Numerical Analysis of Floristic Data in Mt Gibson Area

Prepared for
ATA Environmental

by
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INTRODUCTION

1.1 Purpose of this report

This report presents the results and brief presentation of floristic analyses carried out to provide a sub-regional overview of the floristic variation present in the vegetation of in the vicinity of Mt Gibson provided by ATA Environmental. This was part of an environmental assessment of the impacts of the proposed Mt Gibson Iron Ore Project

The results of the analysis are interpreted to provide a sub-regional overview of the significance of the vegetation types present in the Mt Gibson survey area.

The significance of the potential disturbance on floristic communties at Mt Gibson as a result of the proposed project mining operation is discussed.

An attempt was made to interpret the nature of the main plant communities in the vicinity of the proposed mining operation.

1.2 Levels of classification provided

While a classification of the site data was a fundamental part of the analysis, the levels of the groups in the classification may not be consistent with the field based plant community concept. Some groups defined in this report are largely abstract, but are significant for the purpose of the analysis.

It is not possible in the scope of this report to define the classification levels closely, but the 28 and 40 group levels would be a similar level of synthesis to the vegetation association level (although based only on floristics, not on a combination of structure and floristics) and the 10 group level would be similar to (or a bit lower than) the vegetation formation level (although only on floristics, not only on structure).

Based on the classification, an interpretation of the composition of the main communities in the vicinity of the proposed operations.

1.2 Location

The data used in the analyses are from survey areas roughly in the South West Interzone in, or northeast of Mt Gibson.

The proposed mine covers the extent of the area referred to as Extension Hill in this report.

1.3 Data provided by ATA

One hundred sample points were 20m x 20m quadrats located on the ridges and side slope mainly on BIF formations.

The data were provided in a spreadsheet as present and absence. Each site had co-ordinates and had been allocated to a geographic group. No vegetation or site description was provided but the more abundant species had been assigned a % cover. A ranking of condition of the site (0 → 3 with 0 being best) was also provided as was the location co-ordinates.

A table was provided which attempted to define the species that were either perennials or geophytes.

Digital photos of each site were provided.

2.0 METHODS

2.1 Data Preparation

In consultation with the Department of Conservation and Land Management (CALM), ATA Environmental conducted a spring survey in 2005 of a hundred (100) 20m x 20m permanent quadrats located on Banded Iron Formation (BIF) in the Mt Gibson lease area and within a 20km radius of the area. Floristic data collected included species, percentage foliage cover and vegetation condition was collected from each quadrat. This data was imported into the Microsoft Access database. All relevant data used for preparing the analysis and the products of the PATN analyses were incorporated into that database. The queries used to carry out the analysis are also incorporated into this database.

After the analysis leading to conclusions about the sub-regional patterns, it became obvious that there were two data entry errors in the names used in the classification. As it was feared that as one of these appeared to be a distinguishing taxon for a major division in the classification, the required changes were made, analysis run on all species from all sites and consequences reviewed.

The consequences had no bearing on the classification of sites outside of the Mt Gibson study area and very little within (Appendix 2). It was concluded that the interpretation prepared to that point on subregional significance would be unaffected and the results that had been prepared would be used. The results presented for the Mt Gibson area is that from the re-evaluation.

2.2 Comparisons Made

The data assembled were run as two dataset with the species being considered as either presence or absent from a site. This presence absence format has been proven appropriate for assessing the regional nature of the variation in site composition of quadrat data in studies such as in the south-western Australia and the Pilbara bioregion data. Data including the cover of species at sites tends to be more useful when analysing datasets from smaller areas but has to be treated with caution.

A subset dataset that only included perennials or geophytes was also used.

All 100 sites were used in all analyses, even those considered to have been disturbed. (The level of disturbance was at worst moderate.) Preliminary analysis had suggested that disturbed sites would tend to group with each other and it was concluded that their elimination would not significantly improve the understanding of the dataset. Disturbance is a continuum and to some degree eliminating sites by use of the condition score is to some degree arbitrary and often can not identify areas that were once disturbed and have recovered to a different composition. Being able to identify those sites that are considered disturbed is a more robust way of understanding the issues.

2.3 Numerical Analyses analyses carried out

Several modules of the numerical classification package PATN (Belbin 1987) were used for the analyses. PATN's default parameter settings were used in all analyses. The PATN modules used were ASO (calculation of similarity matrix), FUSE (classification), DEND (representation of classification) and SSH (a form of ordination to display relationship of sites to the whole dataset).

For each dataset the modules were run twice;

- first with the sites as the classified objects (ie the species as the attributes), and
- then with the species as the classified objects (ie the sites as the attributes).

In this way both site and species groups were generated. The whole data matrix can then be presented with the rows being ordered by the species groupings and the columns ordered by the site groupings. This provides a way of inspecting how well the data conform with the classifications. Most of the interpretation is made from the classification of sites. The species groups are used to support the interpretations more than to identify species that may be expected to occur in similar habitats.

The dendrogram represents the way the classified rows (sites or species) fuse. This can be used to construct groups of rows by "cutting" at a particular value or cutting to obtain a particular number of groups. For the purpose of this study, two "cuts" were made for each of the sites to form "10 group","28 group" and "40 group" classifications and for the species to form "20 group", and "80 group" classifications. While these are arbitrary, they provide an opportunity to make interpretations of the nature of the classification.

In addition to the classifications described above, an ordination of the site and species data was carried out using the SSH (semi-strong hybrid multi-dimensional scaling) module of the PATN package (Belbin 1987). This was performed to diagrammatically present some of the relationships between sites.

Commonly, there is too much variation in the datasets to allow useful interpretations to be made using this technique. Interpretation from the preliminary analysis suggested that in this case it is to some degree useful.

2.4 Summaries made

The PATN results were imported into the Access database where it was joined and summarised with Access queries. Key portions were exported to Excel in which charts of geographic distribution and ordination were constructed.

3.0 LIMITATIONS

The results are a presentation of views of the data provided which is the responsibility of others. While some feedback on the data quality was considered and corrected by ATA, no comprehensive QA of the data was undertaken as part of this analysis.

Experience with other data sets shows that the quality of field observation (eg experience and effort) can have a significant influence on the classification. Therefore, it is asserted that any misinterpretations that may be made are likely to be principally data quality rather than analysis deficiencies.

The classifications have been prepared primarily to provide a basis for interpreting subregional variation in site floristic composition. The composition of groups defined by these analyses should only be interpreted as a suggestion what real communities might contain. Suggestions made about the differences between communities should be validated by other observations, preferably in the field.

4.0 RESULTS

As the principal objective of the analysis was to provide the basis for sub-regional comparison, the results will be presented to give prominence to that. Appendix 1 lists the interpretations presented. These interpretations include dendrograms representing the clustering of the sites, site by species matrix which assists in the understanding of the classification, scatter plots which show distribution of sites in geographic space as well as ordination space. More interpretations can be made using the Mt Gibson database.

The classification of the "all species" data set is reasonably similar to that using only "perennials and geophytes" (Table 1 - Group 10 level, Table 2 - Group 40 level).

These suggest that the datasets produce quite similar classifications and interpretations might be taken from either. For this study it was decided to use all species.

Table 1 Comparison of 10 group level classification all species (rows) with perennials and geophytes (columns) (Values are number of sites.)

	1	2	3	4	5	6	7	8	9	10
1	34									
2		23								
3			4							
4				2						
5			2				5	3		
6								5		
7									3	
8					2	1				
9										5
10				2	1		1			7

Sub-regional Geographic Context

Geography appears to have a strong influence on the classification with many of the groups being confined to one or a few geographic areas (All species 10 group level Table 3, Perennial and geophyte species 10 group level Table 4, 40 group level Table 5, Figure 1). This holds well for the 10 group level for both classifications but also to a significant degree for the 40 group level too, (Figure 5).

Table 3 Geographic area by 10 group classification (All species)
(areas in bold are Mt Gibson area)

	area	1	2	3	4	5	6	7	8	9	10
1	**Extension Hill**	15	9								
2	**Iron Hill North**	10	3								
3	**Iron Hill**	3	4	2							
4	**Iron Hill East**	1	2								
5	**Mt Gibson North**	5	3								
6	**Mt Gibson South**		1	2							
7	Vermin Fence		1					1			
8	Taylor Well					2					
9	East GNH					4					
10	Mt Singleton									5	7
11	Coonigal Well										2
12	SW Mt Singleton								3		
13	Well (ruin) E				2			2			2
14	Extension Hill Vermin Fence					1					
15	East Extension Hill					3	2				
16	Yandhanoo Hill						3				

Table 4 Geographic area by 10 group classification (Perennials and Geophytes)
(areas in bold are Mt Gibson area)

	name	1	2	3	4	5	6	7	8	9	10
1	**Extension Hill**	15	9								
2	**Iron Hill North**	10	3								
3	**Iron Hill**	3	4	2							
4	**Iron Hill East**	1	2								
5	**Mt Gibson North**	5	3								
6	**Mt Gibson South**		1	2							
7	Vermin Fence		1							1	
8	Taylor Well			2							
9	East GNH							1	3		
10	Mt Singleton					1					11
11	Coonigal Well							1			1
12	SW Mt Singleton					2	1				
13	Well (ruin) E				4					2	
14	Extension Hill Vermin Fence							1			
15	East Extension Hill							3	2		
16	Yandhanoo Hill								3		

Table 2 Comparison of 10 group level classification all species (rows) with perennials and geophytes (columns) (Values are number of sites.)

		1										2							3			4		5					6		7		8		9	10						
gp10	gp40	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	1	2																																							
1	2					1																																		
1	3		1				6																																	
1	4							9																																
1	5								3																															
1	6							3		3																														
1	7									3																														
1	8										1																													
1	9				1																																		
1	10			1																																			
2	11											5	3	1																										
2	12														1																									
2	13																	9																						
2	14																		1																					
2	15													1																										
2	16															1																								
2	17																1																							
3	18																			1																				
3	19																			1																				
3	20																					2																		
4	21																						1																	
4	22																								1															
5	23																				2																			
5	24																															3								
5	25																												1											
5	26																												3											
5	27																														1									
6	28																																2		2					
6	29																																	1						
7	30																																			1				
7	31																																				2				
8	32																											1												
8	33																										2													
9	34																																					5			
10	35																																						1		
10	36																																						1	1	
10	37																																							1	2
10	38																									1															
10	39																													1										1	
10	40																							2																	

Table 5a Geographic area by 40 group classification (All species)

	1										2							3			4		5					6		7		8		9	10						
area	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1 **Extension Hill**	**2**	**1**	**7**	2	1				**1**	**1**	6	**1**	2																													
2 **Iron Hill North**				7		3					3																													
3 **Iron Hill**					2			**1**					3	**1**				**1**	**1**																					
4 **Iron Hill East**							1								**1**	**1**																								
5 **Mt Gibson North**						3	2						3																											
6 **Mt Gibson South**													1							**2**																				
7 Vermin Fence																	1													1										
8 Taylor Well																							2																	
9 East GNH																								3	1															
10 Mt Singleton																																		5	1	2	3	1		
11 Coonigal Well																																							2	
12 SW Mt Singleton																																1	2							
13 Well (ruin) E																					1	1									2									2
14 Extension Hill Vermin Fence																											1													
15 East Extension Hill																										3		2												
16 Yandhanoo Hill																												2	1											

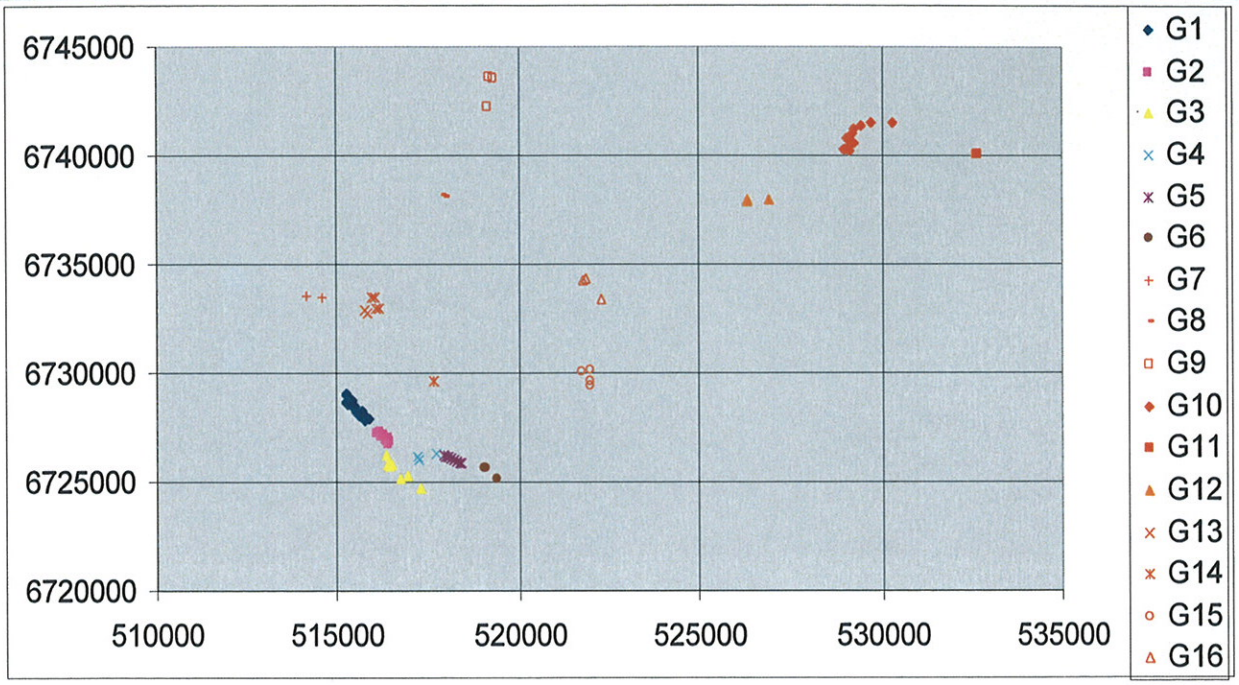
Table 5b Geographic area by 40 group classification (perennials and geophytes)

	1										2								3			4			5		6	7			8				9		10					
area	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1 **Extension Hill**	**2**	**1**	**1**	**1**	**1**	**6**	1	1			2	**3**	1	**1**			2																								
2 **Iron Hill North**							10				3																													
3 **Iron Hill**								2		**1**								**1**	**2**																					
4 **Iron Hill East**									1				1		**1**		3																								
5 **Mt Gibson North**									5								4																								
6 **Mt Gibson South**																					**2**																			
7 Vermin Fence																1																				1					
8 Taylor Well																				2																					
9 East GNH																												1			3									
10 Mt Singleton																									1												5	3	2	2
11 Coonigal Well																													1										1	
12 SW Mt Singleton																										2	1													
13 Well (ruin) E																						1	2	1												2	2			
14 Extension Hill Vermin Fence																														1										
15 East Extension Hill																												3				1		1						
16 Yandhanoo Hill																																1	1	1						

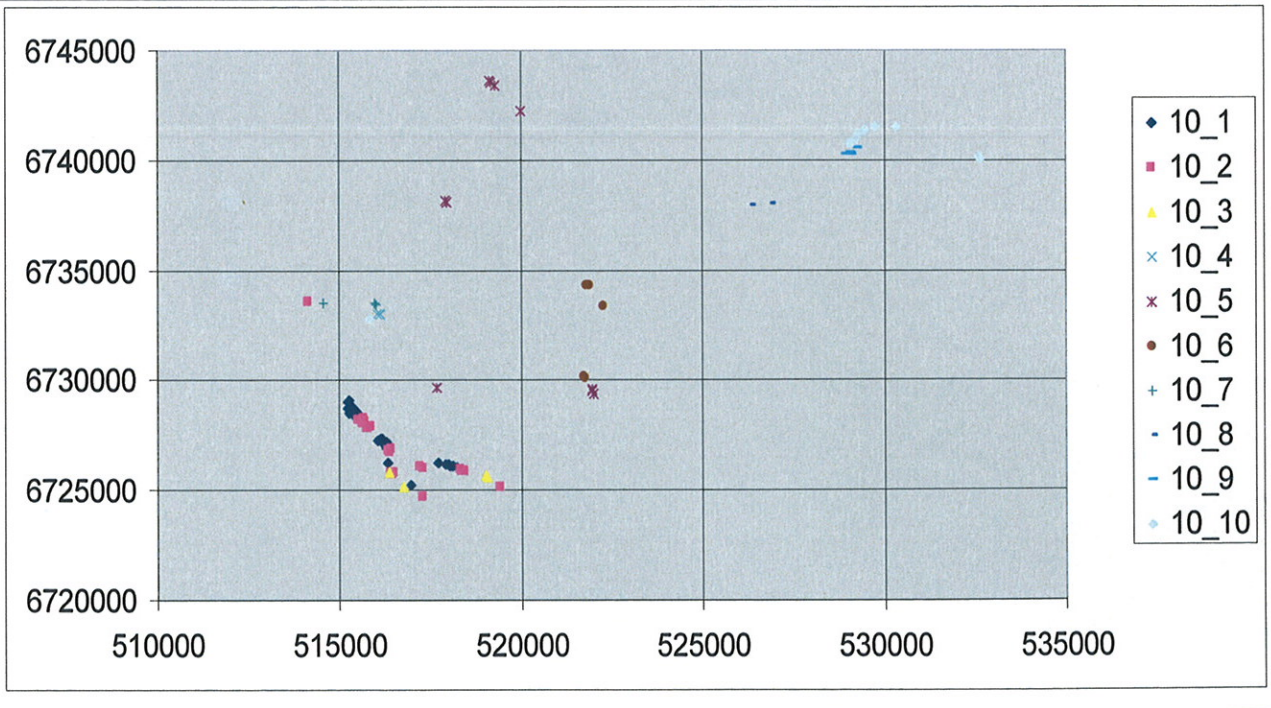
Significantly, the Mt Gibson area largely contains groups largely absent from other areas.

Figure 1 Geographic distribution of 10 group classification

Geographic areas



10 group level



Site conditions appears to have a modest relationship with the group classification (Tables 6 and 7). In particular, there is a significant difference between group 10 level group 1 and the rest of the sites. It should be borne in mind that the simple condition score did not distinguish between areas with a small proportion of intensive disturbance (eg a drilling track) from large proportion of a low level disturbance (eg mild grazing or burning). Never-the-less, the Mt Gibson area is in relatively good condition according to these scores.

Table 6 Group 10 level by Site condition score

gp10	0	1	2	3
1	34			
2	5	9	8	1
3	3	1		
4		2		
5	2	8		
6		4	1	
7		1	2	
8				3
9		3	2	
10	1	10		

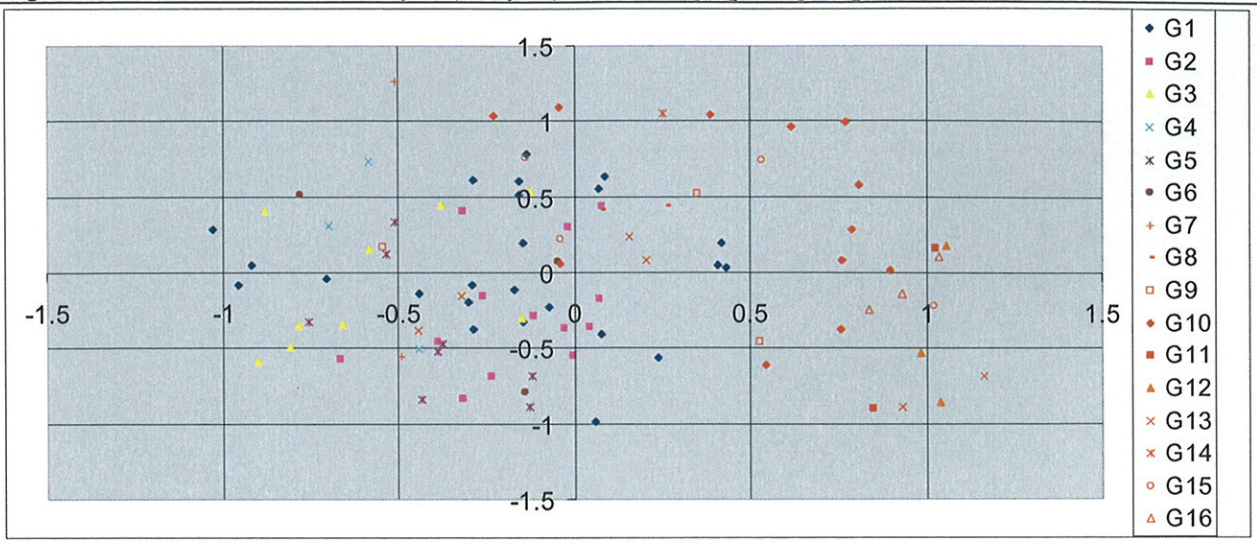
Table 7 Group 40 level by Site condition score

gp10	gp40	0	1	2	3
1	1	2			
1	2	1			
1	3	7			
1	4	9			
1	5	3			
1	6	6			
1	7	3			
1	8	1			
1	9	1			
1	10	1			
2	11	5	1	3	
2	12			1	
2	13		5	3	1
2	14			1	
2	15		1		
2	16		1		
2	17		1		
3	18	1			
3	19	1			
3	20	1	1		
4	21		1		
4	22		1		
5	23	1	1		
5	24	1	2		
5	25		1		
5	26		3		
5	27		1		
6	28		3	1	
6	29		1		
7	30			1	
7	31		1	1	
8	32				1
8	33				2
9	34		3	2	
10	35		1		
10	36		2		
10	37		3		
10	38	1			
10	39		2		
10	40		2		

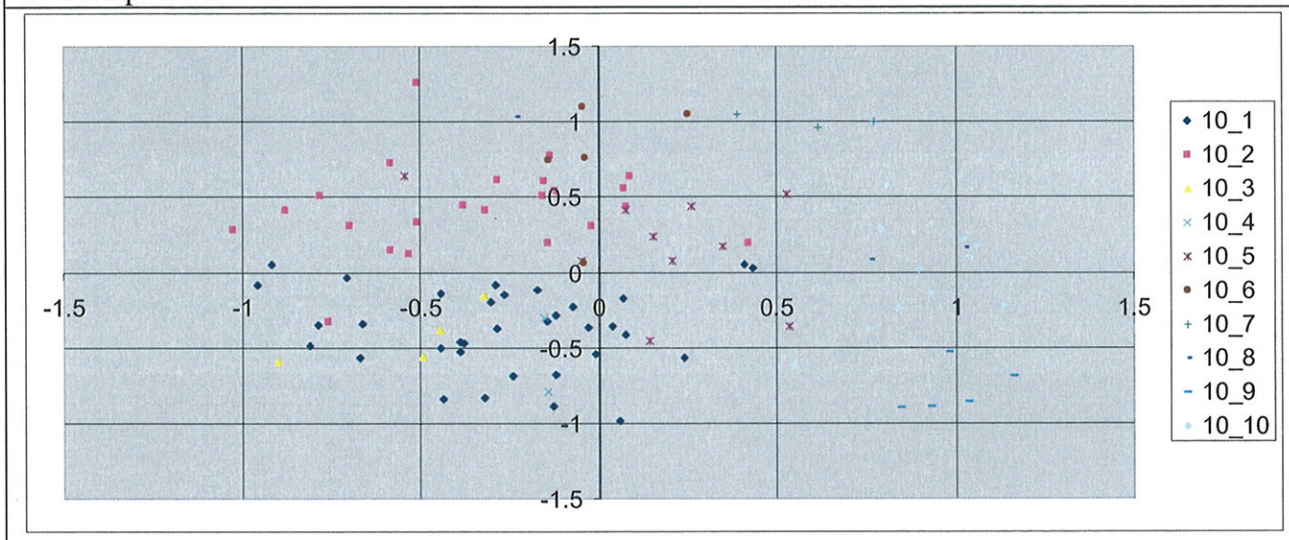
The ordination also appears to indicate that there are strong influences of geography and a lesser influence vegetation condition. The scatter plots of vector 1 on vector 2 (Figure 2) shows vector 1 separates the Mt Gibson area from the rest. Superficially, site condition appears to be significantly correlated to on vector 2. Vector 3 (not presented here) further emphasised differences between Mt Gibson and the rest.

Thus at a sub-regional scale the Mt Gibson area contains vegetation significantly different from other areas.

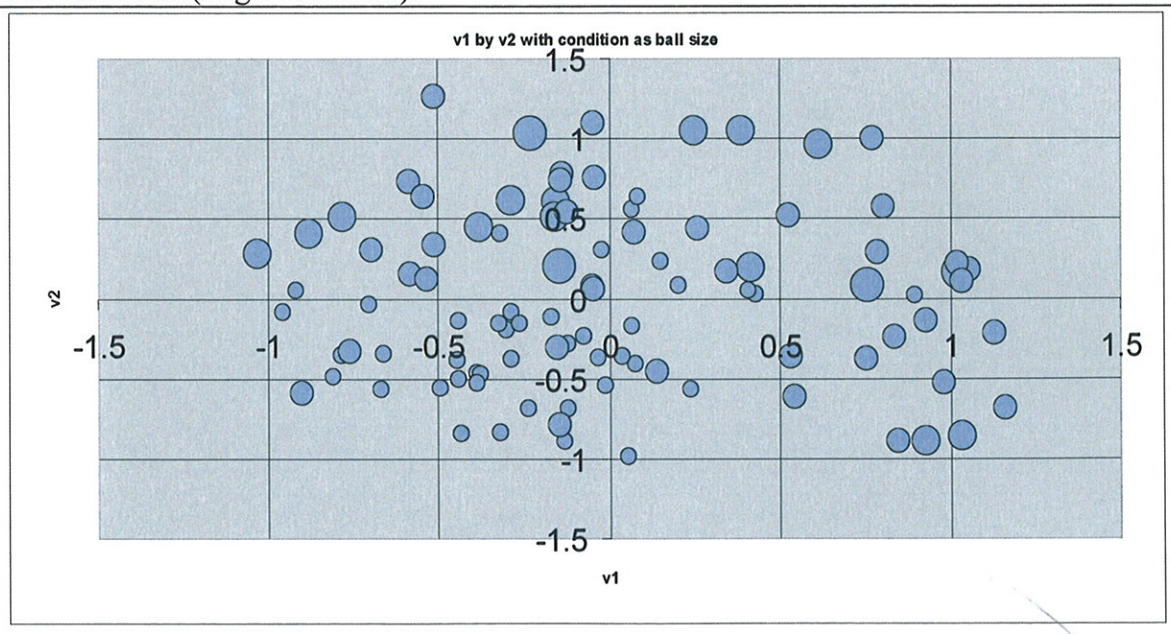
Figure 2 Ordination vectors 1 by 2 (X by Y) with Geographic group:



10 Group classification:



Site condition (larger are worst):

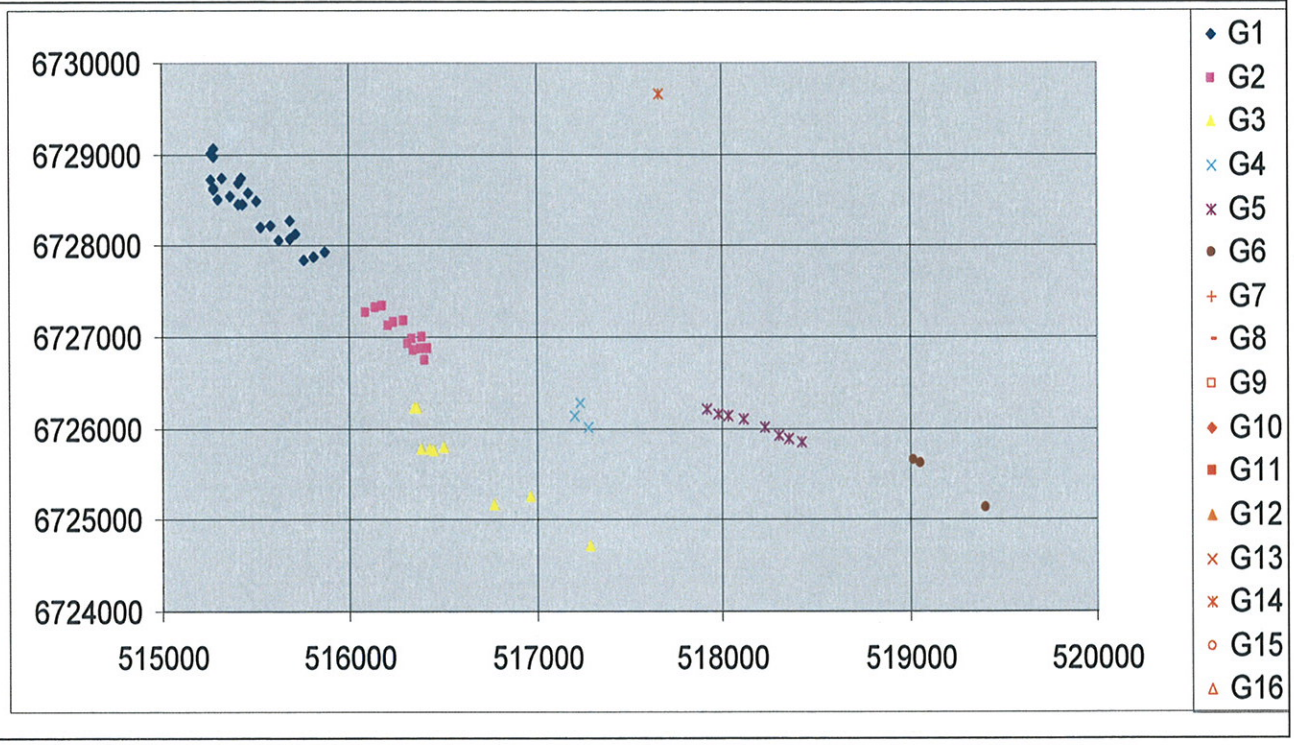


Local Geographic Context

(These results are from re analysis which is very slightly different from that presented for the sub regional interpretation.).

Seven geographic areas were defined within Mt Gibson for the purpose of analysis (Figure 3).

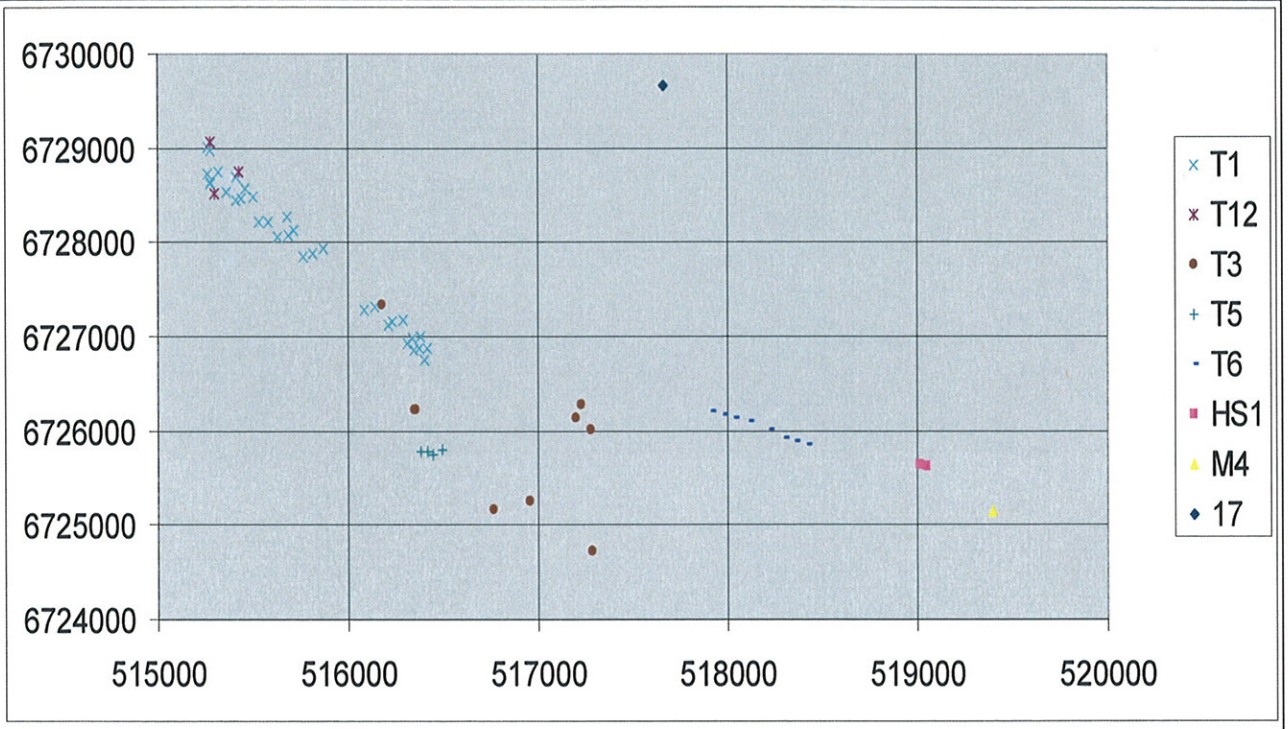
Figure 3 Geographic distribution of sites in Mt Gibson Area



G1	Extension Hill
G2	Iron Hill North
G3	Iron Hill
G4	Iron Hill East
G5	Mt Gibson North
G6	Mt Gibson South
G7	Vermin Fence

The vegetation map units at the sites (Figure 4) shows strong geographic patterns. This is probably a reflection of significant variations in geology as so often occurs in the vicinity of banded iron formations. It will also be a product of the concept which the mapper mentally constructed. Because of this strong pattern, there is a strong correlation between the mapping and the geographic areas defined.

Figure 4 Vegetation Map Units at sampled sites



T1 - ridge - Dense Thicket of mixed species dominated by *Acacia* species in jaspilite rock with pockets of loam

T12 - sideslopes - Thicket of Acacia ramulosa in loam with pebbles common on the surface

T3 - footslope - Dense thicket of *Acacia assimils Allocasuarina acutivalvis* subbsp. *prinsepiana* and *Melaleuca nematophylla* in loam pockets in jaspilite rocks

T5 - ridge - Thicket of *Allocasuarina acutivalvis* subsp. *prinsepiana* and *Grevillea obliquistigma* in loam pockets in jaspilite rocks

T6 - ridge - Thicket of *Acacia aneura* and *Acacia stowardii* in loam with abundant rocks on the surface

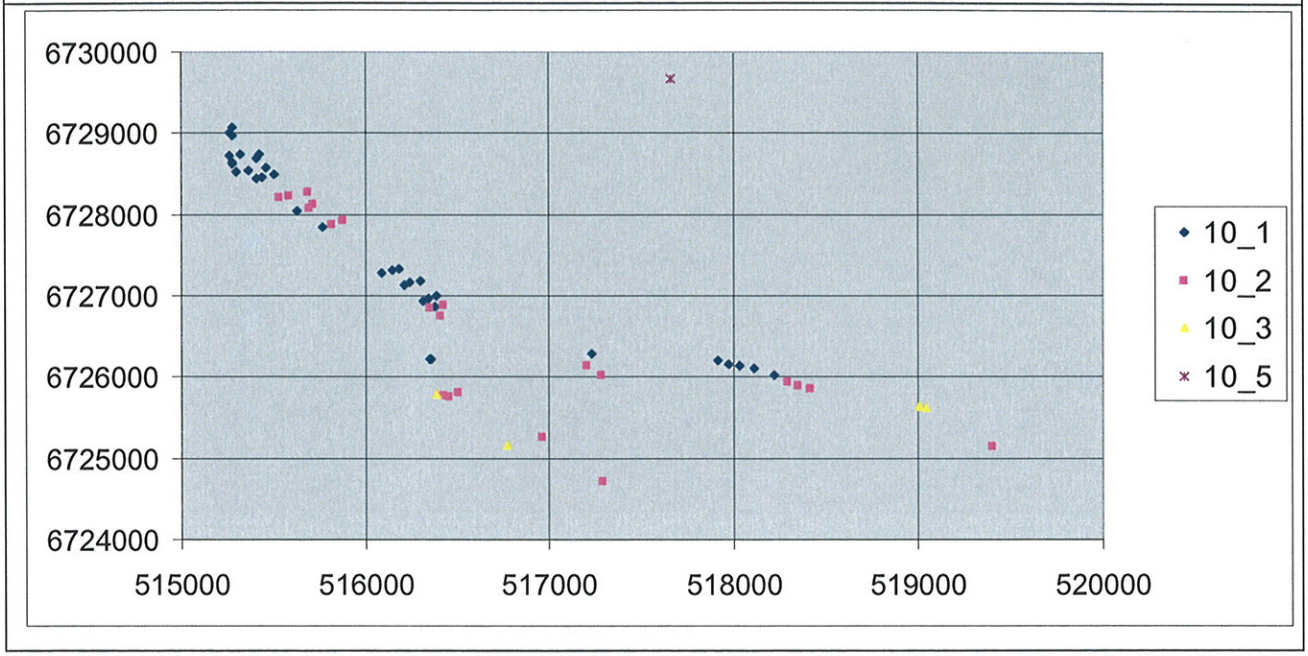
HS1 - ridge - Low Heath of *Ptilotus obovatus* in loamy clay amongst large boulders

M4 - ridge - Very Open Shrub Mallee of *Eucalyptus leptopoda* in loam

17 - low hill - Low Open Woodland of *Eucalyptus kochii* on clayey loamy soil

Within the Mt Gibson area, there are noticeable geographic patterns to the results of the classification. This is not so obvious at the 10 group level (Figure 5) as at the 40 group level (Figure 6).

Figure 5 Geographic distribution of 10 group classification in Mt Gibson Area
10 group level

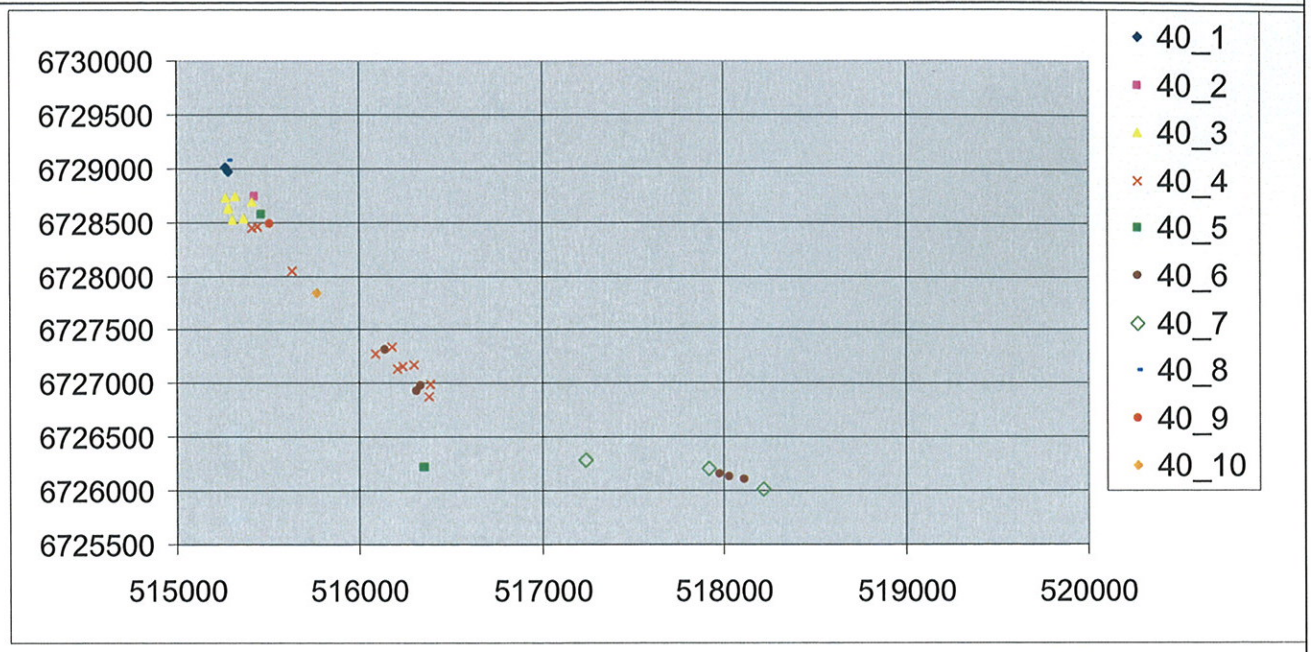


The 10 group level is considered to probably to be too abstract to represent "real communities", ie these are likely to be aggregations of communities that as aggregates mean little other than they contain certain species in common. On the other hand, it is possible that the 40 group level could be too "detailed". It is difficult to determine how many "real communities" are present without review in the field. Analysis for the purpose of elucidating patterns of distribution will be done using 20 of the 40 group level classification. These are summarised in Figure 6.

There are half of 40 group level groups within the Mt Gibson area (from 60 sites). Thirteen of these 20 groups (27 sites) occurred in no more than one of the geographically defined areas (Table 8). Just to exemplify the degree of localisation, seven of the 12 groups in Extension Hill occurred in none of the other areas.

Figure 6 Geographic distribution of 40 group classification in Mt Gibson Area

Those within 20 group level group 1:



Those within 20 group level group 2:

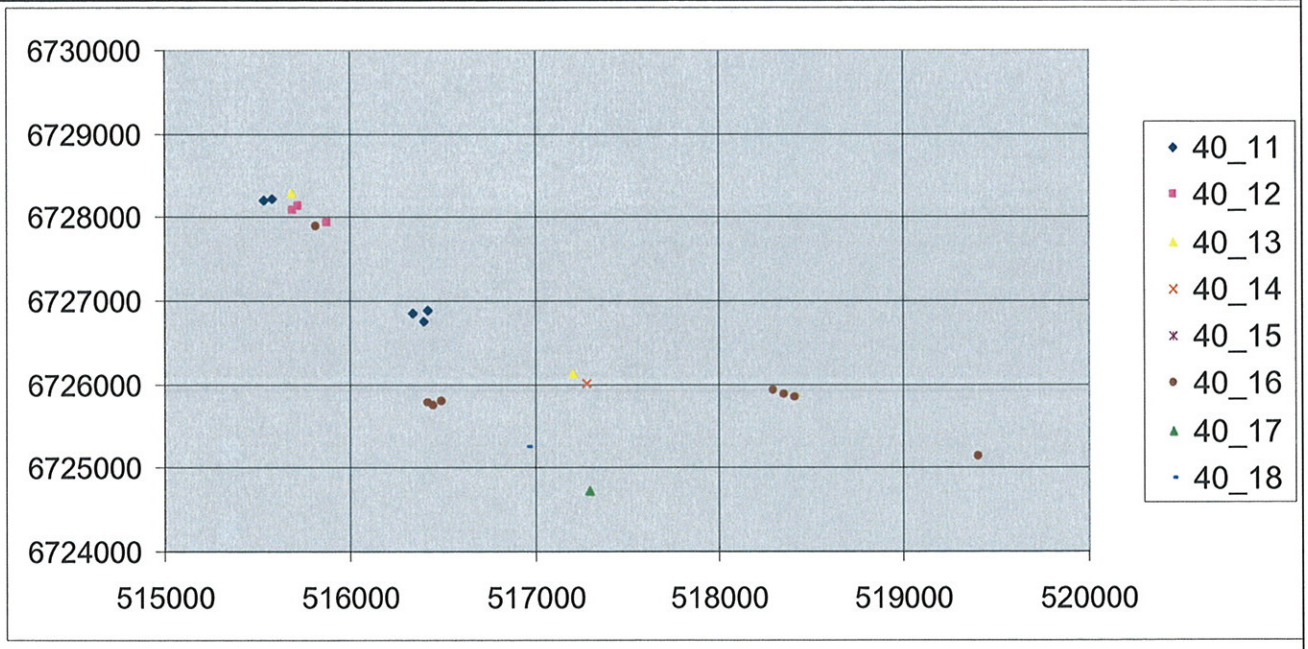


Figure 6 (continued)

Those within 20 group level group 3:

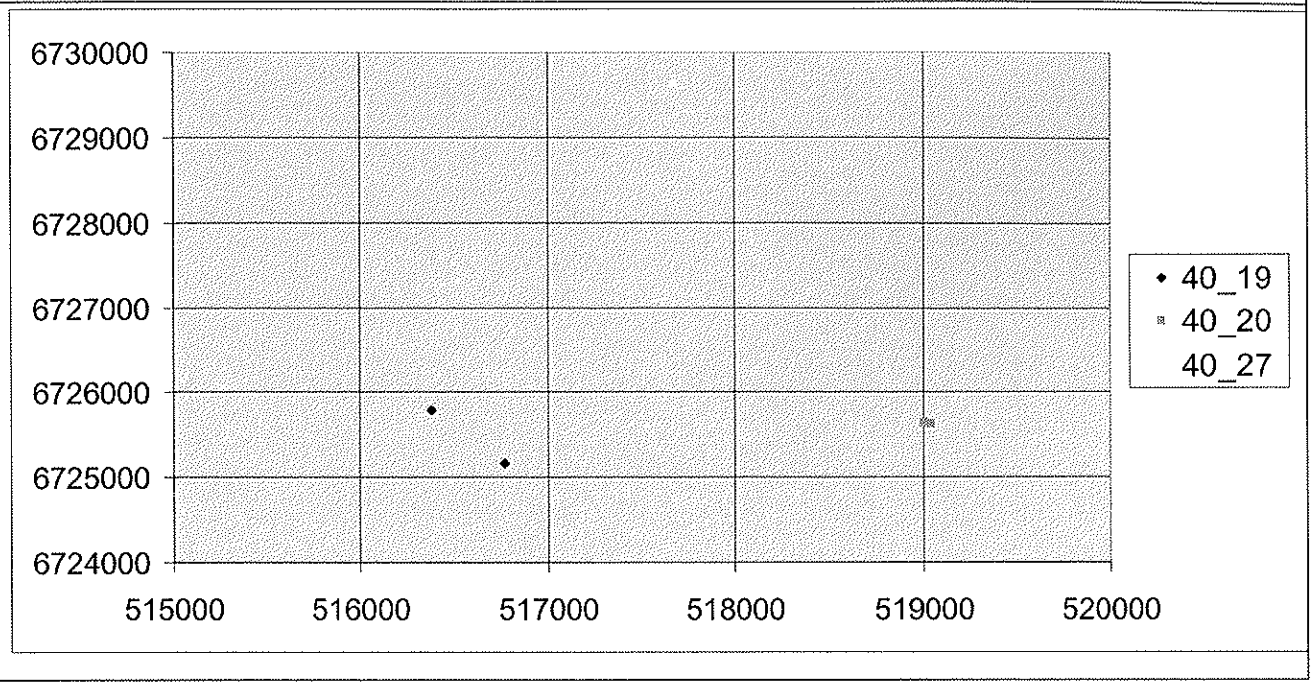


Table 8 Vegetation Map units (plus Geo Areas) by Group 10, 28 and 40 classification

Gp10→	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	5		
Gp28→	1	1	2	2	3	4	4	5	6	7	8	8	8	9	10	11	12	13	14	19	one area	# from
Name Gp 40→	1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	27	only	Ex Hill
Extension Hill	2	1	7	3	1			1	1	1	2	3	1		1						7 (16/24)	-
Iron Hill North				7		3					3										0 (0/13)	2/3
Iron Hill					2										3	1	1	2			3 (3/8)	2/5
Iron Hill East							1						1	1							1 (1/3)	1/3
Mt Gibson North						3	2								3						0 (0/8)	1/3
Mt Gibson South															1				2		1 (2/3)	1/2
Extension Hill Vermin Fence																				1	1 (1/1)	0/1
Present in areas	1	1	**1**	**2**	**2**	**2**	**2**	1	1	1	**2**	**1**	2	1	**4**	1	1	1	1	1		

One area only - # group 40 groups in geographic area (no sites from groups in geographic area / # sites sampled in geographic area)

 # from Ex Hill - # group 40 groups shared with Extension Hill / # group 40 groups in geographic area

Present in areas – number of areas in which the group 40 groups were present. (Those in bold are groups represented by >2 sites)

Thus, more than half of the sites sampled on Extension Hill were from groups (at either group 28 or group 40 level) from no other area. (The possibility of a sampling effort issue confounding this needs to be recognised. With the focus of the study being Extension Hill, it needs to be borne in mind that sampling density in other areas may not have been as comprehensive though it would have sampled most of the communities of the ridges of all areas.)

While both 10 group level groups 1 or 2 were in most geographic areas, only one of the 40 groups level groups were in even 4 of the 7 geographic areas. Most were from just one or two of the areas and if from two, typically they were from neighbouring areas.

There is further localised distribution of communities. Figure 7 shows the sites from Extension Hill and Iron Hill North (with which it shares most) represented at the Group 40 classification level. Groups 1, 2, 3 and 8 (sites 001 - 011) are apparently confined to the northern part of Extension Hill. This area contains no other groups suggesting it to be a node of different communities.

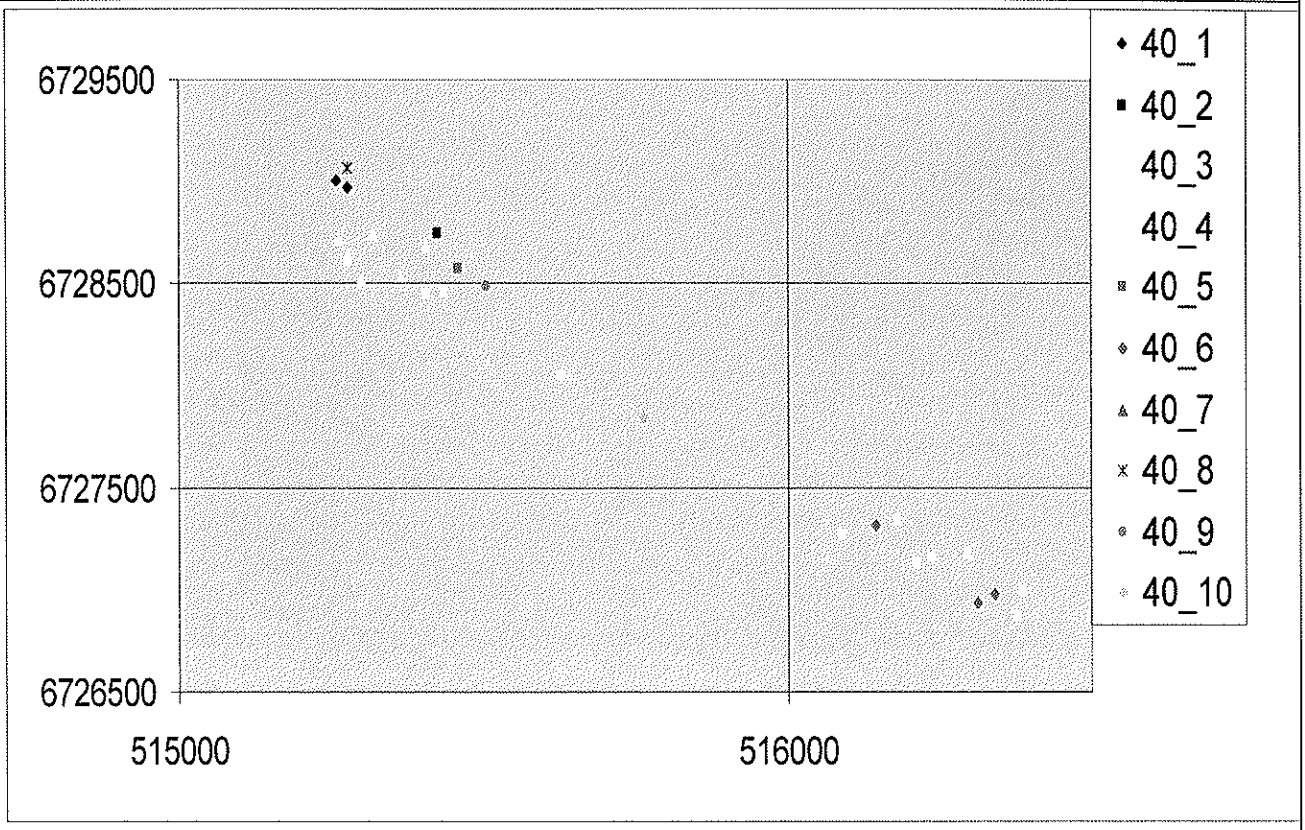
The group 28 level (represneted by the colour of symbols in Figure 7) show reasonable overlap between Extension Hill and Iron Hill North. It isnt clear in Figure 7 that you mean group 28 level (title of Fig 7 is 40 group classification)

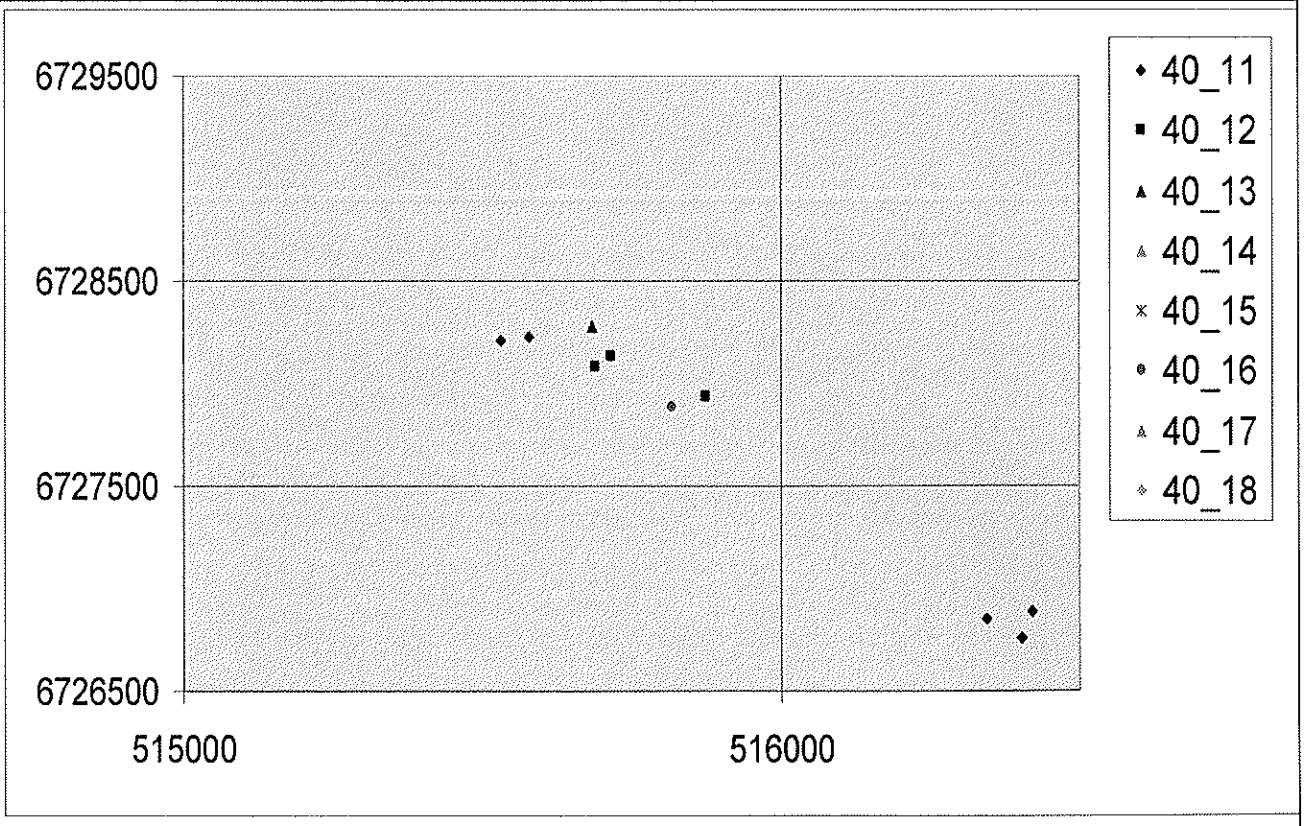
The groups (40 group level) that are shared between Extension Hill and Iron Hill North (and other areas) occur only in the southern portion of Extension Hill. Three (including ones represented by one site each) of the eight groups in this southern portion are apparently also confined to this area. This suggests that the southern portion of Extension Hill is more similar to the rest of the Mt Gibson area than is the northern portion.

