16	1995	16	R	
GIM60	WGS 84	50 J	0714823	6496978	-31°38'32.43936"	119°15'55.13877"	<5	409	NW	Drainage	N of P. Guederi Rd	UCL	20-Oct-11	Gimlet-Merrit-dense Melaluca understorey	Orange-brown sandy loam		Y	Y	Y	Y	Y	Y	1977	34	1976	35	1976	35	R&L	
GIM61	WGS 84	50 J	0720836	6496688	-31°38'37.74439"	119°19'43.48123"	<5	387	Nil	Flat	S of P. Guederi Rd	UCL	20-Oct-11	Gimlet	Orange-brown sandy loam, no gravel		Y	Y	Y	Y	Y		Pre-1952	60	1840	170	1620	390	E	
GIM62	WGS 84	50 J	0736149	6481997	-31°46'23.48623"	119°29'37.10203"	50	380	Nil	Flat	Near chained strip running N off Dunbar Rd	UCL?	21-Oct-11	Gimlet-Salmon Gum	Orange sandy loam		Y	Y	Y	Y	Y		Pre-1952	60	1945	66	1945	66	R	No dropper, note lower georeferencing accuracy
GIM63	WGS 84	50 J	0723066	6493275	-31°40'26.95395"	119°21'10.86937"	<5	418	NW	Midslope	E side of Panizza Rd, N of Brennard Rd junction	UCL	21-Oct-11	Gimlet-Eucalyptus moderata	Brown-orange sandy loam		Y	Y	Y	Y	Y	Y	2003	8	2002	9	2002	9	R&L	
GIM64	WGS 84	50 J	0722874	6495658	-31°39'9.75326'	119°21'1.63503"	<5	440	Nil	Crest	W off Panizza Rd, N of Brennard Rd junction	UCL	21-Oct-11	Gimlet-Salmon Gum	Orange sandy loam w quartz & laterite pebbles		Y	Y	Y	Y	Y	Y	1977	34	1976	35	1976	35	R&L	
GIM65	WGS 84	50 H	0758871	6425477	-32°16'39.34026"	119°44'54.70396"	<5	414	SE	Upslope	E of Marvel Loch-Forrestania Rd, S of Bounty Mine junction	UCL	21-Oct-11	Gimlet-Eucalyptus extensa-Eucalyptus polita	Orange sandy loam, large and small laterite pebbles		Y	Y	Y	Y	Y	Y	1994	17	1993	18	1993	18	R&L	
GIM66	WGS 84	50 J	0750744	6475350	-31°49'47.95160"	119°38'57.58897"	<5	407	S	Upslope	E of Marvel Loch-Forrestania Rd, S of Cheritons mine	NR	22-Oct-11	Gimlet-Merrit-Yorrell	Orange sandy loam w continuous surface laterite & quartz pebbles		Y	Y	Y	Y	Y	Y	2001	10	2001	10	2001	10	R&L	
GIM67	WGS 84	50 J	0750723	6472590	-31°51'17.51504"	119°38'59.35198"	<5	431	N	Upslope	E of Marvel Loch-Forrestania Rd, S of Cheritons mine	NR	22-Oct-11	Gimlet-Salmon Gum	Orange sandy loam, a little surface laterite		Y	Y	Y	Y	Y		2008	3	2007	4	2007	4	R&L	
GIM68	WGS 84	50 J	0747522	6481226	-31°46'39.83605"	119°36'49.77035"	<5	392	NW	Lower	E of Marvel Loch-Forrestania Rd, N of Dunbar Rd junction	UCL	22-Oct-11	Gimlet-Morrel	Orange sandy loam w surface laterite & quartz		Y	Y	Y	Y	Y		Pre-1952	60	1820	190	1590	420	E	
GIM69	WGS 84	50 J	0744580	6497415	-31°37'56.83323"	119°34'43.47023"	<5	383	SE	Midslope	S of Parker Range Rd	Unmanged reserve	22-Oct-11	Gimlet-Morrel-Salmon Gum	Orange sandy loam w some quartz gravel		Y	Y	Y	Y	Y		Pre-1952	60	1800	210	1510	500	E	
GIM70	WGS 84	50 J	0754857	6523104	-31°23'55.30527"	119°40'49.35565"	<5	388	Nil	Flat	E of Yellodine-Palmer's Find Rd	UCL	22-Oct-11	Gimlet-Salmon Gum	Ornage-brown sandy loam		Y	Y	Y	Y	Y		Pre-1952	60	1710	300	1040	970	E	
GIM71	WGS 84	50 J	0757629	6549251	-31°9'44.73824"	119°42'9.96706"	<5	358	Nil	Flat	N of Duladgin Rks-Lake Eva Rd, Duladgin NR	Unmanged reserve	23-Oct-11	Gimlet-Salmon Gum-Eucalyptus celastroides	Orange sandy loam w quartz pebbles		Y	Y	Y	Y	Y		Pre-1952	60	1760	250	1300	710	E	
GIM72	WGS 84	50 J	0756274	6551621	-31°8'28.91010"	119°41'16.66829"	<5	369	SE	Midslope	W of Yellowdine-Lake Seabrook Rd	NR	23-Oct-11	Gimlet-Salmon Gum-Merrit	Orange sandy loam with surface quartz pebbles		Y	Y	Y	Y	Y		Pre-1952	60	1740	270	1190	820	E	

Notes to accompany plot details

Date custodian	Carl Gosper	carl.gosper@dec.wa.gov.au
All plots	Steel dropper in NW corner of plot. Plot 50 x 50 m, sides aligned N-S & E-W (except see notes)	
Plot number		
Datum		
Zone		
Easting	NB - in text format to preserve 0	
Northing		
Latitude		
Longitude		
Location accuracy		
Elevation	metres ASL	
Aspect		
Topo position		
Location		
Tenure	UCL = unallocated crown land; NR = Nature Reserve	
Date established		
Vegetation	Lists dominant canopy species	
Surface soil description		
Soil_sample	Sample number	
Photos	Y = Yes for plot photo(s)	
Species-area	Y = Yes for species-area curve data collected	
Flora_richness	Y = Yes for species richness determined per 2500 m2 plot	
Flora_cover	Y = Yes for floristic cover	
Veg_structure	Y = Yes for vegetation structure measured	
Fuel	Y = Yes for fuel assessment conducted	
LS Fire year	Year of fire from Landsat image analysis (if known)	
LS Yrs since fire	Years since fire from Landsat image analysis	
Model 2 fire date	Year of fire (= number of growing seasons post-fire, not necessarily calendar year) from estimates from growth ring counts and growth ring-size relationships. Using Model 2 of Gosper et al. (2013).	
Model 2 yrs since fire	Years since fire (growth seasons) from estimates from growth ring counts and growth ring-size relationships. Using Model 2 of Gosper et al. (2013).	

Model 5 fire date	Year of fire (= number of growing seasons post-fire, not necessarily calendar year) from estimates from growth ring counts and growth ring-size relationships. Using Model 5 of Gosper et al. (2013).
Model 5 yrs since fire	Years since fire (growth seasons) from estimates from growth ring counts and growth ring-size relationships. Using Model 5 of Gosper et al. (2013).
Dating method	Method used for determining ‘Model 2 (or 5) yrs since fire’: L = Landsat, R = growth ring count, E = estimate from growth ring-size relationship
Notes	

See: Gosper, C.R., Prober, S.M., Yates, C.J. and Wiehl, G. (2013) Estimating the time since fire of long-unburnt *Eucalyptus salubris* stands in the Great Western Woodlands. *Australian Journal of Botany 61, 11-21.*