An examination of the species composition is required before any conclusion should be drawn from this interpretation.

Figure 7 Geographic distribution of 40 group and 28 classification in the Extension Hill or Iron Hill North Areas (The 516000 easting separates the two areas.)

(The symbol colours indicate Group 28 level groups. see Table 8 for lookup of 28 group number.)





The sites' recorded position in the landscape (eg morphological type and slope class) did not add much to the interpretation of the differences identified by classification. This is probably as most sites sampled were in upper parts of the landscape. However, the vegetation mapping (see below) suggests that in conjunction with geographic area, landscape position might be important.

The classification is moderately related to the units that were recognised in the vegetation mapping (Table 9). (It should be clearly understood that, because of the nature of mapping, each map unit will contain a number of communities and that mapping often represents more than just plant communities.) This table shows that, within a geographic area, a floristic group tends to be confined to a vegetation map units.

While the sampling included few colluvial slope areas, it can be inferred that from the mapping that these are more wide spread than the ridge crest units which by both mapping and this analyses appear to be more confined.

Table 9 Vegetation Map units (plus Geo Areas) by Group 10, 28 and 40 classification (colluvial slope units highlighted)

	Gp10→	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	5
	Gp28→	1	1	2	2	3	4	4	5	6	7	8	8	8	9	10	11	12	13	14	19
Name & V Unit	Gp40→	1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	27
Extension Hill	T1	2		6	3	1				1	1	2	3	1		1					
Extension Hill	T12		1	1					1												
Iron Hill North	T1				6		3					3									
Iron Hill North	T3				1																
Iron Hill	T3					2											1	1	1		
Iron Hill	T5															3			1		
Iron Hill East	T3							1						1	1						
Mt Gibson North	T6						3	2								3					
Mt Gibson South	HS1																			2	
Mt Gibson South	M4															1					
Extension Hill	17																				1
Vermin Fence																					

Vegetation Units (Bennett, 2000, ATA Environmental, 2005:

T1 - ridge - Dense Thicket of mixed species dominated by *Acacia* species in jaspilite rock with pockets of loam

T12 - sideslopes - Thicket of *Acacia ramulosa* in loam with pebbles common on the surface

T3 - footslope - Dense thicket of *Acacia assimils Allocasuarina acutivalvis* subsp. prinsepiana and *Melaleuca nematophylla* in loam pockets in jaspilite rocks

T5 - ridge - Thicket of *Allocasuarina acutivalvis* subsp. *prinsepia*na and *Grevillea obliquistigma* in loam pockets in jaspilite rocks

T6 - ridge - Thicket of *Acacia aneura* and *Acacia stowardii* in loam with abundant rocks on the surface

HS1 - ridge - Low Heath of *Ptilotus obovatus* in loamy clay amongst large boulders

M4 - ridge - Very Open Shrub Mallee of *Eucalyptus leptopoda* in loam

17 - low hill - Low Open Woodland of *Eucalyptus kochii* on clayey loamy soil

Only one community (Group 40_16) occurred in ridge vegetation map units across several areas within Mt Gibson (Table 9). Sites on the T1 vegetation map unit occurred only in Extension Hill and Iron Hill North that contains communities that largely do not occur in other areas. Mount Gibson North and South have units that are largely not in other areas. (As indicated earlier, this might be partially a product of the mapping technique.)

Floristic Community Composition in Extension Hill and Iron Hill North Areas

The above analyses demonstrate that there is significant geographic influence on the plant community composition. These interpretations, in part, require a degree of corroboration that the communities are robust and moderately related to entities definable in traditional ways.

In Appendix 3, the photographs of the sites have been ordered according the classification to assist in interpretation. Also shown in this are the species observed to have the greatest cover. However, before examining the communities implied by these analyses a brief examination of the level of classification is appropriate.

The Group 10 level is clearly too general for the purpose of defining communities. All sites in Extension Hill and Iron Hill North are from Groups 1 and 2. The species differentiating between these two groups are mainly annuals (Table 10). As a generalisation, the sites of group 1 appear to have denser cover of scrub vegetation (see html document) than do the sites from group 2. To a limited degree this is a reflection of the abundance of *Allocasuarina acutivalvis* subsp. *prinsepiana.*

Table 10 Apparently Distinguishing Species between Gp10 groups 1 and 2

	1	2
Cheilanthes austrotenuifolia	82.9	9.09
Waitzia nitida	65.7	4.55
Goodenia ? berardiana	60	4.55
Velleia rosea	48.6	4.55
Eremophila clarkei	14.3	54.5
Goodenia pinnatifida	2.86	86.4
Velleia cycnopotamica	2.86	50

The next issue is the level of classification that best represents the communities. An examination of the structure of the dendrogram suggested that the 28 group level merits consideration.

One of the issues about accepting the 40 group level was the number of singletons. For example of the 20 in the Mt Gibson area, 8 were singletons. These may be real or a symptom of too fine a division. However, this level has only one less singletons than does the Group 40 level. Mainly, therefore, group 40 is division of a the largest three groups at the 28 group level.

Another measure of the goodness of group classification is the similarity between sites in a group and the similarity of sites to those of other groups. (The proportion of sites in a group that are more similar to a site from other groups is a measure of heterogeneity of the group. Such measures can only be used for groups with at least two sites.)

Only seven of the 23 Gp 40 groups (which had 2 or more sites) had any sites more similar to sites of other groups than to those of its current Gp40 group. This is better than the six out of 18 Gp28 groups (with more than 2 sites). Thus by this measure Gp 40 is not too many groups.

The average similarity of sites within a group is also a measure. (This can be done for only groups with two or more sites.) Of the 23 Gp 40 groups (which had 2 or more sites), the average similarity was 0.21. This was only a slight improvement over the 0.26 for the 28 group level.

As an example of the merits of the 40 group level compared to the 28 group level, the differences between Gp 40 groups 3 and 4 which combines to form Gp28 group 2 were investigated (Table 11.) This suggests that there are probably real differences, particularly as there are a number of conspicuous perennial species involved. Supporting this is the fact that these groups are geographically separate. The validity of this conclusion really needs testing in the field.

Table 11 Apparently Distinguishing Species between Gp40 groups 3 and 4 (Gp28 group 2)

	3	4
Velleia rosea	100	33
Acacia aneura var. aneura	86	
Leucopogon breviflorus	86	11
Hibbertia hypericoides		89
Stylidium confluens	14	80
Lawrencella rosea	43	100
Melaleuca fulgens subsp. fulgens		50
Xanthosia bungei		50

It is concluded, therefore, that the 40 group level is an appropriate level to be discussing the local scale variation in community composition. Although it is appropriate to stratify it with the 28 group level.

There is not enough information to define the communities that are represented by single sites.

Appendix 4 is a listing of the "constant" species (ones occurring in >40% of sites in a group) for the Gp 28 and Gp 40 groups that occur in the Extension Hill and Iron Hill North areas. (Those represented single sites have been omitted form this listing.)

The species for Gp40 have been summarised in Table 12 to allow an insight into the fidelity of species for groups. Species like *Allocasuarina acutivalvis* subsp. *prinsepiana*, *Melaleuca conothamnoides* x *nematophylla*, *Grevillea paradoxa*, *Calycopeplus paucifolius*, *Philotheca sericea*, *Trachymene ornata* and *Lawrencella rosea* are constant throughout these groups. Others like *Acacia stereophylla* var. *stereophylla*, *Hibbertia hypericoides*, *Acacia aneura* var. *aneura*, *Darwinia masonii* and *Xanthosia bungei* appear to differentiate between communities.

Acacia aneura appears to be present in the northern portion of Extension Hill (Gp 40 groups 1 and 3) but not in its southern part or Iron Hill North. On the other hand, Hibbertia hypericoides and to some degree *Darwinia masonii* and *Xanthosia bungei* is absent from the north of Extension Hill.

Table 12 Constant Species in Group 40 groups present on either Extension Hill or Iron Hill North.

	Gp10 →	1	1	1	1	1	2	2	2	2
	Gp28 →	1	2	2	3	4	8	8	8	11
NAME	Gp40 →	1	3	4	5	6	11	12	13	16
	# Sites →	2	7	10	3	6	5	3	2	8
Drosera macrantha		100	14.3	30		16.7				
Stylidium confluens		100	14.3	80			40		50	
Erodium cygnorum						16.7		33.3		50
Eremophila latrobei subsp. latrobei										50
Crassula colorata var. colorata						66.7				
Rhodanthe polycephala						50				12.5
Hibbertia acerosa						50				
Ptilotus obovatus								33.3		50
Dodonaea inaequifolia								66.7		25
Mirbelia depressa										50
Eremophila clarkei			28.6					100	50	87.5
Goodenia pinnatifida				10			100	100	100	75
Velleia cycnopotamica				10				100		75
Enekbatus stowardii		100	14.3					33.3	50	
Eucalyptus oldfieldii		100			33.3					
Cheilanthes sieberi subsp. sieberi							60	66.7		
Hemigenia macphersonii		50	28.6	10			100	66.7	100	
Acacia stereophylla var. stereophylla			42.9	40	33.3		40			
Cheilanthes austrotenuifolia		100	100	100		83.3	20	33.3		
Thysanotus patersonii		100	85.7	60		83.3	100	100	100	62.5
Allocasuarina acutivalvis subsp. prinsepiana		100	100	100	100	100	100	100	100	87.5
Grevillea obliquistigma subsp. obliquistigma			85.7	100	100	100	100	100	100	75
Grevillea paradoxa		100	71.4	50	100	66.7	60	66.7	100	87.5
Acacia assimilis subsp. assimilis		50	85.7	90	100	66.7	80	100		25
Philotheca sericea		50	100	100	100	66.7	40	100		100
Calycopeplus paucifolius		100	71.4	90	100	100	20	33.3	50	100
Hibbertia hypericoides				90	33.3	50	100	33.3	50	87.5
Melaleuca conothamnoides x nematophylla		50	85.7	100	100	100	100	66.7	100	100
Micromyrtus racemosa var. prochytes		50	71.4	60		16.7				100
Trachymene ornata		100	57.1	80	66.7	83.3	60	100	50	75
Lawrencella rosea		50	42.9	100	33.3	33.3	100	100	50	100
Waitzia nitida		100	85.7	50	100	33.3				
Goodenia ? berardiana		50	100	50	33.3	50				
Velleia rosea		50	100	30	66.7	16.7				
Leucopogon breviflorus			85.7	20	100					12.5
Acacia aneura var. aneura		100	85.7						100	37.5
Aluta aspera		50	100	70			100	66.7	100	37.5
Cassytha nodiflora				20	66.7	100	80			37.5
Darwinia masonii			42.9	40	66.7	66.7	40			87.5
Melaleuca fulgens subsp. fulgens				50		66.7	20		100	62.5
Xanthosia bungei		50		50		100	60			87.5
Gastrolobium laytonii					33.3	100				25

Species are ordered by species classification.
Names in **bold** are species apparently distinguishing between Extension Hill and Iron Hill North OR between the north and south of Extension Hill

Location of Floristic Groups:
1 Extension Hill
3 Extension Hill
4 Extension Hill, Iron Hill North
5 Extension Hill, Iron Hill
6 Iron Hill North, Mount Gibson North
11 Extension Hill, Iron Hill North
12 Extension Hill
13 Extension Hill, Iron Hill East
16 Extension Hill, Iron Hill Mount Gibson North, Mount Gibson South

5.0 DISCUSSION

At a sub-regional scale the Mt Gibson area contains communities that appear to be distinct from those of other areas sampled. This is probably related to differences in parent material (geology, geomorphology and soils). The issue of disturbance being significantly lower in the Mt Gibson area should not be discounted. However, the reasonable accord between the classifications using all species and that using only the perennial and geophyte species to some degree discounts the degree of disturbance as being the major influence to the differences at this scale of examination. It should be noted that the sites for other areas that were recorded as largely undisturbed were distinct from sites in the Mt Gibson area.

There is significant local geographically related variation in the floristic composition of vegetation within the Mt Gibson area. These can be related to the local ridge features and has generally been recognised in the vegetation mapping.

The ridges of Extension Hill and Iron Hill North largely contain communities different from the other areas. Iron Hill and Iron Hill East have some similarities but these appear to be more in the vegetation related to the colluvium and less prominent ridges.

Generally, there is broad similarity between Extension Hill and Iron Hill North (group 28 level). The variations recognised in this study between these areas, while probably real, needs investigation in the field.

Extension Hill appears to have a geographically definable division within it reflecting differences in the distribution of plant communities. The northern portion contains several communities (at the 40 group level) that are largely not represented (by the present sampling) in other areas. The southern part is more similar to the Iron Hill North area and to a lesser degree, Iron Hill and Mt Gibson.

Several species were identified as distinguishing between the north and southern portions of Extension Hill. These included *Acacia aneura* in the north and *Hibbertia hypericoides* in the south.

Several floristic communities (at the group 40 level) identified by this methodology are totally within the proposed pit that covers the extent of Extension Hill. These are principally Gp40 groups 1, 2, 3 and 12. Of these groups 3 and 12 are moderately similar to groups 4 and 11 that occur on Iron Hill North. Workplan 1 shows the location of the 20 indicatively mapped Gp 40 floristic groups occurring within the Mt Gibson project area. This figures indicate that six of the 20 floristic groups occurring in the area occur only within the Extension Hill area.

6.0 REFERENCE

Belbin, L. (1987). PATN Reference Manual (313p), Users Guide (79p), Command Manual (47p), and Example Manual (108p). CSIRO Division of Wildlife and Ecology, Lynham, ACT.

APPENDIX 1: Description of Interpretations

Site dendrogram All Dendrogram of all 100 sites using all species with geographic group name, Group 10 and Group 40 numbers, # species per site and condition of site.

Revised Site dendrogram Revised Dendrogram of all 100 sites using all species with geographic group name, Group 10 and Group 40 numbers, # species per site and condition of site, most similar sites and species with high cover.

Rev Gp10 ASO Average Association matrix Revised All Sites, All Species for group 10 level

Rev Gp28 ASO Average Association matrix Revised All Sites, All Species for group 28 level

Rev Gp40 ASO Average Association matrix Revised All Sites, All Species for group 40 level

AllSpecies AllSites Matrix of all species (rows) by All sites with the species and sites ordered by the respective dendrograms. The classifications are emphasised by highlighting.

Site scatter plots_all Scatter plots of sites with various charts based on easting and northing and ordination vectors.
Charts (easting by northing) (all sites)
Geographic group, Group 10 classification,
Charts (easting by northing) (Mt Gibson only)
Geographic group, Group 10 classification, 40 group classification
Charts (Ordination, v1 by v2 and v1 by v3) (all sites)
Group 10 classification, condition as ball size

Revised Site scatter plots_all Revised Scatter plots of sites with various charts based on easting and northing, Mt Gibson area only.
Charts (easting by northing) (Mt Gibson only)
Group 10 classification, 40 group classification)
Charts (easting by northing) (Extension Hill and Iron Hill North)
Geographic group, Group 10 classification, 40 group classification

PRINTED: Thu 23 Mar 06

CHECKED BY: SG 23-03-06

DRAWN BY: EDS 23-03-06

DATUM: MGA

MGM-2005-004/VEGR/MGM-5-4-VEGR-Griffin05wkpln1.dgn

metres

0 200 400 600 800 1000

SCALE 1 : 20 000

Legend

- Project Layout
- Cadastral Boundary
- Tenement Boundary
- Floristic Group Boundary
- Floristic Community Types Impacted by the Project Not Occuring Elswhere on Banded Iron Formation in the Mt Gibson Area

Floristic Group Mapping (Group 40 groups) on Banded Iron Formation Mt Gibson

G1 Closed Tall Scrub *Acacia aneura* var. *aneura, Allocasuarina acutivalvis* subsp. *prinsepiana, Grevillea paradoxa* with scattered *Eucalyptus oldfieldii* and *Calycopeplus paucifolius* over Herbland of *Waitzia nitida, Trachymene ornata, Stylidium confluens, Enekbatus stowardii, Drosera micrantha* and *Thysanotus patersonii.*

G2 Open Heath *Mirbelia macrophylla* and *Philotheca seriacea* with scattered *Acacia aneura* subsp. *aneura* and *Allocasuarina acutivalvis* subsp. *prinsepiana.*

G3 Closed Tall Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Aluta aspera, Philotheca seriacea, Acacia aneura* var. *aneura, Acacia assimilis* subsp. *assimilis, Grevillea obliquistigma* subsp. *obliquistigma, Melaleuca conothamnoides* x *nematophylla, Calycopeplus paucifolius, Grevillea paradoxa, Micromyrtus racemosa* var. *prochytes* and *Acacia stereophylla* var. *stereophylla.*

G4 Closed Tall Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Grevillea obliquistigma* subsp. *obliquistigma, Melaleuca conothamnoides* x *nematophylla, Philotheca seriacea, Acacia assimilis* subsp. *assimilis, Calycopeplus paucifolius, Hibbertia hypericoides* and *Aluta aspera.*

G5 Closed Tall Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Calycopeplus paucifolius, Grevillea obliquistigma* subsp. *obliquistigma, Melaleuca conothamnoides* x *nematophylla* and *Philotheca seriacea.*

G6 Closed Tall Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Calycopeplus paucifolius, Gastrolobium laytonii, Grevillea obliquistigma* subsp. *obliquistigma, Melaleuca conothamnoides* x *nematophylla* and *Xanthosia bungei.*

G7 Tall Open Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Melaleuca conothamnoides* x *nematophylla, Calycopeplus paucifolius, Grevillea paradoxa, Hibbertia acerosa* and *Grevillea obliquistigma* subsp. *obliquistigma.*

G8 Tall Shrubland *Allocasuarina acutivalvis* subsp. *prinsepiana, Philotheca sericea* and *Acacia assimilis* subsp. *assimilis.*

G9 Tall Open Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana,, Eucalyptus loxophleba* subsp. *supralaevis, Melaleuca leiocarpa, Acacia assimilis* subsp. *assimilis* and *Philotheca sericea.*

G10 Tall Open Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Hibbertia hypericoides, Melaleuca conothamnoides* x *nematophylla, Acacia assimilis* subsp. *assimilis, Aluta aspersa* subsp. *hesperia* and *Grevillea paradoxa.*

G11 Closed Tall Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Aluta aspera, Grevillea obliquistigma* subsp. *obliquistigma, Hibbertia hypericoides, Melaleuca conothamnoides* x *nematophylla, Acacia assimilis* subsp. *assimilis, Grevillea paradoxa* and *Xanthosia bungei.*

G12 Closed Tall Scrub *Acacia assimilis, Allocasuarina acutivalvis* subsp. *prinsepiana, Eremophila clarkei, Grevillea obliquistigma* subsp. *obliquistigma, Philotheca sericea, Aluta aspersa, Grevillea paradoxa* and *Melaleuca conothamnoides* x *nematophylla.*

G13 Closed Tall Scrub *Acacia aneura* var. *aneura, Allocasuarina acutivalvis* subsp. *prinsepiana, Aluta aspersa, Grevillea obliquistigma* subsp. *obliquistigma, Grevillea paradoxa* and *Melaleuca conothamnoides* x *nematophylla*.

G14 Tall Open Scrub *Aluta aspersa, Acacia aspersa, Grevillea obliquistigma* subsp. *obliquistigma* and *Allocasuarina acutivalvis* subsp. *prinsepiana.*

G16 Shrubland to Tall Open Scrub *Calycopeplus paucifolius, Melaleuca conothamnoides* x *nematophylla, Philotheca sericea, Allocasuarina acutivalvis* subsp. *prinsepiana, Darwinia masonii, Eremophila clarkei, Grevillea paradoxa, Hibbertia hypericoides, Grevillea obliquistigma* subsp. *obliquistigma, Velleia cycnopotamica* and *Melaleuca fulgens* subsp. *fulgens*.

G18 Open Heath to Tall Open Scrub *Acacia aneura, Grevillea obliquistigma* subsp. *obliquistigma, Allocasuarina acutivalvis* subsp. *prinsepiana* and *Sida excedentifolia* over Open Herbland of *Waitzia nitida.*

G19 Tall Open Scrub *Allocasuarina acutivalvis* subsp. *prinsepiana, Eremophila clarkei, Philotheca brucei* subsp. *brucei, Calycopeplus paucifolius, Melaleuca conothamnoides* x *nematophylla, Acacia tetragonophylla* and *Aluta aspersa*.

G20 Tall Shrubland of *Calycopeplus paucifolius, Dodonaea inaequifolia* over Herbland of *Ptilotus obovatus.*

ATA Environmental
environmental scientists

NUMERICAL ANALYSIS OF FLORISTIC DATA IN MT GIBSON AREA

FLORISTIC GROUP MAPPING (GROUP 40 GROUPS) ON BANDED IRON FORMATION AT MT GIBSON

WORKPLAN 1

APPENDIX 2: Comparison of Classifications at 40 Group Level using All Species: Initial (Columns) and Final (Rows)

gp10	gp40	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	1	2																																							
1	2		1																																						
1	3			7																																				
1	4				9									1																										
1	5					3																																		
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8	32																																1							
8	33																																	2						
9	34																																		5					
10	35																																			1				
10	36																																				2			
10	37																																					3		
10	38																																						1	
10	39																																							2
10	40																																							2

APPENDIX 3: Photographs of sites sampled

Sites ordered by classification with group number at 10, 28 and 40 group levels indicated.

APPENDIX 4: Extension Hill and Iron Hill North Floristic Communities

Species that occur with the highest "constancy" in the main floristic groups in the Extension Hill and Iron Hill North areas. Values are % of sites in group.

Species in **bold** were recorded to have a significant cover in at least one of the sites in the group.

Gp28 Group 1 (3 sites) (in veg unit T1)

Acacia aneura var. aneura	100
Grevillea paradoxa	100
Calycopeplus paucifolius	100
Cheilanthes austrotenuifolia	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Trachymene ornata	100
Stylidium confluens	100
Waitzia nitida	100
Xanthosia bungei	67
Eucalyptus oldfieldii	67
Philotheca sericea	67
Thysanotus patersonii	67
Enekbatus stowardii	67
Velleia rosea	67
Drosera macrantha	67

Gp40 Group 1 (2 sites) (in veg unit T1)

Acacia aneura var. aneura	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Calycopeplus paucifolius	100
Cheilanthes austrotenuifolia	100
Drosera macrantha	100
Enekbatus stowardii	100
Eucalyptus oldfieldii	100
Grevillea paradoxa	100
Stylidium confluens	100
Thysanotus patersonii	100
Trachymene ornata	100
Waitzia nitida	100

Gp28 Group 2 (17 sites) (in veg unit T1, T12)

Philotheca sericea	100
Cheilanthes austrotenuifolia	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Melaleuca conothamnoides x nematophylla	94
Grevillea obliquistigma subsp. obliquistigma	94
Acacia assimilis subsp. assimilis	88
Calycopeplus paucifolius	82
Aluta aspera	82
Lawrencella rosea	76
Thysanotus patersonii	71

Trachymene ornata	71
Goodenia ? berardiana	71
Micromyrtus racemosa var. prochytes	65
Waitzia nitida	65
Velleia rosea	59
Grevillea paradoxa	59
Stylidium confluens	53
Hibbertia hypericoides	53
Leucopogon breviflorus	47
Acacia stereophylla var. stereophylla	41
Darwinia masonii	41

Gp40 Group 3 (7 sites)(in veg unit T1, T12)

Allocasuarina acutivalvis subsp. prinsepiana	100
Aluta aspera	100
Cheilanthes austrotenuifolia	100
Goodenia ? berardiana	100
Philotheca sericea	100
Velleia rosea	100
Acacia aneura var. aneura	86
Acacia assimilis subsp. assimilis	86
Grevillea obliquistigma subsp. obliquistigma	86
Leucopogon breviflorus	86
Melaleuca conothamnoides x nematophylla	86
Thysanotus patersonii	86
Waitzia nitida	86
Calycopeplus paucifolius	71
Grevillea paradoxa	71
Micromyrtus racemosa var. prochytes	71
Trachymene ornata	57
Acacia stereophylla var. stereophylla	43
Darwinia masonii	43
Lawrencella rosea	43

Gp40 Group 4 (10 sites) (in veg unit T1)

Allocasuarina acutivalvis subsp. prinsepiana	100
Cheilanthes austrotenuifolia	100
Grevillea obliquistigma subsp. obliquistigma	100
Lawrencella rosea	100
Melaleuca conothamnoides x nematophylla	100
Philotheca sericea	100
Acacia assimilis subsp. assimilis	90
Calycopeplus paucifolius	90
Hibbertia hypericoides	90
Stylidium confluens	80
Trachymene ornata	80
Aluta aspera	70
Micromyrtus racemosa var. prochytes	60
Thysanotus patersonii	60
Goodenia ? berardiana	50
Grevillea paradoxa	50

Melaleuca fulgens subsp. fulgens	50
Waitzia nitida	50
Xanthosia bungei	50

Gp 28 Group 3 = Gp40 Group 5 (3 sites) (in veg unit T3 and T1)

Acacia assimilis subsp. assimilis	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Calycopeplus paucifolius	100
Grevillea obliquistigma subsp. obliquistigma	100
Grevillea paradoxa	100
Leucopogon breviflorus	100
Melaleuca conothamnoides x nematophylla	100
Philotheca sericea	100
Waitzia nitida	100
Cassytha nodiflora	67
Darwinia masonii	67
Trachymene ornata	67
Velleia rosea	67

Gp28 Group 4 (9 sites)(in veg unit T1, T6)

Allocasuarina acutivalvis subsp. prinsepiana	100
Xanthosia bungei	100
Grevillea obliquistigma subsp. obliquistigma	100
Cassytha nodiflora	100
Calycopeplus paucifolius	100
Cheilanthes austrotenuifolia	89
Melaleuca conothamnoides x nematophylla	89
Darwinia masonii	78
Acacia assimilis subsp. assimilis	78
Gastrolobium laytonii	67
Hibbertia acerosa	67
Thysanotus patersonii	67
Goodenia ? berardiana	67
Grevillea paradoxa	67
Philotheca sericea	67
Crassula colorata var. colorata	56
Melaleuca fulgens subsp. fulgens	56
Trachymene ornata	56
Waitzia nitida	56
Lawrencella rosea	56
Hibbertia hypericoides	44
Rhodanthe polycephala	44
Erodium cygnorum	44
Micromyrtus racemosa var. prochytes	44

Gp40 Group 6 (6 sites) (in veg unit T1, T6)

Allocasuarina acutivalvis subsp. prinsepiana	100
Calycopeplus paucifolius	100
Cassytha nodiflora	100
Gastrolobium laytonii	100
Grevillea obliquistigma subsp. obliquistigma	100
Melaleuca conothamnoides x nematophylla	100
Xanthosia bungei	100
Cheilanthes austrotenuifolia	83
Thysanotus patersonii	83
Trachymene ornata	83

Acacia assimilis subsp. assimilis	67
Crassula colorata var. colorata	67
Darwinia masonii	67
Grevillea paradoxa	67
Melaleuca fulgens subsp. fulgens	67
Philotheca sericea	67
Goodenia ? berardiana	50
Hibbertia acerosa	50
Hibbertia hypericoides	50
Rhodanthe polycephala	50

Gp28 Group 8 (10 sites)(in veg unit T1, T3)

Allocasuarina acutivalvis subsp. prinsepiana	100
Thysanotus patersonii	100
Grevillea obliquistigma subsp. obliquistigma	100
Goodenia pinnatifida	100
Hemigenia macphersonii	90
Melaleuca conothamnoides x nematophylla	90
Aluta aspera	90
Lawrencella rosea	90
Hibbertia hypericoides	70
Acacia assimilis subsp. assimilis	70
Grevillea paradoxa	70
Trachymene ornata	70
Cheilanthes sieberi subsp. sieberi	50
Philotheca sericea	50
Cassytha nodiflora	40
Eremophila clarkei	40

Gp40 Group 11 (5 sites) (in veg unit T1)

Allocasuarina acutivalvis subsp. prinsepiana	100
Aluta aspera	100
Goodenia pinnatifida	100
Grevillea obliquistigma subsp. obliquistigma	100
Hemigenia macphersonii	100
Hibbertia hypericoides	100
Lawrencella rosea	100
Melaleuca conothamnoides x nematophylla	100
Thysanotus patersonii	100
Acacia assimilis subsp. assimilis	80
Cassytha nodiflora	80
Cheilanthes sieberi subsp. sieberi	60
Grevillea paradoxa	60
Trachymene ornata	60
Xanthosia bungei	60

Gp40 Group 12 (3 sites) (in veg unit T1)

Acacia assimilis subsp. assimilis	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Eremophila clarkei	100
Goodenia pinnatifida	100

Grevillea obliquistigma subsp. obliquistigma	100
Lawrencella rosea	100
Philotheca sericea	100
Thysanotus patersonii	100
Trachymene ornata	100
Velleia cycnopotamica	100
Aluta aspera	67
Cheilanthes sieberi subsp. Sieberi	67
Dodonaea inaequifolia	67
Grevillea paradoxa	67
Hemigenia macphersonii	67
Melaleuca conothamnoides x nematophylla	67

Gp40 Group 13 (2 sites) (in veg unit T1, T3)

Acacia aneura var. aneura	100
Allocasuarina acutivalvis subsp. prinsepiana	100
Aluta aspera	100
Goodenia pinnatifida	100
Grevillea obliquistigma subsp. obliquistigma	100
Grevillea paradoxa	100
Hemigenia macphersonii	100
Melaleuca conothamnoides x nematophylla	100
Melaleuca fulgens subsp. fulgens	100
Thysanotus patersonii	100

Gp28 Group 16 = Gp40 Group 16 (8 sites) (in veg unit T5, T6, T1, M4)

Calycopeplus paucifolius	100
Lawrencella rosea	100
Melaleuca conothamnoides x nematophylla	100
Micromyrtus racemosa var. prochytes	100
Philotheca sericea	100
Allocasuarina acutivalvis subsp. prinsepiana	88
Darwinia masonii	88
Eremophila clarkei	88
Grevillea paradoxa	88
Hibbertia hypericoides	88
Xanthosia bungei	88
Goodenia pinnatifida	75
Grevillea obliquistigma subsp. obliquistigma	75
Trachymene ornata	75
Velleia cycnopotamica	75
Melaleuca fulgens subsp. fulgens	63
Thysanotus patersonii	63
Eremophila latrobei subsp. latrobei	50
Erodium cygnorum	50
Mirbelia depressa	50
Ptilotus obovatus	50

Site dendrogram All	Dendrogram of all 100 sites using all species with geographic group name, Group 10 and Group 40 numbers, # species per site and condition of site.	
Site dendrogram per geophy	Dendrogram of all 100 sites using only perennials and geophytes with geographic group name, Group 10 and Group 40 numbers, # species per site and condition of site.	
Revised Site dendrogram	Revised Dendrogram of all 100 sites using all species with geographic group name, Group 10 group 28 and Group 40 numbers, # species per site and condition of site, most similar sites and species with high cover.	
Rev Sites ASO	Association matrix Revised All Sites, All Species.	
Rev Gp10 ASO	Average Association matrix Revised All Sites, All Species for group 10 level	
Rev Gp28 ASO	Average Association matrix Revised All Sites, All Species for group 28 level	
Rev Gp40 ASO	Average Association matrix Revised All Sites, All Species for group 40 level	
AllSpecies AllSites	Matrix of all species (rows) by All sites with the species and sites ordered by the respective dendrograms. The classifications are emphasised by highlighting.	
All, Slope class	Summary of sites by Group 40 slassification by slope class	
All, Morph type	Summary of sites by Group 40 slassification by morphological type	
All, map unit	Summary of sites by Group 40 slassification by vegetation map unit	
All, map_unit+geo	Summary of sites by Group 40 slassification by vegetation map unit and local geographic area	
Site scatter plots_all	Scatter plots of sites with various charts based on easting and northing and ordination vectors.	
	Charts (easting by northing) (all sites)	Geographic group, Group 10 classification,
	Charts (easting by northing) (Mt Gibson only)	Geographic group, Group 10 classification, 40 group classification
	Charts (Ordination, v1 by v2 and v1 by v3) (all sites)	Group 10 classification, condition as ball size
Revised Site scatter plots_all	Revised Scatter plots of sites with various charts based on easting and northing, Mt Gibson area only.	
	Charts (easting by northing) (Mt Gibson only)	Group 10 classification, 40 group classification)
	Charts (easting by northing) (Extension Hill and Iron Hill North)	Geographic group, Group 10 classification, 40 group classification
Site scatter plots_per geophy		Scatter plots of sites with various charts based on easting and northing and ordination vectors.
	Charts (easting by northing) (all sites)	Geographic group, Group 10 classification,
	Charts (easting by northing) (Mt Gibson only)	Geographic group, Group 10 classification, 40 group classification
	Charts (Ordination, v1 by v2 and v1 by v3) (all sites)	Group 10 classification, condition as ball size
SpeciesBySiteGp10	Group 10 groups 1 and 2 site frequency of species with high constancy.	
SpeciesBySiteGp28	Group 28 groups 1 to 14 site frequency of species with high constancy.	
SpeciesBySiteGp40	Group 40 groups 1 to 18 site frequency of species with high constancy.	

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ID	site	name	gp10	gp28	gp40	no_sp	condition	data	photo#	elev	slope type	morph type	map unit
3								0.8469 0.9927 1.1384 1.2842 1.4300					
4								| | | | |					
5	001	Extension Hill	1	1	1	20	0	_____	1	390	VG	R	T1
6	002	Extension Hill	1	1	1	18	0	_____|_____	2	337	GE	U	T1
7	006	Extension Hill	1	1	2	20	0	_____|_____	6	387	ST	U	T12
8	004	Extension Hill	1	2	3	18	0	___ |	4	398	VG	R	T1
9	008	Extension Hill	1	2	3	19	0	__| |	8	391	MO	U	T1
10	010	Extension Hill	1	2	3	20	0	_||____ |	10	404	MO	U	T1
11	011	Extension Hill	1	2	3	20	0	_____|___ |	11	394	ST	U	T12
12	007	Extension Hill	1	2	3	15	0	_____|_____ |	7	400	GE	R	T1
13	009	Extension Hill	1	2	3	17	0	_____|_____ |	9	400	MO	U	T1
14	005	Extension Hill	1	2	3	17	0	_____|____ |	5	385	MO	U	T1
15	013	Extension Hill	1	2	4	17	0	_____ | |	13	415	MO	R	T1
16	028	Iron Hill North	1	2	4	20	0	_____|____ | |	28	417	MO	R	T1
17	014	Extension Hill	1	2	4	17	0	_____ | | |	14	402	ST	U	T1
18	029	Iron Hill North	1	2	4	16	0	_____|_____|_____ | |	29	417	ST	U	T1
19	026	Iron Hill North	1	2	4	14	0	_____ | | |	26	408	ST	U	T1
20	027	Iron Hill North	1	2	4	14	0	__ | | | |	27	417	MO	U	T3
21	030	Iron Hill North	1	2	4	18	0	_| | | | |	30	421	MO	U	T1
22	033	Iron Hill North	1	2	4	16	0	||_____ | | | |	33	418	ST	U	T1
23	034	Iron Hill North	1	2	4	21	0	_____|_____|_____|_____|___ |	34	420	LE	R	T1
24	012	Extension Hill	1	3	5	14	0	_____ | |	12	401	MO	U	T1
25	038	Iron Hill	1	3	5	16	0	_____ | | |	38	403	MO	R	T3
26	039	Iron Hill	1	3	5	17	0	_____|_____|_____|_____|__	39	398	VG	R	T3
27	025	Iron Hill North	1	4	6	11	0	_____ |	25	425	MO	R	T1
28	031	Iron Hill North	1	4	6	18	0	_____ | |	31	425	VG	R	T1
29	032	Iron Hill North	1	4	6	16	0	_____|_____|_____ |	32	422	ST	U	T1
30	051	Mt Gibson North	1	4	6	18	0	_____ | |	51	443	ST	R	T6
31	052	Mt Gibson North	1	4	6	27	0	_____ | | |	52	448	ST	R	T6
32	053	Mt Gibson North	1	4	6	23	0	_____|_____|_____|___ |	53	453	MO	R	T6
33	049	Iron Hill East	1	4	7	18	0	_____ | |	49	445	MO	R	T3
34	050	Mt Gibson North	1	4	7	24	0	_____|_____ | |	50	435	MO	R	T6
35	054	Mt Gibson North	1	4	7	24	0	_____|_____|_____|___	54	438	MO	R	T6
36	045	Iron Hill	1	5	8	23	0	_____|__	45	408	ST	U	T3
37	003	Extension Hill	1	6	9	14	0	_____ |	3	375	MO	U	T12
38	015	Extension Hill	1	7	10	17	0	_____	15	406	MO	U	T1
39	016	Extension Hill	2	8	11	15	2	|	16	413	GE	R	T1
40	017	Extension Hill	2	8	11	17	0	|	17	402	MO	U	T1
41	018	Extension Hill	2	8	11	20	0	|	18	396	MO	U	T1
42	035	Iron Hill North	2	8	11	23	0	|	35	421	GE	R	T1
43	036	Iron Hill North	2	8	11	25	0	|	36	424	GE	U	T1
44	037	Iron Hill North	2	8	11	17	0	|	37	413	GE	U	T1
45	019	Extension Hill	2	8	11	21	2	|	19	419	ST	R	T1
46	020	Extension Hill	2	8	11	22	2	|	20	404	MO	U	T1
47	023	Extension Hill	2	8	11	18	1	|	23	432	MO	U	T1
48	024	Extension Hill	2	9	12	16	2	|	24	441	GE	U	T1
49	021	Extension Hill	2	10	13	18	3	|	21	415	MO	U	T1
50	043	Iron Hill	2	10	13	25	2	|	43	396	MO	U	T5
51	041	Iron Hill	2	10	13	24	1	|	41	406	VG	R	T5
52	060	Mt Gibson South	2	10	13	18	2	|	60	392	GE	U	M4
53	040	Iron Hill	2	10	13	20	1	|	40	414	GE	R	T5
54	055	Mt Gibson North	2	10	13	27	1	|	55	454	MO	U	T6
55	056	Mt Gibson North	2	10	13	24	1	|	56	455	MO	U	T6
56	057	Mt Gibson North	2	10	13	32	1	|	57	451	VG	R	T6
57	022	Extension Hill	2	10	13	19	2	|	22	444	GE	R	T1
58	046	Iron Hill	2	11	14	27	2	|	46	390	MO	M	T3
59	047	Iron Hill East	2	12	15	11	1	|	47	382	GE	M	T3
60	048	Iron Hill East	2	12	16	18	1	|	48	391	MO	M	T3
61	062	Vermin Fence	2	13	17	9	1	_____|_____	62	353	VG	S	
62	042	Iron Hill	3	14	18	22	0	|	42	410	VG	R	T5
63	044	Iron Hill	3	14	19	26	0	|	44	416	ST	R	T3
64	058	Mt Gibson South	3	15	20	19	0	|	58	395	GE	R	HS1
65	059	Mt Gibson South	3	15	20	17	1	|	59	402	ST	R	HS1
66	088	Well (ruin) E	4	16	21	28	1	|	88	338	MO	R	
67	089	Well (ruin) E	4	17	22	18	1	_____ |	89	330	VG	F	
68	063	Taylor Well	5	18	23	25	1	| |	63	337	MO	R	
69	064	Taylor Well	5	18	23	25	0	| |	64	359	MO	R	
70	083	East GNH	5	18	24	29	0	| |	83	342	MO	U	

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ID	site	name	gp10	gp28	gp40	no_sp	condition	data	photo#	elev	slope type	morph type	map unit
3								0.8469 0.9927 1.1384 1.2842 1.4300					
71	084	East GNH	5	18	24	25	1	| |	84	336	ST	U	
72	085	East GNH	5	18	24	26	1	| |	85	371	MO	R	
73	065	East GNH	5	19	25	32	1	| |	65	315	MO	R	
74	093	East Extension Hill	5	19	26	24	1	| |	93	403	MO	R	
75	094	East Extension Hill	5	19	26	24	1	| |	94	408	MO	R	
76	095	East Extension Hill	5	19	26	24	1	| |	95	376	MO	U	
77	092	Extension Hill Vermin Fence	5	19	27	27	1	| |	92	339	GE	R	17
78	096	East Extension Hill	6	20	28	19	1	| |	96	351	ST	M	
79	100	Yandhanoo Hill	6	20	28	22	1	| |	100	356	GE	M	
80	097	East Extension Hill	6	20	28	19	2	| |	97	386	ST	U	
81	098	Yandhanoo Hill	6	20	28	15	1	| |	98	338	ST	M	
82	099	Yandhanoo Hill	6	20	29	19	1	_____|_____ |	99	376	MO	U	
83	061	Vermin Fence	7	21	30	16	2	| |	61	349	LE	S	
84	086	Well (ruin) E	7	21	31	17	2	| |	86	336	VG	S	
85	087	Well (ruin) E	7	21	31	19	1	_____|_ |	87	334	VG	S	
86	080	SW Mt Singleton	8	22	32	10	3	| |	80	484	LE	H	
87	081	SW Mt Singleton	8	23	33	15	3	| |	81	459	GE	H	
88	082	SW Mt Singleton	8	23	33	11	3	_____|__ |	82	460	VG	H	
89	066	Mt Singleton	9	24	34	14	1	| |	66	677	GE	R	
90	070	Mt Singleton	9	24	34	14	1	| |	70	656	MO	U	
91	067	Mt Singleton	9	24	34	13	2	| |	67	678	VG	R	
92	069	Mt Singleton	9	24	34	13	2	| |	69	688	LE	R	
93	068	Mt Singleton	9	24	34	14	1	_____ | |	68	665	GE	R	
94	071	Mt Singleton	10	25	35	25	1	| | |	71	627	MO	U	
95	072	Mt Singleton	10	25	36	13	1	| | |	72	629	MO	U	
96	073	Mt Singleton	10	25	36	21	1	| | |	73	569	MO	R	
97	074	Mt Singleton	10	26	37	15	1	| | |	74	560	GE	R	
98	075	Mt Singleton	10	26	37	20	1	| | |	75	531	ST	R	
99	076	Mt Singleton	10	26	37	14	1	| | |	76	502	GE	U	
100	077	Mt Singleton	10	27	38	21	0	| | |	77	435	MO	U	
101	078	Coonigal Well	10	27	39	24	1	| | |	78	377	ST	U	
102	079	Coonigal Well	10	27	39	22	1	| | |	79	390	MO	R	
103	090	Well (ruin) E	10	28	40	32	1	| | |	90	331	GE	F	
104	091	Well (ruin) E	10	28	40	29	1	_____|_____|_____|	91	335	VG	F	
105								| | | | |					
106								0.8469 0.9927 1.1384 1.2842 1.4300	Photo No.	Elevation (m)	Slope Class	Morph type	Map units

		All Species used

ID	site	name	gp1	gp4	o_s	dit	data	Photo No.	levation (m	Slope Class	Morph typ	Map units
3							0.0667 0.2193 0.3719 0.5245 0.6771 0.8296 0.9822 1.1348 1.2874 1.4400					
4							| | | | | | | | | |					
5	001	Extension Hill	1	1	17	0		1	390	VG	R	T1
6	002	Extension Hill	1	1	15	0		2	337	GE	U	T1
7	005	Extension Hill	1	2	13	0		5	385	MO	U	T1
8	015	Extension Hill	1	3	15	0		15	406	MO	U	T1
9	003	Extension Hill	1	4	14	0		3	375	MO	U	T12
10	006	Extension Hill	1	5	15	0		6	387	ST	U	T12
11	004	Extension Hill	1	6	14	0		4	398	VG	R	T1
12	007	Extension Hill	1	6	13	0		7	400	GE	R	T1
13	008	Extension Hill	1	6	16	0		8	391	MO	U	T1
14	010	Extension Hill	1	6	18	0		10	404	MO	U	T1
15	011	Extension Hill	1	6	18	0		11	394	ST	U	T12
16	009	Extension Hill	1	6	13	0		9	400	MO	U	T1
17	013	Extension Hill	1	7	13	0		13	415	MO	R	T1
18	026	Iron Hill North	1	7	12	0		26	408	ST	U	T1
19	014	Extension Hill	1	7	14	0		14	402	ST	U	T1
20	029	Iron Hill North	1	7	15	0		29	417	ST	U	T1
21	028	Iron Hill North	1	7	17	0		28	417	MO	R	T1
22	025	Iron Hill North	1	7	11	0		25	425	MO	R	T1
23	031	Iron Hill North	1	7	15	0		31	425	VG	R	T1
24	032	Iron Hill North	1	7	14	0		32	422	ST	U	T1
25	027	Iron Hill North	1	7	12	0		27	417	MO	U	T3
26	030	Iron Hill North	1	7	15	0		30	421	MO	U	T1
27	033	Iron Hill North	1	7	14	0		33	418	ST	U	T1
28	034	Iron Hill North	1	7	16	0		34	420	LE	R	T1
29	012	Extension Hill	1	8	12	0		12	401	MO	U	T1
30	038	Iron Hill	1	8	13	0		38	403	MO	R	T3
31	039	Iron Hill	1	8	14	0		39	398	VG	R	T3
32	049	Iron Hill East	1	9	15	0		49	445	MO	R	T3
33	050	Mt Gibson North	1	9	20	0		50	435	MO	R	T6
34	054	Mt Gibson North	1	9	17	0		54	438	MO	R	T6
35	051	Mt Gibson North	1	9	16	0		51	443	ST	R	T6
36	052	Mt Gibson North	1	9	19	0		52	448	ST	R	T6
37	053	Mt Gibson North	1	9	17	0		53	453	MO	R	T6
38	045	Iron Hill	1	10	18	0		45	408	ST	U	T3
39	016	Extension Hill	2	11	13	2		16	413	GE	R	T1
40	036	Iron Hill North	2	11	20	0		36	424	GE	U	T1
41	035	Iron Hill North	2	11	19	0		35	421	GE	R	T1
42	017	Extension Hill	2	11	14	0		17	402	MO	U	T1
43	037	Iron Hill North	2	11	13	0		37	413	GE	U	T1
44	019	Extension Hill	2	12	16	2		19	419	ST	R	T1
45	020	Extension Hill	2	12	16	2		20	404	MO	U	T1
46	023	Extension Hill	2	12	12	1		23	432	MO	U	T1
47	018	Extension Hill	2	13	16	0		18	396	MO	U	T1
48	047	Iron Hill East	2	13	11	1		47	382	GE	M	T3
49	024	Extension Hill	2	14	13	2		24	441	GE	U	T1
50	048	Iron Hill East	2	15	16	1		48	391	MO	M	T3
51	062	Vermin Fence	2	16	6	1		62	353	VG	S	
52	021	Extension Hill	2	17	14	3		21	415	MO	U	T1
53	043	Iron Hill	2	17	18	2		43	396	MO	U	T5
54	041	Iron Hill	2	17	19	1		41	406	VG	R	T5
55	022	Extension Hill	2	17	14	2		22	444	GE	R	T1
56	040	Iron Hill	2	17	16	1		40	414	GE	R	T5
57	055	Mt Gibson North	2	17	20	1		55	454	MO	U	T6
58	056	Mt Gibson North	2	17	19	1		56	455	MO	U	T6
59	060	Mt Gibson South	2	17	12	2		60	392	GE	U	M4
60	057	Mt Gibson North	2	17	28	1		57	451	VG	R	T6
61	046	Iron Hill	2	18	21	2		46	390	MO	M	T3
62	042	Iron Hill	3	19	19	0		42	410	VG	R	T5
63	044	Iron Hill	3	19	18	0		44	416	ST	R	T3
64	063	Taylor Well	3	20	11	1		63	337	MO	R	
65	064	Taylor Well	3	20	11	0		64	359	MO	R	
66	058	Mt Gibson South	3	21	10	0		58	395	GE	R	HS1
67	059	Mt Gibson South	3	21	12	1		59	402	ST	R	HS1
68	088	Well (ruin) E	4	22	18	1		88	338	MO	R	
69	090	Well (ruin) E	4	23	19	1		90	331	GE	F	
70	091	Well (ruin) E	4	23	18	1		91	335	VG	F	
71	089	Well (ruin) E	4	24	13	1		89	330	VG	F	
72	077	Mt Singleton	5	25	7	0		77	435	MO	U	
73	081	SW Mt Singleton	5	26	7	3		81	459	GE	H	
74	082	SW Mt Singleton	5	26	5	3		82	460	VG	H	

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ID	site	name	gp1	gp4	6o_s	udit	data	Photo No.	levation (m	Slope Class	Morph typ	Map units
3							0.0667 0.2193 0.3719 0.5245 0.6771 0.8296 0.9822 1.1348 1.2874 1.4400					
75	080	SW Mt Singleton	6	27	6	3		80	484	LE	H	
76	065	East GNH	7	28	18	1		65	315	MO	R	
77	095	East Extension Hill	7	28	15	1		95	376	MO	U	
78	093	East Extension Hill	7	28	12	1		93	403	MO	R	
79	094	East Extension Hill	7	28	12	1		94	408	MO	R	
80	079	Coonigal Well	7	29	6	1		79	390	MO	R	
81	092	Extension Hill Vermin Fence	7	30	17	1		92	339	GE	R	17
82	083	East GNH	8	31	18	0		83	342	MO	U	
83	084	East GNH	8	31	12	1		84	336	ST	U	
84	085	East GNH	8	31	13	1		85	371	MO	R	
85	096	East Extension Hill	8	32	11	1		96	351	ST	M	
86	100	Yandhanoo Hill	8	32	13	1		100	356	GE	M	
87	099	Yandhanoo Hill	8	33	13	1		99	376	MO	U	
88	097	East Extension Hill	8	34	11	2		97	386	ST	U	
89	098	Yandhanoo Hill	8	34	9	1		98	338	ST	M	
90	061	Vermin Fence	9	35	10	2		61	349	LE	S	
91	086	Well (ruin) E	9	36	10	2		86	336	VG	S	
92	087	Well (ruin) E	9	36	12	1		87	334	VG	S	
93	066	Mt Singleton	10	37	12	1		66	677	GE	R	
94	070	Mt Singleton	10	37	12	1		70	656	MO	U	
95	068	Mt Singleton	10	37	9	1		68	665	GE	R	
96	067	Mt Singleton	10	37	10	2		67	678	VG	R	
97	069	Mt Singleton	10	37	11	2		69	688	LE	R	
98	071	Mt Singleton	10	38	14	1		71	627	MO	U	
99	072	Mt Singleton	10	38	8	1		72	629	MO	U	
100	073	Mt Singleton	10	39	13	1		73	569	MO	R	
101	075	Mt Singleton	10	39	10	1		75	531	ST	R	
102	078	Coonigal Well	10	39	12	1		78	377	ST	U	
103	074	Mt Singleton	10	40	9	1		74	560	GE	R	
104	076	Mt Singleton	10	40	9	1		76	502	GE	U	
105												
106							0.0667 0.2193 0.3719 0.5245 0.6771 0.8296 0.9822 1.1348 1.2874 1.4400					

		Only Perennials and Geophytes used

Similar sites --> "Important" species -->

site	name	gp1	gp2	gp4	o_s	dit	elev	lo	ph_t	Un	data	si1	_si	v1	si2	g_s2	v2	s1	c1
											12/12/05 19:14:18.46 dend Ata Mt Gibson All Sites All Species Dec 12 2005								
											0.1180 0.2604 0.4029 0.5453 0.6878 0.8302 0.9727 1.1151 1.2576 1.4000								
001	Extension Hill	1	1	1	19	0	390	VG	R	T1		011	3	0.3333	002	1	0.3514	Allocasuarina acutivalvis subsp. prinsepiana	15
002	Extension Hill	1	1	1	18	0	337	GE	U	T1		030	4	0.3333	004	3	0.3333	Aluta aspera	35
006	Extension Hill	1	1	2	20	0	387	ST	U	2		009	3	0.4054	001	1	0.4359	Mirbelia microphylla	10
004	Extension Hill	1	2	3	18	0	398	VG	R	T1		008	3	0.1351	007	3	0.1515	Allocasuarina acutivalvis subsp. prinsepiana	30
008	Extension Hill	1	2	3	19	0	391	MO	U	T1		010	3	0.1282	004	3	0.1351	Aluta aspera	30
010	Extension Hill	1	2	3	20	0	404	MO	U	T1		008	3	0.1282	004	3	0.1579	Allocasuarina acutivalvis subsp. prinsepiana	15
011	Extension Hill	1	2	3	20	0	394	ST	U	2		004	3	0.1579	008	3	0.1795	Allocasuarina acutivalvis subsp. prinsepiana	30
007	Extension Hill	1	2	3	15	0	400	GE	R	T1		004	3	0.1515	010	3	0.2	Aluta aspera	40
009	Extension Hill	1	2	3	17	0	400	MO	U	T1		004	3	0.2	007	3	0.25	Aluta aspera	25
005	Extension Hill	1	2	3	17	0	385	MO	U	T1		030	4	0.3143	004	3	0.3143	Aluta aspera	35
013	Extension Hill	1	2	4	17	0	415	MO	R	T1		004	3	0.2	028	4	0.2432	Allocasuarina acutivalvis subsp. prinsepiana	25
028	Iron Hill North	1	2	4	20	0	417	MO	R	T1		010	3	0.2	034	4	0.2195	Aluta aspera	15
014	Extension Hill	1	2	4	17	0	402	ST	U	T1		029	4	0.2121	030	4	0.2571	Melaleuca fulgens subsp. fulgens	25
029	Iron Hill North	1	2	4	16	0	417	ST	U	T1		014	4	0.2121	028	4	0.2222	Acacia assimilis subsp. assimilis	20
021	Extension Hill	1	2	4	18	3	415	MO	U	T1		004	3	0.1667	026	4	0.25	Allocasuarina acutivalvis subsp. prinsepiana	30
026	Iron Hill North	1	2	4	14	0	408	ST	U	T1		027	4	0.1429	030	4	0.25	Allocasuarina acutivalvis subsp. prinsepiana	30
027	Iron Hill North	1	2	4	14	0	417	MO	U	T3		030	4	0.125	033	4	0.1333	Melaleuca conothamnoides x nematophylla	30
030	Iron Hill North	1	2	4	18	0	421	MO	U	T1		033	4	0.1176	027	4	0.125	Acacia assimilis subsp. assimilis	10
033	Iron Hill North	1	2	4	16	0	418	ST	U	T1		030	4	0.1176	027	4	0.1333	Melaleuca conothamnoides x nematophylla	30
034	Iron Hill North	1	2	4	21	0	420	LE	R	T1		033	4	0.1351	030	4	0.1795	Allocasuarina acutivalvis subsp. prinsepiana	50
012	Extension Hill	1	3	5	14	0	401	MO	U	T1		038	5	0.3333	010	3	0.3529	Philotheca sericea	25
038	Iron Hill	1	3	5	16	0	403	MO	R	T3		031	6	0.2353	039	5	0.2727	Acacia assimilis subsp. assimilis	20
039	Iron Hill	1	3	5	17	0	398	VG	R	T3		038	5	0.2727	031	6	0.3143	Melaleuca conothamnoides x nematophylla	25
025	Iron Hill North	1	4	6	11	0	425	MO	R	T1		031	6	0.2414	033	4	0.2593	Allocasuarina acutivalvis subsp. prinsepiana	20
031	Iron Hill North	1	4	6	18	0	425	VG	R	T1		032	6	0.1765	034	4	0.2308	Allocasuarina acutivalvis subsp. prinsepiana	15
032	Iron Hill North	1	4	6	16	0	422	ST	U	T1		031	6	0.1765	033	4	0.3125	Allocasuarina acutivalvis subsp. prinsepiana	35
051	Mt Gibson North	1	4	6	18	0	443	ST	R	T6		031	6	0.2778	052	6	0.2889	Allocasuarina acutivalvis subsp. prinsepiana	60
052	Mt Gibson North	1	4	6	27	0	448	ST	R	T6		053	6	0.24	051	6	0.2889	Allocasuarina acutivalvis subsp. prinsepiana	60
053	Mt Gibson North	1	4	6	23	0	453	MO	R	T6		052	6	0.24	051	6	0.3171	Allocasuarina acutivalvis subsp. prinsepiana	30
049	Iron Hill East	1	4	7	18	0	445	MO	R	T3		050	7	0.1905	028	4	0.3158	Allocasuarina acutivalvis subsp. prinsepiana	35
050	Mt Gibson North	1	4	7	24	0	435	MO	R	T6		049	7	0.1905	054	7	0.2917	Allocasuarina acutivalvis subsp. prinsepiana	35
054	Mt Gibson North	1	4	7	24	0	438	MO	R	T6		050	7	0.2917	049	7	0.3333	Allocasuarina acutivalvis subsp. prinsepiana	15
003	Extension Hill	1	5	8	14	0	375	MO	U	2		026	4	0.3571	029	4	0.4	Allocasuarina acutivalvis subsp. prinsepiana	10
015	Extension Hill	1	6	9	17	0	406	MO	U	T1		007	3	0.375	008	3	0.3889	Allocasuarina acutivalvis subsp. prinsepiana	10
024	Extension Hill	1	7	10	16	2	441	GE	U	T1		021	4	0.3529	016	11	0.3548	Allocasuarina acutivalvis subsp. prinsepiana	30
016	Extension Hill	2	8	11	15	2	413	GE	R	T1		036	11	0.3	017	11	0.3125	Allocasuarina acutivalvis subsp. prinsepiana	30
017	Extension Hill	2	8	11	17	0	402	MO	U	T1		016	11	0.3125	033	4	0.3333	Acacia assimilis subsp. assimilis	20
035	Iron Hill North	2	8	11	23	0	421	GE	R	T1		036	11	0.2917	028	4	0.3023	Allocasuarina acutivalvis subsp. prinsepiana	50
036	Iron Hill North	2	8	11	25	0	424	GE	U	T1		037	11	0.2857	035	11	0.2917	Allocasuarina acutivalvis subsp. prinsepiana	20
037	Iron Hill North	2	8	11	17	0	413	GE	U	T1		036	11	0.2857	030	4	0.3143	Allocasuarina acutivalvis subsp. prinsepiana	30
019	Extension Hill	2	8	12	21	2	419	ST	R	T1		020	12	0.2558	021	4	0.2821	Allocasuarina acutivalvis subsp. prinsepiana	40
020	Extension Hill	2	8	12	22	2	404	MO	U	T1		019	12	0.2558	021	4	0.3	Allocasuarina acutivalvis subsp. prinsepiana	30
023	Extension Hill	2	8	12	18	1	432	MO	U	T1		021	4	0.3333	020	12	0.35	Aluta aspera subsp. hesperia	30
018	Extension Hill	2	8	13	20	0	396	MO	U	T1		017	11	0.3514	047	13	0.3548	Allocasuarina acutivalvis subsp. prinsepiana	30
047	Iron Hill East	2	8	13	11	1	382	GE	M	T3		018	13	0.3548	016	11	0.3846	Aluta aspera	50
048	Iron Hill East	2	9	14	18	1	391	MO	M	T3		021	4	0.3889	004	3	0.3889	Aluta aspera	50
062	Vermin Fence	2	10	15	9	1	353	VG	S			021	4	0.4815	048	14	0.5556	Aluta aspera	60
022	Extension Hill	2	11	16	19	2	444	GE	R	T1		040	16	0.3333	021	4	0.3514	Grevillea obliquistigma subsp. obliquistigma	10
040	Iron Hill	2	11	16	20	1	414	GE	R	T5		056	16	0.2727	043	16	0.2889	Allocasuarina acutivalvis subsp. prinsepiana	10
043	Iron Hill	2	11	16	25	2	396	MO	U	T5		021	4	0.2558	040	16	0.2889	Allocasuarina acutivalvis subsp. prinsepiana	10
041	Iron Hill	2	11	16	24	1	406	VG	R	T5		043	16	0.3061	040	16	0.3182	Allocasuarina acutivalvis subsp. prinsepiana	10
055	Mt Gibson North	2	11	16	27	1	454	MO	U	T6		056	16	0.2549	040	16	0.3191	Allocasuarina acutivalvis subsp. prinsepiana	10
056	Mt Gibson North	2	11	16	24	1	455	MO	U	T6		055	16	0.2549	040	16	0.2727	Calycopeplus paucifolius	10
060	Mt Gibson South	2	11	16	18	2	392	GE	U	M4		041	16	0.3333	043	16	0.3488	Allocasuarina acutivalvis subsp. prinsepiana	30
057	Mt Gibson North	2	11	16	32	1	451	VG	R	T6		040	16	0.3462	055	16	0.3559	Acacia aneura var. aneura	5
046	Iron Hill	2	12	17	27	2	390	MO	M	T3		055	16	0.4074	041	16	0.451	Allocasuarina acutivalvis subsp. prinsepiana	10
045	Iron Hill	2	13	18	23	0	408	ST	U	T3		034	4	0.4091	014	4	0.45	Acacia aneura var. aneura	20
042	Iron Hill	3	14	19	22	0	410	VG	R	T5		057	16	0.4444	044	19	0.4583	Allocasuarina acutivalvis subsp. prinsepiana	10
044	Iron Hill	3	14	19	26	0	416	ST	R	T3		064	23	0.451	042	19	0.4583	Eremophila clarkei	10
058	Mt Gibson South	3	15	20	19	0	395	GE	R	1		059	20	0.3333	063	23	0.4091	Ptilotus obovatus	30
059	Mt Gibson South	3	15	20	17	1	402	ST	R	1		058	20	0.3333	044	19	0.5349	Ptilotus obovatus	25
088	Well (ruin) E	4	16	21	28	1	338	MO	R			091	40	0.5439	089	22	0.5652	Acacia tetragonophylla	15
089	Well (ruin) E	4	17	22	18	1	330	VG	F			088	21	0.5652	073	36	0.5897	Acacia aneura var. aneura	20
063	Taylor Well	5	18	23	25	1	337	MO	R			064	23	0.24	085	24	0.3725	Ptilotus obovatus	25
064	Taylor Well	5	18	23	25	0	359	MO	R			063	23	0.24	094	26	0.4286	Ptilotus obovatus	25
083	East GNH	5	18	24	29	0	342	MO	U			085	24	0.2727	084	24	0.2963	Acacia aneura var. aneura	15
084	East GNH	5	18	24	25	1	336	ST	U			085	24	0.2157	083	24	0.2963	Calycopeplus paucifolius	15
085	East GNH	5	18	24	26	1	371	MO	R			084	24	0.2157	083	24	0.2727	Acacia quadrimarginea	20
065	East GNH	5	19	25	32	1	315	MO	R			095	26	0.3929	063	23	0.4737	Calycopeplus paucifolius	35
093	East Extension Hill	5	19	26	24	1	403	MO	R			095	26	0.2917	094	26	0.2917	Acacia quadrimarginea	15
094	East Extension Hill	5	19	26	24	1	408	MO	R			093	26	0.2917	095	26	0.375	Melaleuca uncinata	15
095	East Extension Hill	5	19	26	24	1	376	MO	U			093	26	0.2917	094	26	0.375	Acacia quadrimarginea	15
092	Vermin Fence	5	19	27	27	1	339	GE	R	17		095	26	0.4118	094	26	0.451	Melaleuca fulgens subsp. fulgens	30
096	East Extension Hill	6	20	28	19	1	351	ST	M			100	28	0.2683	097	28	0.3684	Aluta aspera	20
100	Yandhanoo Hill	6	20	28	22	1	356	GE	M			096	28	0.2683	099	29	0.3659	Acacia coolgardiensis subsp. effusa	40
097	East Extension Hill	6	20	28	19	2	386	ST	U			098	28	0.2941	096	28	0.3684	Acacia quadrimarginea	15
098	Yandhanoo Hill	6	20	28	15	1	338	ST	M			097	28	0.2941	100	28	0.4054	Acacia coolgardiensis subsp. effusa	20
099	Yandhanoo Hill	6	20	29	19	1	376	MO	U			100	28	0.3659	097	28	0.4211	Acacia quadrimarginea	30
061	Vermin Fence	7	21	30	16	2	349	LE	S			087	31	0.4857	086	31	0.5152	Mirbelia depressa	20
086	Well (ruin) E	7	21	31	17	2	336	VG	S			087	31	0.2778	061	30	0.5152	Aluta aspera	15
087	Well (ruin) E	7	21	31	19	1	334	VG	S			086	31	0.2778	061	30	0.4857	Acacia aneura var. aneura	50
080	SW Mt Singleton	8	22	32	10	3	484	LE	H			081	33	0.6	096	28	0.6552	Helipterum craspedioides	5
081	SW Mt Singleton	8	23	33	15	3	459	GE	H			082	33	0.3077	096	28	0.5294	Acacia acuminata	25
082	SW Mt Singleton	8	23	33	11	3	460	VG	H			081	33	0.3077	100	28	0.6364	Acacia acuminata	20
066	Mt Singleton	9	24	34	14	1	677	GE	R			070	34	0.2143	067	34	0.2593	Allocasuarina acutivalvis subsp. prinsepiana	60
070	Mt Singleton	9	24	34	14	1	656	MO	U			066	34	0.2143	067	34	0.2593	Allocasuarina acutivalvis subsp. prinsepiana	40
067	Mt Singleton	9	24	34	13	2	678	VG	R			069	34	0.2308	066	34	0.2593	Allocasuarina acutivalvis subsp. prinsepiana	60
069	Mt Singleton	9	24	34	13	2	688	LE	R			067	34	0.2308	066	34	0.3333	Allocasuarina acutivalvis subsp. prinsepiana	50
068	Mt Singleton	9	24	34	14	1	665	GE	R			066	34	0.2857	069	34	0.4074	Allocasuarina acutivalvis subsp. prinsepiana	60
071	Mt Singleton	10	25	35	25	1	627	MO	U			075	37	0.4222	074	37	0.45	Micromyrtus racemosa var. prochytes	30
072	Mt Singleton	10	25	36	13	1	629	MO	U			073	36	0.4118	071	35	0.5263	Allocasuarina acutivalvis subsp. prinsepiana	70
073	Mt Singleton	10	25	36	21	1	569	MO	R			072	36	0.4118	078	39	0.4222	Allocasuarina acutivalvis subsp. prinsepiana	35
074	Mt Singleton	10	26	37	15	1	560	GE	R			075	37	0.3714	076	37	0.3793	Micromyrtus racemosa var. prochytes	6
075	Mt Singleton	10	26	37	20	1	531	ST	R			074	37	0.3714	078	39	0.4091	Allocasuarina acutivalvis subsp. prinsepiana	30
076	Mt Singleton	10	26	37	14	1	502	GE	U			074	37	0.3793	075	37	0.4706	Allocasuarina acutivalvis subsp. prinsepiana	20
077	Mt Singleton	10	27	38	21	0	435	MO	U			075	37	0.4634	079	39	0.4884	Allocasuarina acutivalvis subsp. prinsepiana	15

Similar sites --> "Important" species -->

site	name	gp1	gp2	gp4	o_s	dit	elev	lo	ph_t	Un	data	si1	_si	v1	si2	g_s2	v2	s1	c1
											12/12/05 19:14:18.46 dend Ata Mt Gibson All Sites All Species Dec 12 2005								
											0.1180 0.2604 0.4029 0.5453 0.6878 0.8302 0.9727 1.1151 1.2576 1.4000								
078	Coonigal Well	10	27	39	24	1	377	ST	U			075	37	0.4091	073	36	0.4222	Acacia acuminata	30
079	Coonigal Well	10	27	39	22	1	390	MO	R			078	39	0.4348	094	26	0.4348	Acacia acuminata	30
090	Well (ruin) E	10	28	40	32	1	331	GE	F			091	40	0.377	078	39	0.5	Acacia acuminata	20
091	Well (ruin) E	10	28	40	29	1	335	VG	F			090	40	0.377	079	39	0.5294	Grevillea paradoxa	10
											0.1180 0.2604 0.4029 0.5453 0.6878 0.8302 0.9727 1.1151 1.2576 1.4000								

s2	c2	s3	c3	s4	c4	s5	c5	s6	c6	s7	c7	s8	c8	s9	c9	s10	c10
Philotheca sericea	15	Acacia aneura var. aneura	10	Melaleuca conothamnoides x nematophylla	8	Aluta aspera	1										
Allocasuarina acutivalvis subsp. prinsepiana	30	Eucalyptus oldfieldii	8	Acacia aneura var. aneura	5	Grevillea paradoxa	5										
Philotheca sericea	10	Allocasuarina acutivalvis subsp. prinsepiana	8	Acacia aneura var. aneura	7												
Melaleuca conothamnoides x nematophylla	15	Philotheca sericea	15	Calycopeplus paucifolius	5	Grevillea paradoxa	5	Aluta aspera	2								
Allocasuarina acutivalvis subsp. prinsepiana	15	Grevillea obliquistigma subsp. obliquistigma	15	Acacia assimilis subsp. assimilis	10	Philotheca sericea	8	Melaleuca fabri	2								
Grevillea obliquistigma subsp. obliquistigma	15	Melaleuca conothamnoides x nematophylla	15	Micromyrtus racemosa var. prochytes	15	Aluta aspera	10	Acacia assimilis subsp. assimilis	8	paradoxa	5						
Acacia assimilis subsp. assimilis	15	Grevillea obliquistigma subsp. obliquistigma	15	Philotheca sericea	10	Calycopeplus paucifolius	5	Enekbatus stowardii	5								
Melaleuca conothamnoides x nematophylla	15	Allocasuarina acutivalvis subsp. prinsepiana	10	Grevillea obliquistigma subsp. obliquistigma	7	Philotheca sericea	2										
Philotheca sericea	10	Calycopeplus paucifolius	8	Grevillea obliquistigma subsp. obliquistigma	8	Melaleuca conothamnoides x nematophylla	6										
Allocasuarina acutivalvis subsp. prinsepiana	8	Acacia stereophylla var. stereophylla	6	Acacia aneura var. aneura	5	Philotheca sericea	3										
Aluta aspera	15	Melaleuca conothamnoides x nematophylla	10	Philotheca sericea	10	Melaleuca fulgens subsp. fulgens	5										
Melaleuca conothamnoides x nematophylla	15	Acacia assimilis subsp. assimilis	10	Allocasuarina acutivalvis subsp. prinsepiana	10	Grevillea obliquistigma subsp. obliquistigma	4	Melaleuca fulgens subsp. fulgens	3								
Allocasuarina acutivalvis subsp. prinsepiana	15	Melaleuca conothamnoides x nematophylla	15	Philotheca sericea	15	Grevillea obliquistigma subsp. obliquistigma	2	Hibbertia hypericoides	2								
Allocasuarina acutivalvis subsp. prinsepiana	20	Xanthosia bungei	15	Grevillea obliquistigma subsp. obliquistigma	8	Aluta aspera	5	Melaleuca conothamnoides x nematophylla	5	us	4						
Aluta aspera	10	Grevillea obliquistigma subsp. obliquistigma	10	Melaleuca conothamnoides x nematophylla	10	Calycopeplus paucifolius	5	Acacia assimilis subsp. assimilis	2								
Melaleuca conothamnoides x nematophylla	30	Aluta aspera	8	Grevillea obliquistigma subsp. obliquistigma	5	Acacia assimilis subsp. assimilis	4	Hibbertia hypericoides	4								
Allocasuarina acutivalvis subsp. prinsepiana	25	Aluta aspera	7	Acacia stereophylla var. stereophylla	3	Grevillea obliquistigma subsp. obliquistigma	2	Hibbertia hypericoides	2								
Allocasuarina acutivalvis subsp. prinsepiana	10	Melaleuca conothamnoides x nematophylla	10	Aluta aspera	5	Calycopeplus paucifolius	5	Grevillea obliquistigma subsp. obliquistigma	5	bungei	4						
Allocasuarina acutivalvis subsp. prinsepiana	25	Hibbertia hypericoides	15	Xanthosia bungei	5	Aluta aspera	3										
Grevillea obliquistigma subsp. obliquistigma	15	Xanthosia bungei	15	Melaleuca fulgens subsp. fulgens	10	Aluta aspera	2	Melaleuca conothamnoides x nematophylla	2								
Acacia assimilis subsp. assimilis	15	Allocasuarina acutivalvis subsp. prinsepiana	15	Grevillea obliquistigma subsp. obliquistigma	10	Melaleuca conothamnoides x nematophylla	3	Eucalyptus oldfieldii	2								
Allocasuarina acutivalvis subsp. prinsepiana	20	Calycopeplus paucifolius	15	Melaleuca conothamnoides x nematophylla	10	Aluta aspera	3	Grevillea obliquistigma subsp. obliquistigma	3								
Acacia assimilis subsp. assimilis	15	Allocasuarina acutivalvis subsp. prinsepiana	15	Aluta aspera	15	Calycopeplus paucifolius	10	Grevillea obliquistigma subsp. obliquistigma	3								
Melaleuca conothamnoides x nematophylla	10	Aluta aspera	8	Hibbertia hypericoides	5	Calycopeplus paucifolius	3	Acacia assimilis subsp. assimilis	2								
Melaleuca conothamnoides x nematophylla	10	Grevillea obliquistigma subsp. obliquistigma	8	Hibbertia hypericoides	8	Xanthosia bungei	6	Aluta aspera	4								
Xanthosia bungei	15	Melaleuca conothamnoides x nematophylla	8	Hibbertia hypericoides	5	Grevillea paradoxa	4	Grevillea obliquistigma subsp. obliquistigma	3								
Xanthosia bungei	8	Melaleuca conothamnoides x nematophylla	5	Acacia assimilis subsp. assimilis	3	Calycopeplus paucifolius	2										
Xanthosia bungei	15	Melaleuca conothamnoides x nematophylla	10	Acacia cerastes	2	Gastrolobium laytonii	2										
Melaleuca conothamnoides x nematophylla	10	Melaleuca fulgens subsp. fulgens	10	Calycopeplus paucifolius	5	Grevillea paradoxa	5										
Melaleuca conothamnoides x nematophylla	15	Calycopeplus paucifolius	5	Grevillea paradoxa	5	Hibbertia acerosa	5	Grevillea obliquistigma subsp. obliquistigma	3								
Melaleuca conothamnoides x nematophylla	20	Xanthosia bungei	10	Grevillea paradoxa	6	Grevillea obliquistigma subsp. obliquistigma	5										
Melaleuca conothamnoides x nematophylla	10	Xanthosia bungei	8	Calycopeplus paucifolius	7	Grevillea obliquistigma subsp. obliquistigma	2										
Philotheca sericea	5	Acacia assimilis subsp. assimilis	2														
Eucalyptus loxophleba subsp. supralaevis	10	Melaleuca leiocarpa	6	Acacia assimilis subsp. assimilis	5	Philotheca sericea	5										
Hibbertia hypericoides	10	Melaleuca conothamnoides x nematophylla	10	Acacia assimilis subsp. assimilis	5	Aluta aspera subsp. hesperia	5	Grevillea paradoxa	2								
Acacia assimilis subsp. assimilis	10	Hibbertia hypericoides	10	Melaleuca conothamnoides x nematophylla	10	Grevillea paradoxa	5										
Allocasuarina acutivalvis subsp. prinsepiana	20	Hibbertia hypericoides	20	Grevillea obliquistigma subsp. obliquistigma	5	Melaleuca conothamnoides x nematophylla	5	Aluta aspera	2								
Melaleuca fulgens subsp. fulgens	10	Grevillea obliquistigma subsp. obliquistigma	5	Grevillea paradoxa	5	Melaleuca conothamnoides x nematophylla	5	Xanthosia bungei	5								
Grevillea obliquistigma subsp. obliquistigma	15	Xanthosia bungei	10	Acacia stereophylla var. stereophylla	5	Hibbertia hypericoides	2										
Hibbertia hypericoides	10	Xanthosia bungei	10	Aluta aspera	5	Melaleuca conothamnoides x nematophylla	5	Acacia stereophylla var. stereophylla	2								
Melaleuca conothamnoides x nematophylla	10	Grevillea paradoxa	5	Philotheca sericea	5												
Aluta aspera	10	Eucalyptus leptopoda subsp. leptopoda	10	Grevillea obliquistigma subsp. obliquistigma	10	Acacia assimilis subsp. assimilis	5	Eremophila clarkei	2	acanthocla	1						
Allocasuarina acutivalvis subsp. prinsepiana	20	Acacia assimilis subsp. assimilis	10	Aluta aspera	5	Grevillea obliquistigma subsp. obliquistigma	5										
Grevillea obliquistigma subsp. obliquistigma	10	Grevillea paradoxa	2	Melaleuca conothamnoides x nematophylla	2												
Acacia aneura var. aneura	10	Allocasuarina acutivalvis subsp. prinsepiana	10	Melaleuca fabri	5	Grevillea obliquistigma subsp. obliquistigma	2										
Acacia aneura var. aneura	5	Grevillea obliquistigma subsp. obliquistigma	5	Allocasuarina acutivalvis subsp. prinsepiana	2												
Brachyscome pusilla	2	Grevillea obliquistigma subsp. obliquistigma	1	Velleia cycnopotamica	1												
Melaleuca conothamnoides x nematophylla	10	Acacia assimilis subsp. assimilis	5	Aluta aspera	5	Darwinia masonii	2	Grevillea paradoxa	2	hypericoid	2						
Aluta aspera	10	Darwinia masonii	10	Melaleuca conothamnoides x nematophylla	10	Velleia cycnopotamica	10	Calycopeplus paucifolius	5								
Aluta aspera	10	Acacia aneura var. aneura	5	Melaleuca conothamnoides x nematophylla	5	Philotheca sericea	5	Callitris glaucophylla	2								
Aluta aspera	10	Calycopeplus paucifolius	10	Melaleuca conothamnoides x nematophylla	10	Darwinia masonii	5	Velleia cycnopotamica	5								
Calycopeplus paucifolius	5	Darwinia masonii	5	Grevillea obliquistigma subsp. obliquistigma	2	Melaleuca conothamnoides x nematophylla	2	Philotheca sericea	2								
Grevillea obliquistigma subsp. obliquistigma	10	Melaleuca conothamnoides x nematophylla	10	Darwinia masonii	5	Philotheca sericea	5	Eremophila clarkei	2								
Melaleuca conothamnoides x nematophylla	20	Calycopeplus paucifolius	5	Darwinia masonii	5	Podolepis lessonii	5										
Acacia tetragonophylla	5	Allocasuarina acutivalvis subsp. prinsepiana	5	Calycopeplus paucifolius	5	Glischrocaryon aureum	5	Melaleuca conothamnoides x nematophylla	5	fulgens	5						
Cratystylis subspinescens	10	Darwinia masonii	10	Calycopeplus paucifolius	5	Eremophila latrobei subsp. latrobei	5	Acacia exocarpoides	2								
Grevillea obliquistigma subsp. obliquistigma	6	Sida excedentifolia	5	Waitzia nitida	5	Allocasuarina acutivalvis subsp. prinsepiana	3										
Melaleuca conothamnoides x nematophylla	8	Aluta aspera	7	Acacia tetragonophylla	6	Philotheca brucei subsp. brucei	3	Darwinia masonii	2								
Philotheca brucei subsp. brucei	10	Calycopeplus paucifolius	8	Hakea preissii	5	Ptilotus obovatus	5	Grevillea obliquistigma subsp. obliquistigma	4	hypericoid	3						
Calycopeplus paucifolius	15	Dodonaea inaequifolia	5	Allocasuarina acutivalvis subsp. prinsepiana	2												
Calycopeplus paucifolius	20	Dodonaea inaequifolia	5	Acacia exocarpoides	1												
Dodonaea inaequifolia	15	Acacia andrewsii	5	Acacia aneura var. aneura	5	Ptilotus obovatus	3										
Eucalyptus loxophleba subsp. supralaevis	4	Calycopeplus paucifolius	2	Acacia tetragonophylla	1												
Hakea preissii	15	Allocasuarina acutivalvis subsp. prinsepiana	12	Calycopeplus paucifolius	10	Podolepis lessonii	2										
Allocasuarina acutivalvis subsp. prinsepiana	15	Calycopeplus paucifolius	15	Hakea preissii	10	Acacia ramulosa var. ramulosa	5										
Acacia quadrimarginea	8	Aluta aspera	5	Calycopeplus paucifolius	5	Grevillea obliquistigma subsp. obliquistigma	5	Waitzia nitida	4	epithymum	2						
Acacia aneura var. aneura	10	Podolepis lessonii	4	Acacia quadrimarginea	2												
Acacia aneura var. aneura	15	Calycopeplus paucifolius	5	Scaevola spinescens	2												
Acacia assimilis subsp. assimilis	4	Acacia quadrimarginea	4	Acacia ramulosa var. ramulosa	4	Cuscuta epithymum	3										
Calycopeplus paucifolius	15	Acacia ramulosa var. ramulosa	8	Podolepis lessonii	4												
Acacia quadrimarginea	10	Scaevola spinescens	7	Acacia ramulosa var. ramulosa	5	Eremophila georgei	2										
Mirbelia microphylla	10	Acacia ramulosa var. ramulosa	6	Calycopeplus paucifolius	4	Acacia assimilis subsp. assimilis	2										
Xanthosia bungei	7	Melaleuca uncinata	6	Allocasuarina acutivalvis subsp. prinsepiana	5	Mirbelia microphylla	5	Grevillea scabrida	4								
Acacia quadrimarginea	15	Calycopeplus paucifolius	5														
Aluta aspera	5	Acacia quadrimarginea	1	Cryptandra connata	1												
Aluta aspera	5	Acacia coolgardiensis subsp. effusa	2	Calycopeplus paucifolius	2	Waitzia acuminata var. acuminata	2										
Acacia quadrimarginea	10	Aluta aspera	5	Eremophila latrobei subsp. latrobei	5	Calycopeplus paucifolius	2										
Aluta aspera	5	Eremophila clarkei	5	Cryptandra connata	2												
Acacia aneura var. aneura	10	Grevillea sarissa subsp. sarissa	5	Lobelia winfridae	5	Schoenia filifolia subsp. filifolia	5										
Acacia aneura var. aneura	10	Waitzia acuminata var. acuminata	10	Mirbelia depressa	5												
Aluta aspera	5	Podolepis lessonii	5	Waitzia acuminata var. acuminata	5	Mirbelia depressa	2										
Acacia quadrimarginea	3	Dodonaea inaequifolia	2														
Allocasuarina campestris	5																
Allocasuarina campestris	5																
Borya sphaerocephala	5	Xanthosia bungei	1														
Borya sphaerocephala	10	Cryptandra connata	5	Micromyrtus racemosa var. prochytes	5	Diuris porrifolia	1	Xanthosia bungei	1								
Borya sphaerocephala	10	Cryptandra connata	2	Xanthosia bungei	1												
Borya sphaerocephala	10	Micromyrtus racemosa var. prochytes	10	Cryptandra connata	2												
Micromyrtus racemosa var. prochytes	5	Cryptandra connata	2	Borya sphaerocephala													
Allocasuarina acutivalvis subsp. prinsepiana	15	Calothamnus gilesii	1	Podolepis canescens	1	Schoenus nanus	1										
Melaleuca uncinata	2	Schoenus nanus	2														
Borya sphaerocephala	2	Hypoxis occidentalis var. occidentalis	2	Micromyrtus racemosa var. prochytes	2	Acacia oswaldii	1										
Allocasuarina acutivalvis subsp. prinsepiana	4	Hypoxis occidentalis var. occidentalis	3														
Borya sphaerocephala	5	Micromyrtus racemosa var. prochytes	4	Hypoxis occidentalis var. occidentalis	2	Xanthosia bungei	1										
Micromyrtus racemosa var. prochytes	10	Acacia acuminata	4	Borya sphaerocephala	4	Hypoxis occidentalis var. occidentalis	3	Lawrencella rosea	3	nitida	2						
Acacia acuminata	8	Brachychiton gregorii	4	Aristida contorta	3	Rhodanthe charsleyae	2										

s2	c2	s3	c3	s4	c4	s5	c5	s6	c6	s7	c7	s8	c8	s9	c9	s10	c10
Allocasuarina acutivalvis subsp. prinsepiana	15	Hypoxis occidentalis var. occidentalis	5														
Allocasuarina acutivalvis subsp. prinsepiana	20	Hyalosperma cotula	3	Lawrencella rosea	3	Hypoxis occidentalis var. occidentalis	2										
Hyalosperma cotula	5	Eremophila oldfieldii	4	Grevillea scabrida	4	Dodonaea inaequifolia	3										
Acacia acuminata	7	Acacia tetragonophylla	7	Acacia kochii	5	Podolepis canescens	5	Podolepis lessonii	4								

Association Matrix Site by Site (Values >= 0.6 omitted)

ID	site	gp10	gp28	gp40	name	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
						Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill North	Extension Hill	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Extension Hill	Iron Hill	Iron Hill	Iron Hill North	Iron Hill North	Iron Hill North	Mt Gibson North	Mt Gibson North	Mt Gibson North	Iron Hill East	Mt Gibson North	Mt Gibson North	Iron Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill North	Iron Hill North	Iron Hill North	Extension Hill
					geo	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
					gp10	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8
					gp28	1	1	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11
					gp40	20	18	20	18	19	20	20	15	17	17	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21
					no_sp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
					condition	1	2	6	4	8	10	11	7	9	5	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19
5	001	1	1	1	Extension Hill	0	0.351	0.436	0.351	0.368	0.385	0.333	0.471	0.5	0.5	0.389	0.385	0.389	0.429	0.46	0.515	0.576	0.405	0.486	0.45	0.515	0.543			0.46	0.486	0.568	0.522		0.514	0.535		0.576	0.556				0.571	0.546	0.556	
6	002	1	1	1	Extension Hill	0.351	0	0.579	0.333	0.351	0.474	0.368	0.515	0.486	0.429	0.429	0.526	0.429	0.529	0.444	0.563	0.438	0.333	0.412	0.436		0.588			0.5			0.556		0.556	0.571				0.588	0.576	0.543	0.561	0.581		0.539
7	006	1	1	2	Extension Hill	0.436	0.579	0	0.474	0.539	0.55	0.5		0.405		0.514				0.579	0.588		0.579		0.561	0.588	0.5			0.579					0.579	0.591		0.588								
8	004	1	2	3	Extension Hill	0.351	0.333	0.474	0	0.135	0.158	0.158	0.152	0.2	0.314	0.2	0.263	0.314	0.412	0.167	0.313	0.313	0.278	0.294	0.282	0.375	0.294	0.371	0.517	0.333	0.412	0.5	0.467	0.512	0.389	0.333	0.429	0.5	0.429	0.412	0.455	0.486	0.463	0.488	0.486	0.436
9	008	1	2	3	Extension Hill	0.368	0.351	0.539	0.135	0	0.128	0.18	0.235	0.333	0.389	0.278	0.231	0.333	0.429	0.297	0.394	0.333	0.297	0.371	0.3	0.394	0.314	0.444	0.533	0.297	0.429	0.46	0.478	0.524	0.405	0.395	0.488	0.576	0.389	0.543	0.529	0.556	0.476	0.455	0.5	0.5
10	010	1	2	3	Extension Hill	0.385	0.474	0.55	0.158	0.128	0	0.2	0.2	0.297	0.351	0.351	0.2	0.405	0.444	0.316	0.412	0.412	0.368	0.444	0.366	0.353	0.333	0.46	0.548	0.368	0.5	0.526	0.532	0.581	0.368	0.364	0.455	0.529	0.46	0.5	0.486	0.514	0.488	0.467	0.514	0.463
11	011	1	2	3	Extension Hill	0.333	0.368	0.5	0.158	0.18	0.2	0	0.257	0.351	0.46	0.297	0.35	0.351	0.389	0.316	0.353	0.353	0.368	0.333	0.317	0.412	0.333	0.46	0.548	0.368	0.444	0.474	0.532	0.535	0.474	0.409	0.5	0.471	0.514	0.556		0.568	0.535	0.511		0.561
12	007	1	2	3	Extension Hill	0.471	0.515		0.152	0.235	0.2	0.257	0	0.25	0.375	0.375	0.371	0.438	0.548	0.333	0.448	0.448	0.394	0.419	0.389	0.448	0.419	0.563	0.539	0.455	0.548	0.576			0.515	0.385	0.436	0.517	0.375	0.484	0.533	0.5			0.563	0.5
13	009	1	2	3	Extension Hill	0.5	0.486	0.405	0.2	0.333	0.297	0.351	0.25	0	0.471	0.353	0.405	0.471	0.515	0.371	0.484	0.419	0.429	0.455	0.421	0.419	0.333	0.471		0.486	0.515		0.591		0.429	0.366	0.463		0.529	0.576	0.563	0.588			0.529	0.474
14	005	1	2	3	Extension Hill	0.5	0.429		0.314	0.389	0.351	0.46	0.375	0.471	0	0.471	0.405	0.471		0.429	0.484	0.419	0.314	0.455	0.421	0.548	0.515	0.588		0.543			0.591		0.543	0.561			0.529	0.576	0.563	0.529		0.524	0.471	0.474
15	013	1	2	4	Extension Hill	0.389	0.429	0.514	0.2	0.278	0.351	0.297	0.375	0.353	0.471	0	0.243	0.294	0.273	0.257	0.29	0.29	0.314	0.333	0.263	0.419	0.394	0.412	0.571	0.429	0.394	0.486	0.455	0.55	0.429	0.463	0.463	0.419	0.529	0.515	0.5	0.471	0.45	0.476	0.529	0.474
16	028	1	2	4	Iron Hill North	0.385	0.526		0.263	0.231	0.2	0.35	0.371	0.405	0.405	0.243	0	0.297	0.222	0.263	0.353	0.353	0.263	0.333	0.22	0.412	0.389	0.46	0.419	0.316	0.389	0.421	0.404	0.488	0.316	0.364	0.364	0.529	0.514	0.444	0.371	0.405	0.302	0.333	0.351	0.415
17	014	1	2	4	Extension Hill	0.389	0.429		0.314	0.333	0.405	0.351	0.438	0.471	0.471	0.294	0.297	0	0.212	0.314	0.355	0.355	0.257	0.333	0.263		0.394	0.471	0.571	0.314	0.333	0.486	0.455	0.45	0.429	0.415	0.463	0.548	0.529	0.515	0.5	0.471	0.45	0.429	0.471	0.474
18	029	1	2	4	Iron Hill North	0.429	0.529		0.412	0.429	0.444	0.389	0.548	0.515		0.273	0.222	0.212	0	0.353	0.267	0.333	0.294	0.313	0.297	0.533	0.438	0.455	0.407	0.353	0.313	0.412	0.442	0.487	0.353	0.4	0.4	0.4		0.563	0.548	0.515	0.436	0.463	0.576	0.568
19	021	1	2	4	Extension Hill	0.46	0.444	0.579	0.167	0.297	0.316	0.316	0.333	0.371	0.429	0.257	0.263	0.314	0.353	0	0.25	0.313	0.278	0.294	0.333	0.438	0.353	0.371	0.448	0.333	0.412	0.5	0.511	0.561	0.444	0.381	0.476	0.5	0.543	0.353	0.333	0.371	0.366	0.395	0.371	0.282
20	026	1	2	4	Iron Hill North	0.515	0.563	0.588	0.313	0.394	0.412	0.353	0.448	0.484	0.484	0.29	0.353	0.355	0.267	0.25	0	0.143	0.25	0.267	0.371	0.429	0.4	0.419	0.44	0.438	0.4	0.5			0.5	0.474	0.474	0.357		0.533	0.586	0.484	0.568	0.487	0.484	0.543
21	027	1	2	4	Iron Hill North	0.576	0.438		0.313	0.333	0.412	0.353	0.448	0.419	0.419	0.29	0.353	0.355	0.333	0.313	0.143	0	0.125	0.133	0.257	0.5	0.4	0.484	0.44	0.375	0.4	0.5		0.568	0.5	0.526	0.526	0.5			0.517	0.419	0.514	0.436	0.419	0.486
22	030	1	2	4	Iron Hill North	0.405	0.333	0.579	0.278	0.297	0.368	0.368	0.394	0.429	0.314	0.314	0.263	0.257	0.294	0.278	0.25	0.125	0	0.118	0.18	0.5	0.412	0.486	0.379	0.278	0.412	0.444	0.467	0.512	0.444	0.429	0.476	0.563		0.529	0.455	0.371	0.415	0.349	0.314	0.436
23	033	1	2	4	Iron Hill North	0.486	0.412		0.294	0.371	0.444	0.333	0.419	0.455	0.455	0.333	0.333	0.333	0.313	0.294	0.267	0.133	0.118	0	0.135		0.375	0.455	0.259	0.235	0.313	0.353	0.488	0.436	0.412	0.4	0.45	0.533		0.563	0.484	0.333	0.385	0.366	0.333	0.46
24	034	1	2	4	Iron Hill North	0.45	0.436	0.561	0.282	0.3	0.366	0.317	0.389	0.421	0.421	0.263	0.22	0.263	0.297	0.333	0.371	0.257	0.18	0.135	0	0.543	0.297	0.421	0.375	0.231	0.351	0.333	0.333	0.364	0.385	0.333	0.333	0.543	0.579	0.568	0.5	0.368	0.318	0.348	0.368	0.476
25	012	1	3	5	Extension Hill	0.515		0.588	0.375	0.394	0.353	0.412	0.448	0.419	0.548	0.419	0.412		0.533	0.438	0.429	0.5	0.5		0.543	0	0.333	0.419	0.52	0.5					0.563	0.526	0.579	0.571	0.548		0.586			0.59		
26	038	1	3	5	Iron Hill	0.543	0.588	0.5	0.294	0.314	0.333	0.333	0.419	0.333	0.515	0.394	0.389	0.394	0.438	0.353	0.4	0.4	0.412	0.375	0.297	0.333	0	0.273	0.407	0.235	0.375	0.471	0.488	0.539	0.353	0.35	0.4		0.515	0.563	0.548	0.576	0.436	0.463	0.515	0.568
27	039	1	3	5	Iron Hill				0.371	0.444	0.46	0.46	0.563	0.471	0.588	0.412	0.46	0.471	0.455	0.371	0.419	0.484	0.486	0.455	0.421	0.419	0.273	0	0.429	0.314	0.455	0.429	0.455	0.5	0.429	0.415	0.512			0.515	0.563	0.588	0.45	0.476	0.529	0.579
28	025	1	4	6	Iron Hill North				0.517	0.533	0.548	0.548	0.539			0.571	0.419	0.571	0.407	0.448	0.44	0.44	0.379	0.259	0.375	0.52	0.407	0.429	0	0.241	0.333	0.31	0.526	0.529	0.517	0.486	0.543			0.556	0.539	0.5	0.471	0.5	0.429	
29	031	1	4	6	Iron Hill North	0.46	0.5	0.579	0.333	0.297	0.368	0.368	0.455	0.486	0.543	0.429	0.316	0.314	0.353	0.333	0.438	0.375	0.278	0.235	0.231	0.5	0.235	0.314	0.241	0	0.177	0.278	0.333	0.317	0.333	0.333	0.381		0.543	0.529	0.515	0.486	0.366	0.395	0.429	0.487
30	032	1	4	6	Iron Hill North	0.486			0.412	0.429	0.5	0.444	0.548	0.515		0.394	0.389	0.333	0.313	0.412	0.4	0.4	0.412	0.313	0.351		0.375	0.455	0.333	0.177	0	0.353	0.442	0.333	0.412	0.45	0.4	0.533					0.487	0.561	0.515	
31	051	1	4	6	Mt Gibson North	0.568			0.5	0.46	0.526	0.474	0.576			0.486	0.421	0.486	0.412	0.5	0.5	0.5	0.444	0.353	0.333		0.471	0.429	0.31	0.278	0.353	0	0.289	0.317	0.444	0.333	0.429	0.563					0.463	0.535	0.543	
32	052	1	4	6	Mt Gibson North	0.522	0.556		0.467	0.478	0.532	0.532		0.591	0.591	0.455	0.404	0.455	0.442	0.511			0.467	0.488	0.333		0.488	0.455	0.526	0.333	0.442	0.289	0	0.24	0.422	0.333	0.333					0.591	0.44	0.539	0.591	
33	053	1	4	6	Mt Gibson North				0.512	0.524	0.581	0.535				0.55	0.488	0.45	0.487	0.561		0.568	0.512	0.436	0.364		0.539	0.5	0.529	0.317	0.333	0.317	0.24	0	0.463	0.404	0.404						0.478	0.542		
34	049	1	4	7	Iron Hill East	0.514	0.556	0.579	0.389	0.405	0.368	0.474	0.515	0.429	0.543	0.429	0.316	0.429	0.353	0.444	0.5	0.5	0.444	0.412	0.385	0.563	0.353	0.429	0.517	0.333	0.412	0.444	0.422	0.463	0	0.191	0.333				0.576	0.543	0.463	0.488	0.543	0.539
35	050	1	4	7	Mt Gibson North	0.535	0.571	0.591	0.333	0.395	0.364	0.409	0.385	0.366	0.561	0.463	0.364	0.415	0.4	0.381	0.474	0.526	0.429	0.4	0.333	0.526	0.35	0.415	0.486	0.333	0.45	0.333	0.333	0.404	0.191	0	0.292	0.579	0.512	0.55	0.59	0.561	0.489	0.51	0.561	0.556
36	054	1	4	7	Mt Gibson North				0.429	0.488	0.455	0.5	0.436	0.463		0.463	0.364	0.463	0.4	0.476	0.474	0.526	0.476	0.45	0.333	0.579	0.4	0.512	0.543	0.381	0.4	0.429	0.333	0.404	0.333	0.292	0	0.579				0.561	0.489	0.592		
37	003	1	5	8	Extension Hill	0.576		0.588	0.5	0.576	0.529	0.471	0.517			0.419	0.529	0.548	0.4	0.5	0.357	0.5	0.563	0.533	0.543	0.571					0.533	0.563				0.579	0.579	0								
38	015	1	6	9	Extension Hill	0.556			0.429	0.389	0.46	0.514	0.375	0.529	0.529	0.529	0.514	0.529		0.543					0.579	0.548	0.515			0.543						0.512			0	0.576						0.579
39	024	1	7	10	Extension Hill		0.588		0.412	0.543	0.5	0.556	0.484	0.576	0.576	0.515	0.444	0.515	0.563	0.353	0.533		0.529	0.563	0.568		0.563	0.515	0.556	0.529						0.55			0.576	0	0.355	0.515	0.487	0.463	0.576	0.568
40	016	2	8	11	Extension Hill		0.576		0.455	0.529	0.486		0.533	0.563	0.563	0.5	0.371	0.5	0.548	0.333	0.586	0.517	0.455	0.484	0.5	0.586	0.548	0.563	0.539	0.515					0.576	0.59				0.355	0	0.313	0.316	0.3	0.375	0.333
41	017	2	8	11	Extension Hill		0.543		0.486	0.556	0.514	0.568	0.5	0.588	0.529	0.471	0.405	0.471	0.515	0.371	0.484	0.419	0.371	0.333	0.368		0.576	0.588	0.5	0.486			0.591		0.543	0.561	0.561			0.515	0.313	0	0.4	0.381	0.353	0.421
42	035	2	8	11	Iron Hill North	0.571	0.561		0.463	0.476	0.488	0.535				0.45	0.302	0.45	0.436	0.366	0.568	0.514	0.415	0.385	0.318		0.436	0.45	0.471	0.366	0.487	0.463	0.44	0.478	0.463	0.489	0.489			0.487	0.316	0.4	0	0.292	0.35	0.409
43	036	2	8	11	Iron Hill North	0.546	0.581		0.488	0.455	0.467	0.511			0.524	0.476	0.333	0.429	0.463	0.395	0.487	0.436	0.349	0.366	0.348	0.59	0.463	0.476	0.5	0.395	0.561	0.535	0.539	0.542	0.488	0.51	0.592			0.463	0.3	0.381	0.292	0	0.286	0.391
44	037	2	8	11	Iron Hill North	0.556			0.486	0.5	0.514		0.563	0.529	0.471	0.529	0.351	0.471	0.576	0.371	0.484	0.419	0.314	0.333	0.368		0.515	0.529	0.429	0.429	0.515	0.543	0.591		0.543	0.561				0.576	0.375	0.353	0.35	0.286	0	0.368
45	019	2	8	12	Extension Hill		0.539		0.436	0.5	0.463	0.561	0.5	0.474	0.474	0.474	0.415	0.474	0.568	0.282	0.543	0.486	0.436	0.46	0.476		0.568	0.579		0.487					0.539	0.556			0.579	0.568	0.333	0.421	0.409	0.391	0.368	0
46	020	2	8	12	Extension Hill	0.561	0.55		0.4	0.463	0.476	0.524	0.514	0.487	0.487	0.436	0.429	0.539	0.579	0.3	0.556	0.5	0.45	0.474	0.488	0.556	0.526	0.487	0.576	0.5			0.551		0.5	0.478			0.539	0.526	0.351	0.487	0.378	0.404	0.436	0.256
47	023	2	8	12	Extension Hill		0.556		0.444	0.514	0.579	0.526	0.455	0.543	0.543	0.486	0.526	0.543		0.333	0.563	0.5	0.444	0.471	0.487		0.588	0.543	0.586	0.556						0.571				0.588	0.455	0.486	0.512	0.442	0.429	0.385
48	018	2	8	13	Extension Hill	0.487	0.474		0.474	0.539	0.55	0.5	0.543	0.514	0.568	0.46	0.45	0.405	0.556	0.421	0.588	0.529	0.474	0.5	0.463					0.579										0.556	0.371	0.351	0.395	0.422	0.405	0.415
49	047	2	8	13	Iron Hill East	0.533	0.586		0.448	0.467	0.419	0.484	0.539	0.5		0.5	0.419	0.571	0.556	0.448			0.586	0.556	0.563				0.546	0.586	0.556	0.586		0.588							0.385	0.5	0.412	0.556	0.5	0.563
50	048	2	9	14	Iron Hill East	0.568			0.389	0.46	0.474	0.474	0.455	0.486		0.543	0.579			0.389	0.563	0.563	0.5	0.529	0.539	0.563	0.529	0.486	0.586	0.556										0.588	0.515	0.543	0.561	0.535	0.486	0.59
51	062	2	10	15	Vermin Fence								0.583							0.482																					0.583					
52	022	2	11	16	Extension Hill				0.514	0.526	0.539	0.59	0.588	0.556		0.444	0.385	0.444	0.371	0.351	0.515	0.576	0.568		0.5	0.576	0.486	0.444	0.533	0.46	0.486	0.568	0.565		0.514	0.488	0.488			0.543	0.529		0.476	0.546		0.5
53	040	2	11	16	Iron Hill	0.487	0.579		0.368	0.385	0.45	0.45	0.486	0.405		0.351	0.3	0.351	0.333	0.316	0.471	0.471	0.421	0.389	0.317	0.588	0.389	0.405	0.484	0.368	0.333	0.474	0.489	0.488	0.421	0.409	0.409			0.556	0.543	0.568	0.349	0.422	0.405	0.415
54	043	2	11	16	Iron Hill	0.5	0.581	0.556	0.349	0.455	0.467	0.467	0.45	0.429		0.476	0.422	0.476	0.512	0.256	0.487	0.539	0.442	0.463	0.478	0.59	0.512	0.524	0.556	0.488	0.512		0.577		0.535	0.429	0.469		0.571	0.512	0.5	0.524	0.458	0.44	0.429	0.435
55	041	2	11	16	Iron Hill	0.535		0.591	0.476	0.488	0.546	0.546		0.561		0.463	0.364	0.415	0.45	0.333	0.579	0.579	0.476	0.5	0.422		0.5	0.561		0.476	0.5	0.571	0.569	0.575	0.524	0.5	0.542			0.55	0.539		0.404	0.429	0.463	0.467
56	055	2	11	16	Mt Gibson North				0.556	0.565	0.575			0.591		0.546	0.447	0.455	0.488	0.422	0.561		0.511	0.535	0.458		0.535	0.591	0.579	0.511	0.535	0.511	0.556		0.511	0.412	0.412						0.48	0.539	0.5	0.458
57	056	2	11	16	Mt Gibson North	0.535			0.429	0.442	0.5	0.5	0.539	0.561		0.463	0.364	0.415	0.4	0.333	0.474	0.526	0.429	0.4	0.378	0.579	0.4	0.415	0.429	0.333	0.45	0.381	0.412	0.489	0.381	0.292	0.375		0.561	0.55	0.487	0.512	0.362	0.388	0.415	0.422
58	060	2	11	16	Mt Gibson South	0.568			0.556	0.568	0.579			0.543		0.543	0.474	0.543	0.471	0.444					0.539		0.588	0.543		0.556	0.588				0.5	0.429	0.524			0.588			0.561	0.535		0.59
59	057	2	11	16	Mt Gibson North				0.56	0.569		0.577		0.592		0.592	0.5	0.51	0.5	0.56				0.542	0.472		0.542	0.551	0.535	0.48	0.458	0.48	0.424	0.491	0.52	0.393	0.536						0.527	0.579	0.592	0.585
60	046	2	12	17	Iron Hill															0.556																0.569	0.529									0.583
61	045	2	13	18	Iron Hill	0.571			0.512	0.524	0.581	0.535	0.579	0.55		0.55	0.535	0.45	0.539		0.568	0.514	0.463	0.487	0.409		0.487	0.55		0.512	0.59				0.561	0.575	0.489							0.542	0.55	

Association Matrix Site by Site (Values >= 0.6 omitted)

						Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill North	Extension Hill	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Iron Hill North	Extension Hill	Iron Hill	Iron Hill	Iron Hill North	Iron Hill North	Iron Hill North	Mt Gibson North	Mt Gibson North	Mt Gibson North	Iron Hill East	Mt Gibson North	Mt Gibson North	Iron Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill North	Iron Hill North	Iron Hill North	Extension Hill
					geo	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
					gp10	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8
					gp28	1	1	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11
					gp40	20	18	20	18	19	20	20	15	17	17	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21
					no_sp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
					condition	1	2	6	4	8	10	11	7	9	5	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19
ID	site	gp10	gp28	gp40	name	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
62	042	3	14	19	Iron Hill				0.55	0.561		0.571		0.539	0.59			0.539				0.556	0.55	0.526	0.488		0.579	0.59		0.5	0.579	0.55	0.592	0.511		0.478			0.539							0.581
63	044	3	14	19	Iron Hill																																0.56									
64	058	3	15	20	Mt Gibson South																																0.581									
65	059	3	15	20	Mt Gibson South																										0.576															
66	088	4	16	21	Well (ruin) E																																									
67	089	4	17	22	Well (ruin) E																																									
68	063	5	18	23	Taylor Well																																									
69	064	5	18	23	Taylor Well																																									
70	083	5	18	24	East GNH	0.583	0.489		0.489	0.5	0.551	0.51	0.546		0.565	0.565						0.581	0.489	0.556	0.48					0.575			0.5				0.547									
71	084	5	18	24	East GNH																													0.583												
72	085	5	18	24	East GNH																																									
73	065	5	19	25	East GNH																																									
74	093	5	19	26	East Extension Hill																																									
75	094	5	19	26	East Extension Hill																																									
76	095	5	19	26	East Extension Hill											0.561				0.571	0.579	0.579	0.571		0.511								0.569				0.583									
77	092	5	19	27	Fence			0.575								0.591									0.583																					
78	096	6	20	28	East Extension Hill																																									
79	100	6	20	28	Yandhanoo Hill																																									
80	097	6	20	28	East Extension Hill																																									
81	098	6	20	28	Yandhanoo Hill																																									
82	099	6	20	29	Yandhanoo Hill																																									
83	061	7	21	30	Vermin Fence																																									
84	086	7	21	31	Well (ruin) E																				0.579																					
85	087	7	21	31	Well (ruin) E																																									
86	080	8	22	32	SW Mt Singleton																																									
87	081	8	23	33	SW Mt Singleton																																									
88	082	8	23	33	SW Mt Singleton																																									
89	066	9	24	34	Mt Singleton																																									
90	070	9	24	34	Mt Singleton																																									
91	067	9	24	34	Mt Singleton																																									
92	069	9	24	34	Mt Singleton																																									
93	068	9	24	34	Mt Singleton															0.563																										
94	071	10	25	35	Mt Singleton																																									
95	072	10	25	36	Mt Singleton	0.563												0.533																												
96	073	10	25	36	Mt Singleton				0.59						0.579			0.579					0.59																							
97	074	10	26	37	Mt Singleton																																									
98	075	10	26	37	Mt Singleton													0.568					0.579												0.579	0.591										
99	076	10	26	37	Mt Singleton																																									
100	077	10	27	38	Mt Singleton																																									
101	078	10	27	39	Coonigal Well		0.571								0.512			0.512					0.571		0.556																					
102	079	10	27	39	Coonigal Well																																									
103	090	10	28	40	Well (ruin) E																																									
104	091	10	28	40	Well (ruin) E																																									

Association Matrix Site by Site (Values >=

						Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill	Iron Hill	Mt Gibson South	Iron Hill	Mt Gibson North	Mt Gibson North	Mt Gibson North	Extension Hill	Iron Hill	Iron Hill East	Iron Hill East	Vermin Fence	Iron Hill	Iron Hill	Mt Gibson South	Mt Gibson South	Well (ruin) E	Well (ruin) E	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Extension Hill	East Extension Hill	East Extension Hill	Extension Hill Vermin Fence	East Extension Hill	Yandhanoo Hill	East Extension Hill	Yandhanoo Hill	Yandhanoo Hill	Vermin Fence	Well (ruin) E	Well (ruin) E	SW Mt Singleton
					geo	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8
					gp10	8	8	9	10	10	10	10	10	10	10	10	10	11	12	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22
					gp28	11	11	12	13	13	13	13	13	13	13	13	13	14	15	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32
					gp40	22	18	16	18	25	24	18	20	27	24	32	19	27	11	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10
					no_sp	2	1	2	3	2	1	2	1	1	1	1	2	2	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3
					condition	20	23	24	21	43	41	60	40	55	56	57	22	46	47	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80
ID	site	gp10	gp28	gp40	name	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
5	001	1	1	1	Extension Hill	0.561		0.487	0.533	0.568			0.487	0.5	0.535		0.535	0.568			0.571									0.583																
6	002	1	1	1	Extension Hill	0.55	0.556	0.474	0.586				0.579	0.581																0.489																
7	006	1	1	2	Extension Hill									0.556	0.591																						0.575									
8	004	1	2	3	Extension Hill	0.4	0.444	0.474	0.448	0.389		0.514	0.368	0.349	0.476	0.556	0.429	0.556	0.56		0.512	0.55								0.489																
9	008	1	2	3	Extension Hill	0.463	0.514	0.539	0.467	0.46		0.526	0.385	0.455	0.488	0.565	0.442	0.568	0.569		0.524	0.561								0.5																
10	010	1	2	3	Extension Hill	0.476	0.579	0.55	0.419	0.474		0.539	0.45	0.467	0.546	0.575	0.5	0.579			0.581									0.551																
11	011	1	2	3	Extension Hill	0.524	0.526	0.5	0.484	0.474		0.59	0.45	0.467	0.546		0.5		0.577		0.535	0.571								0.51																
12	007	1	2	3	Extension Hill	0.514	0.455	0.543	0.539	0.455	0.583	0.588	0.486	0.45			0.539				0.579									0.546																
13	009	1	2	3	Extension Hill	0.487	0.543	0.514	0.5	0.486		0.556	0.405	0.429	0.561	0.591	0.561	0.543	0.592		0.55	0.539																								
14	005	1	2	3	Extension Hill	0.487	0.543	0.568														0.59								0.565																
15	013	1	2	4	Extension Hill	0.436	0.486	0.46	0.5	0.543		0.444	0.351	0.476	0.463	0.546	0.463	0.543	0.592		0.55									0.565						0.561	0.591									
16	028	1	2	4	Iron Hill North	0.429	0.526	0.45	0.419	0.579		0.385	0.3	0.422	0.364	0.447	0.364	0.474	0.5		0.535																									
17	014	1	2	4	Extension Hill	0.539	0.543	0.405	0.571			0.444	0.351	0.476	0.415	0.455	0.415	0.543	0.51		0.45	0.539																								
18	029	1	2	4	Iron Hill North	0.579		0.556	0.556			0.371	0.333	0.512	0.45	0.488	0.4	0.471	0.5		0.539																									
19	021	1	2	4	Extension Hill	0.3	0.333	0.421	0.448	0.389	0.482	0.351	0.316	0.256	0.333	0.422	0.333	0.444	0.56	0.556																0.571										
20	026	1	2	4	Iron Hill North	0.556	0.563	0.588		0.563		0.515	0.471	0.487	0.579	0.561	0.474				0.568															0.579										
21	027	1	2	4	Iron Hill North	0.5	0.5	0.529		0.563		0.576	0.471	0.539	0.579		0.526				0.514	0.556								0.581						0.579										
22	030	1	2	4	Iron Hill North	0.45	0.444	0.474	0.586	0.5		0.568	0.421	0.442	0.476	0.511	0.429				0.463	0.55								0.489						0.571										
23	033	1	2	4	Iron Hill North	0.474	0.471	0.5	0.556	0.529			0.389	0.463	0.5	0.535	0.4		0.542		0.487	0.526								0.556																
24	034	1	2	4	Iron Hill North	0.488	0.487	0.463	0.563	0.539		0.5	0.317	0.478	0.422	0.458	0.378	0.539	0.472		0.409	0.488								0.48						0.511	0.583							0.579		
25	012	1	3	5	Extension Hill	0.556				0.563		0.576	0.588	0.59			0.579																													
26	038	1	3	5	Iron Hill	0.526	0.588			0.529		0.486	0.389	0.512	0.5	0.535	0.4	0.588	0.542		0.487	0.579																								
27	039	1	3	5	Iron Hill	0.487	0.543			0.486		0.444	0.405	0.524	0.561	0.591	0.415	0.543	0.551		0.55	0.59																								
28	025	1	4	6	Iron Hill North	0.576	0.586		0.546	0.586		0.533	0.484	0.556		0.579	0.429		0.535																											
29	031	1	4	6	Iron Hill North	0.5	0.556	0.579	0.586	0.556		0.46	0.368	0.488	0.476	0.511	0.333	0.556	0.48		0.512	0.5								0.575																
30	032	1	4	6	Iron Hill North				0.556			0.486	0.333	0.512	0.5	0.535	0.45	0.588	0.458		0.59	0.579			0.576																					
31	051	1	4	6	Mt Gibson North				0.586			0.568	0.474		0.571	0.511	0.381		0.48			0.55																								
32	052	1	4	6	Mt Gibson North	0.551						0.565	0.489	0.577	0.569	0.556	0.412		0.424			0.592								0.5						0.569										
33	053	1	4	6	Mt Gibson North				0.588				0.488		0.575		0.489		0.491			0.511									0.583															
34	049	1	4	7	Iron Hill East	0.5						0.514	0.421	0.535	0.524	0.511	0.381	0.5	0.52		0.561																									
35	050	1	4	7	Mt Gibson North	0.478	0.571					0.488	0.409	0.429	0.5	0.412	0.292	0.429	0.393	0.569	0.575	0.478																								
36	054	1	4	7	Mt Gibson North							0.488	0.409	0.469	0.542	0.412	0.375	0.524	0.536	0.529	0.489		0.56	0.581						0.547						0.583										
37	003	1	5	8	Extension Hill																																									
38	015	1	6	9	Extension Hill	0.539								0.571			0.561					0.539																								
39	024	1	7	10	Extension Hill	0.526	0.588	0.556		0.588		0.543	0.556	0.512	0.55		0.55	0.588																												
40	016	2	8	11	Extension Hill	0.351	0.455	0.371	0.385	0.515	0.583	0.529	0.543	0.5	0.539		0.487																													
41	017	2	8	11	Extension Hill	0.487	0.486	0.351	0.5	0.543			0.568	0.524			0.512																													
42	035	2	8	11	Iron Hill North	0.378	0.512	0.395	0.412	0.561		0.476	0.349	0.458	0.404	0.48	0.362	0.561	0.527																											
43	036	2	8	11	Iron Hill North	0.404	0.442	0.422	0.556	0.535		0.546	0.422	0.44	0.429	0.539	0.388	0.535	0.579		0.542																									
44	037	2	8	11	Iron Hill North	0.436	0.429	0.405	0.5	0.486			0.405	0.429	0.463	0.5	0.415		0.592		0.55																									
45	019	2	8	12	Extension Hill	0.256	0.385	0.415	0.563	0.59		0.5	0.415	0.435	0.467	0.458	0.422	0.59	0.585	0.583		0.581																								
46	020	2	8	12	Extension Hill	0	0.35	0.381	0.455	0.5		0.463	0.429	0.362	0.435	0.469	0.391	0.45	0.556	0.551		0.591																								
47	023	2	8	12	Extension Hill	0.35	0	0.421	0.586	0.5	0.556	0.405	0.474	0.442	0.524	0.511	0.476	0.556																												
48	018	2	8	13	Extension Hill	0.381	0.421	0	0.355	0.526		0.539	0.4	0.422	0.5	0.532	0.5		0.577		0.581																									
49	047	2	8	13	Iron Hill East	0.455	0.586	0.355	0	0.448			0.484	0.5	0.543																															
50	048	2	9	14	Iron Hill East	0.5	0.5	0.526	0.448	0	0.556		0.526	0.395	0.571		0.571				0.561																									
51	062	2	10	15	Vermin Fence		0.556			0.556	0			0.588																																
52	022	2	11	16	Extension Hill	0.463	0.405	0.539				0	0.333	0.455	0.442	0.435	0.395	0.405	0.529	0.522																										
53	040	2	11	16	Iron Hill	0.429	0.474	0.4	0.484	0.526		0.333	0	0.289	0.318	0.319	0.273	0.368	0.346	0.532	0.488	0.571																0.59								
54	043	2	11	16	Iron Hill	0.362	0.442	0.422	0.5	0.395	0.588	0.455	0.289	0	0.306	0.346	0.347	0.349	0.474	0.462	0.458																	0.591	0.575							
55	041	2	11	16	Iron Hill	0.435	0.524	0.5	0.543	0.571		0.442	0.318	0.306	0	0.333	0.417	0.333	0.429	0.451	0.575	0.522																								
56	055	2	11	16	Mt Gibson North	0.469	0.511	0.532				0.435	0.319	0.346	0.333	0	0.255	0.378	0.356	0.407	0.52	0.551	0.585																0.592							
57	056	2	11	16	Mt Gibson North	0.391	0.476	0.5		0.571		0.395	0.273	0.347	0.417	0.255	0	0.381	0.357	0.529	0.532	0.565												0.583		0.583										
58	060	2	11	16	Mt Gibson South	0.45	0.556					0.405	0.368	0.349	0.333	0.378	0.381	0	0.52	0.511																							0.588			
59	057	2	11	16	Mt Gibson North	0.556		0.577				0.529	0.346	0.474	0.429	0.356	0.357	0.52	0	0.559		0.444	0.483																							
60	046	2	12	17	Iron Hill	0.551						0.522	0.532	0.462	0.451	0.407	0.529	0.511	0.559	0			0.547																							
61	045	2	13	18	Iron Hill			0.581		0.561			0.488	0.458	0.575	0.52	0.532				0																									

Association Matrix Site by Site (Values >=

ID	site	gp10	gp28	gp40	name	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
						Extension Hill	Extension Hill	Extension Hill	Extension Hill	Iron Hill	Iron Hill	Mt Gibson South	Iron Hill	Mt Gibson North	Mt Gibson North	Mt Gibson North	Extension Hill	Iron Hill	Iron Hill East	Iron Hill East	Vermin Fence	Iron Hill	Iron Hill	Mt Gibson South	Mt Gibson South	Well (ruin) E	Well (ruin) E	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Extension Hill	East Extension Hill	East Extension Hill	Extension Hill Vermin Fence	East Extension Hill	Yandhanoo Hill	East Extension Hill	Yandhanoo Hill	Yandhanoo Hill	Vermin Fence	Well (ruin) E	Well (ruin) E	SW Mt Singleton
					geo	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8
					gp10	8	8	9	10	10	10	10	10	10	10	10	10	11	12	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22
					gp28	11	11	12	13	13	13	13	13	13	13	13	13	14	15	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32
					gp40	22	18	16	18	25	24	18	20	27	24	32	19	27	11	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10
					no_sp	2	1	2	3	2	1	2	1	1	1	1	2	2	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3
					condition	20	23	24	21	43	41	60	40	55	56	57	22	46	47	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80
62	042	3	14	19	Iron Hill	0.591							0.571		0.522	0.551	0.565		0.444			0	0.458																							
63	044	3	14	19	Iron Hill											0.585			0.483	0.547		0.458	0	0.511	0.535			0.49	0.451					0.48												
64	058	3	15	20	Mt Gibson South																		0.511	0	0.333			0.409	0.5	0.458	0.591	0.511							0.561							
65	059	3	15	20	Mt Gibson South																		0.535	0.333	0																					
66	088	4	16	21	Well (ruin) E																					0	0.565																			
67	089	4	17	22	Well (ruin) E																					0.565	0																			
68	063	5	18	23	Taylor Well																		0.49	0.409				0	0.24	0.407	0.44	0.373	0.474	0.51	0.469		0.577		0.575	0.591		0.546				
69	064	5	18	23	Taylor Well																		0.451	0.5				0.24	0	0.519	0.48	0.451	0.509	0.51	0.429		0.539	0.546	0.532			0.591				
70	083	5	18	24	East GNH																			0.458				0.407	0.519	0	0.296	0.273	0.541	0.509	0.472	0.472	0.5	0.583	0.569	0.583	0.591					
71	084	5	18	24	East GNH																			0.591				0.44	0.48	0.296	0	0.216		0.388	0.429	0.51	0.577	0.5	0.532	0.546		0.591				
72	085	5	18	24	East GNH																			0.511				0.373	0.451	0.273	0.216	0	0.552	0.48	0.44	0.56	0.585	0.467	0.5	0.511	0.561	0.556				
73	065	5	19	25	East GNH																							0.474	0.509	0.541		0.552	0	0.5	0.5	0.393	0.593									
74	093	5	19	26	East Extension Hill												0.583						0.48					0.51	0.51	0.509	0.388	0.48	0.5	0	0.292	0.292	0.569	0.581	0.565							
75	094	5	19	26	East Extension Hill																							0.469	0.429	0.472	0.429	0.44	0.5	0.292	0	0.375	0.451	0.581	0.565	0.535						
76	095	5	19	26	East Extension Hill												0.583													0.472	0.51	0.56	0.393	0.292	0.375	0	0.412									
77	092	5	19	27	Fence																							0.577	0.539	0.5	0.577	0.585	0.593	0.569	0.451	0.412	0									
78	096	6	20	28	East Extension Hill								0.59	0.591															0.546	0.583	0.5	0.467		0.581	0.581			0	0.268	0.368	0.471	0.526				
79	100	6	20	28	Yandhanoo Hill									0.575		0.592								0.561				0.575	0.532	0.569	0.532	0.5		0.565	0.565			0.268	0	0.415	0.405	0.366				
80	097	6	20	28	East Extension Hill																							0.591		0.583	0.546	0.511			0.535			0.368	0.415	0	0.294	0.421				
81	098	6	20	28	Yandhanoo Hill																									0.591		0.561						0.471	0.405	0.294	0	0.471				
82	099	6	20	29	Yandhanoo Hill																							0.546	0.591		0.591	0.556						0.526	0.366	0.421	0.471	0				
83	061	7	21	30	Vermin Fence													0.588																									0	0.515	0.486	
84	086	7	21	31	Well (ruin) E																																						0.515	0	0.278	
85	087	7	21	31	Well (ruin) E																																						0.486	0.278	0	
86	080	8	22	32	SW Mt Singleton																																									0
87	081	8	23	33	SW Mt Singleton																																	0.529								
88	082	8	23	33	SW Mt Singleton																																									
89	066	9	24	34	Mt Singleton																																									
90	070	9	24	34	Mt Singleton																																									
91	067	9	24	34	Mt Singleton																																									
92	069	9	24	34	Mt Singleton																																									
93	068	9	24	34	Mt Singleton																																									
94	071	10	25	35	Mt Singleton																									0.593	0.56															
95	072	10	25	36	Mt Singleton																																									
96	073	10	25	36	Mt Singleton																						0.59																			
97	074	10	26	37	Mt Singleton																																									
98	075	10	26	37	Mt Singleton																			0.59					0.556	0.51	0.556				0.546		0.489									
99	076	10	26	37	Mt Singleton																																									
100	077	10	27	38	Mt Singleton																			0.55				0.522	0.565	0.56				0.556			0.583									
101	078	10	27	39	Coonigal Well																									0.547							0.529									
102	079	10	27	39	Coonigal Well																							0.575	0.447	0.569		0.583		0.478	0.435		0.51									
103	090	10	28	40	Well (ruin) E																			0.569		0.567		0.579	0.579					0.571	0.571		0.559									
104	091	10	28	40	Well (ruin) E																					0.544		0.593	0.593					0.547												

Association Matrix Site by Site (Values >

						SW Mt Singleton	SW Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Coonigal Well	Coonigal Well	Well (ruin) E	Well (ruin) E
				geo		8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
				gp10		23	23	24	24	24	24	24	25	25	25	26	26	26	27	27	27	28	28
				gp28		33	33	34	34	34	34	34	35	36	36	37	37	37	38	39	39	40	40
				gp40		15	11	14	14	13	13	14	25	13	21	15	20	14	21	24	22	32	29
				no_sp		3	3	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	1
				condition		81	82	66	70	67	69	68	71	72	73	74	75	76	77	78	79	90	91
ID	site	gp10	gp28	gp40	name	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
5	001	1	1	1	Extension Hill									0.563									
6	002	1	1	1	Extension Hill															0.571			
7	006	1	1	2	Extension Hill																		
8	004	1	2	3	Extension Hill										0.59								
9	008	1	2	3	Extension Hill																		
10	010	1	2	3	Extension Hill																		
11	011	1	2	3	Extension Hill																		
12	007	1	2	3	Extension Hill																		
13	009	1	2	3	Extension Hill																		
14	005	1	2	3	Extension Hill										0.579					0.512			
15	013	1	2	4	Extension Hill																		
16	028	1	2	4	Iron Hill North																		
17	014	1	2	4	Extension Hill									0.533	0.579		0.568			0.512			
18	029	1	2	4	Iron Hill North																		
19	021	1	2	4	Extension Hill							0.563											
20	026	1	2	4	Iron Hill North																		
21	027	1	2	4	Iron Hill North																		
22	030	1	2	4	Iron Hill North										0.59		0.579			0.571			
23	033	1	2	4	Iron Hill North																		
24	034	1	2	4	Iron Hill North															0.556			
25	012	1	3	5	Extension Hill																		
26	038	1	3	5	Iron Hill																		
27	039	1	3	5	Iron Hill																		
28	025	1	4	6	Iron Hill North																		
29	031	1	4	6	Iron Hill North																		
30	032	1	4	6	Iron Hill North																		
31	051	1	4	6	Mt Gibson North																		
32	052	1	4	6	Mt Gibson North																		
33	053	1	4	6	Mt Gibson North																		
34	049	1	4	7	Iron Hill East												0.579						
35	050	1	4	7	Mt Gibson North												0.591						
36	054	1	4	7	Mt Gibson North																		
37	003	1	5	8	Extension Hill																		
38	015	1	6	9	Extension Hill																		
39	024	1	7	10	Extension Hill																		
40	016	2	8	11	Extension Hill																		
41	017	2	8	11	Extension Hill																		
42	035	2	8	11	Iron Hill North																		
43	036	2	8	11	Iron Hill North																		
44	037	2	8	11	Iron Hill North																		
45	019	2	8	12	Extension Hill																		
46	020	2	8	12	Extension Hill																		
47	023	2	8	12	Extension Hill																		
48	018	2	8	13	Extension Hill																		
49	047	2	8	13	Iron Hill East																		
50	048	2	9	14	Iron Hill East																		
51	062	2	10	15	Vermin Fence																		
52	022	2	11	16	Extension Hill																		
53	040	2	11	16	Iron Hill																		
54	043	2	11	16	Iron Hill																		
55	041	2	11	16	Iron Hill																		
56	055	2	11	16	Mt Gibson North																		
57	056	2	11	16	Mt Gibson North																		
58	060	2	11	16	Mt Gibson South																		
59	057	2	11	16	Mt Gibson North																		
60	046	2	12	17	Iron Hill																		
61	045	2	13	18	Iron Hill																		

Association Matrix Site by Site (Values >

						SW Mt Singleton	SW Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Mt Singleton	Coonigal Well	Coonigal Well	Well (ruin) E	Well (ruin) E
					geo	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
					gp10	23	23	24	24	24	24	24	25	25	25	26	26	26	27	27	27	28	28
					gp28	33	33	34	34	34	34	34	35	36	36	37	37	37	38	39	39	40	40
					gp40	15	11	14	14	13	13	14	25	13	21	15	20	14	21	24	22	32	29
					no_sp	3	3	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	1
					condition	81	82	66	70	67	69	68	71	72	73	74	75	76	77	78	79	90	91
ID	site	gp10	gp28	gp40	name	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
62	042	3	14	19	Iron Hill																		
63	044	3	14	19	Iron Hill																		
64	058	3	15	20	Mt Gibson South												0.59		0.55			0.569	
65	059	3	15	20	Mt Gibson South																		
66	088	4	16	21	Well (ruin) E																	0.567	0.544
67	089	4	17	22	Well (ruin) E										0.59								
68	063	5	18	23	Taylor Well														0.522		0.575	0.579	0.593
69	064	5	18	23	Taylor Well												0.556		0.565		0.447	0.579	0.593
70	083	5	18	24	East GNH								0.593				0.51		0.56	0.547	0.569		
71	084	5	18	24	East GNH								0.56				0.556						
72	085	5	18	24	East GNH																0.583		
73	065	5	19	25	East GNH																		
74	093	5	19	26	East Extension Hill														0.556		0.478	0.571	0.547
75	094	5	19	26	East Extension Hill												0.546				0.435	0.571	
76	095	5	19	26	East Extension Hill																		
77	092	5	19	27	Fence												0.489		0.583	0.529	0.51	0.559	
78	096	6	20	28	East Extension Hill	0.529																	
79	100	6	20	28	Yandhanoo Hill																		
80	097	6	20	28	East Extension Hill																		
81	098	6	20	28	Yandhanoo Hill																		
82	099	6	20	29	Yandhanoo Hill																		
83	061	7	21	30	Vermin Fence																		
84	086	7	21	31	Well (ruin) E																		
85	087	7	21	31	Well (ruin) E																		
86	080	8	22	32	SW Mt Singleton																		
87	081	8	23	33	SW Mt Singleton	0	0.308																
88	082	8	23	33	SW Mt Singleton	0.308	0																
89	066	9	24	34	Mt Singleton			0	0.214	0.259	0.333	0.286			0.543	0.586	0.529	0.571					
90	070	9	24	34	Mt Singleton			0.214	0	0.259	0.333	0.429				0.586							
91	067	9	24	34	Mt Singleton			0.259	0.259	0	0.231	0.407				0.571	0.576						
92	069	9	24	34	Mt Singleton			0.333	0.333	0.231	0	0.407	0.579			0.5							
93	068	9	24	34	Mt Singleton			0.286	0.429	0.407	0.407	0		0.556	0.543	0.517	0.588	0.5					
94	071	10	25	35	Mt Singleton						0.579		0	0.526	0.478	0.45	0.422		0.522	0.469	0.575		
95	072	10	25	36	Mt Singleton							0.556	0.526	0	0.412	0.571	0.576	0.556		0.568			
96	073	10	25	36	Mt Singleton			0.543				0.543	0.478	0.412	0	0.556	0.463	0.486		0.422	0.581		
97	074	10	26	37	Mt Singleton			0.586	0.586	0.571	0.5	0.517	0.45	0.571	0.556	0	0.371	0.379		0.539	0.568		
98	075	10	26	37	Mt Singleton			0.529		0.576		0.588	0.422	0.576	0.463	0.371	0	0.471	0.463	0.409	0.476	0.577	
99	076	10	26	37	Mt Singleton			0.571				0.5		0.556	0.486	0.379	0.471	0		0.526			
100	077	10	27	38	Mt Singleton								0.522				0.463		0	0.511	0.488		
101	078	10	27	39	Coonigal Well								0.469	0.568	0.422	0.539	0.409	0.526	0.511	0	0.435	0.5	
102	079	10	27	39	Coonigal Well								0.575		0.581	0.568	0.476		0.488	0.435	0	0.519	0.529
103	090	10	28	40	Well (ruin) E												0.577			0.5	0.519	0	0.377
104	091	10	28	40	Well (ruin) E																0.529	0.377	0

Average similarity of sites in groups (lowest values are most similar)
highlighted cells are within group averages

gp10	1	2	3	4	5	6	7	8	9	10
1	0.44	0.56	0.69	0.79	0.74	0.81	0.76	0.91	0.77	0.74
2	0.56	0.48	0.74	0.81	0.76	0.77	0.71	0.90	0.81	0.77
3	0.69	0.74	0.39	0.72	0.66	0.76	0.84	0.83	0.82	0.74
4	0.79	0.81	0.72	0.28	0.72	0.78	0.87	0.81	0.88	0.72
5	0.74	0.76	0.66	0.72	0.42	0.62	0.77	0.81	0.83	0.66
6	0.81	0.77	0.76	0.78	0.62	0.32	0.73	0.73	0.84	0.79
7	0.76	0.71	0.84	0.87	0.77	0.73	0.28	0.90	0.83	0.82
8	0.91	0.90	0.83	0.81	0.81	0.73	0.90	0.36	0.89	0.82
9	0.77	0.81	0.82	0.88	0.83	0.84	0.83	0.89	0.25	0.70
10	0.74	0.77	0.74	0.72	0.66	0.79	0.82	0.82	0.70	0.51

Average similarity of sites in groups (lowest values are most similar)
highlighted cells are within group averages (0.00 for only one site)

gp10	gp28	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	1	0.30	0.48	0.58	0.60	0.62	0.59	0.67	0.62	0.60	0.83	0.63	0.78	0.62	0.70	0.73	0.73	0.67	0.71	0.71	0.77	0.78	0.91	0.88	0.76	0.68	0.71	0.74	0.70
1	2	0.48	0.31	0.43	0.46	0.51	0.54	0.52	0.48	0.52	0.72	0.51	0.69	0.53	0.64	0.71	0.82	0.72	0.72	0.72	0.79	0.74	0.95	0.89	0.75	0.69	0.71	0.73	0.77
1	3	0.58	0.43	0.23	0.47	0.59	0.57	0.56	0.57	0.53	0.76	0.54	0.67	0.57	0.70	0.74	0.92	0.82	0.78	0.79	0.84	0.78	0.92	0.95	0.87	0.83	0.84	0.83	0.84
1	4	0.60	0.46	0.47	0.33	0.62	0.63	0.61	0.57	0.64	0.83	0.50	0.70	0.58	0.62	0.67	0.85	0.74	0.71	0.75	0.83	0.79	0.96	0.90	0.76	0.73	0.73	0.76	0.81
1	5	0.62	0.51	0.59	0.62	0.00	0.61	0.67	0.74	0.69	0.91	0.68	0.76	0.78	0.76	0.78	0.90	0.88	0.85	0.77	0.92	0.91	1.00	0.93	0.75	0.78	0.76	0.84	0.82
1	6	0.59	0.54	0.57	0.63	0.61	0.00	0.58	0.65	0.71	0.85	0.62	0.68	0.70	0.72	0.75	0.87	0.71	0.84	0.86	0.93	0.81	0.85	0.97	0.87	0.74	0.78	0.83	0.81
1	7	0.67	0.52	0.56	0.61	0.67	0.58	0.00	0.53	0.59	0.68	0.58	0.72	0.74	0.82	0.91	0.91	0.82	0.84	0.83	0.86	0.70	0.92	0.97	0.68	0.66	0.73	0.79	0.78
2	8	0.62	0.48	0.57	0.57	0.74	0.65	0.53	0.36	0.52	0.62	0.51	0.68	0.63	0.73	0.81	0.84	0.81	0.79	0.75	0.79	0.71	0.92	0.91	0.80	0.77	0.77	0.77	0.78
2	9	0.60	0.52	0.53	0.64	0.69	0.71	0.59	0.52	0.00	0.56	0.58	0.69	0.56	0.71	0.81	0.83	0.72	0.72	0.78	0.73	0.77	0.93	0.94	0.81	0.77	0.80	0.84	0.86
2	10	0.83	0.72	0.76	0.83	0.91	0.85	0.68	0.62	0.56	0.00	0.74	0.72	0.88	0.94	0.93	0.89	0.78	0.88	0.88	0.79	0.75	0.89	0.87	0.95	0.84	0.86	0.92	0.90
2	11	0.63	0.51	0.54	0.50	0.68	0.62	0.58	0.51	0.58	0.74	0.33	0.50	0.56	0.61	0.78	0.83	0.78	0.75	0.72	0.74	0.68	0.89	0.88	0.79	0.76	0.74	0.77	0.78
2	12	0.78	0.69	0.67	0.70	0.76	0.68	0.72	0.68	0.69	0.72	0.50	0.00	0.68	0.59	0.62	0.75	0.82	0.74	0.76	0.76	0.78	0.84	0.88	0.88	0.83	0.77	0.77	0.70
2	13	0.62	0.53	0.57	0.58	0.78	0.70	0.74	0.63	0.56	0.88	0.56	0.68	0.00	0.66	0.78	0.80	0.80	0.68	0.68	0.76	0.77	0.94	0.92	0.83	0.80	0.75	0.68	0.74
3	14	0.70	0.64	0.70	0.62	0.76	0.72	0.82	0.73	0.71	0.94	0.61	0.59	0.66	0.23	0.59	0.69	0.66	0.63	0.69	0.77	0.75	0.85	0.81	0.80	0.78	0.75	0.71	0.66
3	15	0.73	0.71	0.74	0.67	0.78	0.75	0.91	0.81	0.81	0.93	0.78	0.62	0.78	0.59	0.17	0.78	0.72	0.58	0.74	0.75	0.92	0.79	0.84	0.83	0.77	0.77	0.70	0.70
4	16	0.73	0.82	0.92	0.85	0.90	0.87	0.91	0.84	0.83	0.89	0.83	0.75	0.80	0.69	0.78	0.00	0.57	0.71	0.70	0.80	0.88	0.84	0.81	0.89	0.77	0.82	0.76	0.56
4	17	0.67	0.72	0.82	0.74	0.88	0.71	0.82	0.81	0.72	0.78	0.78	0.82	0.80	0.66	0.72	0.57	0.00	0.70	0.76	0.76	0.85	0.86	0.78	0.86	0.63	0.79	0.72	0.63
5	18	0.71	0.72	0.78	0.71	0.85	0.84	0.84	0.79	0.72	0.88	0.75	0.74	0.68	0.63	0.58	0.71	0.70	0.30	0.52	0.58	0.75	0.84	0.81	0.84	0.73	0.67	0.59	0.64
5	19	0.71	0.72	0.79	0.75	0.77	0.86	0.83	0.75	0.78	0.88	0.72	0.76	0.68	0.69	0.74	0.70	0.76	0.52	0.35	0.66	0.79	0.81	0.80	0.82	0.74	0.68	0.60	0.64
6	20	0.77	0.79	0.84	0.83	0.92	0.93	0.86	0.79	0.73	0.79	0.74	0.76	0.76	0.77	0.75	0.80	0.76	0.58	0.66	0.32	0.73	0.75	0.72	0.84	0.82	0.78	0.77	0.80
7	21	0.78	0.74	0.78	0.79	0.91	0.81	0.70	0.71	0.77	0.75	0.68	0.78	0.77	0.75	0.92	0.88	0.85	0.75	0.79	0.73	0.28	0.90	0.90	0.83	0.83	0.79	0.82	0.83
8	22	0.91	0.95	0.92	0.96	1.00	0.85	0.92	0.92	0.93	0.89	0.89	0.84	0.94	0.85	0.79	0.84	0.86	0.84	0.81	0.75	0.90	0.00	0.66	0.97	0.86	0.92	0.90	0.85
8	23	0.88	0.89	0.95	0.90	0.93	0.97	0.97	0.91	0.94	0.87	0.88	0.88	0.92	0.81	0.84	0.81	0.78	0.81	0.80	0.72	0.90	0.66	0.15	0.86	0.79	0.82	0.76	0.76
9	24	0.76	0.75	0.87	0.76	0.75	0.87	0.68	0.80	0.81	0.95	0.79	0.88	0.83	0.80	0.83	0.89	0.86	0.84	0.82	0.84	0.83	0.97	0.86	0.25	0.66	0.58	0.79	0.79
10	25	0.68	0.69	0.83	0.73	0.78	0.74	0.66	0.77	0.77	0.84	0.76	0.83	0.80	0.78	0.77	0.77	0.63	0.73	0.74	0.82	0.83	0.86	0.79	0.66	0.31	0.52	0.58	0.68
10	26	0.71	0.71	0.84	0.73	0.76	0.78	0.73	0.77	0.80	0.86	0.74	0.77	0.75	0.75	0.77	0.82	0.79	0.67	0.68	0.78	0.79	0.92	0.82	0.58	0.52	0.27	0.56	0.65
10	27	0.74	0.73	0.83	0.76	0.84	0.83	0.79	0.77	0.84	0.92	0.77	0.77	0.68	0.71	0.70	0.76	0.72	0.59	0.60	0.77	0.82	0.90	0.76	0.79	0.58	0.56	0.32	0.57
10	28	0.70	0.77	0.84	0.81	0.82	0.81	0.78	0.78	0.86	0.90	0.78	0.70	0.74	0.66	0.70	0.56	0.63	0.64	0.64	0.80	0.83	0.85	0.76	0.79	0.68	0.65	0.57	0.19

Average similarity of sites in groups (lowest values are most similar)
highlighted cells are within group averages (0.00 for only one site)

gp10	gp28	gp40	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	1	1	0.18	0.51	0.42	0.45	0.58	0.58	0.58	0.63	0.58	0.62	0.58	0.57	0.52	0.59	0.82	0.61	0.80	0.61	0.70	0.74	0.74	0.64	0.77	0.65	0.78	0.70	0.69	0.75	0.81	0.74	0.78	0.93	0.88	0.75	0.68	0.62	0.67	0.82	0.66	0.69
1	1	2	0.51	0.00	0.53	0.59	0.57	0.67	0.62	0.59	0.62	0.78	0.74	0.69	0.72	0.63	0.86	0.66	0.74	0.63	0.68	0.71	0.71	0.74	0.73	0.73	0.73	0.71	0.57	0.78	0.79	0.78	0.84	0.87	0.88	0.80	0.82	0.76	0.80	0.85	0.74	0.72
1	2	3	0.42	0.53	0.23	0.37	0.42	0.53	0.44	0.55	0.46	0.52	0.53	0.49	0.52	0.48	0.67	0.55	0.68	0.56	0.67	0.70	0.81	0.68	0.78	0.65	0.79	0.76	0.73	0.78	0.83	0.70	0.74	0.94	0.89	0.79	0.71	0.67	0.72	0.79	0.73	0.80
1	2	4	0.45	0.59	0.37	0.25	0.44	0.43	0.43	0.49	0.59	0.52	0.43	0.48	0.52	0.55	0.75	0.47	0.69	0.51	0.63	0.72	0.83	0.75	0.78	0.71	0.78	0.67	0.68	0.78	0.83	0.74	0.74	0.96	0.88	0.73	0.74	0.67	0.70	0.81	0.67	0.75
1	3	5	0.58	0.57	0.42	0.44	0.23	0.48	0.46	0.59	0.57	0.56	0.55	0.57	0.64	0.53	0.76	0.54	0.67	0.57	0.70	0.74	0.92	0.82	0.75	0.80	0.76	0.79	0.80	0.84	0.83	0.77	0.78	0.92	0.95	0.87	0.85	0.82	0.84	0.84	0.82	0.84
1	4	6	0.58	0.67	0.53	0.43	0.48	0.28	0.41	0.63	0.66	0.61	0.53	0.61	0.61	0.62	0.84	0.52	0.76	0.60	0.63	0.68	0.84	0.74	0.74	0.71	0.83	0.75	0.75	0.84	0.86	0.84	0.82	0.98	0.91	0.76	0.77	0.73	0.75	0.84	0.74	0.81
1	4	7	0.58	0.62	0.44	0.43	0.46	0.41	0.18	0.59	0.57	0.60	0.55	0.58	0.66	0.69	0.81	0.46	0.58	0.54	0.60	0.66	0.85	0.73	0.70	0.69	0.79	0.71	0.63	0.78	0.84	0.72	0.72	0.92	0.88	0.78	0.76	0.70	0.68	0.77	0.71	0.80
1	5	8	0.63	0.59	0.55	0.49	0.59	0.63	0.59	0.00	0.61	0.67	0.75	0.75	0.72	0.69	0.91	0.68	0.76	0.78	0.76	0.78	0.90	0.88	0.85	0.85	0.78	0.79	0.71	0.91	0.94	0.87	0.94	1.00	0.93	0.75	0.79	0.77	0.76	0.94	0.78	0.82
1	6	9	0.58	0.62	0.46	0.59	0.57	0.66	0.57	0.61	0.00	0.58	0.68	0.57	0.70	0.71	0.85	0.62	0.68	0.70	0.72	0.75	0.87	0.71	0.86	0.83	0.84	0.89	0.82	0.93	0.94	0.82	0.80	0.85	0.97	0.87	0.76	0.74	0.78	0.84	0.83	0.81
1	7	10	0.62	0.78	0.52	0.52	0.56	0.61	0.60	0.67	0.58	0.00	0.48	0.56	0.59	0.59	0.68	0.58	0.72	0.74	0.82	0.91	0.91	0.82	0.88	0.81	0.92	0.82	0.77	0.86	0.89	0.63	0.73	0.92	0.97	0.68	0.71	0.64	0.73	0.89	0.74	0.78
2	8	11	0.58	0.74	0.53	0.43	0.55	0.53	0.55	0.75	0.68	0.48	0.27	0.42	0.43	0.53	0.64	0.52	0.72	0.60	0.76	0.82	0.87	0.84	0.85	0.77	0.81	0.71	0.75	0.80	0.85	0.69	0.72	0.93	0.93	0.77	0.80	0.74	0.77	0.85	0.73	0.78
2	8	12	0.57	0.69	0.49	0.48	0.57	0.61	0.58	0.75	0.57	0.56	0.42	0.22	0.47	0.53	0.59	0.48	0.58	0.66	0.67	0.78	0.81	0.78	0.79	0.75	0.77	0.71	0.78	0.74	0.81	0.72	0.63	0.87	0.84	0.80	0.79	0.71	0.75	0.82	0.72	0.73
2	8	13	0.52	0.72	0.52	0.52	0.64	0.61	0.66	0.72	0.70	0.59	0.43	0.47	0.18	0.49	0.63	0.55	0.72	0.67	0.75	0.85	0.84	0.79	0.88	0.77	0.88	0.78	0.82	0.80	0.86	0.75	0.80	0.97	0.97	0.85	0.86	0.79	0.83	0.90	0.74	0.83
2	9	14	0.59	0.63	0.48	0.55	0.53	0.62	0.69	0.69	0.71	0.59	0.53	0.53	0.49	0.00	0.56	0.58	0.69	0.56	0.71	0.81	0.83	0.72	0.74	0.70	0.76	0.78	0.82	0.74	0.68	0.71	0.80	0.93	0.94	0.81	0.77	0.77	0.80	0.90	0.80	0.86
2	10	15	0.82	0.86	0.67	0.75	0.76	0.84	0.81	0.91	0.85	0.68	0.64	0.59	0.63	0.56	0.00	0.74	0.72	0.88	0.94	0.93	0.89	0.78	0.94	0.83	0.90	0.86	0.94	0.79	0.79	0.84	0.70	0.89	0.87	0.95	0.82	0.84	0.86	1.00	0.87	0.90
2	11	16	0.61	0.66	0.55	0.47	0.54	0.52	0.46	0.68	0.62	0.58	0.52	0.48	0.55	0.58	0.74	0.33	0.50	0.56	0.61	0.78	0.83	0.78	0.73	0.77	0.79	0.71	0.70	0.72	0.81	0.71	0.67	0.89	0.88	0.79	0.81	0.74	0.74	0.81	0.75	0.78
2	12	17	0.80	0.74	0.68	0.69	0.67	0.76	0.58	0.76	0.68	0.72	0.72	0.58	0.72	0.69	0.72	0.50	0.00	0.68	0.59	0.62	0.75	0.82	0.65	0.79	0.83	0.74	0.78	0.75	0.78	0.81	0.76	0.84	0.88	0.88	0.81	0.84	0.77	0.75	0.78	0.70
2	13	18	0.61	0.63	0.56	0.51	0.57	0.60	0.54	0.78	0.70	0.74	0.60	0.66	0.67	0.56	0.88	0.56	0.68	0.00	0.66	0.78	0.80	0.80	0.69	0.68	0.75	0.69	0.60	0.76	0.76	0.74	0.78	0.94	0.92	0.83	0.83	0.78	0.75	0.73	0.65	0.74
3	14	19	0.70	0.68	0.67	0.63	0.70	0.63	0.60	0.76	0.72	0.82	0.76	0.67	0.75	0.71	0.94	0.61	0.59	0.66	0.23	0.59	0.69	0.66	0.55	0.67	0.75	0.66	0.73	0.76	0.77	0.80	0.73	0.85	0.81	0.80	0.75	0.79	0.75	0.67	0.73	0.66
3	15	20	0.74	0.71	0.70	0.72	0.74	0.68	0.66	0.78	0.75	0.91	0.82	0.78	0.85	0.81	0.93	0.78	0.62	0.78	0.59	0.17	0.78	0.72	0.55	0.60	0.72	0.73	0.76	0.75	0.79	0.91	0.93	0.79	0.84	0.83	0.75	0.78	0.77	0.67	0.72	0.70
4	16	21	0.74	0.71	0.81	0.83	0.92	0.84	0.85	0.90	0.87	0.91	0.87	0.81	0.84	0.83	0.89	0.83	0.75	0.80	0.69	0.78	0.00	0.57	0.74	0.70	0.70	0.69	0.75	0.81	0.79	0.91	0.87	0.84	0.81	0.89	0.81	0.76	0.82	0.80	0.75	0.56
4	17	22	0.64	0.74	0.68	0.75	0.82	0.74	0.73	0.88	0.71	0.82	0.84	0.78	0.79	0.72	0.78	0.78	0.82	0.80	0.66	0.72	0.57	0.00	0.72	0.69	0.80	0.75	0.78	0.74	0.84	0.88	0.83	0.86	0.78	0.86	0.63	0.63	0.79	0.74	0.71	0.63
5	18	23	0.77	0.73	0.78	0.78	0.75	0.74	0.70	0.85	0.86	0.88	0.85	0.79	0.88	0.74	0.94	0.73	0.65	0.69	0.55	0.55	0.74	0.72	0.12	0.44	0.49	0.53	0.56	0.62	0.57	0.78	0.74	0.83	0.79	0.83	0.68	0.80	0.65	0.54	0.60	0.59
5	18	24	0.65	0.73	0.65	0.71	0.80	0.71	0.69	0.85	0.83	0.81	0.77	0.75	0.77	0.70	0.83	0.77	0.79	0.68	0.67	0.60	0.70	0.69	0.44	0.17	0.57	0.47	0.55	0.55	0.59	0.74	0.76	0.86	0.82	0.84	0.60	0.76	0.68	0.60	0.60	0.67
5	19	25	0.78	0.73	0.79	0.78	0.76	0.83	0.79	0.78	0.84	0.92	0.81	0.77	0.88	0.76	0.90	0.79	0.83	0.75	0.75	0.72	0.70	0.80	0.49	0.57	0.00	0.46	0.59	0.67	0.69	0.92	0.84	0.76	0.85	0.93	0.75	0.88	0.78	0.62	0.69	0.73
5	19	26	0.70	0.71	0.76	0.67	0.79	0.75	0.71	0.79	0.89	0.82	0.71	0.71	0.78	0.78	0.86	0.71	0.74	0.69	0.66	0.73	0.69	0.75	0.53	0.47	0.46	0.21	0.48	0.63	0.71	0.82	0.76	0.80	0.78	0.82	0.73	0.75	0.68	0.61	0.58	0.63
5	19	27	0.69	0.57	0.73	0.68	0.80	0.75	0.63	0.71	0.82	0.77	0.75	0.78	0.82	0.82	0.94	0.70	0.78	0.60	0.73	0.76	0.75	0.78	0.56	0.55	0.59	0.48	0.00	0.71	0.74	0.72	0.73	0.89	0.83	0.72	0.65	0.66	0.59	0.58	0.52	0.58
6	20	28	0.75	0.78	0.78	0.78	0.84	0.84	0.78	0.91	0.93	0.86	0.80	0.74	0.80	0.74	0.79	0.72	0.75	0.76	0.76	0.75	0.81	0.74	0.62	0.55	0.67	0.63	0.71	0.28	0.45	0.78	0.70	0.72	0.71	0.82	0.80	0.83	0.78	0.74	0.78	0.80
6	20	29	0.81	0.79	0.83	0.83	0.83	0.86	0.84	0.94	0.94	0.89	0.85	0.81	0.86	0.68	0.79	0.81	0.78	0.76	0.77	0.79	0.79	0.84	0.57	0.59	0.69	0.71	0.74	0.45	0.00	0.83	0.73	0.86	0.78	0.89	0.82	0.86	0.79	0.75	0.83	0.82
7	21	30	0.74	0.78	0.70	0.74	0.77	0.84	0.72	0.87	0.82	0.63	0.69	0.72	0.75	0.71	0.84	0.71	0.81	0.74	0.80	0.91	0.91	0.88	0.78	0.74	0.92	0.82	0.72	0.78	0.83	0.00	0.50	0.85	0.90	0.81	0.80	0.85	0.82	0.84	0.82	0.85
7	21	31	0.78	0.84	0.74	0.74	0.78	0.82	0.72	0.94	0.80	0.73	0.72	0.63	0.80	0.80	0.70	0.67	0.76	0.78	0.73	0.93	0.87	0.83	0.74	0.76	0.84	0.76	0.73	0.70	0.73	0.50	0.14	0.93	0.91	0.84	0.84	0.83	0.78	0.85	0.80	0.81
8	22	32	0.93	0.87	0.94	0.96	0.92	0.98	0.92	1.00	0.85	0.92	0.93	0.87	0.97	0.93	0.89	0.89	0.84	0.94	0.85	0.79	0.84	0.86	0.83	0.86	0.76	0.80	0.89	0.72	0.86	0.85	0.93	0.00	0.66	0.97	0.89	0.85	0.92	0.87	0.91	0.85
8	23	33	0.88	0.88	0.89	0.88	0.95	0.91	0.88	0.93	0.97	0.97	0.93	0.84	0.97	0.94	0.87	0.88	0.88	0.92	0.81	0.84	0.81	0.78	0.79	0.82	0.85	0.78	0.83	0.71	0.78	0.90	0.91	0.66	0.15	0.86	0.82	0.77	0.82	0.70	0.79	0.76
9	24	34	0.75	0.80	0.79	0.73	0.87	0.76	0.78	0.75	0.87	0.68	0.77	0.80	0.85	0.81	0.95	0.79	0.88	0.83	0.80	0.83	0.89	0.86	0.83	0.84	0.93	0.82	0.72	0.82	0.89	0.81	0.84	0.97	0.86	0.25	0.68	0.64	0.58	0.81	0.77	0.79
10	25	35	0.68	0.82	0.71	0.74	0.85	0.77	0.76	0.79	0.76	0.71	0.80	0.79	0.86	0.77	0.82	0.81	0.81	0.83	0.75	0.75	0.81	0.63	0.68	0.60	0.75	0.73	0.65	0.80	0.82	0.80	0.84	0.89	0.82	0.68	0.00	0.50	0.50	0.52	0.52	0.66
10	25	36	0.62	0.76	0.67	0.67	0.82	0.73	0.70	0.77	0.74	0.64	0.74	0.71	0.79	0.77	0.84	0.74	0.84	0.78	0.79	0.78	0.76	0.63	0.80	0.76	0.88	0.75	0.66	0.83	0.86	0.85	0.83	0.85	0.77	0.64	0.50	0.21	0.53	0.69	0.56	0.70
10	26	37	0.67	0.80	0.72	0.70	0.84	0.75	0.68	0.76	0.78	0.73	0.77	0.75	0.83	0.80	0.86	0.74	0.77	0.75	0.75	0.77	0.82	0.79	0.65	0.68	0.78	0.68	0.59	0.78	0.79	0.82	0.78	0.92	0.82	0.58	0.50	0.53	0.27	0.61	0.53	0.65
10	27	38	0.82	0.85	0.79	0.81	0.84	0.84	0.77	0.94	0.84	0.89	0.85	0.82	0.90	0.90	1.00	0.81	0.75	0.73	0.67	0.67	0.80	0.74	0.54	0.60	0.62	0.61	0.58	0.74	0.75	0.84	0.85	0.87	0.70	0.81	0.52	0.69	0.61	0.00	0.50	0.61
10	27	39	0.66	0.74	0.73	0.67	0.82	0.74	0.71	0.78	0.83	0.74	0.73	0.72	0.74	0.80	0.87	0.75	0.78	0.65	0.73	0.72	0.75	0.71	0.60	0.60	0.69	0.58	0.52	0.78	0.83	0.82	0.80	0.91	0.79	0.77	0.52	0.56	0.53	0.50	0.22	0.54
10	28	40	0.69	0.72	0.80	0.75	0.84	0.81	0.80	0.82	0.81	0.78	0.78	0.73	0.83	0.86	0.90	0.78	0.70	0.74	0.66	0.70	0.56	0.63	0.59	0.67	0.73	0.63	0.58	0.80	0.82	0.85	0.81	0.85	0.76	0.79	0.66	0.70	0.65	0.61	0.54	0.19

					Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1
				geo										
				gp10	1	1	1	1	1	1	1	1	1	1
				gp28	1	1	1	2	2	2	2	2	2	2
				gp40	1	1	2	3	3	3	3	3	3	3
				no_sp	20	18	20	18	19	20	20	15	17	17
				condition	0	0	0	0	0	0	0	0	0	0
ID	NAME	gp20	gp80	dendrogram	1	2	6	4	8	10	11	7	9	5
5	Thelymitra ? petrophila	1	1											
6	Lepidosperma costale	1	2											
7	Borya sphaerocephala	1	3											
8	Drosera andersoniana	1	3											
9	Thryptomene costata	1	3											
10	Diuris porrifolia	1	3											
11	Cryptandra connata	1	3											
12	Arthropodium curvipes	1	4											
13	Caladenia latifolia	1	5											
14	Ptilotus ? helipteroides	2	6											
15	Thysanotus multiflorus	2	7											
16	Calothamnus gilesii	2	7											
17	Dianella revoluta	2	8											
18	Aristida contorta	2	9											
19	Acacia acuminata	2	9											
20	Podolepis canescens	2	10											
21	Waitzia suaveolens var. suaveolens	2	10											
22	Schoenus nanus	2	11											
23	Daucus glochidiatus	2	11											
24	Hydrocotyle pilifera var. glabrata	2	11											
25	Hypoxis occidentalis var. occidentalis	2	11											
26	Calotis hispidula	2	12											
27	Senecio glossanthus	2	13											
28	Drosera macrantha	2	14		1	1								1
29	Stylidium confluens	2	15		1	1	1				1			
30	Acacia acanthoclada	2	16											1
31	Eucalyptus leptopoda subsp. leptopoda	2	17											
32	Acacia oswaldii	2	18											
33	Hypochaeris glabra	2	18											
34	Melaleuca uncinata	2	19											
35	Pentaschistis airoides subsp. airoides	3	20											
36	Cuscuta epithymum	3	20											
37	Solanum lasiophyllum	3	20											
38	Erodium cygnorum	3	20											
39	Eremophila latrobei subsp. latrobei	3	20											
40	Podolepis lessonii	3	20											
41	Elymus scaber	3	21											
42	Acacia quadrimarginea	3	21											
43	Scaevola spinescens	3	21											
44	Nicotiana rotundifolia	3	21											
45	Santalum spicatum	3	22											
46	Brachyscome iberidifolia	3	22											
47	Hyalosperma cotula	3	22											
48	Rhodanthe charsleyae	3	22											
49	Calandrinia eremaea	3	23											
50	Crassula colorata var. colorata	3	23											
51	Rhodanthe polycephala	3	23											
52	Wurmbea densiflora	3	24											
53	Mirbelia microphylla	3	24										1	
54	Eremophila georgei	3	25											
55	Acacia ramulosa var. ramulosa	3	25											
56	Hakea preissii	3	26											
57	Acacia exocarpoides	3	26											
58	Ptilotus obovatus	3	27											
59	Acacia tetragonophylla	3	27											
60	Dodonaea inaequifolia	3	27										1	
61	Dichopogon capillipes	4	28											

					Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1
	geo													
	gp10				1	1	1	1	1	1	1	1	1	1
	gp28				1	1	1	2	2	2	2	2	2	2
	gp40				1	1	2	3	3	3	3	3	3	3
	no_sp				20	18	20	18	19	20	20	15	17	17
	condition				0	0	0	0	0	0	0	0	0	0
ID	NAME	gp20	gp80	dendrogram	1	2	6	4	8	10	11	7	9	5
62	Ptilotus drummondii	4	28											
63	Trifolium campestre	4	28											
64	Clematis linearifolia	4	28											
65	Eremophila serrulata	4	29											
66	Sonchus oleraceus	4	29											
67	Goodenia ? peacockiana	5	30											
68	Pimelea avonensis	5	30											
69	Glischrocaryon aureum	5	30											
70	Prostanthera magnifica	5	30											
71	Gastrolobium laytonii	5	31											
72	Hibbertia acerosa	5	32											
73	Acacia cerastes	5	32											
74	Psammomoya grandiflora	5	32											
75	Caladenia flaccida	5	33											
76	Callitris glaucophylla	6	34				1							
77	Chamaexeros macranthera	6	35				1							
78	Schoenia cassiniana	6	35				1							
79	Neurachne alopecuroidea	7	36											
80	Melaleuca leiocarpa	7	36											
81	Eucalyptus loxophleba subsp. supralaevis	7	36											
82	Calytrix leschenaultii	7	37											
83	Amphipogon caricinus var. caricinus	7	38											1
84	Dioscorea hastifolia	8	39		1									
85	Eucalyptus oldfieldii	8	40		1	1								
86	Enekbatus stowardii	8	40		1	1					1			
87	Thryptomene cuspidata	8	41			1								
88	Melaleuca fabri	8	41			1			1					
89	Alyxia buxifolia	8	42											
90	Hibbertia ancistrophylla	8	42								1			
91	Stenopetalum filifolium	9	43											
92	Acacia acuaria	9	43											
93	Brunonia australis	9	44											
94	Austrostipa elegantissima	9	45											
95	Brachychiton gregorii	10	46											
96	Sondottia connata	10	47											
97	Sida chrysocalyx	10	47											
98	Rulingia luteiflora	10	48											
99	Leptosema aphyllum	10	49											
100	Keraudrenia velutina subsp. velutina	10	49											
101	Hibbertia crassifolia	10	50											
102	Rhodanthe manglesii	10	51											
103	Eremophila forrestii subsp. forrestii	10	52											
104	Arthropodium dyeri	11	53											
105	Calotis multicaulis	11	53											
106	Bellida graminea	11	54											
107	Comesperma integerrimum	11	55											
108	Anagallis arvensis	11	55											
109	Rulingia kempeana	11	55											
110	Opercularia vaginata	11	56											
111	Hemigenia macphersonii	11	57		1					1				1
112	Cheilanthes sieberi subsp. sieberi	11	57											
113	Acacia stereophylla var. stereophylla	11	58						1	1				1
114	Cheiranthera filifolia var. simplicifolia	11	59											
115	Eremophila clarkei	11	60									1	1	
116	Goodenia pinnatifida	11	60											
117	Melaleuca nematophylla	11	60		1									
118	Velleia cycnopotamica	11	60											

					Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1
	geo													
	gp10				1	1	1	1	1	1	1	1	1	1
	gp28				1	1	1	2	2	2	2	2	2	2
	gp40				1	1	2	3	3	3	3	3	3	3
	no_sp				20	18	20	18	19	20	20	15	17	17
	condition				0	0	0	0	0	0	0	0	0	0
ID	NAME	gp20	gp80	dendrogram	1	2	6	4	8	10	11	7	9	5
119	Melaleuca cordata	12	61											
120	Olearia dampieri	12	61											
121	Glischrocaryon flavescens	13	62											
122	Philotheca thryptomenoides	13	62											
123	Austrostipa ? nodosa	14	63											
124	Helipterum craspedioides	14	64											
125	Rhodanthe laevis	14	64											
126	Goodenia corynocarpa	14	65											
127	Senna glutinosa subsp. x luerssenii	14	65											
128	Allocasuarina campestris	14	66											
129	Ptilotus gaudichaudii var. gaudichaudii	14	66											
130	Schoenia filifolia subsp. filifolia	14	66											
131	Arctotheca calendula	14	67											
132	Blennospora drummondii	14	67											
133	Grevillea extorris	15	68											
134	Prostanthera patens	15	68											
135	Cratystylis subspinescens	15	68											
136	Brachyscome pusilla	15	69											
137	Acacia coolgardiensis subsp. effusa	15	69											
138	Rhodanthe chlorocephala	15	69											
139	Mirbelia depressa	15	70											
140	Philotheca brucei subsp. brucei	15	70				1						1	
141	Lobelia winfridae	16	71											
142	Grevillea sarissa subsp. sarissa	16	71											
143	Hibbertia arcuata	16	71											
144	Codonocarpus cotinifolius	17	72											
145	Olearia humilis	17	72											
146	Sida excedentifolia	17	72											
147	Grevillea scabrida	18	73											
148	Zygophyllum ovatum	18	73											
149	Eremophila oppositifolia	18	73											
150	Acacia erinacea	18	73											
151	Acacia kochii	18	73											
152	Solanum nummularium	18	73											
153	Rhagodia drummondii	18	74											
154	Stackhousia muricata	18	74											
155	Eremophila oldfieldii	18	74				1							
156	Grevillea hakeoides subsp. stenophylla	18	74											
157	Senna charlesiana	18	74											
158	Maireana trichoptera	19	75											
159	Carrichtera annua	19	75											
160	Senna sp. Austin (A. Strid 20210)	19	75											
161	Senna stowardii	19	75											
162	Brassica tournefortii	19	75											
163	Acacia andrewsii	19	75											
164	Senna artemisioides subsp. artemisioides	19	75											
165	Melaleuca conothamnoides x nematophylla	20	76		1			1	1	1	1	1	1	
166	Acacia assimilis subsp. assimilis	20	76			1		1	1	1	1	1		1
167	Grevillea obliquistigma subsp. obliquistigma	20	76					1	1	1	1	1	1	
168	Philotheca sericea	20	76		1		1	1	1	1	1	1	1	1
169	Calycopeplus paucifolius	20	76		1	1	1	1	1	1	1		1	
170	Grevillea paradoxa	20	76		1	1	1	1	1	1	1		1	
171	Cheilanthes austrotenuifolia	20	76		1	1	1	1	1	1	1	1	1	1
172	Thysanotus patersonii	20	76		1	1		1	1	1	1	1		1
173	Trachymene ornata	20	76		1	1	1	1	1		1			1
174	Waitzia nitida	20	76		1	1	1	1	1	1		1	1	1
175	Lawrencella rosea	20	76			1		1					1	1

					Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1	Extension 1
				geo										
				gp10	1	1	1	1	1	1	1	1	1	1
				gp28	1	1	1	2	2	2	2	2	2	2
				gp40	1	1	2	3	3	3	3	3	3	3
				no_sp	20	18	20	18	19	20	20	15	17	17
				condition	0	0	0	0	0	0	0	0	0	0
ID	NAME	gp20	gp80	dendrogram	1	2	6	4	8	10	11	7	9	5
176	Allocasuarina acutivalvis subsp. prinsepiana	20	76	_____|__|___||_____|__	1	1	1	1	1	1	1	1	1	1
177	Micromyrtus racemosa var. prochytes	20	76	_____|_____	1			1	1	1	1	1		
178	Cassytha nodiflora	20	77	_____ |										
179	Xanthosia bungei	20	77	_____|_ |	1		1							
180	Darwinia masonii	20	77	_____|_____ |					1	1	1			
181	Hibbertia hypericoides	20	77	_____|____ |										
182	Melaleuca fulgens subsp. fulgens	20	77	_____|_____|_____										
183	Goodenia ? berardiana	20	78	_____ |		1		1	1	1	1	1	1	1
184	Velleia rosea	20	78	_____|_____ |	1		1	1	1	1	1	1	1	1
185	Leucopogon breviflorus	20	79	_____|__ |			1	1		1	1	1	1	1
186	Acacia aneura var. aneura	20	80	_____ | |	1	1	1	1	1	1	1	1	1	
187	Aluta aspera	20	80	_____|_____|_____|_____		1		1	1	1	1	1	1	1

	geo	Extension I	Iron Hill No	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Iron Hill	Iron Hill	Iron Hill No	Iron Hill No	Iron Hill No	Mt Gibson	Mt Gibson	Mt Gibson	Iron Hill Ea	Mt Gibson	Mt Gibson	Iron Hill	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill	Iron Hill	Mt Gibson	Iron Hill	Mt Gibson	Mt Gibson	Mt Gibson	Extension I	Iron Hill	Iron Hill Ea
	gp10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	gp28	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8	8	8	9	10	10	10	10	10	10	10	10	10	11	12
	gp40	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11	11	11	12	13	13	13	13	13	13	13	13	13	14	15
	no_sp	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21	22	18	16	18	25	24	18	20	27	24	32	19	27	11
	condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	1	2	3	2	1	2	1	1	1	1	2	2	1
ID	NAME	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19	20	23	24	21	43	41	60	40	55	56	57	22	46	47
5	Thelymitra ? petrophila																													1					1											
6	Lepidosperma costale																																													
7	Borya sphaerocephala																							1																						
8	Drosera andersoniana																												1						1											
9	Thryptomene costata																																													
10	Diuris porrifolia																																													
11	Cryptandra connata																																													
12	Arthropodium curvipes																		1							1				1					1											
13	Caladenia latifolia																																													
14	Ptilotus ? helipteroides																																													
15	Thysanotus multiflorus																																													
16	Calothamnus gilesii																																													
17	Dianella revoluta																																													
18	Aristida contorta																																				1									
19	Acacia acuminata																														1															
20	Podolepis canescens																																1		1				1							
21	Waitzia suaveolens var. suaveolens																																													
22	Schoenus nanus																																													
23	Daucus glochidiatus																																													
24	Hydrocotyle pilifera var. glabrata																																													
25	Hypoxis occidentalis var. occidentalis																																													
26	Calotis hispidula																																								1				1	
27	Senecio glossanthus																																													
28	Drosera macrantha			1	1			1										1																												
29	Stylidium confluens	1		1	1	1	1	1	1	1													1	1			1	1		1																
30	Acacia acanthoclada																											1					1													
31	Eucalyptus leptopoda subsp. leptopoda																																1													
32	Acacia oswaldii																																													
33	Hypochaeris glabra																																													
34	Melaleuca uncinata																																													
35	Pentaschistis airoides subsp. airoides																												1																	
36	Cuscuta epithymum																																													
37	Solanum lasiophyllum																																													
38	Erodium cygnorum																	1		1	1	1	1										1				1				1	1	1		1	
39	Eremophila latrobei subsp. latrobei																					1	1														1	1	1		1				1	
40	Podolepis lessonii									1								1	1		1																		1				1			
41	Elymus scaber																									1																				
42	Acacia quadrimarginea																																													
43	Scaevola spinescens																																													
44	Nicotiana rotundifolia																																													
45	Santalum spicatum																	1	1																											
46	Brachyscome iberidifolia																																													
47	Hyalosperma cotula																		1																											
48	Rhodanthe charsleyae																																												1	
49	Calandrinia eremaea																					1																			1					
50	Crassula colorata var. colorata														1	1		1	1			1																								
51	Rhodanthe polycephala																1	1	1			1																				1				
52	Wurmbea densiflora																														1	1														
53	Mirbelia microphylla																							1																						
54	Eremophila georgei																																													
55	Acacia ramulosa var. ramulosa																																													
56	Hakea preissii																																										1		1	
57	Acacia exocarpoides																																					1							1	
58	Ptilotus obovatus																															1								1	1	1	1		1	
59	Acacia tetragonophylla																																					1					1		1	
60	Dodonaea inaequifolia																								1							1	1					1					1		1	
61	Dichopogon capillipes																																													

		Extension I	Iron Hill No	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Iron Hill	Iron Hill	Iron Hill No	Iron Hill No	Iron Hill No	Mt Gibson	Mt Gibson	Mt Gibson	Iron Hill Ea	Mt Gibson	Mt Gibson	Iron Hill	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill	Iron Hill	Iron Hill	Mt Gibson	Iron Hill	Mt Gibson	Mt Gibson	Mt Gibson	Extension I	Iron Hill	Iron Hill Ea
	geo																																																	
	gp10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	gp28	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8	8	8	9	10	10	10	10	10	10	10	10	10	11	12
	gp40	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11	11	11	12	13	13	13	13	13	13	13	13	13	14	15
	no_sp	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21	22	18	16	18	25	24	18	20	27	24	32	19	27	11
	condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	1	2	3	2	1	2	1	1	1	1	2	2	1
ID	NAME	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19	20	23	24	21	43	41	60	40	55	56	57	22	46	47
62	Ptilotus drummondii																																																	
63	Trifolium campestre																																																	
64	Clematis linearifolia																																																
65	Eremophila serrulata																																																
66	Sonchus oleraceus																																																
67	Goodenia ? peacockiana																																										1							
68	Pimelea avonensis																	1																										1						
69	Glischrocaryon aureum																																										1						
70	Prostanthera magnifica																																								1		1					
71	Gastrolobium laytonii												1	1	1	1	1	1	1															1							1	1				
72	Hibbertia acerosa																1	1	1	1	1	1																											
73	Acacia cerastes																1	1			1																							1						
74	Psammomoya grandiflora																1				1																						1	1					
75	Caladenia flaccida																		1																															
76	Callitris glaucophylla																								1												1													1	
77	Chamaexeros macranthera																																																	
78	Schoenia cassiniana																																																
79	Neurachne alopecuroidea																																																
80	Melaleuca leiocarpa																								1																										
81	Eucalyptus loxophleba subsp. supralaevis																								1																										
82	Calytrix leschenaultii																							1																										
83	Amphipogon caricinus var. caricinus																							1	1																										
84	Dioscorea hastifolia																																																
85	Eucalyptus oldfieldii										1																																							
86	Enekbatus stowardii																											1						1																
87	Thryptomene cuspidata																																																
88	Melaleuca fabri																								1																										
89	Alyxia buxifolia										1																																							
90	Hibbertia ancistrophylla										1																																							
91	Stenopetalum filifolium																										1	1																							
92	Acacia acuaria																										1																							
93	Brunonia australis																						1				1										1												
94	Austrostipa elegantissima																											1																						
95	Brachychiton gregorii																																																
96	Sondottia connata																																																
97	Sida chrysocalyx																																																
98	Rulingia luteiflora												1										1																											
99	Leptosema aphyllum																	1																																
100	Keraudrenia velutina subsp. velutina																																																
101	Hibbertia crassifolia	1																																															
102	Rhodanthe manglesii																																																
103	Eremophila forrestii subsp. forrestii																																																
104	Arthropodium dyeri																												1																					
105	Calotis multicaulis																												1					1															
106	Bellida graminea																												1								1	1	1										
107	Comesperma integerrimum																																	1										1	1		
108	Anagallis arvensis																																	1										1				
109	Rulingia kempeana																																	1														
110	Opercularia vaginata																																																
111	Hemigenia macphersonii		1																	1						1	1	1	1	1	1	1	1															1
112	Cheilanthes sieberi subsp. sieberi																									1			1	1		1	1																
113	Acacia stereophylla var. stereophylla		1			1	1	1			1																			1	1																	
114	Cheiranthera filifolia var. simplicifolia																															1									1					1	
115	Eremophila clarkei																				1	1			1			1				1	1	1			1		1	1	1	1	1	1	1		
116	Goodenia pinnatifida																									1	1	1	1	1	1	1	1	1		1	1	1	1		1	1		1	1	1
117	Melaleuca nematophylla																									1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
118	Velleia cycnopotamica																															1	1	1		1	1	1	1	1	1			1	1		

		Extension I	Iron Hill No	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Iron Hill	Iron Hill	Iron Hill No	Iron Hill No	Iron Hill No	Mt Gibson	Mt Gibson	Mt Gibson	Iron Hill Ea	Mt Gibson	Mt Gibson	Iron Hill	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill	Iron Hill	Mt Gibson	Iron Hill	Mt Gibson	Mt Gibson	Mt Gibson	Extension I	Iron Hill	Iron Hill Ea
	geo																																																
	gp10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	gp28	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8	8	9	10	10	10	10	10	10	10	10	10	11	12
	gp40	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11	11	12	13	13	13	13	13	13	13	13	13	14	15
	no_sp	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21	22	18	16	18	25	24	18	20	27	24	32	19	27	11
	condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	1	2	3	2	1	2	1	1	1	1	2	2	1
ID	NAME	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19	20	23	24	21	43	41	60	40	55	56	57	22	46	47
119	Melaleuca cordata																												1																			
120	Olearia dampieri																												1																			
121	Glischrocaryon flavescens												1																																			
122	Philotheca thryptomenoides												1																																			
123	Austrostipa ? nodosa																																											1			
124	Helipterum craspedioides																																													
125	Rhodanthe laevis																																													
126	Goodenia corynocarpa																																												
127	Senna glutinosa subsp. x luerssenii																																												
128	Allocasuarina campestris																																												
129	Ptilotus gaudichaudii var. gaudichaudii																																												
130	Schoenia filifolia subsp. filifolia																																												
131	Arctotheca calendula																																												
132	Blennospora drummondii																																												
133	Grevillea extorris																																												
134	Prostanthera patens																						1																								
135	Cratystylis subspinescens																																											1	
136	Brachyscome pusilla																																												
137	Acacia coolgardiensis subsp. effusa																																												
138	Rhodanthe chlorocephala																																										1		
139	Mirbelia depressa																																						1		1	1	1			
140	Philotheca brucei subsp. brucei											1								1	1																	1				1		1				
141	Lobelia winfridae																																												
142	Grevillea sarissa subsp. sarissa																																												
143	Hibbertia arcuata																																												
144	Codonocarpus cotinifolius																						1																								
145	Olearia humilis																						1																								
146	Sida excedentifolia																						1																								
147	Grevillea scabrida																																												
148	Zygophyllum ovatum																																												
149	Eremophila oppositifolia																																												
150	Acacia erinacea																																												
151	Acacia kochii																																												
152	Solanum nummularium																																												
153	Rhagodia drummondii																																					1						1		
154	Stackhousia muricata																																												
155	Eremophila oldfieldii																																												
156	Grevillea hakeoides subsp. stenophylla																																												
157	Senna charlesiana																						1																								
158	Maireana trichoptera																																												
159	Carrichtera annua																																												
160	Senna sp. Austin (A. Strid 20210)																																												
161	Senna stowardii																																												
162	Brassica tournefortii																																												
163	Acacia andrewsii																																												
164	Senna artemisioides subsp. artemisioides																																											1	
165	Melaleuca conothamnoides x nematophylla	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1																						1
166	Acacia assimilis subsp. assimilis	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1		1	1	1	1		1	1	1	1	1	1	1							1		1			
167	Grevillea obliquistigma subsp. obliquistigma	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1
168	Philotheca sericea	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		
169	Calycopeplus paucifolius	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1					1				1			1	1	1	1	1	1	1	1	1	1	1	1
170	Grevillea paradoxa	1	1	1	1						1	1	1		1	1		1	1	1	1				1	1		1	1	1		1	1		1	1	1	1	1	1		1	1	1		1
171	Cheilanthes austrotenuifolia	1	1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1		1			1					1				1										
172	Thysanotus patersonii		1	1				1	1	1				1	1		1	1	1		1				1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1			1
173	Trachymene ornata	1		1		1	1	1	1	1		1	1		1	1	1	1	1				1					1	1	1	1	1	1	1		1	1	1		1	1	1	1			
174	Waitzia nitida	1	1	1				1		1	1	1	1		1			1		1	1	1	1		1																					
175	Lawrencella rosea	1	1	1	1	1	1	1	1	1			1					1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	geo	Extension I	Iron Hill No	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Iron Hill	Iron Hill	Iron Hill No	Iron Hill No	Iron Hill No	Mt Gibson	Mt Gibson	Mt Gibson	Iron Hill Ea	Mt Gibson	Mt Gibson	Iron Hill	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill No	Iron Hill No	Iron Hill No	Extension I	Extension I	Extension I	Extension I	Extension I	Iron Hill	Iron Hill	Mt Gibson	Iron Hill	Mt Gibson	Mt Gibson	Mt Gibson	Extension I	Iron Hill	Iron Hill Ea
	gp10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	gp28	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	5	6	7	8	8	8	8	8	8	8	8	8	9	10	10	10	10	10	10	10	10	10	11	12
	gp40	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	8	9	10	11	11	11	11	11	11	11	11	11	12	13	13	13	13	13	13	13	13	13	14	15
	no_sp	17	20	17	16	14	14	18	16	21	14	16	17	11	18	16	18	27	23	18	24	24	23	14	17	15	17	20	23	25	17	21	22	18	16	18	25	24	18	20	27	24	32	19	27	11
	condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	1	2	3	2	1	2	1	1	1	1	2	2	1
ID	NAME	13	28	14	29	26	27	30	33	34	12	38	39	25	31	32	51	52	53	49	50	54	45	3	15	16	17	18	35	36	37	19	20	23	24	21	43	41	60	40	55	56	57	22	46	47
176	Allocasuarina acutivalvis subsp. prinsepiana	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
177	Micromyrtus racemosa var. prochytes	1	1	1	1	1										1				1	1	1		1	1										1	1	1	1	1	1	1	1	1	1	1	
178	Cassytha nodiflora								1	1		1	1	1	1	1	1	1	1	1	1	1					1		1	1	1									1		1	1			
179	Xanthosia bungei		1		1			1	1	1				1	1	1	1	1	1	1	1	1	1						1	1	1						1	1	1	1	1	1	1			
180	Darwinia masonii		1	1	1					1		1	1		1		1	1	1	1	1	1	1						1	1								1	1	1	1	1	1	1	1	
181	Hibbertia hypericoides		1	1	1	1	1	1	1	1		1		1	1	1						1	1			1	1	1	1	1	1	1			1	1	1	1		1	1	1	1	1		
182	Melaleuca fulgens subsp. fulgens	1	1	1	1					1						1	1	1	1			1		1				1	1									1		1	1		1	1		1
183	Goodenia ? berardiana			1			1	1	1	1		1			1	1			1	1	1	1	1		1																					
184	Velleia rosea	1	1							1	1	1						1				1	1		1																					
185	Leucopogon breviflorus					1					1	1	1								1	1		1											1	1	1								1	
186	Acacia aneura var. aneura																						1					1									1			1			1			1
187	Aluta aspera	1	1				1	1	1	1																1	1	1	1	1	1	1	1			1	1	1		1						1

		Iron Hill Ea	Vermin Fer	Iron Hill	Iron Hill	Mt Gibson	Mt Gibson	Well (ruin)	Well (ruin)	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Exten	East Exten	East Exten	Extension I	East Exten	Yandhanoc	East Exten	Yandhanoc	Yandhanoc	Vermin Fer	Well (ruin)	Well (ruin)	SW Mt Sin	SW Mt Sin	SW Mt Sin	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Coonigal W	Coonigal W	Well (ruin)	Well (ruin)
	geo	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10
	gp10	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22	23	23	24	24	24	24	24	25	25	25	26	26	26	27	27	27
	gp28	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32	33	33	34	34	34	34	34	35	36	36	37	37	37	38	39	39
	no_sp	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10	15	11	14	14	13	13	14	25	13	21	15	20	14	21	24	22
	condition	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3	3	3	1	1	2	2	1	1	1	1	1	1	1	0	1	1
ID	NAME	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80	81	82	66	70	67	69	68	71	72	73	74	75	76	77	78	79	90	91
5	Thelymitra ? petrophila																														1	1			1		1	1				1			
6	Lepidosperma costale																														1	1													
7	Borya sphaerocephala																														1	1	1	1	1	1		1	1	1					1
8	Drosera andersoniana																														1	1	1	1	1										
9	Thryptomene costata																														1	1	1	1	1										
10	Diuris porrifolia																														1	1	1	1	1				1		1				
11	Cryptandra connata																				1	1	1	1							1	1	1	1											
12	Arthropodium curvipes	1											1												1							1	1	1		1										
13	Caladenia latifolia																																1													
14	Ptilotus ? helipteroides														1			1										1						1		1										
15	Thysanotus multiflorus																																			1	1									
16	Calothamnus gilesii																																			1										
17	Dianella revoluta		1						1																											1				1				1	
18	Aristida contorta							1	1							1	1												1	1							1	1			1		1	1	1
19	Acacia acuminata																		1										1	1											1	1	1		1	1
20	Podolepis canescens								1		1			1					1	1																1		1					1	1	1	1
21	Waitzia suaveolens var. suaveolens										1				1																												1	1	1
22	Schoenus nanus																																			1	1	1				1	1	1		
23	Daucus glochidiatus							1	1						1																					1		1				1	1			
24	Hydrocotyle pilifera var. glabrata																																			1			1				1	1		
25	Hypoxis occidentalis var. occidentalis																																					1	1	1	1		1	1		
26	Calotis hispidula										1						1																			1				1		1		1		
27	Senecio glossanthus									1	1				1		1									1													1	1	1		1		1	
28	Drosera macrantha											1																								1	1		1	1			1		1	
29	Stylidium confluens				1			1				1			1	1	1	1	1																								1	1	1	1
30	Acacia acanthoclada																																				1						1			
31	Eucalyptus leptopoda subsp. leptopoda																																					1								
32	Acacia oswaldii																																					1								
33	Hypochaeris glabra					1	1																															1								
34	Melaleuca uncinata																1		1									1										1	1			1				
35	Pentaschistis airoides subsp. airoides					1				1	1	1	1	1	1		1		1	1	1	1		1												1			1	1		1	1		
36	Cuscuta epithymum									1	1	1	1	1	1	1	1	1	1			1																	1		1		1	1	1
37	Solanum lasiophyllum			1	1					1	1		1	1	1	1	1		1	1	1	1		1					1	1							1		1	1		1			1
38	Erodium cygnorum				1	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	1							1		1	1	1	1	1	1	
39	Eremophila latrobei subsp. latrobei									1	1	1	1	1			1		1	1	1	1	1	1	1	1	1																		
40	Podolepis lessonii			1	1					1	1	1	1			1	1	1	1						1	1	1					1	1			1		1	1		1		1	
41	Elymus scaber					1	1			1		1		1	1		1	1	1			1	1								1	1											1	
42	Acacia quadrimarginea											1	1	1	1	1	1	1		1	1	1	1	1				1																	
43	Scaevola spinescens							1				1	1	1	1	1	1	1	1																										
44	Nicotiana rotundifolia											1	1	1	1			1	1				1													1			1		1	1			
45	Santalum spicatum							1		1		1		1										1																					1
46	Brachyscome iberidifolia									1	1	1	1	1			1																												
47	Hyalosperma cotula									1			1	1		1	1																										1	1	1	1
48	Rhodanthe charsleyae				1	1	1			1		1	1	1		1																				1			1		1	1		1	1
49	Calandrinia eremaea				1	1				1	1	1		1	1	1					1							1		1												1		1	
50	Crassula colorata var. colorata				1	1	1			1	1	1	1	1																													1		
51	Rhodanthe polycephala				1		1	1		1	1		1	1	1	1		1																											
52	Wurmbea densiflora																																													
53	Mirbelia microphylla														1			1	1																											
54	Eremophila georgei															1	1	1	1																											
55	Acacia ramulosa var. ramulosa										1				1	1	1	1																											
56	Hakea preissii				1	1	1			1	1										1			1																					
57	Acacia exocarpoides				1	1	1																																						
58	Ptilotus obovatus			1	1	1	1	1	1	1	1				1	1				1	1							1	1														1	1	1
59	Acacia tetragonophylla			1	1			1	1	1	1																1																	1	1
60	Dodonaea inaequifolia			1	1	1	1	1																				1																1	1
61	Dichopogon capillipes														1											1																			

		Iron Hill Ea	Vermin Fer	Iron Hill	Iron Hill	Mt Gibson	Mt Gibson	Well (ruin)	Well (ruin)	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Exten	East Exten	East Exten	Extension I	East Exten	Yandhanoc	East Exten	Yandhanoc	Yandhanoc	Vermin Fer	Well (ruin)	Well (ruin)	SW Mt Sing	SW Mt Sing	SW Mt Sing	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Coonigal W	Coonigal W	Well (ruin)	Well (ruin)
	geo																																										
	gp10	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10
	gp28	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22	23	23	24	24	24	24	24	25	25	25	26	26	26	27	27
	gp40	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32	33	33	34	34	34	34	34	35	36	36	37	37	37	38	39
	no_sp	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10	15	11	14	14	13	13	14	25	13	21	15	20	14	21	24
	condition	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3	3	3	1	1	2	2	1	1	1	1	1	1	1	0	1
ID	NAME	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80	81	82	66	70	67	69	68	71	72	73	74	75	76	77	78
62	Ptilotus drummondii														1																												
63	Trifolium campestre														1																												
64	Clematis linearifolia														1																												
65	Eremophila serrulata						1																																				
66	Sonchus oleraceus						1								1																												
67	Goodenia ? peacockiana																																										
68	Pimelea avonensis																																										
69	Glischrocaryon aureum	1																																									
70	Prostanthera magnifica																																										
71	Gastrolobium laytonii			1																																							
72	Hibbertia acerosa								1																																		
73	Acacia cerastes																																										
74	Psammomoya grandiflora																																										
75	Caladenia flaccida																																										
76	Callitris glaucophylla																																										
77	Chamaexeros macranthera																																										
78	Schoenia cassiniana																																										
79	Neurachne alopecuroidea								1																																		
80	Melaleuca leiocarpa			1					1																																		
81	Eucalyptus loxophleba subsp. supralaevis								1																																		
82	Calytrix leschenaultii																																										
83	Amphipogon caricinus var. caricinus			1		1																																				1	
84	Dioscorea hastifolia																																										
85	Eucalyptus oldfieldii																																									1	
86	Enekbatus stowardii																																										
87	Thryptomene cuspidata																																										
88	Melaleuca fabri																																										
89	Alyxia buxifolia			1	1																																					
90	Hibbertia ancistrophylla																																										
91	Stenopetalum filifolium																																										
92	Acacia acuaria																																										
93	Brunonia australis	1																																									
94	Austrostipa elegantissima																																										
95	Brachychiton gregorii																																								1			
96	Sondottia connata																				1		1	1																	1			
97	Sida chrysocalyx																				1			1																				
98	Rulingia luteiflora	1			1					1	1				1				1					1																				
99	Leptosema aphyllum	1																																									
100	Keraudrenia velutina subsp. velutina	1		1																				1																				
101	Hibbertia crassifolia																																										
102	Rhodanthe manglesii												1																														
103	Eremophila forrestii subsp. forrestii											1																																
104	Arthropodium dyeri																																										
105	Calotis multicaulis																																										
106	Bellida graminea																								1																				
107	Comesperma integerrimum																																									1	
108	Anagallis arvensis													1																							1						
109	Rulingia kempeana																																										
110	Opercularia vaginata													1																													
111	Hemigenia macphersonii																																										
112	Cheilanthes sieberi subsp. sieberi																																										
113	Acacia stereophylla var. stereophylla																																										
114	Cheiranthera filifolia var. simplicifolia																																										
115	Eremophila clarkei			1	1																		1			1	1																
116	Goodenia pinnatifida	1	1												1	1	1	1			1																					1		
117	Melaleuca nematophylla	1																																									
118	Velleia cycnopotamica		1																	1	1						1		1	1					1								

		Iron Hill Ea	Vermin Fer	Iron Hill	Iron Hill	Mt Gibson	Mt Gibson	Well (ruin)	Well (ruin)	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Exten	East Exten	East Exten	Extension I	East Exten	Yandhanoc	East Exten	Yandhanoc	Yandhanoc	Vermin Fer	Well (ruin)	Well (ruin)	SW Mt Sing	SW Mt Sing	SW Mt Sing	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Coonigal W	Coonigal W	Well (ruin)	Well (ruin)
	geo																																										
	gp10	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10
	gp28	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22	23	23	24	24	24	24	24	25	25	25	26	26	26	27	27
	gp40	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32	33	33	34	34	34	34	34	35	36	36	37	37	37	38	39
	no_sp	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10	15	11	14	14	13	13	14	25	13	21	15	20	14	21	24
	condition	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3	3	3	1	1	2	2	1	1	1	1	1	1	1	0	1
ID	NAME	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80	81	82	66	70	67	69	68	71	72	73	74	75	76	77	78
119	Melaleuca cordata																																										
120	Olearia dampieri																																										
121	Glischrocaryon flavescens																																										
122	Philotheca thryptomenoides																																										
123	Austrostipa ? nodosa																			1								1	1															
124	Helipterum craspedioides																			1	1	1	1					1	1	1					1								
125	Rhodanthe laevis																			1	1	1	1												1								
126	Goodenia corynocarpa																			1		1																						
127	Senna glutinosa subsp. x luerssenii																					1																						
128	Allocasuarina campestris																												1	1				1										
129	Ptilotus gaudichaudii var. gaudichaudii																							1					1	1														
130	Schoenia filifolia subsp. filifolia																								1			1	1	1														
131	Arctotheca calendula																												1														
132	Blennospora drummondii																												1							1							
133	Grevillea extorris																										1																
134	Prostanthera patens																										1																
135	Cratystylis subspinescens																										1																
136	Brachyscome pusilla		1																			1		1		1	1																
137	Acacia coolgardiensis subsp. effusa																					1	1			1	1																
138	Rhodanthe chlorocephala																									1	1																
139	Mirbelia depressa																					1			1	1	1																
140	Philotheca brucei subsp. brucei			1	1						1								1						1	1	1																
141	Lobelia winfridae																								1																		
142	Grevillea sarissa subsp. sarissa																								1																		
143	Hibbertia arcuata																								1		1																
144	Codonocarpus cotinifolius																																										
145	Olearia humilis																																										
146	Sida excedentifolia																																										
147	Grevillea scabrida							1	1										1																							1	1
148	Zygophyllum ovatum							1																																		1	
149	Eremophila oppositifolia							1																																		1	
150	Acacia erinacea																																									1	1
151	Acacia kochii																																									1	1
152	Solanum nummularium																																									1	
153	Rhagodia drummondii							1																																			1
154	Stackhousia muricata							1																																			1
155	Eremophila oldfieldii							1																1																				1
156	Grevillea hakeoides subsp. stenophylla																																										1
157	Senna charlesiana																																										1
158	Maireana trichoptera							1																																			
159	Carrichtera annua							1																																			
160	Senna sp. Austin (A. Strid 20210)							1																																			
161	Senna stowardii							1																																			
162	Brassica tournefortii							1							1																												
163	Acacia andrewsii				1			1																																			
164	Senna artemisioides subsp. artemisioides							1																																			
165	Melaleuca conothamnoides x nematophylla			1														1																										
166	Acacia assimilis subsp. assimilis											1			1			1							1	1	1																	
167	Grevillea obliquistigma subsp. obliquistigma	1	1		1		1					1																																
168	Philotheca sericea	1		1						1					1																													
169	Calycopeplus paucifolius	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1																			
170	Grevillea paradoxa																																										1
171	Cheilanthes austrotenuifolia			1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1								1	1	1		1	1	1	1	1	1	1	1	1	1	1
172	Thysanotus patersonii	1	1	1				1	1			1	1			1										1					1			1	1	1	1	1		1		1	
173	Trachymene ornata	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1		1	1	1	1	1	1	1	1	1	1	1	1
174	Waitzia nitida					1		1	1	1	1	1	1		1	1	1	1	1									1	1	1		1	1		1	1	1	1				
175	Lawrencella rosea			1	1											1	1	1	1						1	1	1				1		1		1				1	1	1	1

		Iron Hill Ea	Vermin Fer	Iron Hill	Iron Hill	Mt Gibson	Mt Gibson	Well (ruin)	Well (ruin)	Taylor Well	Taylor Well	East GNH	East GNH	East GNH	East GNH	East Exten	East Exten	East Exten	Extension I	East Exten	Yandhanoc	East Exten	Yandhanoc	Yandhanoc	Vermin Fer	Well (ruin)	Well (ruin)	SW Mt Sin	SW Mt Sin	SW Mt Sin	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Mt Singleto	Coonigal W	Coonigal W	Well (ruin)	Well (ruin)
	geo																																														
	gp10	2	2	3	3	3	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10
	gp28	12	13	14	14	15	15	16	17	18	18	18	28	28	19	19	19	19	19	20	20	20	20	20	21	21	21	22	23	23	24	24	24	24	24	25	25	25	26	26	26	27	27	27	28	28	
	gp40	16	17	18	19	20	20	21	22	23	23	24	24	24	25	26	26	26	27	28	28	28	28	29	30	31	31	32	33	33	34	34	34	34	34	35	36	36	37	37	37	38	39	39	40	40	
	no_sp	18	9	22	26	19	17	28	18	25	25	29	25	26	32	24	24	24	27	19	22	19	15	19	16	17	19	10	15	11	14	14	13	13	14	25	13	21	15	20	14	21	24	22	32	29	
	condition	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	3	3	3	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	1	
ID	NAME	48	62	42	44	58	59	88	89	63	64	83	84	85	65	93	94	95	92	96	100	97	98	99	61	86	87	80	81	82	66	70	67	69	68	71	72	73	74	75	76	77	78	79	90	91	
176	Allocasuarina acutivalvis subsp. prinsepiana	1		1		1	1			1	1	1							1						1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
177	Micromyrtus racemosa var. prochytes																		1												1			1	1	1	1	1	1	1							
178	Cassytha nodiflora						1																			1																					
179	Xanthosia bungei																		1		1										1	1	1				1		1							
180	Darwinia masonii			1	1																																									
181	Hibbertia hypericoides				1											1		1		1																											
182	Melaleuca fulgens subsp. fulgens																		1																										1	1		
183	Goodenia ? berardiana			1		1	1		1			1	1	1																						1		1		1		1	1			
184	Velleia rosea					1				1		1			1			1	1																							1	1			
185	Leucopogon breviflorus	1	1																																											
186	Acacia aneura var. aneura	1			1			1	1			1	1	1						1	1				1																					
187	Aluta aspera	1	1									1	1	1						1	1	1	1	1	1	1	1																		

All, Slope class

gp10	gp40	LE	VG	GE	MO	ST
1	1		1	1		
1	2					1
1	3		1	1	4	1
1	4	1			4	4
1	5		1		2	
1	6		1		2	3
1	7				3	
1	8					1
1	9				1	
1	10				1	
2	11			4	4	1
2	12			1		
2	13		2	3	4	
2	14				1	
2	15			1		
2	16				1	
2	17		1			
3	18		1			
3	19					1
3	20			1		1
4	21				1	
4	22		1			
5	23				2	
5	24				2	1
5	25				1	
5	26				3	
5	27			1		
6	28			1		3
6	29				1	
7	30	1				
7	31		2			
8	32	1				
8	33		1	1		
9	34	1	1	2	1	
10	35				1	
10	36				2	
10	37			2		1
10	38				1	
10	39				1	1
10	40		1	1		

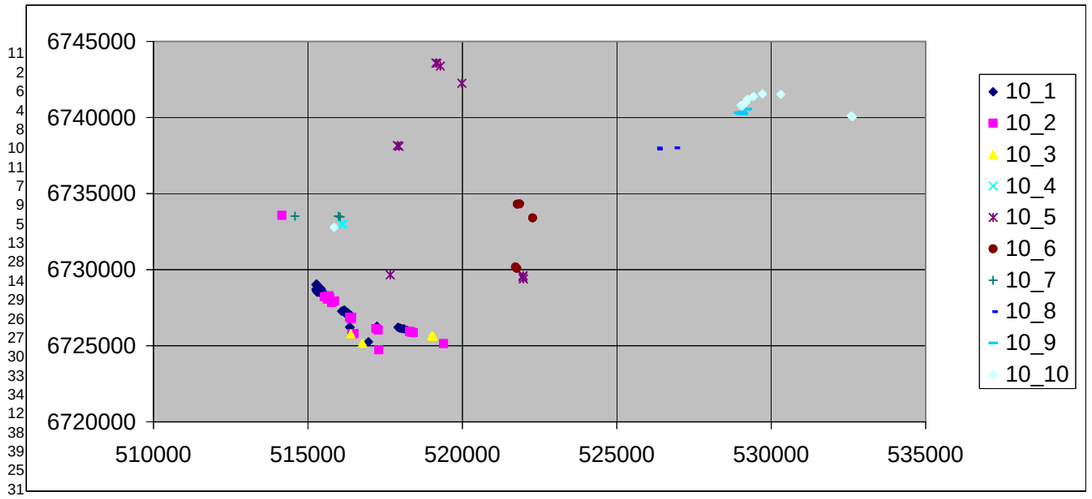
gp10	gp40	F	H	S	M	R	U
1	1					1	1
1	2						1
1	3					2	5
1	4					3	6
1	5					2	1
1	6					5	1
1	7					3	
1	8						1
1	9						1
1	10						1
2	11					3	6
2	12						1
2	13					4	5
2	14				1		
2	15				1		
2	16				1		
2	17			1			
3	18					1	
3	19					1	
3	20					2	
4	21					1	
4	22	1					
5	23					2	
5	24					1	2
5	25					1	
5	26					2	1
5	27					1	
6	28				3		1
6	29						1
7	30			1			
7	31			2			
8	32		1				
8	33		2				
9	34					4	1
10	35						1
10	36					1	1
10	37					2	1
10	38						1
10	39					1	1
10	40	2					

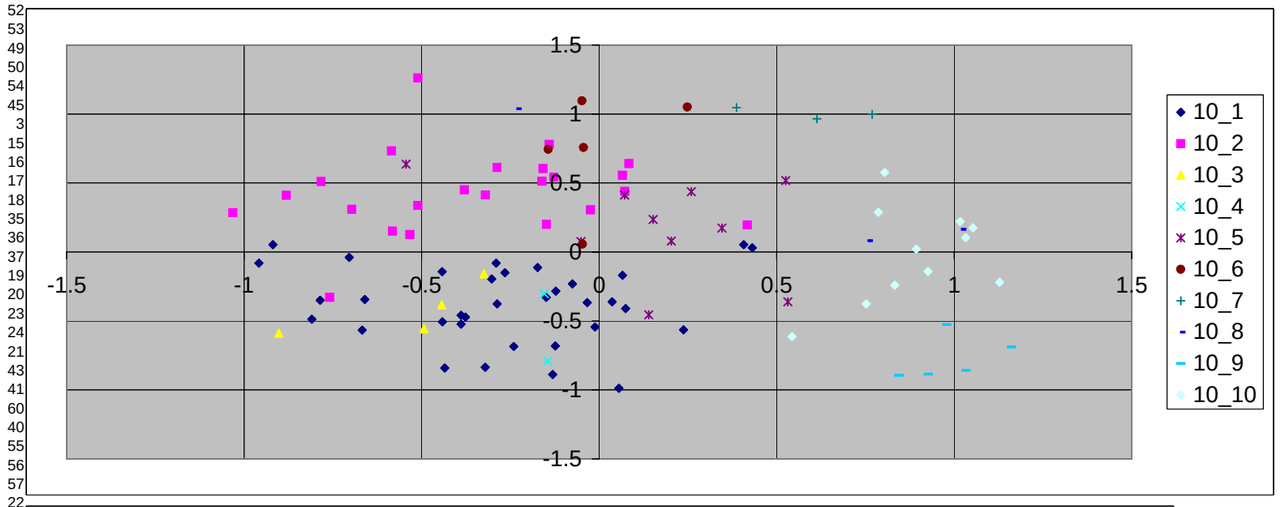
gp10	gp40	T1	T12	T3	T5	T6	HS1	M4	17
1	1	2							
1	2		1						
1	3	6	1						
1	4	8		1					
1	5	1		2					
1	6	3				3			
1	7			1		2			
1	8			1					
1	9		1						
1	10	1							
2	11	9							
2	12	1							
2	13	2			3	3		1	
2	14			1					
2	15			1					
2	16			1					
3	18				1				
3	19			1					
3	20						2		
5	27								1

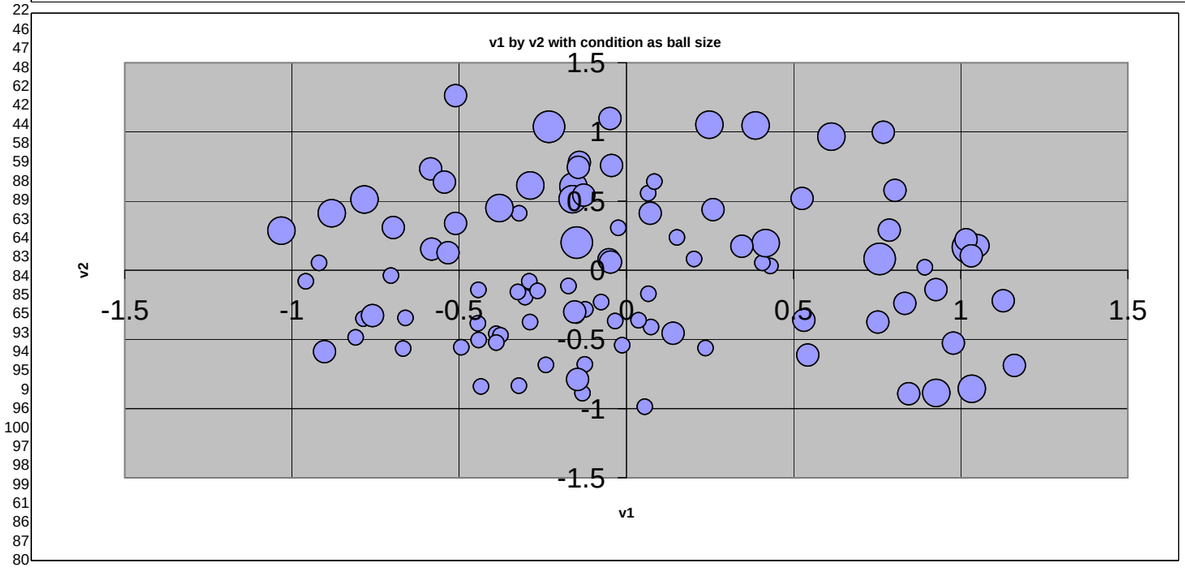
			1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	4	7
	name	Map Units	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18	19	21	30
1	Extension Hill	T1	2	1	1			5	2	1			2	3	1	1		2				
1	Extension Hill	T12				1	1	1														
2	Iron Hill North	T1							9				3									
2	Iron Hill North	T3							1													
3	Iron Hill	T3								2		1							1	1		
3	Iron Hill	T5																3		1		
4	Iron Hill East	T3									1				1		1					
5	Mt Gibson North	T6									5							3				
6	Mt Gibson South	HS1																			2	
6	Mt Gibson South	M4																1				
14	Extension Hill Vermin Fence	17																				1

Ordered by Classification

ID	site	photo	Nvation	type	Clorph	typ	ap unit	gp10		gp40	no_sp	onditio	Expr1	v1	v2	v3	easting	northing
5	001	1	390	VG	R	T1		1	1	1	20	0	1	0.2375	-0.5641	-0.4079	515261	6729005
6	002	2	337	GE	U	T1		1	1	1	18	0	1	0.4315	0.0292	-0.4824	515278	6728968
7	006	6	387	ST	U	T12		1	1	2	20	0	1	-0.9188	0.0526	0.2616	515426	6728743
8	004	4	398	VG	R	T1		1	2	3	18	0	1	-0.1729	-0.1137	-0.4174	515319	6728744
9	008	8	391	MO	U	T1		1	2	3	19	0	1	-0.3023	-0.1949	-0.4767	515277	6728622
10	010	10	404	MO	U	T1		1	2	3	20	0	1	-0.4419	-0.1423	-0.6387	515364	6728536
11	011	11	394	ST	U	T12		1	2	3	20	0	1	-0.2873	-0.3763	-0.6219	515300	6728517
12	007	7	400	GE	R	T1		1	2	3	15	0	1	-0.2901	-0.0814	-0.7773	515277	6728640
13	009	9	400	MO	U	T1		1	2	3	17	0	1	-0.704	-0.0395	-0.3555	515409	6728688
14	005	5	385	MO	U	T1		1	2	3	17	0	1	0.4075	0.0521	-0.6721	515264	6728721
15	013	13	415	MO	R	T1		1	2	4	17	0	1	-0.0751	-0.2314	-0.4543	515437	6728459
16	028	28	417	MO	R	T1		1	2	4	20	0	1	-0.2654	-0.151	-0.5868	516238	6727160
17	014	14	402	ST	U	T1		1	2	4	17	0	1	0.0744	-0.4105	-0.3666	515409	6728448
18	029	29	417	ST	U	T1		1	2	4	16	0	1	-0.2402	-0.6854	-0.6229	516212	6727131
19	026	26	408	ST	U	T1		1	2	4	14	0	1	-0.0119	-0.5434	-0.6279	516089	6727275
20	027	27	417	MO	U	T3		1	2	4	14	0	1	0.0367	-0.3616	-0.6465	516181	6727337
21	030	30	421	MO	U	T1		1	2	4	18	0	1	0.066	-0.1699	-0.4346	516296	6727175
22	033	33	418	ST	U	T1		1	2	4	16	0	1	-0.0333	-0.3678	-0.5046	516388	6726997
23	034	34	420	LE	R	T1		1	2	4	21	0	1	-0.122	-0.2834	-0.2568	516380	6726874
24	012	12	401	MO	U	T1		1	3	5	14	0	1	-0.9583	-0.0815	-0.7124	515460	6728576
25	038	38	403	MO	R	T3		1	3	5	16	0	1	-0.6602	-0.3452	-0.4258	516358	6726220
26	039	39	398	VG	R	T3		1	3	5	17	0	1	-0.7859	-0.3506	-0.3696	516349	6726222
27	025	25	425	MO	R	T1		1	4	6	11	0	1	-0.6671	-0.5668	-0.8878	516144	6727315
28	031	31	425	VG	R	T1		1	4	6	18	0	1	-0.3887	-0.4595	-0.3106	516340	6726974
29	032	32	422	ST	U	T1		1	4	6	16	0	1	-0.321	-0.8349	-0.3075	516314	6726933
30	051	51	443	ST	R	T6		1	4	6	18	0	1	-0.4346	-0.8412	-0.2274	517975	6726162
31	052	52	448	ST	R	T6		1	4	6	27	0	1	-0.1238	-0.6817	0.0888	518030	6726134
32	053	53	453	MO	R	T6		1	4	6	23	0	1	-0.1311	-0.889	0.0127	518112	6726103
33	049	49	445	MO	R	T3		1	4	7	18	0	1	-0.4413	-0.5057	-0.1421	517232	6726284
34	050	50	435	MO	R	T6		1	4	7	24	0	1	-0.3763	-0.4717	-0.1201	517913	6726208
35	054	54	438	MO	R	T6		1	4	7	24	0	1	-0.3888	-0.5235	0.1196	518220	6726015
36	045	45	408	ST	U	T3		1	5	8	23	0	1	-0.8093	-0.487	0.0946	516962	6725254
37	003	3	375	MO	U	T12		1	6	9	14	0	1	0.0558	-0.9876	-0.7653	515278	6729068
38	015	15	406	MO	U	T1		1	7	10	17	0	1	-0.1488	-0.3285	-1.1806	515506	6728489
39	016	16	413	GE	R	T1		2	8	11	15	2	3	-0.1581	0.6044	-0.8162	515580	6728223
40	017	17	402	MO	U	T1		2	8	11	17	0	1	0.0657	0.5559	-0.7564	515533	6728210
41	018	18	396	MO	U	T1		2	8	11	20	0	1	0.0842	0.6396	-0.6334	515684	6728278
42	035	35	421	GE	R	T1		2	8	11	23	0	1	-0.3202	0.4114	-0.5705	516346	6726853
43	036	36	424	GE	U	T1		2	8	11	25	0	1	-0.024	0.3057	-0.8169	516421	6726882
44	037	37	413	GE	U	T1		2	8	11	17	0	1	0.0727	0.4384	-0.6752	516405	6726757
45	019	19	419	ST	R	T1		2	8	11	21	2	3	-0.1606	0.5126	-0.3174	515690	6728081
46	020	20	404	MO	U	T1		2	8	11	22	2	3	-0.2871	0.6115	-0.2232	515717	6728134
47	023	23	432	MO	U	T1		2	8	11	18	1	2	-0.1402	0.7798	-0.5077	515874	6727932
48	024	24	441	GE	U	T1		2	9	12	16	2	3	0.4174	0.1952	-0.9687	515764	6727841
49	021	21	415	MO	U	T1		2	10	13	18	3	4	-0.1481	0.1987	-0.4027	515630	6728051
50	043	43	396	MO	U	T5		2	10	13	25	2	3	-0.3793	0.4492	-0.1238	516501	6725800
51	041	41	406	VG	R	T5		2	10	13	24	1	2	-0.1271	0.5417	-0.16	516424	6725781
52	060	60	392	GE	U	M4		2	10	13	18	2	3	-0.7827	0.51	-0.0765	519399	6725139
53	040	40	414	GE	R	T5		2	10	13	20	1	2	-0.5821	0.1512	-0.1635	516451	6725755
54	055	55	454	MO	U	T6		2	10	13	27	1	2	-0.5103	0.3374	0.2047	518296	6725931
55	056	56	455	MO	U	T6		2	10	13	24	1	2	-0.5331	0.1258	-0.0431	518350	6725887
56	057	57	451	VG	R	T6		2	10	13	32	1	2	-0.7585	-0.3293	0.2594	518416	6725853
57	022	22	444	GE	R	T1		2	10	13	19	2	3	-1.0313	0.2848	-0.3924	515818	6727884
58	046	46	390	MO	M	T3		2	11	14	27	2	3	-0.8806	0.4104	0.4873	517290	6724719
59	047	47	382	GE	M	T3		2	12	15	11	1	2	-0.6968	0.3085	-0.9249	517204	6726131
60	048	48	391	MO	M	T3		2	12	16	18	1	2	-0.5845	0.7315	-0.3089	517278	6726018
61	062	62	353	VG	S			2	13	17	9	1	2	-0.5101	1.2613	-0.489	514163	6733575
62	042	42	410	VG	R	T5		3	14	18	22	0	1	-0.4933	-0.5567	0.472	516384	6725786
63	044	44	416	ST	R	T3		3	14	19	26	0	1	-0.4434	-0.3845	0.856	516768	6725167
64	058	58	395	GE	R	HS1		3	15	20	19	0	1	-0.3244	-0.1582	0.8975	519011	6725648
65	059	59	402	ST	R	HS1		3	15	20	17	1	2	-0.9022	-0.5889	0.7669	519048	6725625
66	088	88	338	MO	R			4	16	21	28	1	2	-0.1543	-0.303	1.3388	516077	6732999
67	089	89	330	VG	F			4	17	22	18	1	2	-0.1453	-0.7903	0.8164	516145	6732981
68	063	63	337	MO	R			5	18	23	25	1	2	-0.0513	0.0752	0.9762	517949	6738107
69	064	64	359	MO	R			5	18	23	25	0	1	0.2031	0.0799	0.9975	517900	6738164
70	083	83	342	MO	U			5	18	24	29	0	1	0.1518	0.2359	0.4783	519288	6743377
71	084	84	336	ST	U			5	18	24	25	1	2	0.2594	0.4373	0.7674	519176	6743561
72	085	85	371	MO	R			5	18	24	26	1	2	0.0717	0.4118	0.9949	519144	6743592
73	065	65	315	MO	R			5	19	25	32	1	2	-0.5438	0.6362	0.9083	519984	6742246
74	093	93	403	MO	R			5	19	26	24	1	2	0.3455	0.1733	0.7341	521959	6729526
75	094	94	408	MO	R			5	19	26	24	1	2	0.5257	0.518	0.7642	521965	6729602
76	095	95	376	MO	U			5	19	26	24	1	2	0.1399	-0.4563	0.6627	521975	6729386
77	092	92	339	GE	R	17		5	19	27	27	1	2	0.5313	-0.3618	0.616	517663	6729663
78	096	96	351	ST	M			6	20	28	19	1	2	-0.1432	0.7437	0.728	521719	6730169
79	100	100	356	GE	M			6	20	28	22	1	2	-0.0437	0.757	0.724	522277	6733394
80	097	97	386	ST	U			6	20	28	19	2	3	0.2487	1.0511	0.6931	521767	6730079
81	098	98	338	ST	M			6	20	28	15	1	2	-0.0468	0.0573	1.209	521785	6734296
82	099	99	376	MO	U			6	20	29	19	1	2	-0.0483	1.0955	0.7228	521861	6734325
83	061	61	349	LE	S			7	21	30	16	2	3	0.6134	0.9646	-0.4568	514581	6733514
84	086	86	336	VG	S			7	21	31	17	2	3	0.3868	1.0466	-0.2085	516046	6733471
85	087	87	334	VG	S			7	21	31	19	1	2	0.7687	0.9974	-0.3096	515981	6733513
86	080	80	484	LE	H			8	22	32	10	3	4	-0.2311	1.0366	1.5999	526896	6737997
87	081	81	459	GE	H			8	23	33	15	3	4	0.7577	0.0807	1.2178	526339	6737925
88	082	82	460	VG	H			8	23	33	11	3	4	1.0215	0.1646	1.6815	526327	6737984
89	066	66	677	GE	R			9	24	34	14	1	2	0.8446	-0.8935	-0.1677	529007	6740271





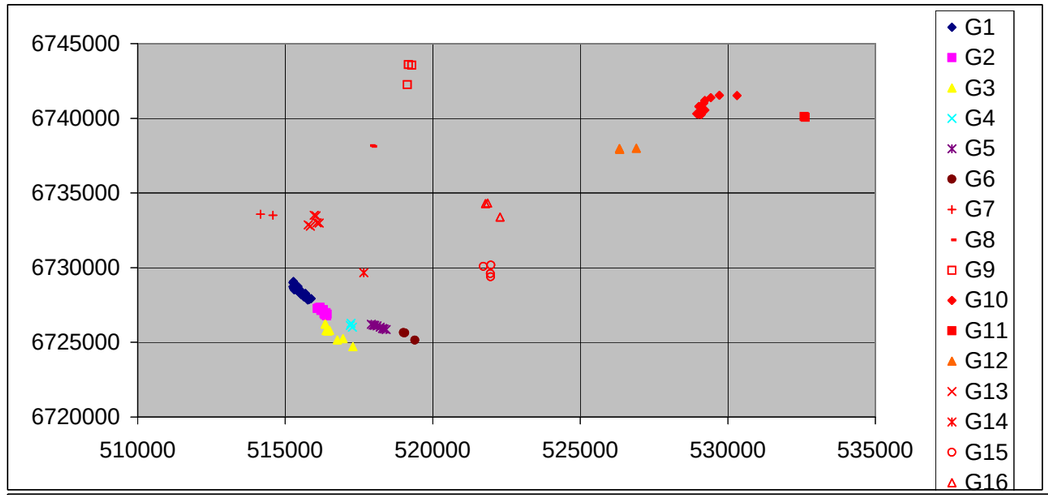


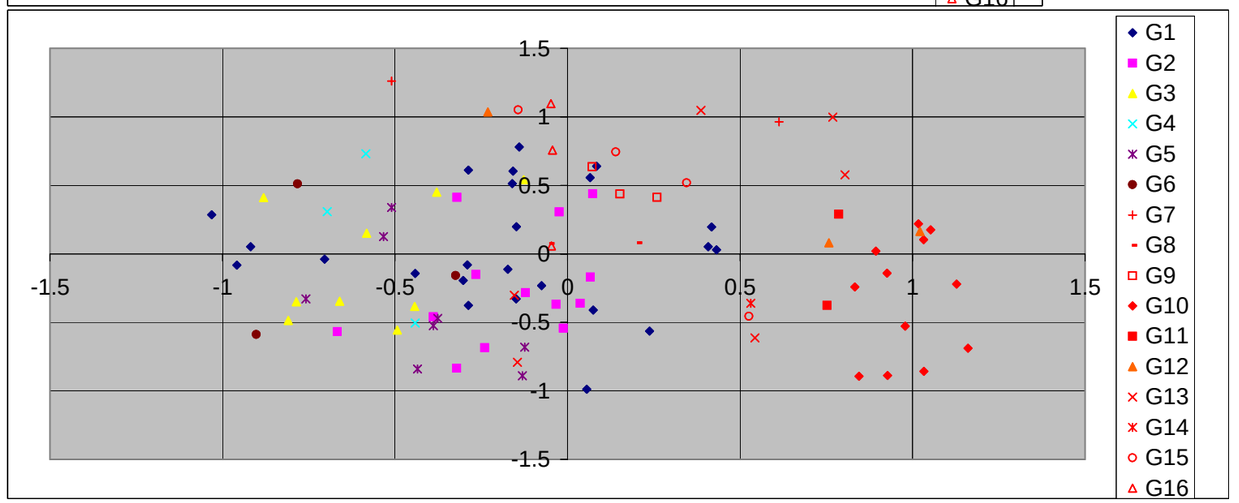
90	070	70	656	MO	U		9	24	34	14	1	2	1.161	-0.6883	-0.3943	529224	6740550	70
91	067	67	678	VG	R		9	24	34	13	2	3	0.9272	-0.8873	-0.0434	528944	6740301	67
92	069	69	688	LE	R		9	24	34	13	2	3	1.0332	-0.8577	0.0954	529062	6740362	69
93	068	68	665	GE	R		9	24	34	14	1	2	0.9785	-0.5278	-0.3475	529099	6740246	68
94	071	71	627	MO	U		10	25	35	25	1	2	1.0525	0.1758	0.2001	529017	6740790	71
95	072	72	629	MO	U		10	25	36	13	1	2	1.0168	0.2197	-0.3012	529071	6740772	72
96	073	73	569	MO	R		10	25	36	21	1	2	0.9262	-0.1406	-0.1049	529182	6741021	73
97	074	74	560	GE	R		10	26	37	15	1	2	1.1276	-0.2207	0.1267	529224	6741197	74
98	075	75	531	ST	R		10	26	37	20	1	2	0.8329	-0.241	0.295	529426	6741380	75
99	076	76	502	GE	U		10	26	37	14	1	2	1.0321	0.1035	-0.2073	529711	6741545	76
100	077	77	435	MO	U		10	27	38	21	0	1	0.8934	0.0201	0.8201	530310	6741516	77
101	078	78	377	ST	U		10	27	39	24	1	2	0.7523	-0.3756	0.3002	532629	6740055	78
102	079	79	390	MO	R		10	27	39	22	1	2	0.7863	0.2888	0.483	532589	6740107	79
103	090	90	331	GE	F		10	28	40	32	1	2	0.804	0.5762	0.4293	515852	6732784	90
104	091	91	335	VG	F		10	28	40	29	1	2	0.543	-0.6139	0.8101	515782	6732870	91
105																		
106																		

group	name
1	Extension Hill
2	Iron Hill North
3	Iron Hill
4	Iron Hill East
5	Mt Gibson North
6	Mt Gibson South
7	Vermin Fence
8	Taylor Well
9	East GNH
10	Mt Singleton
11	Coonigal Well
12	SW Mt Singleton
13	Well (ruin) E
14	Extension Hill Vermin Fence
15	East Extension Hill
16	Yandhanoo Hill

Ordered by Geographic Group

ID	site	hoto N	vation	pe Cl	orph ty	ap uni	gp10		gp40	no_sp	onditio	Expr1	v1	v2	v3	easting	northing	geo_group	x
5	001	1	390	VG	R	T1	1		1	20	0	1	0.2375	-0.5641	-0.4079	515261	6729005	1	1
6	002	2	337	GE	U	T1	1		1	18	0	1	0.4315	0.0292	-0.4824	515278	6728968	1	2
7	006	6	387	ST	U	T12	1		2	20	0	1	-0.9188	0.0526	0.2616	515426	6728743	1	3
8	004	4	398	VG	R	T1	1		3	18	0	1	-0.1729	-0.1137	-0.4174	515319	6728744	1	4
9	008	8	391	MO	U	T1	1		3	19	0	1	-0.3023	-0.1949	-0.4767	515277	6728622	1	5
10	010	10	404	MO	U	T1	1		3	20	0	1	-0.4419	-0.1423	-0.6387	515364	6728536	1	6
11	011	11	394	ST	U	T12	1		3	20	0	1	-0.2873	-0.3763	-0.6219	515300	6728517	1	7
12	007	7	400	GE	R	T1	1		3	15	0	1	-0.2901	-0.0814	-0.7773	515277	6728640	1	8
13	009	9	400	MO	U	T1	1		3	17	0	1	-0.704	-0.0395	-0.3555	515409	6728688	1	9
14	005	5	385	MO	U	T1	1		3	17	0	1	0.4075	0.0521	-0.6721	515264	6728721	1	10
15	013	13	415	MO	R	T1	1		4	17	0	1	-0.0751	-0.2314	-0.4543	515437	6728459	1	11
17	014	14	402	ST	U	T1	1		4	17	0	1	0.0744	-0.4105	-0.3666	515409	6728448	1	12
24	012	12	401	MO	U	T1	1		5	14	0	1	-0.9583	-0.0815	-0.7124	515460	6728576	1	13
37	003	3	375	MO	U	T12	1		9	14	0	1	0.0558	-0.9876	-0.7653	515278	6729068	1	14
38	015	15	406	MO	U	T1	1		10	17	0	1	-0.1488	-0.3285	-1.1806	515506	6728489	1	15
39	016	16	413	GE	R	T1	2		11	15	2	3	-0.1581	0.6044	-0.8162	515580	6728223	1	16
40	017	17	402	MO	U	T1	2		11	17	0	1	0.0657	0.5559	-0.7564	515533	6728210	1	17
41	018	18	396	MO	U	T1	2		11	20	0	1	0.0842	0.6396	-0.6334	515684	6728278	1	18
45	019	19	419	ST	R	T1	2		11	21	2	3	-0.1606	0.5126	-0.3174	515690	6728081	1	19
46	020	20	404	MO	U	T1	2		11	22	2	3	-0.2871	0.6115	-0.2232	515717	6728134	1	20
47	023	23	432	MO	U	T1	2		11	18	1	2	-0.1402	0.7798	-0.5077	515874	6727932	1	21
48	024	24	441	GE	U	T1	2		12	16	2	3	0.4174	0.1952	-0.9687	515764	6727841	1	22
49	021	21	415	MO	U	T1	2		13	18	3	4	-0.1481	0.1987	-0.4027	515630	6728051	1	23
57	022	22	444	GE	R	T1	2		13	19	2	3	-1.0313	0.2848	-0.3924	515818	6727884	1	24
16	028	28	417	MO	R	T1	1		4	20	0	1	-0.2654	-0.151	-0.5868	516238	6727160	2	25
18	029	29	417	ST	U	T1	1		4	16	0	1	-0.2402	-0.6854	-0.6229	516212	6727131	2	26
19	026	26	408	ST	U	T1	1		4	14	0	1	-0.0119	-0.5434	-0.6279	516089	6727275	2	27
20	027	27	417	MO	U	T3	1		4	14	0	1	0.0367	-0.3616	-0.6465	516181	6727337	2	28
21	030	30	421	MO	U	T1	1		4	18	0	1	0.066	-0.1699	-0.4346	516296	6727175	2	29
22	033	33	418	ST	U	T1	1		4	16	0	1	-0.0333	-0.3678	-0.5046	516388	6726997	2	30
23	034	34	420	LE	R	T1	1		4	21	0	1	-0.122	-0.2834	-0.2568	516380	6726874	2	31
27	025	25	425	MO	R	T1	1		6	11	0	1	-0.6671	-0.5668	-0.8878	516144	6727315	2	32
28	031	31	425	VG	R	T1	1		6	18	0	1	-0.3887	-0.4595	-0.3106	516340	6726974	2	33
29	032	32	422	ST	U	T1	1		6	16	0	1	-0.321	-0.8349	-0.3075	516314	6726933	2	34
42	035	35	421	GE	R	T1	2		11	23	0	1	-0.3202	0.4114	-0.5705	516346	6726853	2	35
43	036	36	424	GE	U	T1	2		11	25	0	1	-0.024	0.3057	-0.8169	516421	6726882	2	36
44	037	37	413	GE	U	T1	2		11	17	0	1	0.0727	0.4384	-0.6752	516405	6726757	2	37
25	038	38	403	MO	R	T3	1		5	16	0	1	-0.6602	-0.3452	-0.4258	516358	6726220	3	38
26	039	39	398	VG	R	T3	1		5	17	0	1	-0.7859	-0.3506	-0.3696	516349	6726222	3	39
36	045	45	408	ST	U	T3	1		8	23	0	1	-0.8093	-0.487	0.0946	516962	6725254	3	40
50	043	43	396	MO	U	T5	2		13	25	2	3	-0.3793	0.4492	-0.1238	516501	6725800	3	41
51	041	41	406	VG	R	T5	2		13	24	1	2	-0.1271	0.5417	-0.16	516424	6725781	3	42
53	040	40	414	GE	R	T5	2		13	20	1	2	-0.5821	0.1512	-0.1635	516451	6725755	3	43
58	046	46	390	MO	M	T3	2		14	27	2	3	-0.8806	0.4104	0.4873	517290	6724719	3	44
65	042	42	410	VG	R	T5	3		18	22	0	1	-0.4933	-0.5567	0.472	516384	6725786	3	45
66	044	44	416	ST	R	T3	3		19	26	0	1	-0.4434	-0.3845	0.856	516768	6725167	3	46
33	049	49	445	MO	R	T3	1		7	18	0	1	-0.4413	-0.5057	-0.1421	517232	6726284	4	47
59	047	47	382	GE	M	T3	2		15	11	1	2	-0.6968	0.3085	-0.9249	517204	6726131	4	48
60	048	48	391	MO	M	T3	2		16	18	1	2	-0.5845	0.7315	-0.3089	517278	6726018	4	49
30	051	51	443	ST	R	T6	1		6	18	0	1	-0.4346	-0.8412	-0.2274	517975	6726162	5	50
31	052	52	448	ST	R	T6	1		6	27	0	1	-0.1238	-0.6817	0.0888	518030	6726134	5	51
32	053	53	453	MO	R	T6	1		6	23	0	1	-0.1311	-0.889	0.0127	518112	6726103	5	52
34	050	50	435	MO	R	T6	1		7	24	0	1	-0.3763	-0.4717	-0.1201	517913	6726208	5	53
35	054	54	438	MO	R	T6	1		7	24	0	1	-0.3888	-0.5235	0.1196	518220	6726015	5	54
54	055	55	454	MO	U	T6	2		13	27	1	2	-0.5103	0.3374	0.2047	518296	6725931	5	55
55	056	56	455	MO	U	T6	2		13	24	1	2	-0.5331	0.1258	-0.0431	518350	6725887	5	56
56	057	57	451	VG	R	T6	2		13	32	1	2	-0.7585	-0.3293	0.2594	518416	6725853	5	57





52	060	60	392	GE	U	M4	2		13	18	2	3	-0.7827	0.51	-0.0765	519399	6725139	6	58
67	058	58	395	GE	R	HS1	3		20	19	0	1	-0.3244	-0.1582	0.8975	519011	6725648	6	59
68	059	59	402	ST	R	HS1	3		20	17	1	2	-0.9022	-0.5889	0.7669	519048	6725625	6	60
61	062	62	353	VG	S		2		17	9	1	2	-0.5101	1.2613	-0.489	514163	6733575	7	61
62	061	61	349	LE	S		7		30	16	2	3	0.6134	0.9646	-0.4568	514581	6733514	7	62
71	063	63	337	MO	R		5		23	25	1	2	-0.0513	0.0752	0.9762	517949	6738107	8	63
72	064	64	359	MO	R		5		23	25	0	1	0.2031	0.0799	0.9975	517900	6738164	8	64
73	083	83	342	MO	U		5		24	29	0	1	0.1518	0.2359	0.4783	519288	6743377	9	65
74	084	84	336	ST	U		5		24	25	1	2	0.2594	0.4373	0.7674	519176	6743561	9	66
75	085	85	371	MO	R		5		24	26	1	2	0.0717	0.4118	0.9949	519144	6743592	9	67
76	065	65	315	MO	R		5		25	32	1	2	-0.5438	0.6362	0.9083	519984	6742246	9	68
81	071	71	627	MO	U		10		35	25	1	2	1.0525	0.1758	0.2001	529017	6740790	10	69
82	072	72	629	MO	U		10		36	13	1	2	1.0168	0.2197	-0.3012	529071	6740772	10	70
83	073	73	569	MO	R		10		36	21	1	2	0.9262	-0.1406	-0.1049	529182	6741021	10	71
84	074	74	560	GE	R		10		37	15	1	2	1.1276	-0.2207	0.1267	529224	6741197	10	72
85	075	75	531	ST	R		10		37	20	1	2	0.8329	-0.241	0.295	529426	6741380	10	73
86	076	76	502	GE	U		10		37	14	1	2	1.0321	0.1035	-0.2073	529711	6741545	10	74
87	077	77	435	MO	U		10		38	21	0	1	0.8934	0.0201	0.8201	530310	6741516	10	75
100	066	66	677	GE	R		9		34	14	1	2	0.8446	-0.8935	-0.1677	529007	6740271	10	76
101	070	70	656	MO	U		9		34	14	1	2	1.161	-0.6883	-0.3943	529224	6740550	10	77
102	067	67	678	VG	R		9		34	13	2	3	0.9272	-0.8873	-0.0434	528944	6740301	10	78
103	069	69	688	LE	R		9		34	13	2	3	1.0332	-0.8577	0.0954	529062	6740362	10	79
104	068	68	665	GE	R		9		34	14	1	2	0.9785	-0.5278	-0.3475	529099	6740246	10	80
88	078	78	377	ST	U		10		39	24	1	2	0.7523	-0.3756	0.3002	532629	6740055	11	81
89	079	79	390	MO	R		10		39	22	1	2	0.7863	0.2888	0.483	532589	6740107	11	82
92	080	80	484	LE	H		8		32	10	3	4	-0.2311	1.0366	1.5999	526896	6737997	12	83
93	081	81	459	GE	H		8		33	15	3	4	0.7577	0.0807	1.2178	526339	6737925	12	84
94	082	82	460	VG	H		8		33	11	3	4	1.0215	0.1646	1.6815	526327	6737984	12	85
63	086	86	336	VG	S		7		31	17	2	3	0.3868	1.0466	-0.2085	516046	6733471	13	86
64	087	87	334	VG	S		7		31	19	1	2	0.7687	0.9974	-0.3096	515981	6733513	13	87
69	088	88	338	MO	R		4		21	28	1	2	-0.1543	-0.303	1.3388	516077	6732999	13	88
70	089	89	330	VG	F		4		22	18	1	2	-0.1453	-0.7903	0.8164	516145	6732981	13	89
90	090	90	331	GE	F		10		40	32	1	2	0.804	0.5762	0.4293	515852	6732784	13	90
91	091	91	335	VG	F		10		40	29	1	2	0.543	-0.6139	0.8101	515782	6732870	13	91
80	092	92	339	GE	R	17	5		27	27	1	2	0.5313	-0.3618	0.616	517663	6729663	14	92
77	093	93	403	MO	R		5		26	24	1	2	0.3455	0.1733	0.7341	521959	6729526	15	93
78	094	94	408	MO	R		5		26	24	1	2	0.5257	0.518	0.7642	521965	6729602	15	94
79	095	95	376	MO	U		5		26	24	1	2	0.1399	-0.4563	0.6627	521975	6729386	15	95
95	096	96	351	ST	M		6		28	19	1	2	-0.1432	0.7437	0.728	521719	6730169	15	96
97	097	97	386	ST	U		6		28	19	2	3	0.2487	1.0511	0.6931	521767	6730079	15	97
96	100	100	356	GE	M		6		28	22	1	2	-0.0437	0.757	0.724	522277	6733394	16	98
98	098	98	338	ST	M		6		28	15	1	2	-0.0468	0.0573	1.209	521785	6734296	16	99
99	099	99	376	MO	U		6		29	19	1	2	-0.0483	1.0955	0.7228	521861	6734325	16	100

sorted by map units

ID	site	hoto N	vation	pe Cl	orph ty	ap uni	gp10		gp40	no_sp	onditio	Expr1	v1	v2	v3	easting	northing	geo_group	x
80	092	92	339	GE	R	17	5		27	27	1	2	0.5313	-0.3618	0.616	517663	6729663	14	1
67	058	58	395	GE	R	HS1	3		20	19	0	1	-0.3244	-0.1582	0.8975	519011	6725648	6	2
68	059	59	402	ST	R	HS1	3		20	17	1	2	-0.9022	-0.5889	0.7669	519048	6725625	6	3
52	060	60	392	GE	U	M4	2		13	18	2	3	-0.7827	0.51	-0.0765	519399	6725139	6	4
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6	002	2	337	GE	U	T1	1		1	18	0	1	0.4315	0.0292	-0.4824	515278	6728968	1	6
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9	008	8	391	MO	U	T1	1		3	19	0	1	-0.3023	-0.1949	-0.4767	515277	6728622	1	8
10	010	10	404	MO	U	T1	1		3	20	0	1	-0.4419	-0.1423	-0.6387	515364	6728536	1	9
12	007	7	400	GE	R	T1	1		3	15	0	1	-0.2901	-0.0814	-0.7773	515277	6728640	1	10
13	009	9	400	MO	U	T1	1		3	17	0	1	-0.704	-0.0395	-0.3555	515409	6728688	1	11
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15	013	13	415	MO	R	T1	1		4	17	0	1	-0.0751	-0.2314	-0.4543	515437	6728459	1	13
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86	076	76	502	GE	U		10		37	14	1	2	1.0321	0.1035	-0.2073	529711	6741545	10	82
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88	078	78	377	ST	U		10		39	24	1	2	0.7523	-0.3756	0.3002	532629	6740055	11	84
89	079	79	390	MO	R		10		39	22	1	2	0.7863	0.2888	0.483	532589	6740107	11	85
90	090	90	331	GE	F		10		40	32	1	2	0.804	0.5762	0.4293	515852	6732784	13	86
91	091	91	335	VG	F		10		40	29	1	2	0.543	-0.6139	0.8101	515782	6732870	13	87
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93	081	81	459	GE	H		8		33	15	3	4	0.7577	0.0807	1.2178	526339	6737925	12	89
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95	096	96	351	ST	M		6		28	19	1	2	-0.1432	0.7437	0.728	521719	6730169	15	91
97	097	97	386	ST	U		6		28	19	2	3	0.2487	1.0511	0.6931	521767	6730079	15	92
96	100	100	356	GE	M		6		28	22	1	2	-0.0437	0.757	0.724	522277	6733394	16	93
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100	066	66	677	GE	R		9		34	14	1	2	0.8446	-0.8935	-0.1677	529007	6740271	10	96
101	070	70	656	MO	U		9		34	14	1	2	1.161	-0.6883	-0.3943	529224	6740550	10	97
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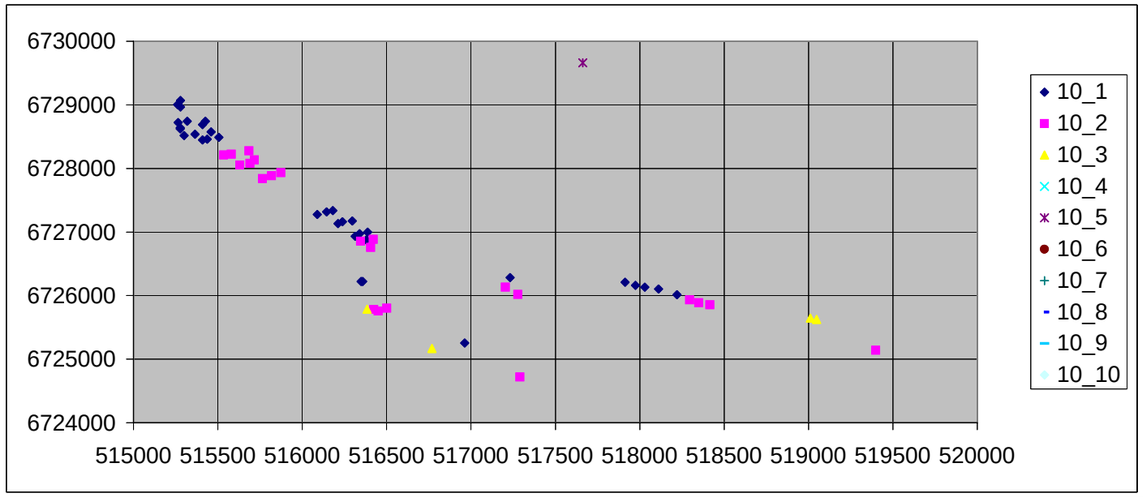
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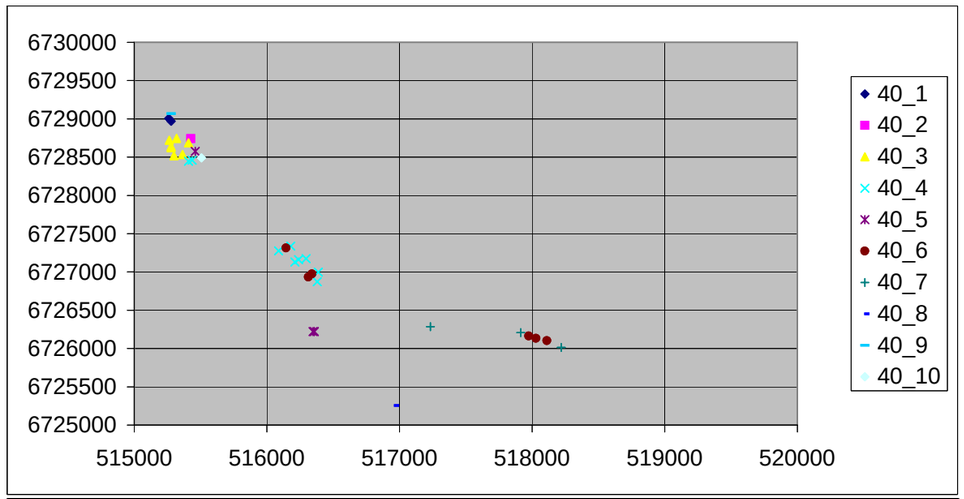
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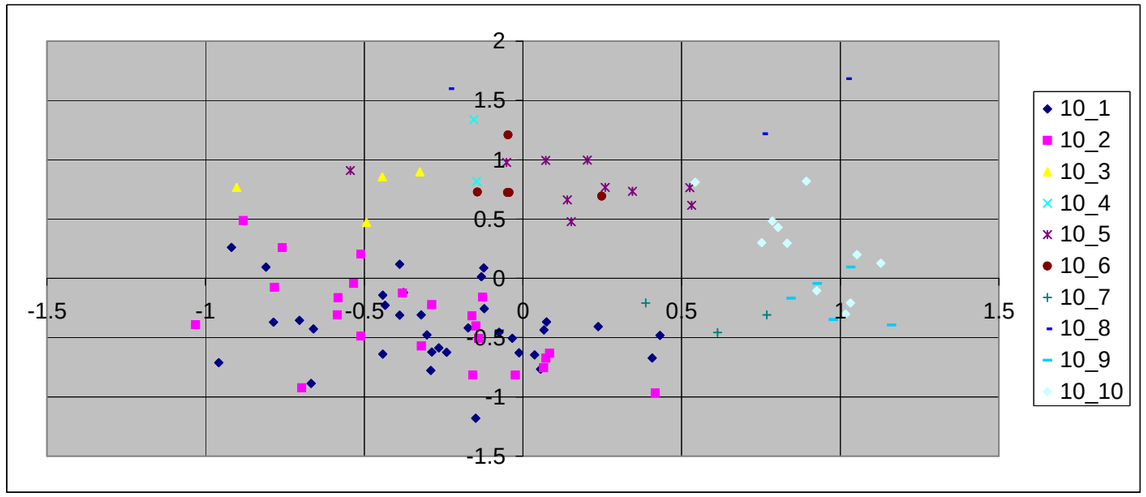
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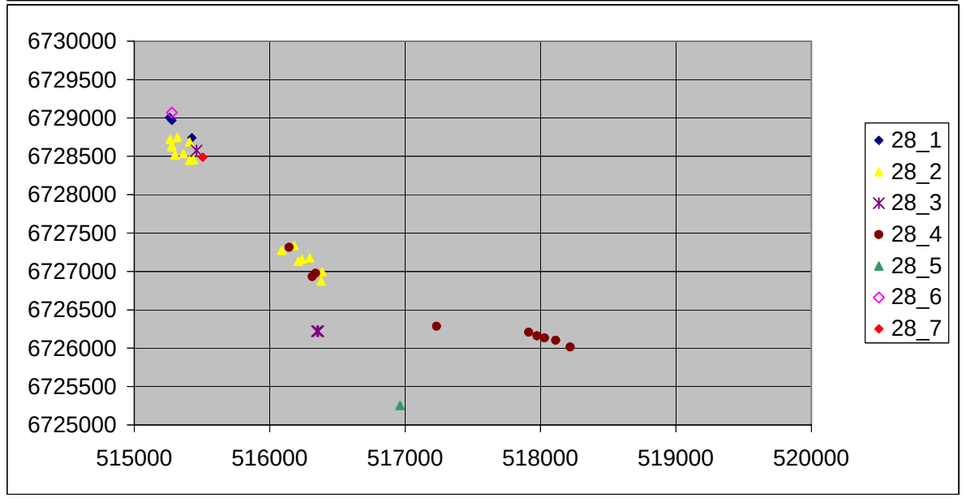
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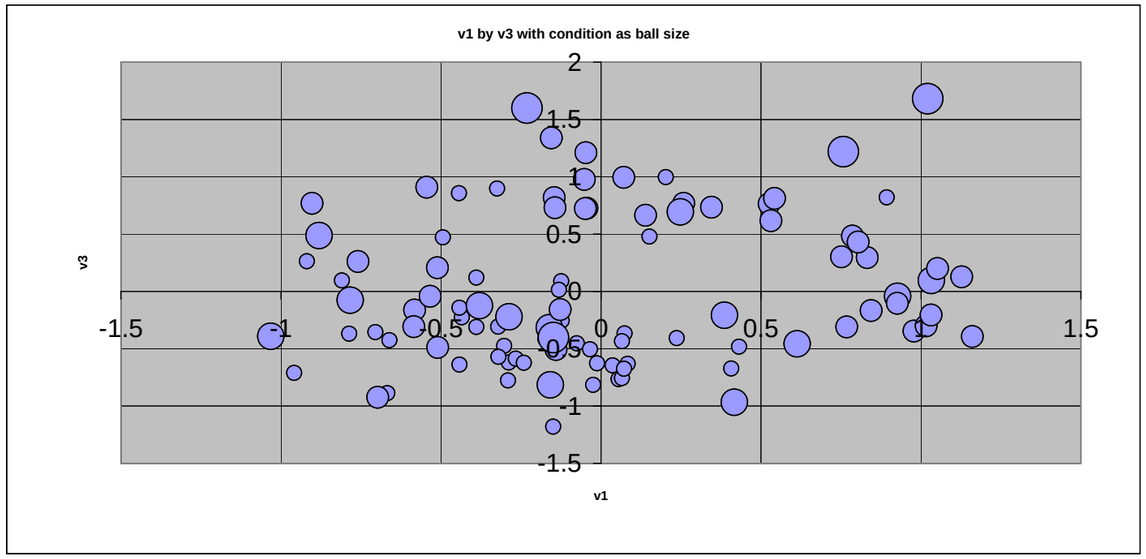
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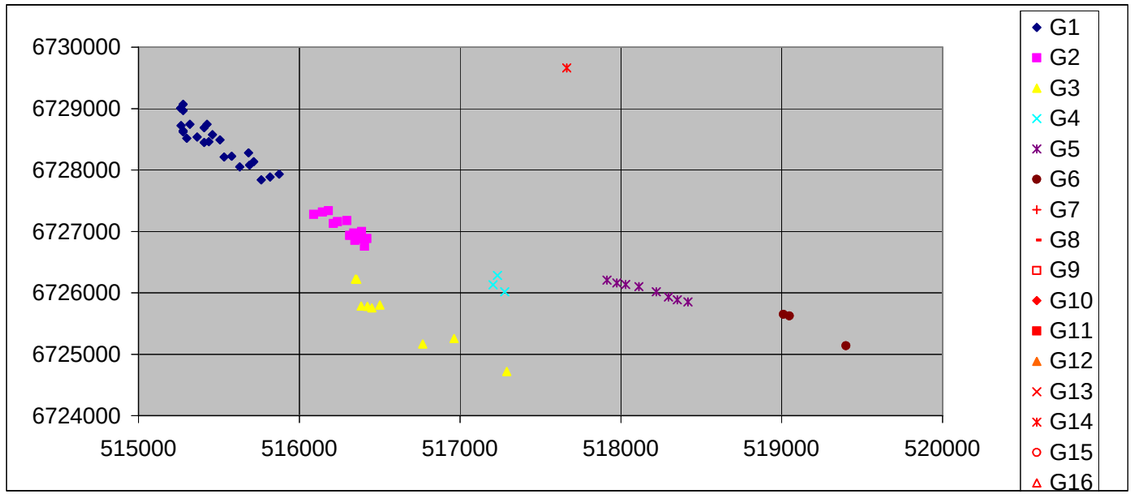
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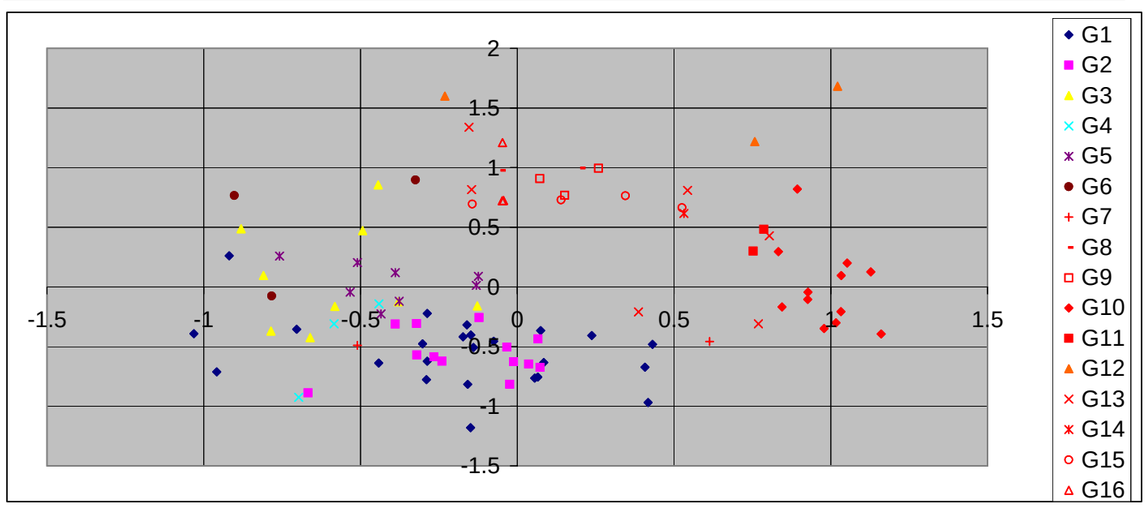
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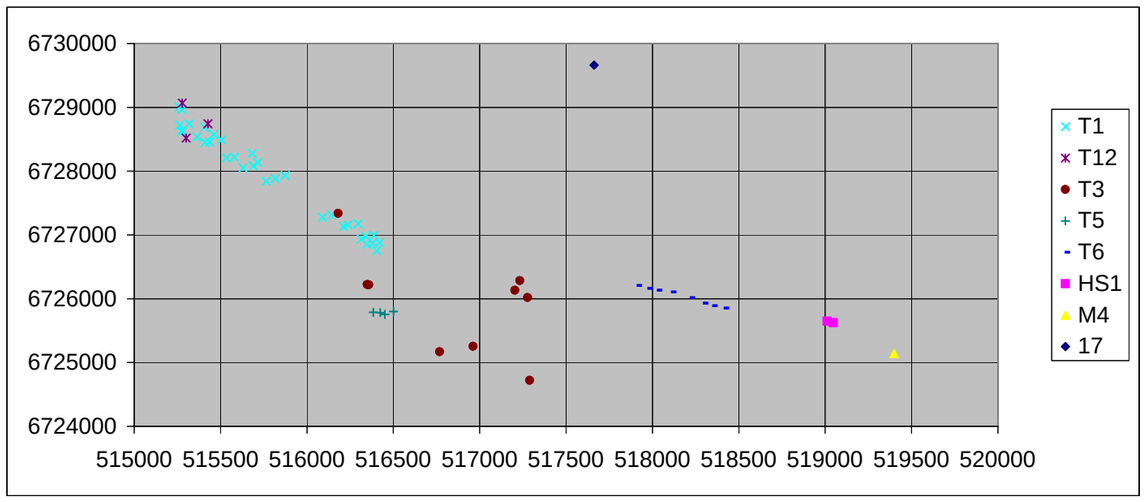
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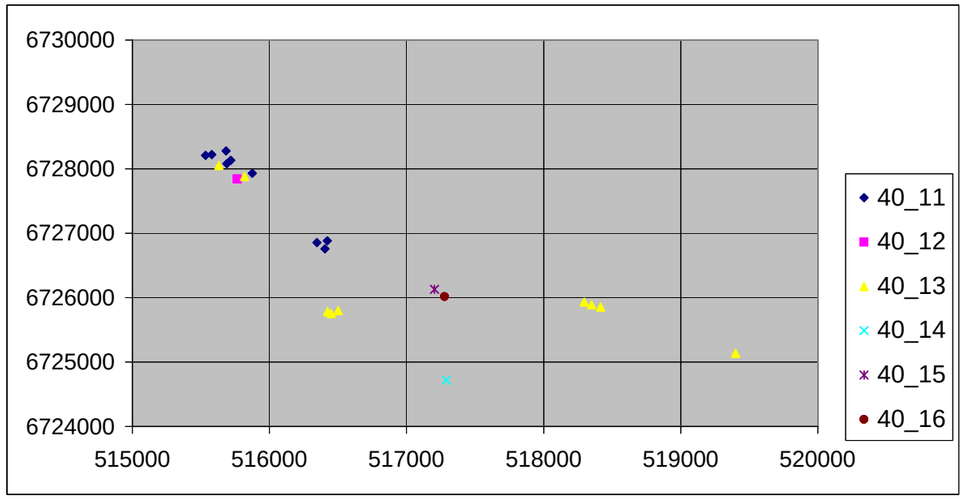
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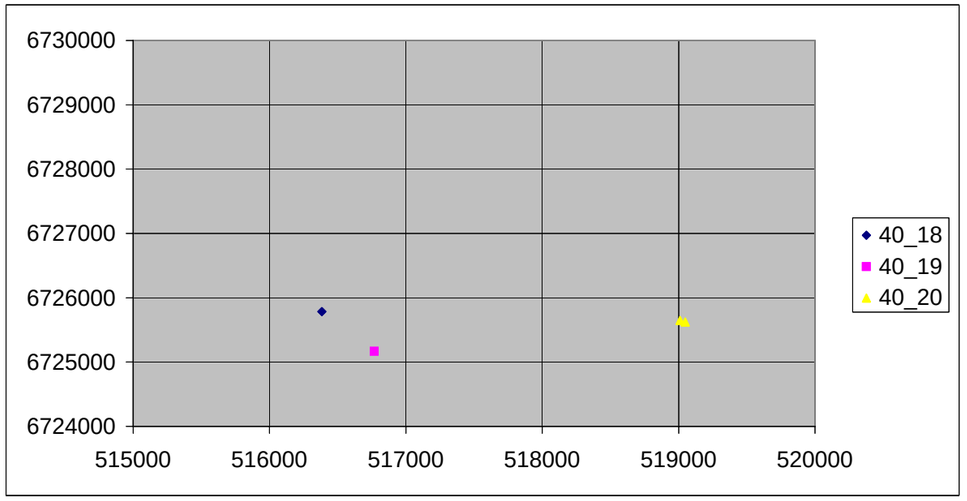
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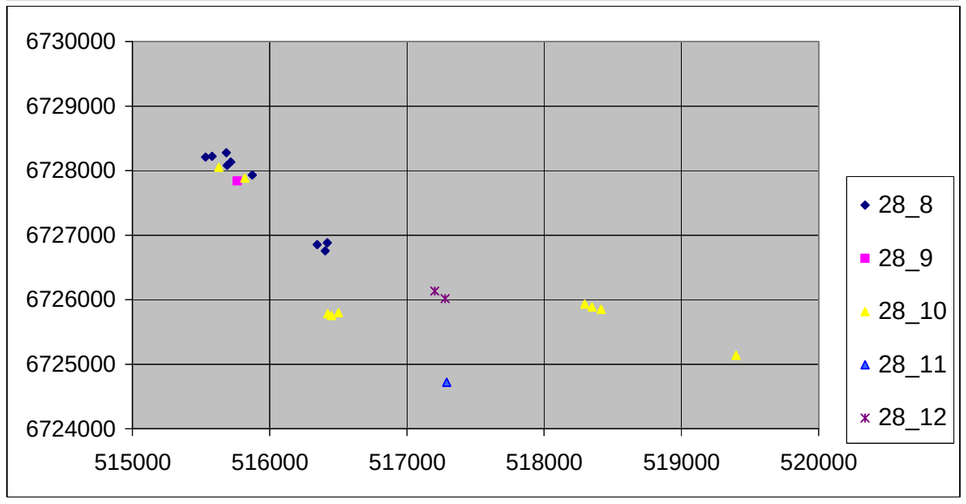
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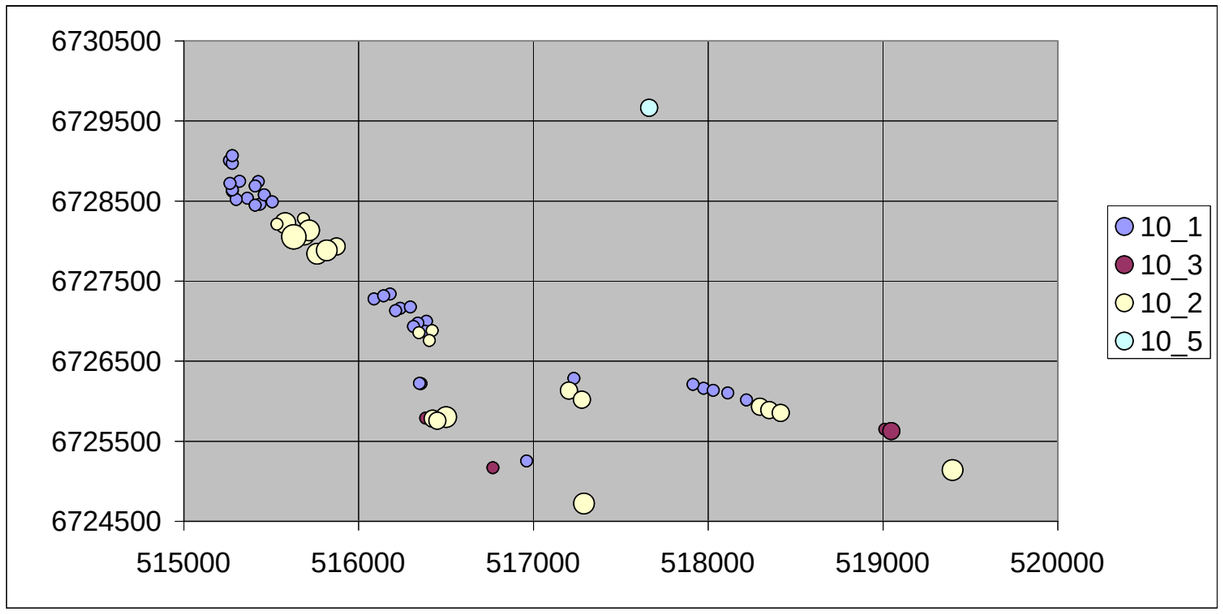
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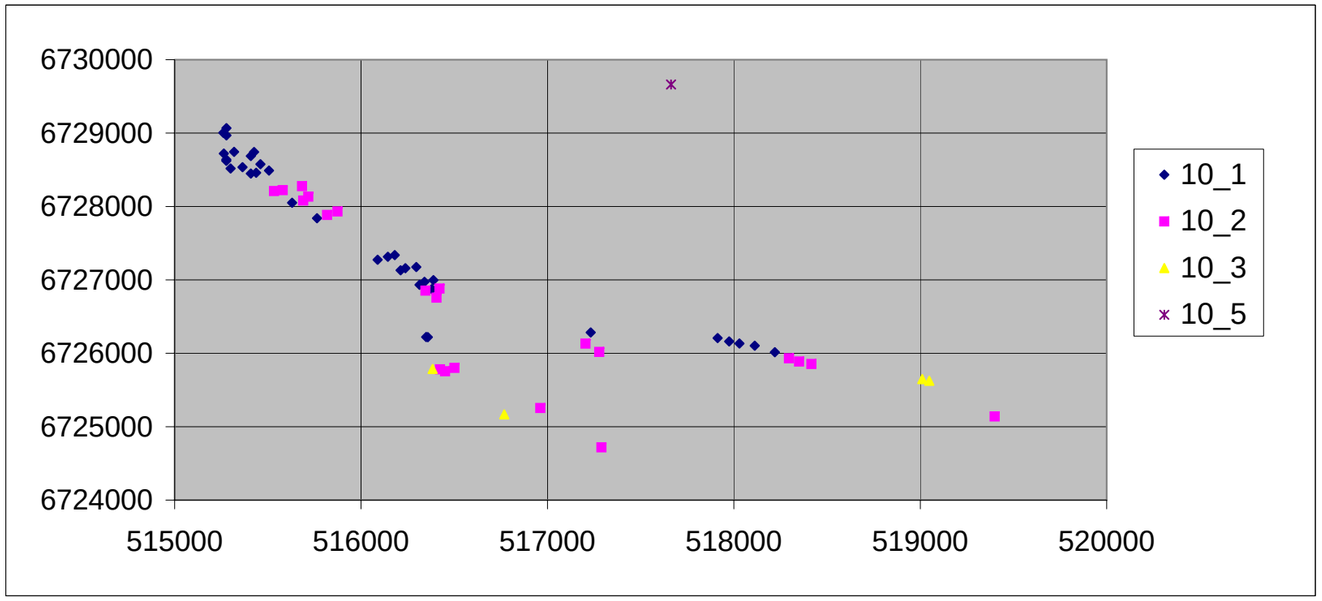
7	006	1	2	20	0	1	-0.8707	0.3906	0.1503	515426	6728743
8	004	1	3	18	0	1	-0.2721	0.0742	-0.3425	515319	6728744
9	008	1	3	19	0	1	-0.4117	0.0413	-0.3875	515277	6728622
10	010	1	3	20	0	1	-0.5334	0.092	-0.5458	515364	6728536
11	011	1	3	20	0	1	-0.4408	-0.0933	-0.6008	515300	6728517
12	007	1	3	15	0	1	-0.5091	0.3076	-0.4879	515277	6728640
13	009	1	3	17	0	1	-0.6857	0.2456	-0.2457	515409	6728688
14	005	1	3	17	0	1	0.356	0.4378	-0.5165	515264	6728721
15	013	1	4	17	0	1	-0.1972	-0.0677	-0.4229	515437	6728459
16	028	1	4	20	0	1	-0.2623	-0.2202	-0.5852	516238	6727160
17	014	1	4	17	0	1	0.0669	-0.3863	-0.4151	515409	6728448
18	029	1	4	16	0	1	-0.2118	-0.6563	-0.6567	516212	6727131
19	021	1	4	18	3	4	-0.1427	0.1061	-0.4126	515630	6728051
20	026	1	4	14	0	1	-0.0406	-0.429	-0.676	516089	6727275
21	027	1	4	14	0	1	0.0072	-0.1635	-0.6643	516181	6727337
22	030	1	4	18	0	1	0.0426	-0.0516	-0.4389	516296	6727175
23	033	1	4	16	0	1	-0.0342	-0.2359	-0.5466	516388	6726997
24	034	1	4	21	0	1	-0.1259	-0.2155	-0.2961	516380	6726874
25	012	1	5	14	0	1	-0.9787	0.2139	-0.6076	515460	6728576
26	038	1	5	16	0	1	-0.6951	-0.1584	-0.4229	516358	6726220
27	039	1	5	17	0	1	-0.8109	-0.1822	-0.3844	516349	6726222
28	025	1	6	11	0	1	-0.586	-0.5077	-0.9532	516144	6727315
29	031	1	6	18	0	1	-0.4213	-0.3878	-0.3778	516340	6726974
30	032	1	6	16	0	1	-0.3657	-0.7993	-0.3526	516314	6726933
31	051	1	6	18	0	1	-0.4609	-0.7904	-0.3667	517975	6726162
32	052	1	6	27	0	1	-0.1414	-0.6999	0.1027	518030	6726134
33	053	1	6	23	0	1	-0.1062	-0.9077	-0.0174	518112	6726103
34	049	1	7	18	0	1	-0.2907	-0.6502	-0.183	517232	6726284
35	050	1	7	24	0	1	-0.3201	-0.5293	-0.1594	517913	6726208
36	054	1	7	24	0	1	-0.4286	-0.4668	0.1429	518220	6726015
37	003	1	8	14	0	1	0.1845	-0.4765	-1.1302	515278	6729068
38	015	1	9	17	0	1	-0.0153	-0.53	-1.0898	515506	6728489
39	024	1	10	16	2	3	0.4937	-0.253	-0.8513	515764	6727841
40	016	2	11	15	2	3	-0.1489	0.4711	-0.8675	515580	6728223
41	017	2	11	17	0	1	0.0729	0.485	-0.7596	515533	6728210
42	035	2	11	23	0	1	-0.1595	0.186	-0.7347	516346	6726853
43	036	2	11	25	0	1	0.0495	0.0493	-0.8658	516421	6726882
44	037	2	11	17	0	1	0.166	0.208	-0.7519	516405	6726757
45	019	2	12	21	2	3	-0.106	0.5574	-0.3075	515690	6728081
46	020	2	12	22	2	3	-0.271	0.5121	-0.2631	515717	6728134
47	023	2	12	18	1	2	-0.1275	0.6713	-0.586	515874	6727932
48	018	2	13	20	0	1	0.0643	0.4561	-0.7764	515684	6728278
49	047	2	13	11	1	2	-0.6291	0.3602	-0.9708	517204	6726131
50	048	2	14	18	1	2	-0.5885	0.6579	-0.3505	517278	6726018
51	062	2	15	9	1	2	-0.4795	1.2395	-0.5705	514163	6733575
52	022	2	16	19	2	3	-0.9303	-0.2842	-0.6036	515818	6727884
53	040	2	16	20	1	2	-0.4609	-0.298	-0.2241	516451	6725755
54	043	2	16	25	2	3	0.0644	0.051	-0.1815	516501	6725800
55	041	2	16	24	1	2	0.1614	-0.4782	-0.2698	516424	6725781
56	055	2	16	27	1	2	-0.0886	-0.473	0.1982	518296	6725931
57	056	2	16	24	1	2	-0.4416	-0.3039	-0.075	518350	6725887
58	060	2	16	18	2	3	-0.8313	-0.4192	-0.0656	519399	6725139
59	057	2	16	32	1	2	-0.4879	-0.7554	0.1462	518416	6725853
60	046	2	17	27	2	3	-0.954	-0.0769	0.4551	517290	6724719
61	045	2	18	23	0	1	-0.6625	-0.5473	0.2444	516962	6725254
62	042	3	19	22	0	1	-0.6739	-0.0552	0.4091	516384	6725786
63	044	3	19	26	0	1	-0.3374	-0.5363	0.8449	516768	6725167
64	058	3	20	19	0	1	-0.4054	0.0783	0.8909	519011	6725648
65	059	3	20	17	1	2	-1.0802	-0.1785	0.7487	519048	6725625
66	088	4	21	28	1	2	-0.3017	-0.0098	1.3382	516077	6732999
67	089	4	22	18	1	2	-0.5394	-0.3354	0.9538	516145	6732981
68	063	5	23	25	1	2	-0.0639	0.1072	0.9968	517949	6738107
69	064	5	23	25	0	1	0.1382	0.2022	1.0175	517900	6738164
70	083	5	24	29	0	1	-0.0125	0.4894	0.4292	519288	6743377
71	084	5	24	25	1	2	0.0686	0.5564	0.7432	519176	6743561
72	085	5	24	26	1	2	-0.0606	0.5271	0.9645	519144	6743592
73	065	5	25	32	1	2	-0.5831	0.8741	0.6752	519984	6742246
74	093	5	26	24	1	2	0.3008	0.1697	0.7645	521959	6729526
75	094	5	26	24	1	2	0.474	0.5372	0.7985	521965	6729602
76	095	5	26	24	1	2	0.1098	-0.2399	0.6937	521975	6729386
77	092	5	27	27	1	2	0.5599	-0.3077	0.6585	517663	6729663
78	096	6	28	19	1	2	-0.2349	0.7741	0.6986	521719	6730169
79	100	6	28	22	1	2	0.0595	0.771	0.7397	522277	6733394
80	097	6	28	19	2	3	0.1135	1.0896	0.7004	521767	6730079



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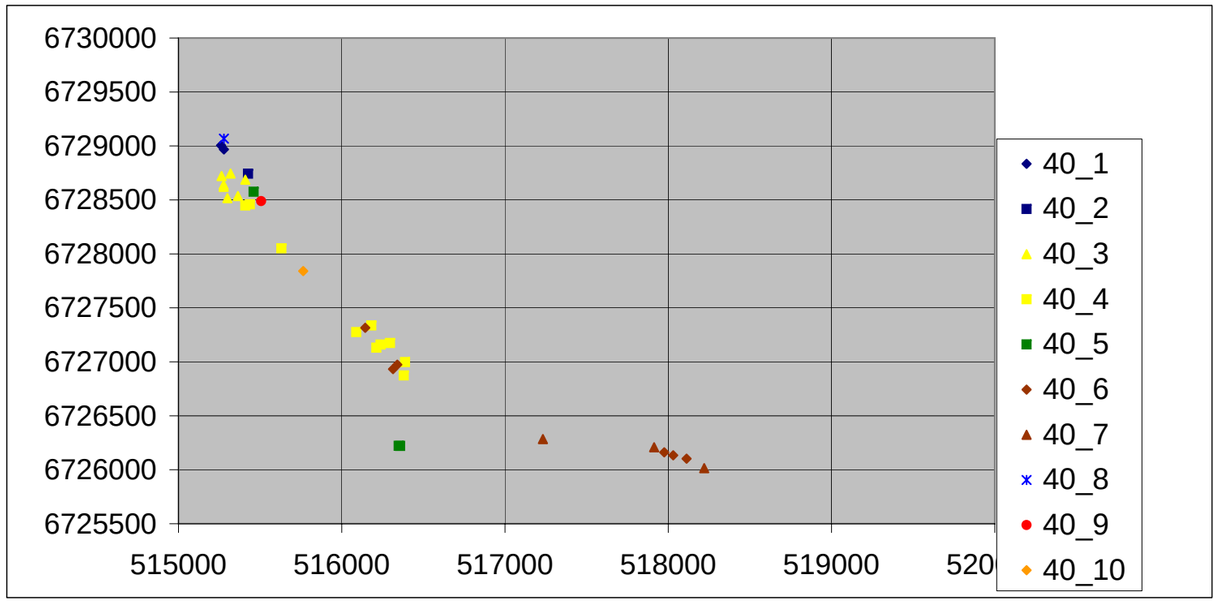
82	099	6	29	19	1	2	-0.1332	1.1539	0.6432	521861	6734325
83	061	7	30	16	2	3	0.7821	0.7998	-0.5987	514581	6733514
84	086	7	31	17	2	3	0.2947	1.0872	-0.2564	516046	6733471
85	087	7	31	19	1	2	1.1206	0.4932	-0.5036	515981	6733513
86	080	8	32	10	3	4	-0.3621	0.8909	1.4774	526896	6737997
87	081	8	33	15	3	4	0.7109	0.0973	1.2753	526339	6737925
88	082	8	33	11	3	4	1.0746	0.3364	1.8321	526327	6737984
89	066	9	34	14	1	2	0.8267	-0.9734	0.0087	529007	6740271
90	070	9	34	14	1	2	1.209	-0.7623	-0.2402	529224	6740550
91	067	9	34	13	2	3	0.9833	-0.8763	0.0751	528944	6740301
92	069	9	34	13	2	3	1.0433	-0.8494	0.2516	529062	6740362
93	068	9	34	14	1	2	0.9485	-0.6846	-0.1716	529099	6740246
94	071	10	35	25	1	2	0.9648	0.4789	0.2261	529017	6740790
95	072	10	36	13	1	2	0.9055	0.563	-0.1426	529071	6740772
96	073	10	36	21	1	2	0.9474	-0.1618	0.0155	529182	6741021
97	074	10	37	15	1	2	1.154	0.01	0.1911	529224	6741197
98	075	10	37	20	1	2	0.8636	-0.1404	0.3428	529426	6741380
99	076	10	37	14	1	2	1.0649	0.0614	-0.1074	529711	6741545
100	077	10	38	21	0	1	0.8552	0.107	0.8789	530310	6741516
101	078	10	39	24	1	2	0.7561	-0.3272	0.3989	532629	6740055
102	079	10	39	22	1	2	0.7548	0.3747	0.5158	532589	6740107
103	090	10	40	32	1	2	0.6498	0.7667	0.4373	515852	6732784
104	091	10	40	29	1	2	0.4776	-0.5512	0.9091	515782	6732870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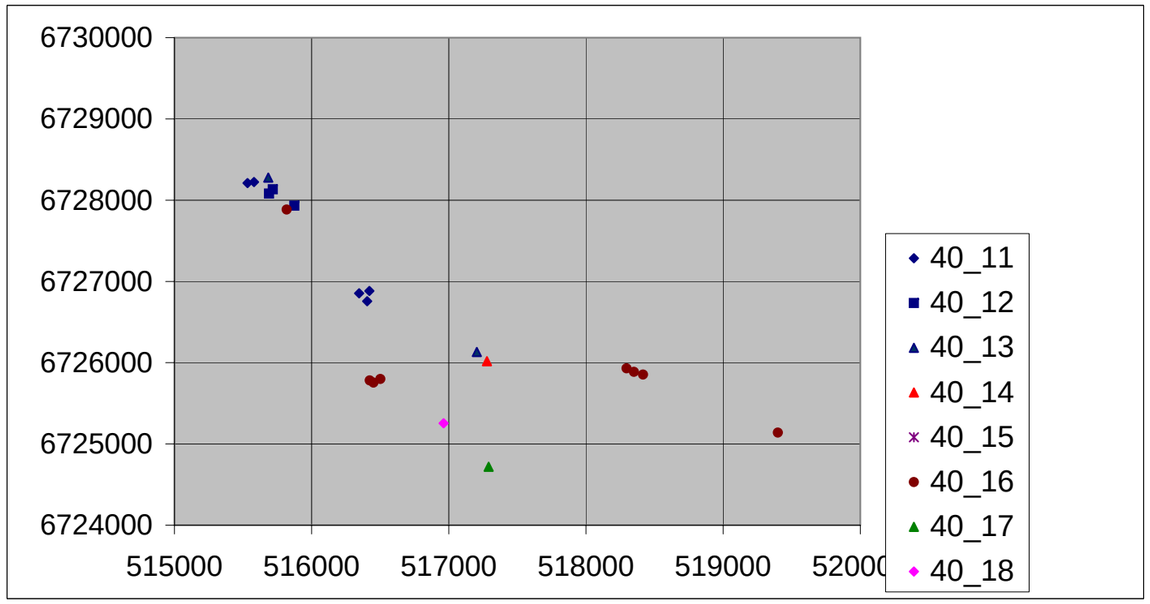
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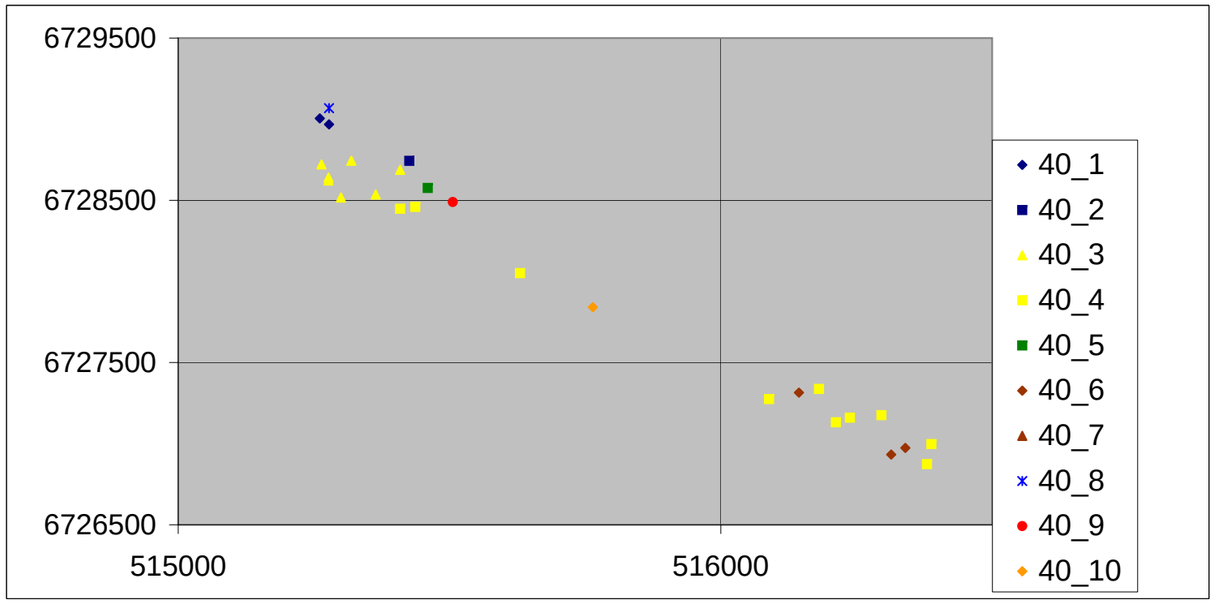
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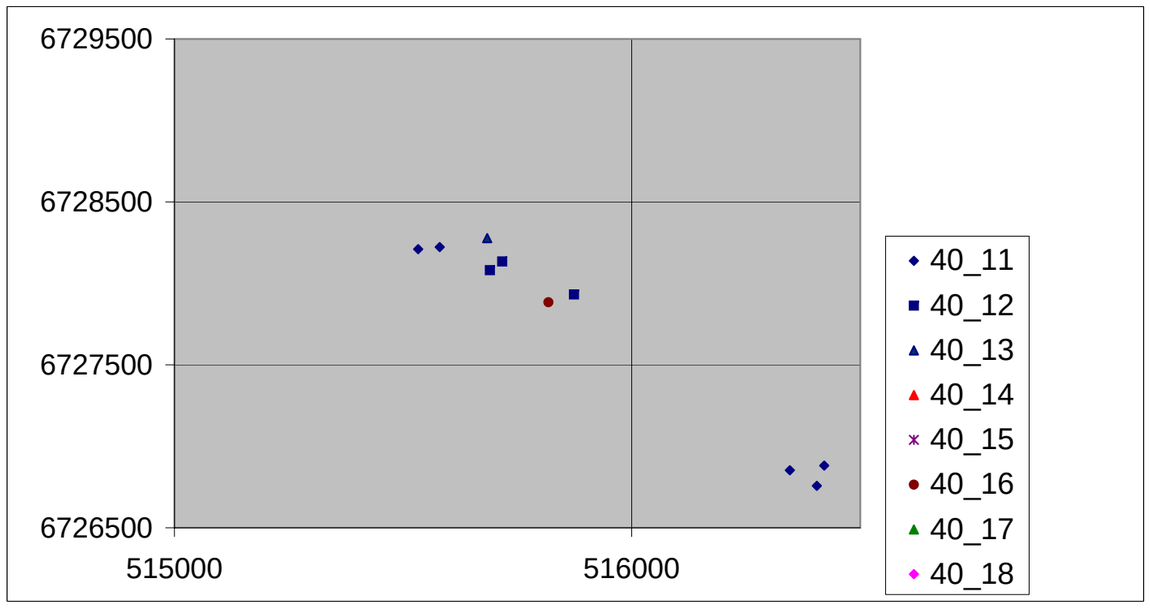
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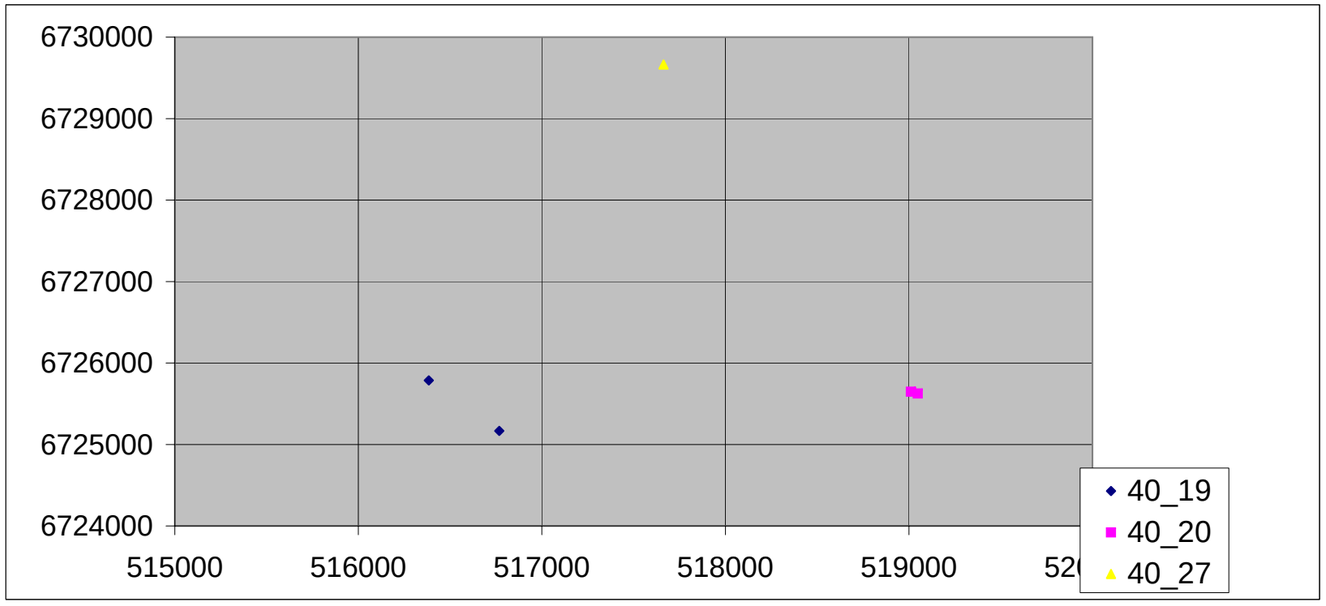
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Ordered by Classification

ID	site	gp10	gp40	no_sp	condition	Expr1	v1	v2	v3	easting	northing
5	001	1	1	20	0	1	0.5588	0.441	0.0866	515261	6729005
6	002	1	1	18	0	1	0.0804	-0.0449	-0.7032	515278	6728968
7	005	1	2	17	0	1	0.4929	-0.0468	-0.782	515264	6728721
8	015	1	3	17	0	1	0.9699	-0.1973	-0.5061	515506	6728489
9	003	1	4	14	0	1	0.5512	0.3415	-0.5402	515278	6729068
10	006	1	5	20	0	1	-0.1093	-0.1461	-0.8216	515426	6728743
11	004	1	6	18	0	1	0.3125	-0.1406	-0.2657	515319	6728744
12	007	1	6	15	0	1	0.4239	-0.1975	-0.4486	515277	6728640
13	008	1	6	19	0	1	0.3688	-0.1257	-0.2188	515277	6728622
14	010	1	6	20	0	1	0.4202	-0.2565	-0.2415	515364	6728536
15	011	1	6	20	0	1	0.3204	-0.171	-0.2541	515300	6728517
16	009	1	6	17	0	1	0.2137	-0.3166	-0.5005	515409	6728688
17	013	1	7	17	0	1	0.495	-0.036	-0.2004	515437	6728459
18	026	1	7	14	0	1	0.5755	0.0186	-0.3253	516089	6727275
19	014	1	7	17	0	1	0.658	0.2748	-0.0406	515409	6728448
20	029	1	7	16	0	1	0.4773	0.1328	0.1702	516212	6727131
21	028	1	7	20	0	1	0.3936	-0.1715	0.1766	516238	6727160
22	025	1	7	11	0	1	0.6522	-0.2054	0.4423	516144	6727315
23	031	1	7	18	0	1	0.4777	-0.0222	0.2259	516340	6726974
24	032	1	7	16	0	1	0.5017	0.1858	0.345	516314	6726933
25	027	1	7	14	0	1	0.1607	-0.1069	-0.2994	516181	6727337
26	030	1	7	18	0	1	0.1958	0.022	-0.081	516296	6727175
27	033	1	7	16	0	1	0.1925	-0.0355	0.0326	516388	6726997
28	034	1	7	21	0	1	0.2512	-0.0372	0.1497	516380	6726874
29	012	1	8	14	0	1	0.9008	-0.4208	-0.4226	515460	6728576
30	038	1	8	16	0	1	0.781	-0.3679	0.0269	516358	6726220
31	039	1	8	17	0	1	1.0064	-0.4521	0.1382	516349	6726222
32	049	1	9	18	0	1	0.6831	0.0226	0.14	517732	6726284
33	050	1	9	24	0	1	0.671	-0.0705	0.0568	517913	6726208
34	054	1	9	24	0	1	0.219	0.09	0.4823	518220	6726015
35	051	1	9	18	0	1	0.6848	0.1188	0.3581	517975	6726162
36	052	1	9	27	0	1	0.5855	0.1961	0.5824	518030	6726134
37	053	1	9	23	0	1	0.4973	0.3054	0.5007	518112	6726103
38	045	1	10	23	0	1	0.0692	0.0705	1.0563	516962	6725254
39	016	2	11	15	2	3	0.3324	-0.872	0.3109	515580	6728223
40	036	2	11	25	0	1	0.6609	-0.5734	0.4073	516421	6726882
41	035	2	11	23	0	1	0.3257	-0.5327	0.6179	516346	6726853
42	017	2	11	17	0	1	0.2336	-0.6654	-0.3047	515533	6728210
43	037	2	11	17	0	1	0.5574	-0.6924	0.3891	516405	6726757
44	019	2	12	21	2	3	0.0453	-0.5887	-0.1478	515690	6728081
45	020	2	12	22	2	3	0.1238	-0.8604	0.0787	515717	6728134
46	023	2	12	18	1	2	0.4946	-0.947	-0.0646	515874	6727932
47	018	2	13	20	0	1	0.1292	-0.9377	0.3653	515684	6728278
48	047	2	13	11	1	2	0.0823	-0.6706	0.1515	517204	6726131
49	024	2	14	16	2	3	0.9244	-0.1953	0.636	515764	6727841
50	048	2	15	18	1	2	0.0456	-0.9036	-0.2799	517278	6726018
51	062	2	16	9	1	2	0.3862	-1.2349	-0.3819	514163	6733575
52	021	2	17	18	3	4	0.2184	-0.3678	0.0212	515630	6728051
53	043	2	17	25	2	3	-0.0151	-0.5703	0.3407	516501	6725800
54	041	2	17	24	1	2	-0.1437	-0.4596	0.5761	516424	6725781
55	022	2	17	19	2	3	0.4856	-0.7099	0.7514	515818	6727884
56	040	2	17	20	1	2	0.1004	-0.369	0.5395	516451	6725755
57	055	2	17	27	1	2	-0.0732	-0.3318	0.723	518296	6725931
58	056	2	17	24	1	2	0.2829	-0.3562	0.5889	518350	6725887
59	060	2	17	18	2	3	0.1046	-0.2964	0.8985	519399	6725139
60	057	2	17	32	1	2	-0.2203	-0.2393	0.7063	518416	6725853
61	046	2	18	27	2	3	-0.2431	-0.7359	-0.7332	517290	6724719
62	042	3	19	22	0	1	-0.3087	0.1195	-0.5899	516384	6725786
63	044	3	19	26	0	1	-0.8047	-0.4243	-0.5295	516768	6725167
64	063	3	20	25	1	2	-0.9157	0.4029	-0.0142	517949	6738107
65	064	3	20	25	0	1	-0.9237	0.4263	-0.234	517900	6738164
66	058	3	21	19	0	1	-0.6495	0.6475	-0.3131	519011	6725648
67	059	3	21	17	1	2	-0.5378	0.325	-0.4012	519048	6725625
68	088	4	22	28	1	2	-0.8606	0.1304	-1.1566	516077	6732999
69	090	4	23	32	1	2	-0.3865	0.7451	-0.808	515852	6732784
70	091	4	23	29	1	2	-0.4267	0.7414	-0.8692	515782	6732870
71	089	4	24	18	1	2	-0.6577	0.1221	-0.9427	516145	6732981
72	077	5	25	21	0	1	-0.2498	0.5839	-1.1129	530310	6741516
73	081	5	26	15	3	4	-0.8968	1.1507	-0.6875	526339	6737925
74	082	5	26	11	3	4	-0.1884	1.2155	-1.019	526327	6737984
75	080	6	27	10	3	4	-2.1025	0.1488	0.4839	526896	6737997
76	065	7	28	32	1	2	-0.9893	-0.3073	0.7026	519984	6742246
77	095	7	28	24	1	2	-0.7334	0.0548	0.7498	521975	6729386
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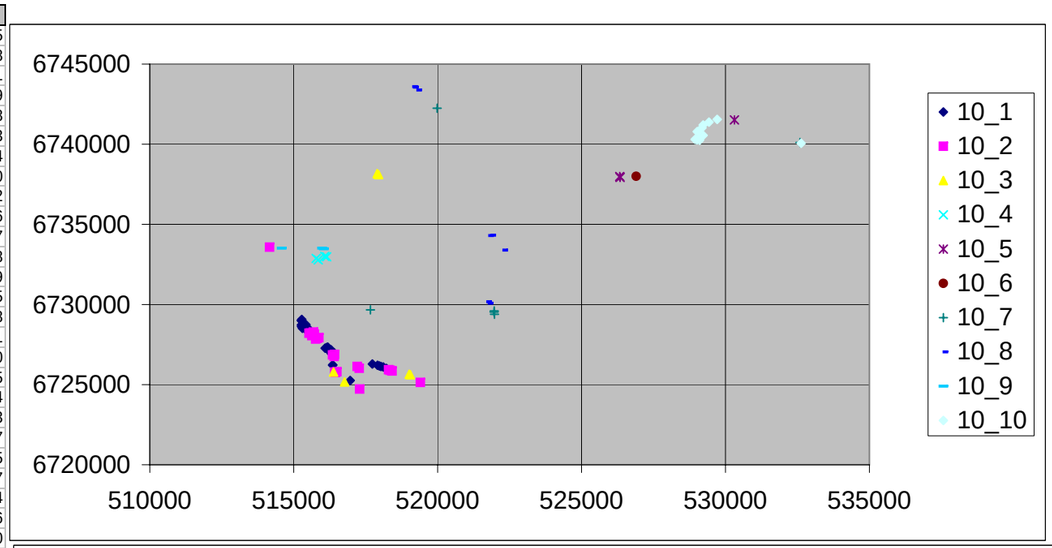
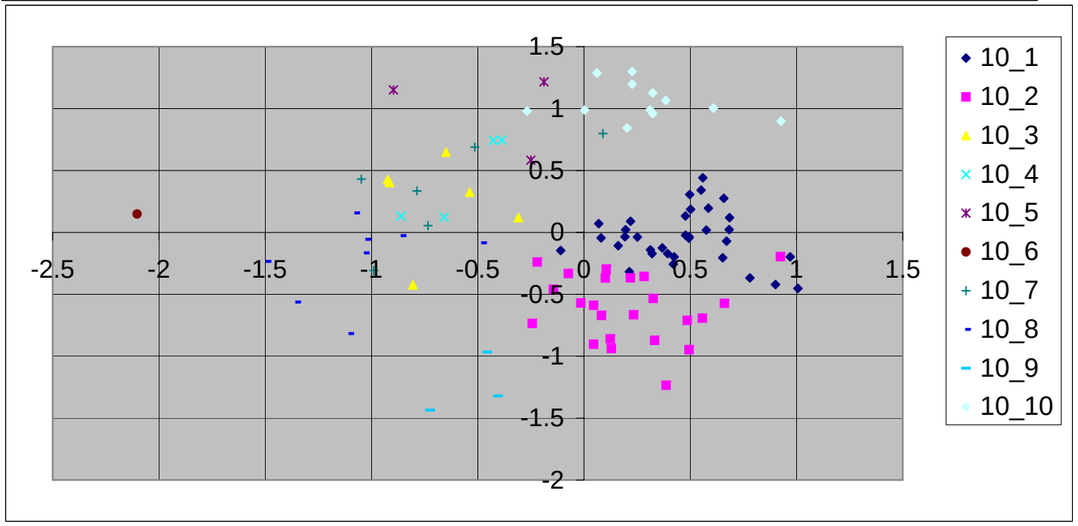
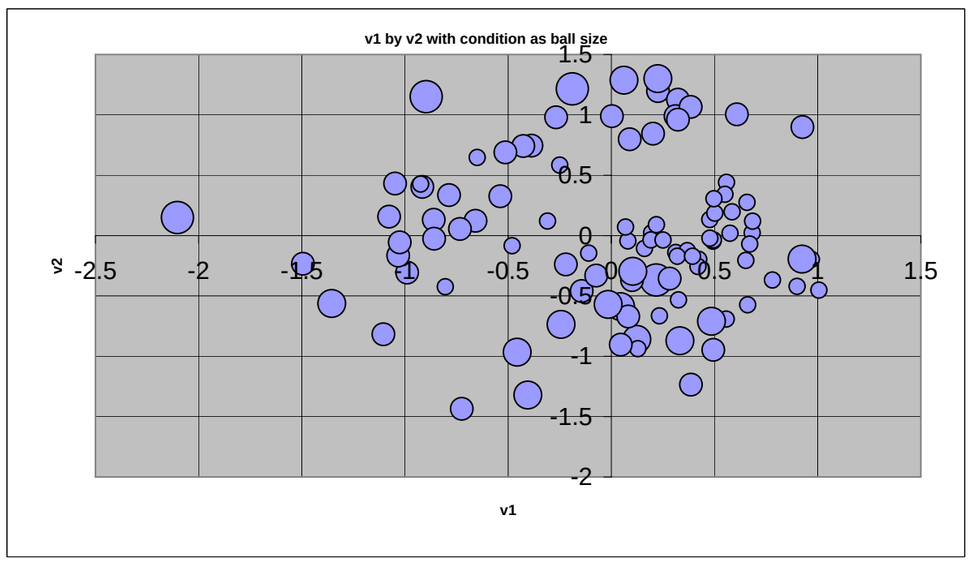
81	092	7	30	27	1	2	-0.5135	0.6887	0.6503	517663	6729663
82	083	8	31	29	0	1	-0.4802	-0.0848	-0.0726	519288	6743377
83	084	8	31	25	1	2	-0.8586	-0.0264	-0.1253	519176	6743561
84	085	8	31	26	1	2	-1.0768	0.1565	0.0879	519144	6743592
85	096	8	32	19	1	2	-1.0324	-0.1658	-0.1112	521719	6730169





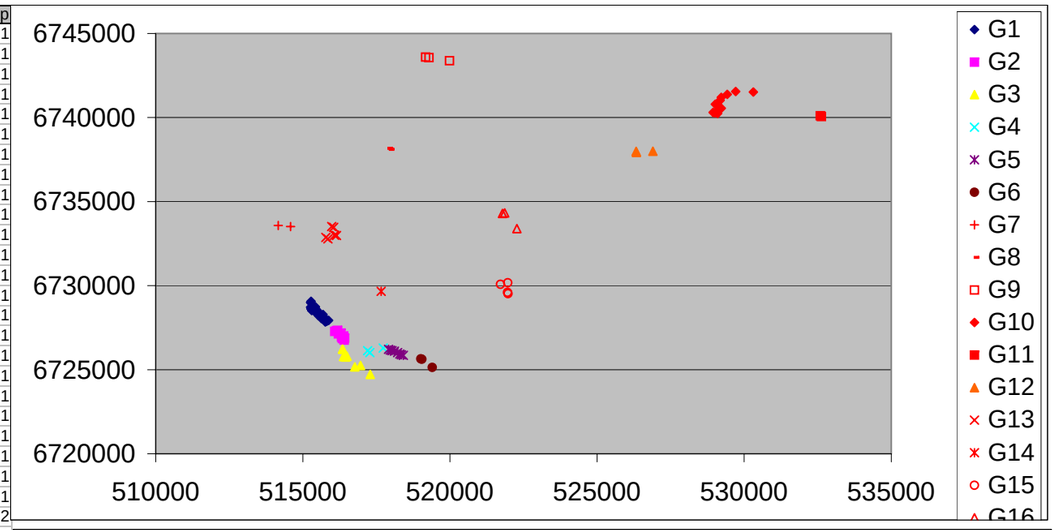


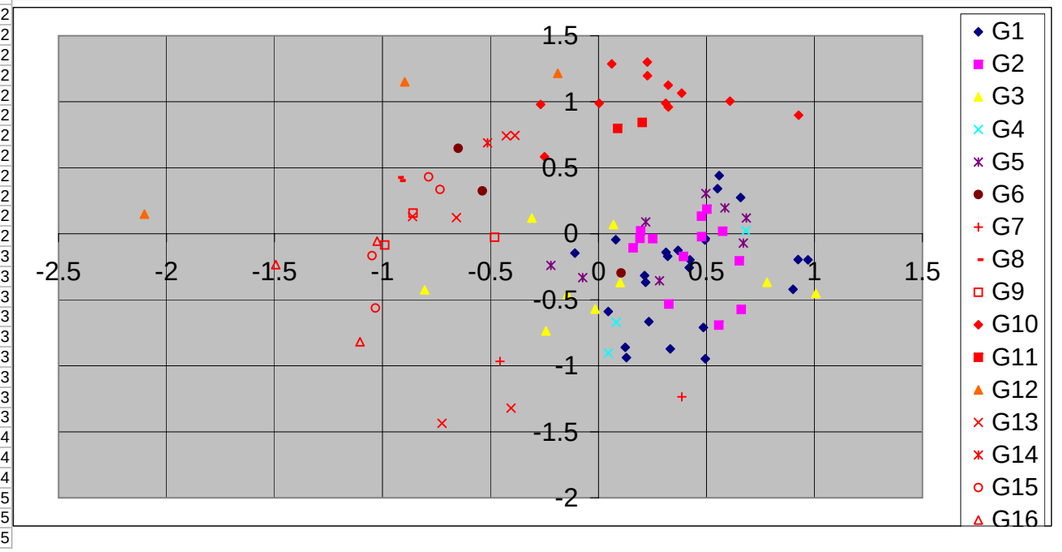
Ordered by Classification

ID	site	gp10	gp40	no_sp	condition	Expr1	v1	v2	v3	easting	northing
86	100	8	32	22	1	2	-1.0249	-0.0562	0.1603	522277	6733394
87	099	8	33	19	1	2	-1.4943	-0.2339	0.0769	521861	6734325
88	097	8	34	19	2	3	-1.3547	-0.5627	0.2352	521767	6730079
89	098	8	34	15	1	2	-1.1043	-0.8176	0.2909	521785	6734296
90	061	9	35	16	2	3	-0.456	-0.9663	-0.5885	514581	6733514
91	086	9	36	17	2	3	-0.4046	-1.3209	0.0496	516046	6733471
92	087	9	36	19	1	2	-0.7245	-1.4357	-0.2407	515981	6733513
93	066	10	37	14	1	2	0.2266	1.1972	0.4239	529007	6740271
94	070	10	37	14	1	2	0.3231	1.1256	0.7295	529224	6740550
95	068	10	37	14	1	2	0.6089	1.0043	-0.1873	529099	6740246
96	067	10	37	13	2	3	0.0614	1.287	0.1833	528944	6740301
97	069	10	37	13	2	3	0.2261	1.3002	0.0196	529062	6740362
98	071	10	38	25	1	2	-0.2676	0.9798	0.1073	529017	6740790
99	072	10	38	13	1	2	0.3112	0.989	-0.0321	529071	6740772
100	073	10	39	21	1	2	0.0033	0.9886	-0.0118	529182	6741021
101	075	10	39	20	1	2	0.3852	1.0654	0.1371	529426	6741380
102	078	10	39	24	1	2	0.2026	0.8434	-0.5699	532629	6740055
103	074	10	40	15	1	2	0.3235	0.9597	-0.3733	529224	6741197
104	076	10	40	14	1	2	0.9266	0.8985	-0.3431	529711	6741545

Ordered by Geographic Group

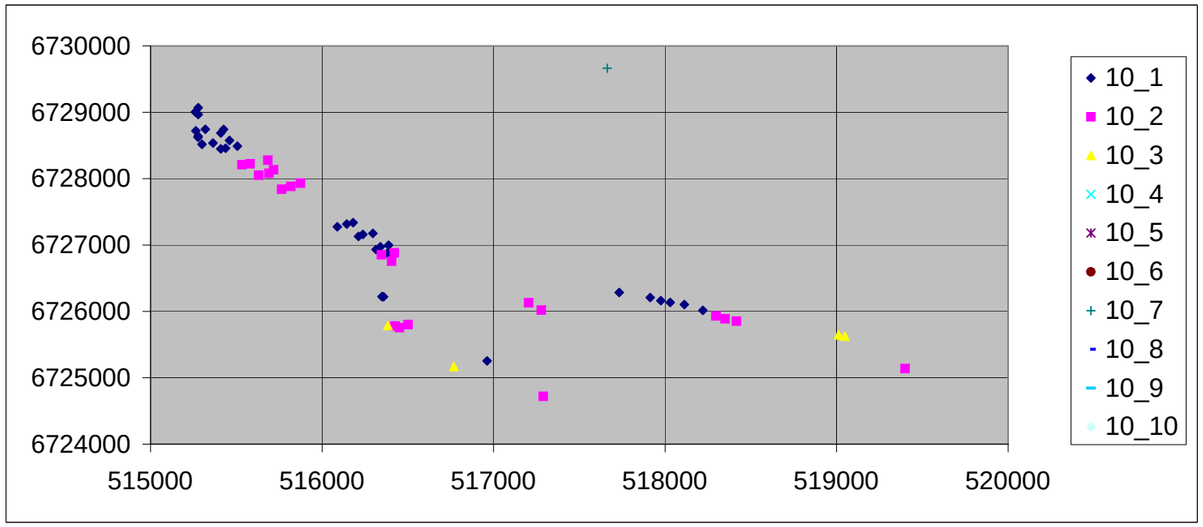
ID	site	gp10	gp40	no_sp	condition	Expr1	v1	v2	v3	easting	northing	geo_group
5	001	1	1	20	0	1	0.5588	0.441	0.0866	515261	6729005	1
6	002	1	1	18	0	1	0.0804	-0.0449	-0.7032	515278	6728968	1
7	005	1	2	17	0	1	0.4929	-0.0468	-0.782	515264	6728721	1
8	015	1	3	17	0	1	0.9699	-0.1973	-0.5061	515506	6728489	1
9	003	1	4	14	0	1	0.5512	0.3415	-0.5402	515278	6729068	1
10	006	1	5	20	0	1	-0.1093	-0.1461	-0.8216	515426	6728743	1
11	004	1	6	18	0	1	0.3125	-0.1406	-0.2657	515319	6728744	1
12	007	1	6	15	0	1	0.4239	-0.1975	-0.4486	515277	6728640	1
13	008	1	6	19	0	1	0.3688	-0.1257	-0.2188	515277	6728622	1
14	010	1	6	20	0	1	0.4202	-0.2565	-0.2415	515364	6728536	1
15	011	1	6	20	0	1	0.3204	-0.171	-0.2541	515300	6728517	1
16	009	1	6	17	0	1	0.2137	-0.3166	-0.5005	515409	6728688	1
17	013	1	7	17	0	1	0.495	-0.036	-0.2004	515437	6728459	1
19	014	1	7	17	0	1	0.658	0.2748	-0.0406	515409	6728448	1
29	012	1	8	14	0	1	0.9008	-0.4208	-0.4226	515460	6728576	1
39	016	2	11	15	2	3	0.3324	-0.872	0.3109	515580	6728223	1
42	017	2	11	17	0	1	0.2336	-0.6654	-0.3047	515533	6728210	1
44	019	2	12	21	2	3	0.0453	-0.5887	-0.1478	515690	6728081	1
45	020	2	12	22	2	3	0.1238	-0.8604	0.0787	515717	6728134	1
46	023	2	12	18	1	2	0.4946	-0.947	-0.0646	515874	6727932	1
47	018	2	13	20	0	1	0.1292	-0.9377	0.3653	515684	6728278	1
49	024	2	14	16	2	3	0.9244	-0.1953	0.636	515764	6727841	1
52	021	2	17	18	3	4	0.2184	-0.3678	0.0212	515630	6728051	1
55	022	2	17	19	2	3	0.4856	-0.7099	0.7514	515818	6727884	1
18	026	1	7	14	0	1	0.5755	0.0186	-0.3253	516089	6727275	2
20	029	1	7	16	0	1	0.4773	0.1328	0.1702	516212	6727131	2
21	028	1	7	20	0	1	0.3936	-0.1715	0.1766	516238	6727160	2
22	025	1	7	11	0	1	0.6522	-0.2054	0.4423	516144	6727315	2
23	031	1	7	18	0	1	0.4777	-0.0222	0.2259	516340	6726974	2
24	032	1	7	16	0	1	0.5017	0.1858	0.345	516314	6726933	2
25	027	1	7	14	0	1	0.1607	-0.1069	-0.2994	516181	6727337	2
26	030	1	7	18	0	1	0.1958	0.022	-0.081	516296	6727175	2
27	033	1	7	16	0	1	0.1925	-0.0355	0.0326	516388	6726997	2
28	034	1	7	21	0	1	0.2512	-0.0372	0.1497	516380	6726874	2
40	036	2	11	25	0	1	0.6609	-0.5734	0.4073	516421	6726882	2
41	035	2	11	23	0	1	0.3257	-0.5327	0.6179	516346	6726853	2
43	037	2	11	17	0	1	0.5574	-0.6924	0.3891	516405	6726757	2
30	038	1	8	16	0	1	0.781	-0.3679	0.0269	516358	6726220	3
31	039	1	8	17	0	1	1.0064	-0.4521	0.1382	516349	6726222	3
38	045	1	10	23	0	1	0.0692	0.0705	1.0563	516962	6725254	3
53	043	2	17	25	2	3	-0.0151	-0.5703	0.3407	516501	6725800	3
54	041	2	17	24	1	2	-0.1437	-0.4596	0.5761	516424	6725781	3
56	040	2	17	20	1	2	0.1004	-0.369	0.5395	516451	6725755	3
61	046	2	18	27	2	3	-0.2431	-0.7359	-0.7332	517290	6724719	3
62	042	3	19	22	0	1	-0.3087	0.1195	-0.5899	516384	6725786	3
63	044	3	19	26	0	1	-0.8047	-0.4243	-0.5295	516768	6725167	3
32	049	1	9	18	0	1	0.6831	0.0226	0.14	517732	6726284	4
48	047	2	13	11	1	2	0.0823	-0.6706	0.1515	517204	6726131	4
50	048	2	15	18	1	2	0.0456	-0.9036	-0.2799	517278	6726018	4
33	050	1	9	24	0	1	0.671	-0.0705	0.0568	517913	6726208	5
34	054	1	9	24	0	1	0.219	0.09	0.4823	518220	6726015	5
35	051	1	9	18	0	1	0.6848	0.1188	0.3581	517975	6726162	5





Ordered by Classification

ID	site	gp10	gp40	no_sp	condition	Expr1	v1	v2	v3	easting	northing	
36	052	1	9	27	0	1	0.5855	0.1961	0.5824	518030	6726134	5
37	053	1	9	23	0	1	0.4973	0.3054	0.5007	518112	6726103	5
57	055	2	17	27	1	2	-0.0732	-0.3318	0.723	518296	6725931	5
58	056	2	17	24	1	2	0.2829	-0.3562	0.5889	518350	6725887	5
60	057	2	17	32	1	2	-0.2203	-0.2393	0.7063	518416	6725853	5
59	060	2	17	18	2	3	0.1046	-0.2964	0.8985	519399	6725139	6
66	058	3	21	19	0	1	-0.6495	0.6475	-0.3131	519011	6725648	6
67	059	3	21	17	1	2	-0.5378	0.325	-0.4012	519048	6725625	6
51	062	2	16	9	1	2	0.3862	-1.2349	-0.3819	514163	6733575	7
90	061	9	35	16	2	3	-0.456	-0.9663	-0.5885	514581	6733514	7
64	063	3	20	25	1	2	-0.9157	0.4029	-0.0142	517949	6738107	8
65	064	3	20	25	0	1	-0.9237	0.4263	-0.234	517900	6738164	8
76	065	7	28	32	1	2	-0.9893	-0.3073	0.7026	519984	6742246	9
82	083	8	31	29	0	1	-0.4802	-0.0848	-0.0726	519288	6743377	9
83	084	8	31	25	1	2	-0.8586	-0.0264	-0.1253	519176	6743561	9
84	085	8	31	26	1	2	-1.0768	0.1565	0.0879	519144	6743592	9
72	077	5	25	21	0	1	-0.2498	0.5839	-1.1129	530310	6741516	10
93	066	10	37	14	1	2	0.2266	1.1972	0.4239	529007	6740271	10
94	070	10	37	14	1	2	0.3231	1.1256	0.7295	529224	6740550	10
95	068	10	37	14	1	2	0.6089	1.0043	-0.1873	529099	6740246	10
96	067	10	37	13	2	3	0.0614	1.287	0.1833	528944	6740301	10
97	069	10	37	13	2	3	0.2261	1.3002	0.0196	529062	6740362	10
98	071	10	38	25	1	2	-0.2676	0.9798	0.1073	529017	6740790	10
99	072	10	38	13	1	2	0.3112	0.989	-0.0321	529071	6740772	10
100	073	10	39	21	1	2	0.0033	0.9886	-0.0118	529182	6741021	10
101	075	10	39	20	1	2	0.3852	1.0654	0.1371	529426	6741380	10
103	074	10	40	15	1	2	0.3235	0.9597	-0.3733	529224	6741197	10
104	076	10	40	14	1	2	0.9266	0.8985	-0.3431	529711	6741545	10
80	079	7	29	22	1	2	0.0891	0.7981	0.7853	532589	6740107	11
102	078	10	39	24	1	2	0.2026	0.8434	-0.5699	532629	6740055	11
73	081	5	26	15	3	4	-0.8968	1.1507	-0.6875	526339	6737925	12
74	082	5	26	11	3	4	-0.1884	1.2155	-1.019	526327	6737984	12
75	080	6	27	10	3	4	-2.1025	0.1488	0.4839	526896	6737997	12
68	088	4	22	28	1	2	-0.8606	0.1304	-1.1566	516077	6732999	13
69	090	4	23	32	1	2	-0.3865	0.7451	-0.808	515852	6732784	13
70	091	4	23	29	1	2	-0.4267	0.7414	-0.8692	515782	6732870	13
71	089	4	24	18	1	2	-0.6577	0.1221	-0.9427	516145	6732981	13
91	086	9	36	17	2	3	-0.4046	-1.3209	0.0496	516046	6733471	13
92	087	9	36	19	1	2	-0.7245	-1.4357	-0.2407	515981	6733513	13
81	092	7	30	27	1	2	-0.5135	0.6887	0.6503	517663	6729663	14
77	095	7	28	24	1	2	-0.7334	0.0548	0.7498	521975	6729386	15
78	093	7	28	24	1	2	-0.7861	0.3352	0.5067	521959	6729526	15
79	094	7	28	24	1	2	-1.048	0.4308	0.4446	521965	6729602	15
85	096	8	32	19	1	2	-1.0324	-0.1658	-0.1112	521719	6730169	15
88	097	8	34	19	2	3	-1.3547	-0.5627	0.2352	521767	6730079	15
86	100	8	32	22	1	2	-1.0249	-0.0562	0.1603	522277	6733394	16
87	099	8	33	19	1	2	-1.4943	-0.2339	0.0769	521861	6734325	16
89	098	8	34	15	1	2	-1.1043	-0.8176	0.2909	521785	6734296	16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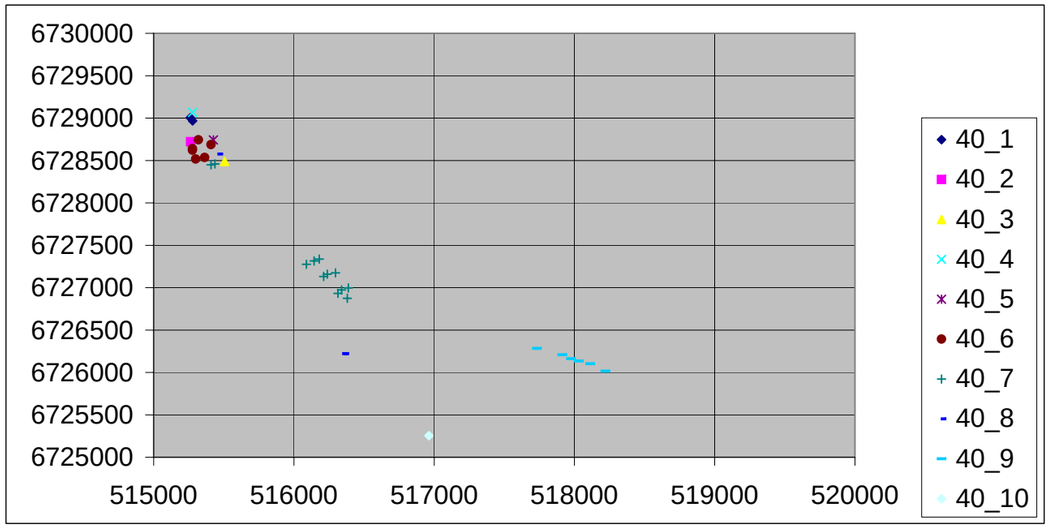
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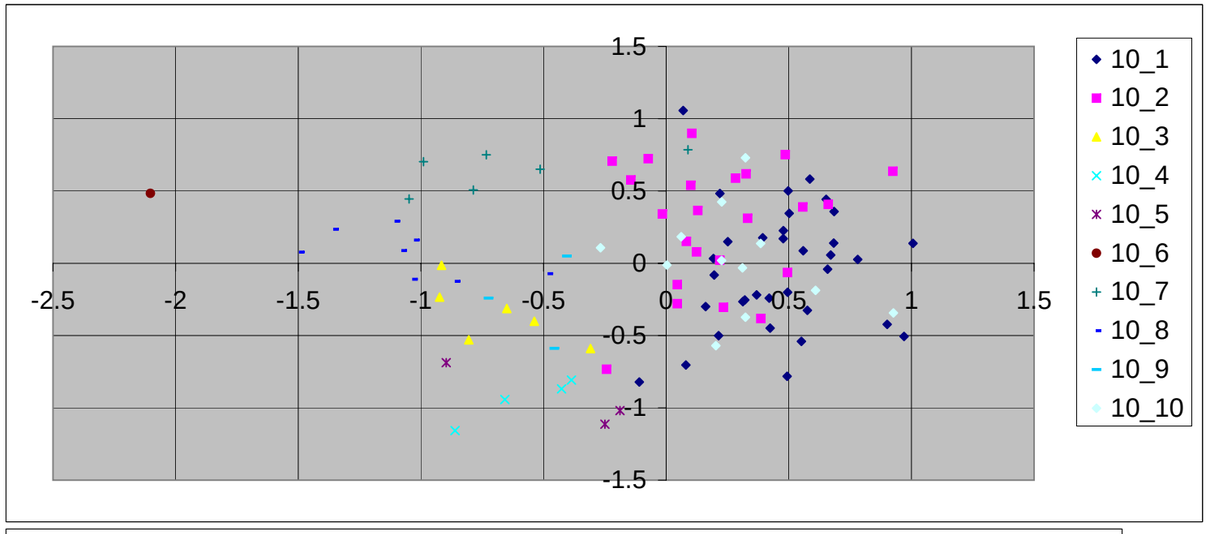
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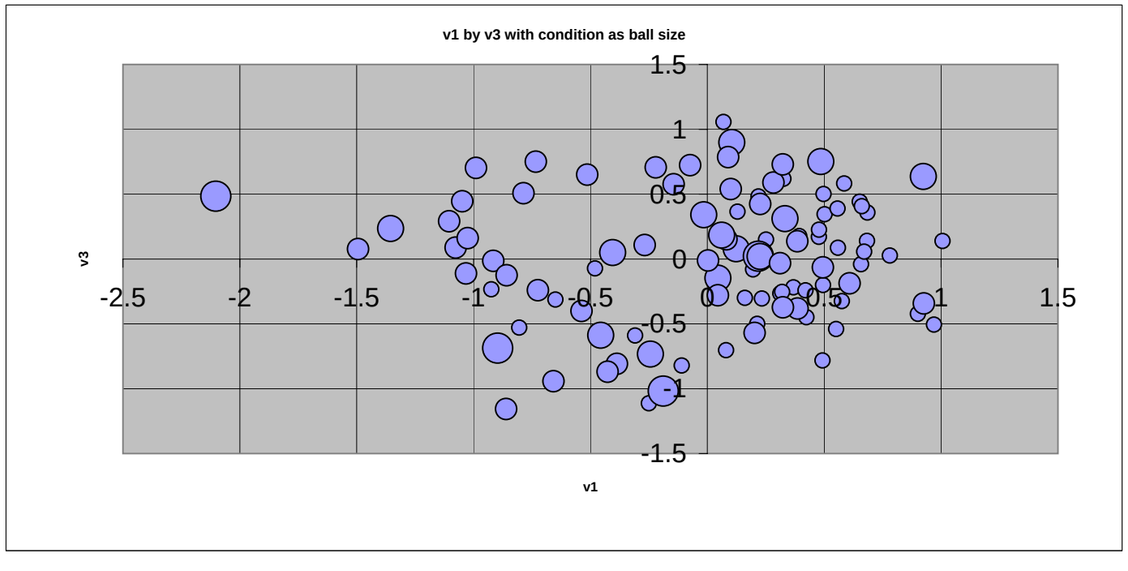
v1 by v3 with condition as ball size
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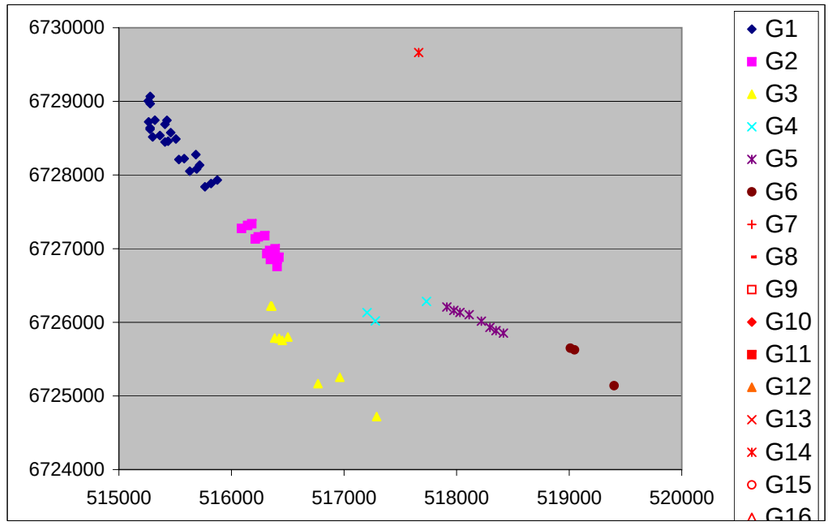
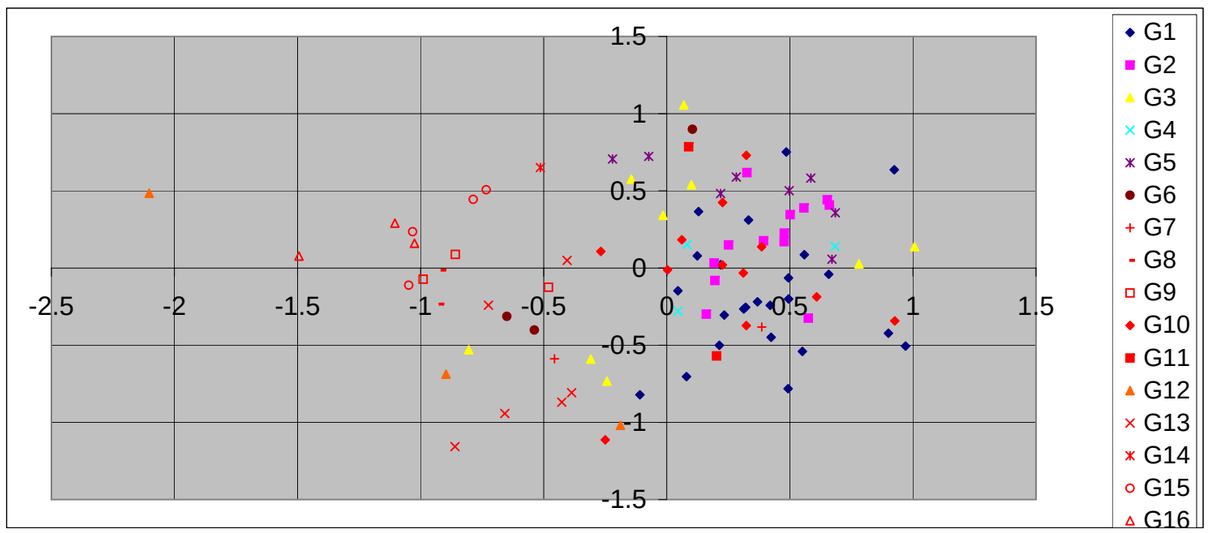
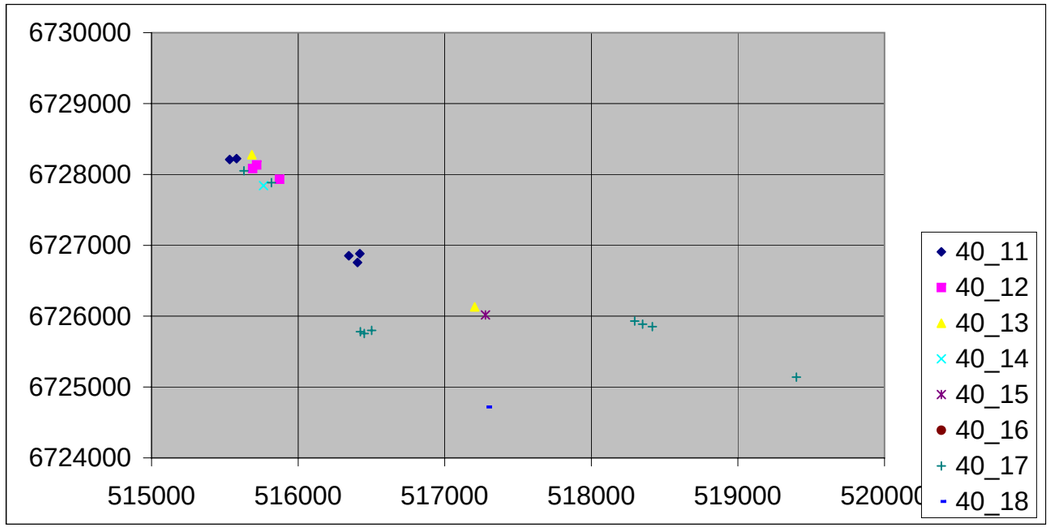
group	name
1	Extension Hill
2	Iron Hill North
3	Iron Hill
4	Iron Hill East
5	Mt Gibson North
6	Mt Gibson South
7	Vermin Fence
8	Taylor Well
9	East GNH
10	Mt Singleton
11	Coonigal Well
12	SW Mt Singleton
13	Well (ruin) E
14	Extension Hill Vermin Fence
15	East Extension Hill
16	Yandhanoo Hill



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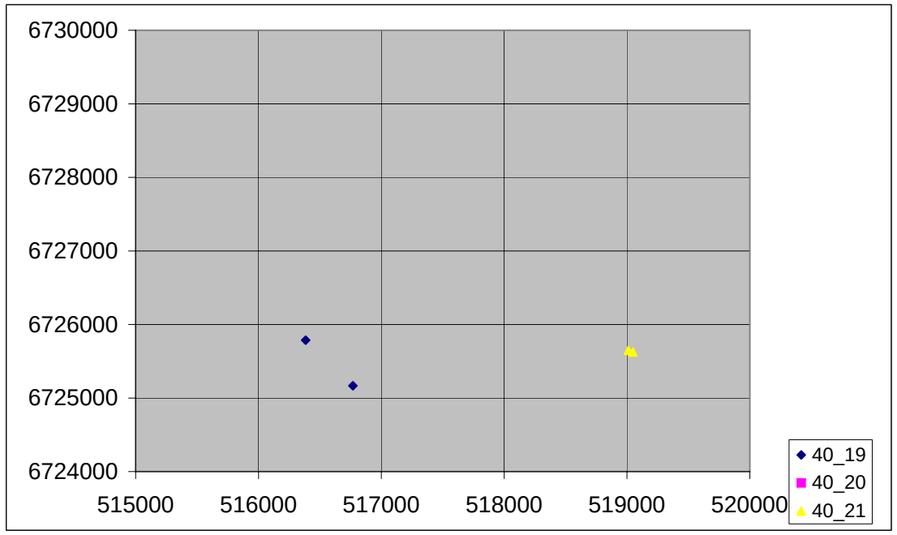
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For Mt Gibson area (defined by Group 10 numbers 1 and 2)
Main Species as defined by those >40% of sites in any group)
Values (% of sites) are for all occurrences in these groups
Species ordered by Species classification
Apparently distinguishing species highlighted

gp20	gp80	FCODE	NAME	1	2
			# Sites -->	35	22
7	35	326	Eremophila clarkei	14.3	54.5
7	35	341	Goodenia pinnatifida	2.86	86.4
7	35	341	Velleia cycnopotamica	2.86	50
12	58	313	Hemigenia macphersonii	14.3	40.9
20	75	007	Cheilanthes austrotenuifolia	82.9	9.09
20	75	054F	Thysanotus patersonii	62.9	77.3
20	75	070	Allocasuarina acutivalvis subsp. prinsepiana	100	90.9
20	75	090	Grevillea obliquistigma subsp. obliquistigma	80	90.9
20	75	090	Grevillea paradoxa	68.6	63.6
20	75	163	Acacia assimilis subsp. assimilis	82.9	40.9
20	75	175	Philotheca sericea	85.7	68.2
20	75	185	Calycopeplus paucifolius	85.7	59.1
20	75	226	Hibbertia hypericoides	42.9	68.2
20	75	273	Melaleuca conothamnoides x nematophylla	88.6	90.9
20	75	273	Micromyrtus racemosa var. prochytes	54.3	40.9
20	75	281	Trachymene ornata	62.9	68.2
20	75	345	Lawrencella rosea	60	86.4
20	75	345	Waitzia nitida	65.7	4.55
20	76	341	Goodenia ? berardiana	60	4.55
20	76	341	Velleia rosea	48.6	4.55
20	77	288	Leucopogon breviflorus	45.7	18.2
20	78	273	Aluta aspera	42.9	63.6
20	79	273	Darwinia masonii	45.7	50
20	79	281	Xanthosia bungei	45.7	50

For Mt Gibson area (defined by Group 28 numbers 1-12)
Main Species as defined by those >40% of sites in any group)
Values (% of sites) are for all occurrences in these groups
Species ordered by Species classification

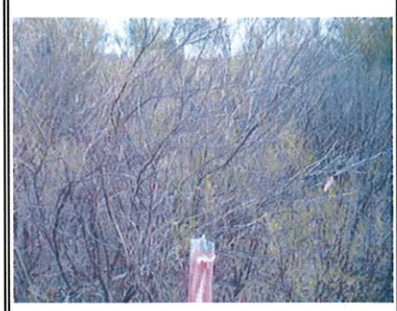
				Gp10	1	1	1	1	1	1	1	2	2	2	2	2	2
gp20	gp80	FCODE	NAME		1	2	3	4	5	6	7	8	9	10	11	12	13
				# Sites -->	3	17	3	9	1	1	1	10	1	1	8	1	1
1	1	060	Thelymitra ? petrophila								100	10					
1	3	054L	Borya sphaerocephala						100								
1	3	143	Drosera andersoniana								100	10					
1	4	054F	Arthropodium curvipes					11.1			100	20	100				
2	8	054E	Dianella revoluta											100			
2	10	345	Podolepis canescens								100	10			12.5		
2	12	345	Calotis hispidula												12.5	100	
2	14	143	Drosera macrantha		66.7	23.5		11.1									
2	15	343	Stylidium confluens		100	52.9			100			30					100
3	18	167	Erodium cygnorum					44.4				10			50	100	100
3	18	326	Eremophila latrobei subsp. latrobei					11.1							50	100	100
3	20	345	Rhodanthe charsleyae													100	
3	21	149	Crassula colorata var. colorata					55.6									
3	21	345	Rhodanthe polycephala					44.4							12.5		
3	22	165	Mirbelia microphylla		33.3				100								
4	24	276	Glischrocaryon aureum										100		12.5		
4	25	226	Hibbertia acerosa					66.7									
5	26	018	Callitris glaucophylla		33.3					100					12.5	100	
6	30	183	Comesperma integerrimum									10			12.5	100	
7	32	090	Hakea preissii												12.5	100	
7	32	163	Acacia exocarpoides												12.5	100	
7	33	106	Ptilotus obovatus									10			50	100	
7	33	163	Acacia tetragonophylla												25	100	
7	33	207	Dodonaea inaequifolia		33.3					100		20			25	100	
7	34	165	Mirbelia depressa												50		
7	35	326	Eremophila clarkei			11.8		22.2		100		40			87.5	100	
7	35	341	Goodenia pinnatifida			5.88						100	100	100	75	100	
7	35	341	Velleia cycnopotamica			5.88						30		100	75	100	
7	36	152	Cheiranthera filifolia var. simplicifolia									10			12.5	100	
8	37	273	Eucalyptus loxophleba subsp. supralaevis							100							
8	37	273	Melaleuca leiocarpa							100							
8	38	273	Calytrix leschenaultii						100								
8	39	031	Amphipogon caricinus var. caricinus			5.88			100	100							
9	41	273	Enekbatus stowardii		66.7	5.88						20					
9	41	273	Eucalyptus oldfieldii		66.7		33.3										
9	42	273	Melaleuca fabri		33.3	5.88				100							
10	45	341	Brunonia australis									10	100		12.5		100
11	48	223	Rulingia luteiflora				33.3						100				100
11	49	165	Leptosema aphyllum					11.1					100				
11	49	223	Keraudrenia velutina subsp. velutina										100				
12	58	007	Cheilanthes sieberi subsp. sieberi									50					
12	58	313	Hemigenia macphersonii		33.3	17.6		11.1				90					
12	59	163	Acacia stereophylla var. stereophylla			41.2	33.3					20					
16	67	345	Cratystylis subspinescens													100	
16	68	345	Brachyscome pusilla											100			
18	73	105	Rhagodia drummondii												12.5	100	
19	74	164	Senna artemisioides subsp. artemisioides													100	
20	75	007	Cheilanthes austrotenuifolia		100	100		88.9	100			20					
20	75	054F	Thysanotus patersonii		66.7	70.6		66.7		100	100	100	100	100	62.5		
20	75	070	Allocasuarina acutivalvis subsp. prinsepiana		100	100	100	100	100	100	100	100	100		87.5	100	100
20	75	090	Grevillea obliquistigma subsp. obliquistigma			94.1	100	100				100	100	100	75	100	100
20	75	090	Grevillea paradoxa		100	58.8	100	66.7		100	100	70			87.5		
20	75	163	Acacia assimilis subsp. assimilis		33.3	88.2	100	77.8	100	100	100	70			25		
20	75	175	Philotheca sericea		66.7	100	100	66.7	100	100		50	100		100		100
20	75	185	Calycopeplus paucifolius		100	82.4	100	100	100			30	100		100	100	
20	75	226	Hibbertia hypericoides			52.9	33.3	44.4			100	70			87.5		100
20	75	273	Melaleuca conothamnoides x nematophylla		33.3	94.1	100	88.9	100	100	100	90	100		100	100	100
20	75	273	Micromyrtus racemosa var. prochytes		33.3	64.7		44.4	100	100	100				100	100	
20	75	281	Trachymene ornata		100	70.6	66.7	55.6				70	100		75		100
20	75	345	Lawrencella rosea		33.3	76.5	33.3	55.6			100	90			100	100	100
20	75	345	Waitzia nitida		100	64.7	100	55.6		100							100
20	76	341	Goodenia ? berardiana		33.3	70.6	33.3	66.7		100							100
20	76	341	Velleia rosea		66.7	58.8	66.7	22.2		100							100
20	77	288	Leucopogon breviflorus		33.3	47.1	100	22.2	100		100		100	100	12.5	100	
20	78	163	Acacia aneura var. aneura		100	35.3						20	100		37.5		100
20	78	273	Aluta aspera		33.3	82.4						90	100	100	37.5		
20	79	131	Cassytha nodiflora			11.8	66.7	100				40			37.5		
20	79	273	Darwinia masonii			41.2	66.7	77.8				20			87.5	100	100
20	79	273	Melaleuca fulgens subsp. fulgens			29.4		55.6	100			30			62.5		
20	79	281	Xanthosia bungei		66.7	29.4		100				30			87.5		100
20	80	165	Gastrolobium laytonii				33.3	66.7			100				25		

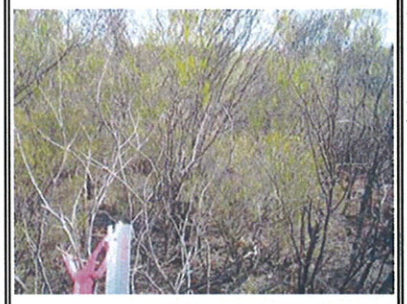
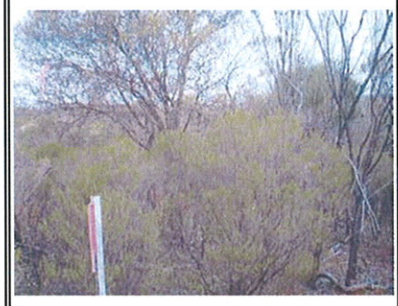
For Mt Gibson area (defined by Group 40 numbers 1-17)
Main Species as defined by those >40% of sites in any group)
Values (% of sites) are for all occurrences in these groups
Species ordered by Species classification
Apparently distinguishing species highlighted

				Gp10	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
				Gp28	1	1	2	2	3	4	4	5	6	7	8	8	8	8	9	10	11	12	13
gp20	gp80	FCODE	NAME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
				Sites -->	2	1	7	10	3	6	3	1	1	1	5	3	2	1	1	8	1	1	
gp20	gp80	FCODE	NAME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	1	060	Thelymitra ? petrophila											100	20								
1	3	054L	Borya sphaerocephala									100											
1	3	143	Drosera andersoniana											100	20								
1	4	054F	Arthropodium curvipes							16.7				100	40			100					
2	8	054E	Dianella revoluta																100				
2	10	345	Podolepis canescens											100		33.3				12.5			
2	12	345	Calotis hispidula																	12.5	100		
2	14	143	Drosera macrantha		100		14.3	30		16.7													
2	15	343	Stylidium confluens		100	100	14.3	80				100			40		50					100	
3	18	167	Erodium cygnorum							16.7	100					33.3				50	100	100	
3	18	326	Eremophila latrobei subsp. latrobei								33.3									50	100	100	
3	20	345	Rhodanthe charsleyae																		100		
3	21	149	Crassula colorata var. colorata							66.7	33.3												
3	21	345	Rhodanthe polycephala							50	33.3									12.5			
3	22	165	Mirbelia microphylla			100						100											
4	24	276	Glischrocaryon aureum															100		12.5			
4	25	226	Hibbertia acerosa							50	100												
5	26	018	Callitris glaucophylla			100							100							12.5	100		
5	27	054C	Chamaexeros macranthera			100																	
5	27	345	Schoenia cassiniana			100																	
6	30	183	Comesperma integerrimum													33.3				12.5	100		
7	32	090	Hakea preissii																	12.5	100		
7	32	163	Acacia exocarpoides																	12.5	100		
7	33	106	Ptilotus obovatus													33.3				50	100		
7	33	163	Acacia tetragonophylla																	25	100		
7	33	207	Dodonaea inaequifolia			100							100			66.7				25	100		
7	34	165	Mirbelia depressa																	50			
7	34	175	Philotheca brucei subsp. brucei			100	14.3		33.3		66.7									37.5			
7	35	326	Eremophila clarkei				28.6				66.7		100			100	50			87.5	100		
7	35	341	Goodenia pinnatifida					10							100	100	100	100	100	75	100		
7	35	341	Velleia cycnopotamica					10								100			100	75	100		
7	36	152	Cheiranthera filifolia var. simplicifolia													33.3				12.5	100		
8	37	273	Eucalyptus loxophleba subsp. supralaevis										100										
8	37	273	Melaleuca leiocarpa										100										
8	38	273	Calytrix leschenaultii									100											
8	39	031	Amphipogon caricinus var. caricinus				14.3					100	100										
9	40	059	Dioscorea hastifolia	50																			
9	41	273	Enekbatus stowardii	100		14.3										33.3	50						
9	41	273	Eucalyptus oldfieldii	100				33.3															
9	42	273	Melaleuca fabri	50		14.3							100										
9	42	273	Thryptomene cuspidata	50																			
10	45	341	Brunonia australis												20			100		12.5		100	
11	48	223	Rulingia luteiflora						33.3									100				100	
11	49	165	Leptosema aphyllum							16.7								100					
11	49	223	Keraudrenia velutina subsp. velutina															100					
12	54	138	Stenopetalum filifolium												20		50						
12	55	031	Austrostipa elegantissima														50						
12	56	163	Acacia acanthoclada				14.3									33.3	50						
12	58	007	Cheilanthes sieberi subsp. sieberi												60	66.7							
12	58	313	Hemigenia macphersonii	50		28.6	10			33.3					100	66.7	100						
12	59	163	Acacia stereophylla var. stereophylla			42.9	40	33.3							40								
16	67	345	Cratystylis subspinescens																		100		
16	68	345	Brachyscome pusilla																100				
18	73	105	Rhagodia drummondii																	12.5	100		
18	73	326	Eremophila oldfieldii		100																		
19	74	164	Senna artemisioides subsp. artemisioides																		100		
20	75	007	Cheilanthes austrotenuifolia	100	100	100	100		83.3	100	100				20	33.3							
20	75	054F	Thysanotus patersonii	100		85.7	60		83.3	33.3		100	100	100	100	100	100	100	100	62.5			
20	75	070	Allocasuarina acutivalvis subsp. prinsepiana	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		87.5	100	100	
20	75	090	Grevillea obliquistigma subsp. obliquistigma			85.7	100	100	100	100					100	100	100	100	100	75	100	100	
20	75	090	Grevillea paradoxa	100	100	71.4	50	100	66.7	66.7		100	100	60	66.7	100				87.5			
20	75	163	Acacia assimilis subsp. assimilis	50		85.7	90	100	66.7	100	100	100	100	80	100					25			
20	75	175	Philotheca sericea	50	100	100	100	100	66.7	66.7	100	100		40	100		100			100		100	
20	75	185	Calycopeplus paucifolius	100	100	71.4	90	100	100	100	100			20	33.3	50	100			100	100		
20	75	226	Hibbertia hypericoides				90	33.3	50	33.3			100	100	33.3	50				87.5		100	
20	75	273	Melaleuca conothamnoides x nematophylla	50		85.7	100	100	100	66.7	100	100	100	100	66.7	100	100			100	100	100	
20	75	273	Micromyrtus racemosa var. prochytes	50		71.4	60		16.7	100	100	100	100							100	100		
20	75	281	Trachymene ornata	100	100	57.1	80	66.7	83.3					60	100	50	100			75		100	
20	75	345	Lawrencella rosea	50		42.9	100	33.3	33.3	100			100	100	100	50				100	100	100	
20	75	345	Waitzia nitida	100	100	85.7	50	100	33.3	100		100										100	
20	76	341	Goodenia ? berardiana	50		100	50	33.3	50	100		100										100	
20	76	341	Velleia rosea	50	100	100	30	66.7	16.7	33.3		100										100	
20	77	288	Leucopogon breviflorus		100	85.7	20	100		66.7	100		100					100	100	12.5	100		
20	78	163	Acacia aneura var. aneura	100	100	85.7											100	100		37.5		100	
20	78	273	Aluta aspera	50		100	70								100	66.7	100	100	100	37.5			
20	79	131	Cassytha nodiflora				20	66.7	100	100				80						37.5			
20	79	273	Darwinia masonii			42.9	40	66.7	66.7	100				40						87.5	100	100	
20	79	273	Melaleuca fulgens subsp. fulgens				50		66.7	33.3	100			20			100			62.5			
20	79	281	Xanthosia bungei	50	100		50		100	100				60						87.5		100	
20	80	165	Gastrolobium laytonii					33.3	100				100							25			

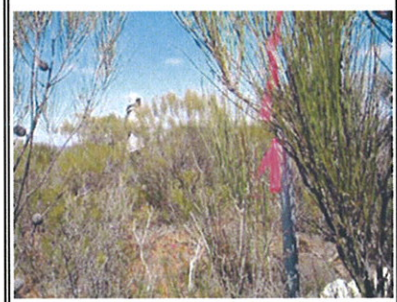
ATA Mt Gibson Sites ordered by classification 21 Dec 2005

site	area	gp10	gp28	gp40	map	cond	photo	species and cover %
001	Extension Hill	1	1	1	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 15 Philotheca sericea 15 Acacia aneura var. aneura 10 Melaleuca conothamnoides x nematophylla 8 Aluta aspera 1
002	Extension Hill	1	1	1	T1	0.00		Aluta aspera 35 Allocasuarina acutivalvis subsp. prinsepiana 30 Eucalyptus oldfieldii 8 Acacia aneura var. aneura 5 Grevillea paradoxa 5
006	Extension Hill	1	1	2	T12	0.00		Mirbelia microphylla 10 Philotheca sericea 10 Allocasuarina acutivalvis subsp. prinsepiana 8 Acacia aneura var. aneura 7
004	Extension Hill	1	2	3	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Melaleuca conothamnoides x nematophylla 15 Philotheca sericea 15 Calycopeplus paucifolius 5 Grevillea paradoxa 5 Aluta aspera 2
								Aluta aspera 30 Allocasuarina acutivalvis subsp.

008	Extension Hill	1	2	3	T1	0.00		prinsepiana 15 Grevillea obliquistigma subsp. obliquistigma 15 Acacia assimilis subsp. assimilis 10 Philotheca sericea 8 Melaleuca fabri 2
010	Extension Hill	1	2	3	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 15 Grevillea obliquistigma subsp. obliquistigma 15 Melaleuca conothamnoides x nematophylla 15 Micromyrtus racemosa var. prochytes 15 Aluta aspera 10 Acacia assimilis subsp. assimilis 8 Grevillea paradoxa 5
011	Extension Hill	1	2	3	T12	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Acacia assimilis subsp. assimilis 15 Grevillea obliquistigma subsp. obliquistigma 15 Philotheca sericea 10 Calycopeplus paucifolius 5 Enekbatus stowardii 5
								Aluta aspera 40 Melaleuca conothamnoides x nematophylla 15

007	Extension Hill	1	2	3	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Grevillea obliquistigma subsp. obliquistigma 7 Philotheca sericea 2
009	Extension Hill	1	2	3	T1	0.00		Aluta aspera 25 Philotheca sericea 10 Calycopeplus paucifolius 8 Grevillea obliquistigma subsp. obliquistigma 8 Melaleuca conothamnoides x nematophylla 6
005	Extension Hill	1	2	3	T1	0.00		Aluta aspera 35 Allocasuarina acutivalvis subsp. prinsepiana 8 Acacia stereophylla var. stereophylla 6 Acacia aneura var. aneura 5 Philotheca sericea 3
013	Extension Hill	1	2	4	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 25 Aluta aspera 15 Melaleuca conothamnoides x nematophylla 10 Philotheca sericea 10 Melaleuca fulgens subsp. fulgens 5
								Aluta aspera 15 Melaleuca conothamnoides x nematophylla 15 Acacia assimilis subsp. assimilis 10

028	Iron Hill North	1	2	4	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Grevillea obliquistigma subsp. obliquistigma 4 Melaleuca fulgens subsp. fulgens 3
014	Extension Hill	1	2	4	T1	0.00		Melaleuca fulgens subsp. fulgens 25 Allocasuarina acutivalvis subsp. prinsepiana 15 Melaleuca conothamnoides x nematophylla 15 Philotheca sericea 15 Grevillea obliquistigma subsp. obliquistigma 2 Hibbertia hypericoides 2
029	Iron Hill North	1	2	4	T1	0.00		Acacia assimilis subsp. assimilis 20 Allocasuarina acutivalvis subsp. prinsepiana 20 Xanthosia bungei 15 Grevillea obliquistigma subsp. obliquistigma 8 Aluta aspera 5 Melaleuca conothamnoides x nematophylla 5 Calycopeplus paucifolius 4
								Allocasuarina acutivalvis subsp. prinsepiana 30 Aluta aspera 10 Grevillea obliquistigma subsp.

021	Extension Hill	1	2	4	T1	3.00		obliquistigma 10 Melaleuca conothamnoides x nematophylla 10 Calycopeplus paucifolius 5 Acacia assimilis subsp. assimilis 2
026	Iron Hill North	1	2	4	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Melaleuca conothamnoides x nematophylla 30 Aluta aspera 8 Grevillea obliquistigma subsp. obliquistigma 5 Acacia assimilis subsp. assimilis 4 Hibbertia hypericoides 4
027	Iron Hill North	1	2	4	T3	0.00		Melaleuca conothamnoides x nematophylla 30 Allocasuarina acutivalvis subsp. prinsepiana 25 Aluta aspera 7 Acacia stereophylla var. stereophylla 3 Grevillea obliquistigma subsp. obliquistigma 2 Hibbertia hypericoides 2
030	Iron Hill	1	2	4	T1	0.00		Acacia assimilis subsp. assimilis 10 Allocasuarina acutivalvis subsp. prinsepiana 10 Melaleuca conothamnoides x nematophylla

	North							10 Aluta aspera 5 Calycopeplus paucifolius 5 Grevillea obliquistigma subsp. obliquistigma 5 Xanthosia bungei 4
033	Iron Hill North	1	2	4	T1	0.00		Melaleuca conothamnoides x nematophylla 30 Allocasuarina acutivalvis subsp. prinsepiana 25 Hibbertia hypericoides 15 Xanthosia bungei 5 Aluta aspera 3
034	Iron Hill North	1	2	4	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 50 Grevillea obliquistigma subsp. obliquistigma 15 Xanthosia bungei 15 Melaleuca fulgens subsp. fulgens 10 Aluta aspera 2 Melaleuca conothamnoides x nematophylla 2
012	Extension Hill	1	3	5	T1	0.00		Philotheca sericea 25 Acacia assimilis subsp. assimilis 15 Allocasuarina acutivalvis subsp. prinsepiana 15 Grevillea obliquistigma subsp. obliquistigma 10 Melaleuca conothamnoides

								x nematophylla 3 Eucalyptus oldfieldii 2
038	Iron Hill	1	3	5	T3	0.00		Acacia assimilis subsp. assimilis 20 Allocasuarina acutivalvis subsp. prinsepiana 20 Calycopeplus paucifolius 15 Melaleuca conothamnoides x nematophylla 10 Aluta aspera 3 Grevillea obliquistigma subsp. obliquistigma 3
039	Iron Hill	1	3	5	T3	0.00		Melaleuca conothamnoides x nematophylla 25 Acacia assimilis subsp. assimilis 15 Allocasuarina acutivalvis subsp. prinsepiana 15 Aluta aspera 15 Calycopeplus paucifolius 10 Grevillea obliquistigma subsp. obliquistigma 3
025	Iron Hill North	1	4	6	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 20 Melaleuca conothamnoides x nematophylla 10 Aluta aspera 8 Hibbertia hypericoides 5 Calycopeplus paucifolius 3 Acacia assimilis subsp. assimilis 2
								Allocasuarina acutivalvis

031	Iron Hill North	1	4	6	T1	0.00		subsp. prinsepiana 15 Melaleuca conothamnoides x nematophylla 10 Grevillea obliquistigma subsp. obliquistigma 8 Hibbertia hypericoides 8 Xanthosia bungei 6 Aluta aspera 4
032	Iron Hill North	1	4	6	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 35 Xanthosia bungei 15 Melaleuca conothamnoides x nematophylla 8 Hibbertia hypericoides 5 Grevillea paradoxa 4 Grevillea obliquistigma subsp. obliquistigma 3
051	Mt Gibson North	1	4	6	T6	0.00		Allocasuarina acutivalvis subsp. prinsepiana 60 Xanthosia bungei 8 Melaleuca conothamnoides x nematophylla 5 Acacia assimilis subsp. assimilis 3 Calycopeplus paucifolius 2
052	Mt Gibson North	1	4	6	T6	0.00		Allocasuarina acutivalvis subsp. prinsepiana 60 Xanthosia bungei 15 Melaleuca conothamnoides x nematophylla 10

								Acacia cerastes 2 Gastrolobium laytonii 2
053	Mt Gibson North	1	4	6	T6	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Melaleuca conothamnoides x nematophylla 10 Melaleuca fulgens subsp. fulgens 10 Calycopeplus paucifolius 5 Grevillea paradoxa 5
049	Iron Hill East	1	4	7	T3	0.00		Allocasuarina acutivalvis subsp. prinsepiana 35 Melaleuca conothamnoides x nematophylla 15 Calycopeplus paucifolius 5 Grevillea paradoxa 5 Hibbertia acerosa 5 Grevillea obliquistigma subsp. obliquistigma 3
050	Mt Gibson North	1	4	7	T6	0.00		Allocasuarina acutivalvis subsp. prinsepiana 35 Melaleuca conothamnoides x nematophylla 20 Xanthosia bungei 10 Grevillea paradoxa 6 Grevillea obliquistigma subsp. obliquistigma 5

054	Mt Gibson North	1	4	7	T6	0.00		Allocasuarina acutivalvis subsp. prinsepiana 15 Melaleuca conothamnoides x nematophylla 10 Xanthosia bungei 8 Calycopeplus paucifolius 7 Grevillea obliquistigma subsp. obliquistigma 2
003	Extension Hill	1	5	8	T12	0.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Philotheca sericea 5 Acacia assimilis subsp. assimilis 2
015	Extension Hill	1	6	9	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Eucalyptus loxophleba subsp. supralaevis 10 Melaleuca leiocarpa 6 Acacia assimilis subsp. assimilis 5 Philotheca sericea 5
024	Extension Hill	1	7	10	T1	2.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Hibbertia hypericoides 10 Melaleuca conothamnoides x nematophylla 10 Acacia assimilis subsp. assimilis 5 Aluta aspera subsp. hesperia 5 Grevillea paradoxa 2

016	Extension Hill	2	8	11	T1	2.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Acacia assimilis subsp. assimilis 10 Hibbertia hypericoides 10 Melaleuca conothamnoides x nematophylla 10 Grevillea paradoxa 5
017	Extension Hill	2	8	11	T1	0.00		Acacia assimilis subsp. assimilis 20 Allocasuarina acutivalvis subsp. prinsepiana 20 Hibbertia hypericoides 20 Grevillea obliquistigma subsp. obliquistigma 5 Melaleuca conothamnoides x nematophylla 5 Aluta aspera 2
035	Iron Hill North	2	8	11	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 50 Melaleuca fulgens subsp. fulgens 10 Grevillea obliquistigma subsp. obliquistigma 5 Grevillea paradoxa 5 Melaleuca conothamnoides x nematophylla 5 Xanthosia bungei 5
								Allocasuarina acutivalvis subsp. prinsepiana 20 Grevillea obliquistigma

036	Iron Hill North	2	8	11	T1	0.00		subsp. obliquistigma 15 Xanthosia bungei 10 Acacia stereophylla var. stereophylla 5 Hibbertia hypericoides 2
037	Iron Hill North	2	8	11	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Hibbertia hypericoides 10 Xanthosia bungei 10 Aluta aspera 5 Melaleuca conothamnoides x nematophylla 5 Acacia stereophylla var. stereophylla 2
019	Extension Hill	2	8	12	T1	2.00		Allocasuarina acutivalvis subsp. prinsepiana 40 Melaleuca conothamnoides x nematophylla 10 Grevillea paradoxa 5 Philotheca sericea 5
020	Extension Hill	2	8	12	T1	2.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Aluta aspera 10 Eucalyptus leptopoda subsp. leptopoda 10 Grevillea obliquistigma subsp. obliquistigma 10 Acacia assimilis subsp. assimilis 5 Eremophila

								clarkei 2 Acacia acanthoclada 1
023	Extension Hill	2	8	12	T1	1.00		Aluta aspera subsp. hesperia 30 Allocasuarina acutivalvis subsp. prinsepiana 20 Acacia assimilis subsp. assimilis 10 Aluta aspera 5 Grevillea obliquistigma subsp. obliquistigma 5
018	Extension Hill	2	8	13	T1	0.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Grevillea obliquistigma subsp. obliquistigma 10 Grevillea paradoxa 2 Melaleuca conothamnoides x nematophylla 2
047	Iron Hill East	2	8	13	T3	1.00		Aluta aspera 50 Acacia aneura var. aneura 10 Allocasuarina acutivalvis subsp. prinsepiana 10 Melaleuca fabri 5 Grevillea obliquistigma subsp. obliquistigma 2
048	Iron Hill East	2	9	14	T3	1.00		Aluta aspera 50 Acacia aneura var. aneura 5 Grevillea obliquistigma subsp. obliquistigma 5 Allocasuarina acutivalvis subsp. prinsepiana 2

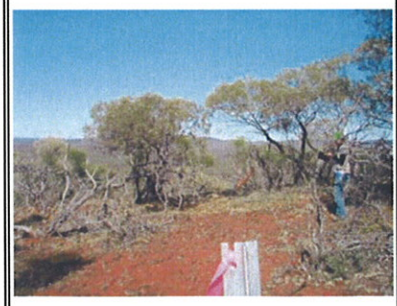
062	Vermin Fence	2	10	15		1.00		Aluta aspera 60 Brachyscome pusilla 2 Grevillea obliquistigma subsp. obliquistigma 1 Velleia cycnopotamica 1
022	Extension Hill	2	11	16	T1	2.00		Grevillea obliquistigma subsp. obliquistigma 10 Melaleuca conothamnoides x nematophylla 10 Acacia assimilis subsp. assimilis 5 Aluta aspera 5 Darwinia masonii 2 Grevillea paradoxa 2 Hibbertia hypericoides 2
040	Iron Hill	2	11	16	T5	1.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Aluta aspera 10 Darwinia masonii 10 Melaleuca conothamnoides x nematophylla 10 Velleia cycnopotamica 10 Calycopeplus paucifolius 5
043	Iron Hill	2	11	16	T5	2.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Aluta aspera 10 Acacia aneura var. aneura 5 Melaleuca conothamnoides x nematophylla 5 Philotheca sericea 5

								Callitris glaucophylla 2
041	Iron Hill	2	11	16	T5	1.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Aluta aspera 10 Calycopeplus paucifolius 10 Melaleuca conothamnoides x nematophylla 10 Darwinia masonii 5 Velleia cycnopotamica 5
055	Mt Gibson North	2	11	16	T6	1.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Calycopeplus paucifolius 5 Darwinia masonii 5 Grevillea obliquistigma subsp. obliquistigma 2 Melaleuca conothamnoides x nematophylla 2 Philotheca sericea 2
056	Mt Gibson North	2	11	16	T6	1.00		Calycopeplus paucifolius 10 Grevillea obliquistigma subsp. obliquistigma 10 Melaleuca conothamnoides x nematophylla 10 Darwinia masonii 5 Philotheca sericea 5 Eremophila clarkei 2
								Allocasuarina acutivalvis subsp. prinsepiana 30 Melaleuca

060	Mt Gibson South	2	11	16	M4	2.00		conothamnoides x nematophylla 20 Calycopeplus paucifolius 5 Darwinia masonii 5 Podolepis lessonii 5
057	Mt Gibson North	2	11	16	T6	1.00		Acacia aneura var. aneura 5 Acacia tetragonophylla 5 Allocasuarina acutivalvis subsp. prinsepiana 5 Calycopeplus paucifolius 5 Glischrocaryon aureum 5 Melaleuca conothamnoides x nematophylla 5 Melaleuca fulgens subsp. fulgens 5
046	Iron Hill	2	12	17	T3	2.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Cratystylis subspinescens 10 Darwinia masonii 10 Calycopeplus paucifolius 5 Eremophila latrobei subsp. latrobei 5 Acacia exocarpoides 2
045	Iron Hill	2	13	18	T3	0.00		Acacia aneura var. aneura 20 Grevillea obliquistigma subsp. obliquistigma 6 Sida excedentifolia 5 Waitzia nitida 5 Allocasuarina acutivalvis subsp. prinsepiana 3

042	Iron Hill	3	14	19	T5	0.00		Allocasuarina acutivalvis subsp. prinsepiana 10 Melaleuca conothamnoides x nematophylla 8 Aluta aspera 7 Acacia tetragonophylla 6 Philotheca brucei subsp. brucei 3 Darwinia masonii 2
044	Iron Hill	3	14	19	T3	0.00		Eremophila clarkei 10 Philotheca brucei subsp. brucei 10 Calycopeplus paucifolius 8 Hakea preissii 5 Ptilotus obovatus 5 Grevillea obliquistigma subsp. obliquistigma 4 Hibbertia hypericoides 3
058	Mt Gibson South	3	15	20	HS1	0.00		Ptilotus obovatus 30 Calycopeplus paucifolius 15 Dodonaea inaequifolia 5 Allocasuarina acutivalvis subsp. prinsepiana 2
059	Mt Gibson South	3	15	20	HS1	1.00		Ptilotus obovatus 25 Calycopeplus paucifolius 20 Dodonaea inaequifolia 5 Acacia exocarpoides 1
088	Well (ruin) E	4	16	21		1.00		Acacia tetragonophylla 15 Dodonaea inaequifolia 15 Acacia

							andrewsii 5 Acacia aneura var. aneura 5 Ptilotus obovatus 3
089	Well (ruin) E	4	17	22	1.00		Acacia aneura var. aneura 20 Eucalyptus loxophleba subsp. supralaevis 4 Calycopeplus paucifolius 2 Acacia tetragonophylla 1
063	Taylor Well	5	18	23	1.00		Ptilotus obovatus 25 Hakea preissii 15 Allocasuarina acutivalvis subsp. prinsepiana 12 Calycopeplus paucifolius 10 Podolepis lessonii 2
064	Taylor Well	5	18	23	0.00		Ptilotus obovatus 25 Allocasuarina acutivalvis subsp. prinsepiana 15 Calycopeplus paucifolius 15 Hakea preissii 10 Acacia ramulosa var. ramulosa 5
083	East GNH	5	18	24	0.00		Acacia aneura var. aneura 15 Acacia quadrimarginea 8 Aluta aspera 5 Calycopeplus paucifolius 5 Grevillea obliquistigma subsp. obliquistigma 5 Waitzia nitida 4

								Cuscuta epithymum 2
084	East GNH	5	18	24		1.00		Calycopeplus paucifolius 15 Acacia aneura var. aneura 10 Podolepis lessonii 4 Acacia quadrimarginea 2
085	East GNH	5	18	24		1.00		Acacia quadrimarginea 20 Acacia aneura var. aneura 15 Calycopeplus paucifolius 5 Scaevola spinescens 2
065	East GNH	5	19	25		1.00		Calycopeplus paucifolius 35 Acacia assimilis subsp. assimilis 4 Acacia quadrimarginea 4 Acacia ramulosa var. ramulosa 4 Cuscuta epithymum 3
093	East Extension Hill	5	19	26		1.00		Acacia quadrimarginea 15 Calycopeplus paucifolius 15 Acacia ramulosa var. ramulosa 8 Podolepis lessonii 4
094	East Extension Hill	5	19	26		1.00		Melaleuca uncinata 15 Acacia quadrimarginea 10 Scaevola spinescens 7 Acacia ramulosa var. ramulosa 5 Eremophila georgei 2
								Acacia quadrimarginea

095	East Extension Hill	5	19	26		1.00		15 Mirbelia microphylla 10 Acacia ramulosa var. ramulosa 6 Calycopeplus paucifolius 4 Acacia assimilis subsp. assimilis 2
092	Extension Hill Vermin Fence	5	19	27	17	1.00		Melaleuca fulgens subsp. fulgens 30 Xanthosia bungei 7 Melaleuca uncinata 6 Allocasuarina acutivalvis subsp. prinsepiana 5 Mirbelia microphylla 5 Grevillea scabrida 4
096	East Extension Hill	6	20	28		1.00		Aluta aspera 20 Acacia quadrimarginea 15 Calycopeplus paucifolius 5
100	Yandhanoo Hill	6	20	28		1.00		Acacia coolgardiensis subsp. effusa 40 Aluta aspera 5 Acacia quadrimarginea 1 Cryptandra connata 1
097	East Extension Hill	6	20	28		2.00		Acacia quadrimarginea 15 Aluta aspera 5 Acacia coolgardiensis subsp. effusa 2 Calycopeplus paucifolius 2 Waitzia acuminata var. acuminata 2
								Acacia coolgardiensis

098	Yandhanoo Hill	6	20	28	1.00		subsp. effusa 20 Acacia quadrimarginea 10 Aluta aspera 5 Eremophila latrobei subsp. latrobei 5 Calycopeplus paucifolius 2
099	Yandhanoo Hill	6	20	29	1.00		Acacia quadrimarginea 30 Aluta aspera 5 Eremophila clarkei 5 Cryptandra connata 2
061	Vermin Fence	7	21	30	2.00		Mirbelia depressa 20 Acacia aneura var. aneura 10 Grevillea sarissa subsp. sarissa 5 Lobelia winfridae 5 Schoenia filifolia subsp. filifolia 5
086	Well (ruin) E	7	21	31	2.00		Aluta aspera 15 Acacia aneura var. aneura 10 Waitzia acuminata var. acuminata 10 Mirbelia depressa 5
087	Well (ruin) E	7	21	31	1.00		Acacia aneura var. aneura 50 Aluta aspera 5 Podolepis lessonii 5 Waitzia acuminata var. acuminata 5 Mirbelia depressa 2
							Helipterum craspedioides 5 Acacia

080	SW Mt Singleton	8	22	32	3.00		quadrimarginea 3 Dodonaea inaequifolia 2
081	SW Mt Singleton	8	23	33	3.00		Acacia acuminata 25 Allocasuarina campestris 5
082	SW Mt Singleton	8	23	33	3.00		Acacia acuminata 20 Allocasuarina campestris 5
066	Mt Singleton	9	24	34	1.00		Allocasuarina acutivalvis subsp. prinsepiana 60 Borya sphaerocephala 5 Xanthosia bungei 1
070	Mt Singleton	9	24	34	1.00		Allocasuarina acutivalvis subsp. prinsepiana 40 Borya sphaerocephala 10 Cryptandra connata 5 Micromyrtus racemosa var. prochytes 5 Diuris porrifolia 1 Xanthosia bungei 1
							Allocasuarina acutivalvis

067	Mt Singleton	9	24	34	2.00		subsp. prinsepiana 60 Borya sphaerocephala 10 Cryptandra connata 2 Xanthosia bungei 1
069	Mt Singleton	9	24	34	2.00		Allocasuarina acutivalvis subsp. prinsepiana 50 Borya sphaerocephala 10 Micromyrtus racemosa var. prochytes 10 Cryptandra connata 2
068	Mt Singleton	9	24	34	1.00		Allocasuarina acutivalvis subsp. prinsepiana 60 Micromyrtus racemosa var. prochytes 5 Cryptandra connata 2 Borya sphaerocephala
071	Mt Singleton	10	25	35	1.00		Micromyrtus racemosa var. prochytes 30 Allocasuarina acutivalvis subsp. prinsepiana 15 Calothamnus gilesii 1 Podolepis canescens 1 Schoenus nanus 1
072	Mt Singleton	10	25	36	1.00		Allocasuarina acutivalvis subsp. prinsepiana 70 Melaleuca uncinata 2 Schoenus nanus 2
							Allocasuarina acutivalvis subsp. prinsepiana 35

073	Mt Singleton	10	25	36	1.00		Borya sphaerocephala 2 Hypoxis occidentalis var. occidentalis 2 Micromyrtus racemosa var. prochytes 2 Acacia oswaldii 1
074	Mt Singleton	10	26	37	1.00		Micromyrtus racemosa var. prochytes 6 Allocasuarina acutivalvis subsp. prinsepiana 4 Hypoxis occidentalis var. occidentalis 3
075	Mt Singleton	10	26	37	1.00		Allocasuarina acutivalvis subsp. prinsepiana 30 Borya sphaerocephala 5 Micromyrtus racemosa var. prochytes 4 Hypoxis occidentalis var. occidentalis 2 Xanthosia bungei 1
076	Mt Singleton	10	26	37	1.00		Allocasuarina acutivalvis subsp. prinsepiana 20 Micromyrtus racemosa var. prochytes 10 Acacia acuminata 4 Borya sphaerocephala 4 Hypoxis occidentalis var. occidentalis 3 Lawrencella rosea 3 Waitzia nitida 2
							Allocasuarina acutivalvis subsp. prinsepiana 15

077	Mt Singleton	10	27	38	0.00		Acacia acuminata 8 Brachychiton gregorii 4 Aristida contorta 3 Rhodanthe charsleyae 2
078	Coonigal Well	10	27	39	1.00		Acacia acuminata 30 Allocasuarina acutivalvis subsp. prinsepiana 15 Hypoxis occidentalis var. occidentalis 5
079	Coonigal Well	10	27	39	1.00		Acacia acuminata 30 Allocasuarina acutivalvis subsp. prinsepiana 20 Hyalosperma cotula 3 Lawrencella rosea 3 Hypoxis occidentalis var. occidentalis 2
090	Well (ruin) E	10	28	40	1.00		Acacia acuminata 20 Hyalosperma cotula 5 Eremophila oldfieldii 4 Grevillea scabrida 4 Dodonaea inaequifolia 3
091	Well (ruin) E	10	28	40	1.00		Grevillea paradoxa 10 Acacia acuminata 7 Acacia tetragonophylla 7 Acacia kochii 5 Podolepis canescens 5 Podolepis lessonii 4