8-1994

Floristic survey of Northern sandplains between Perth and Geraldton

Edward Arnold Griffin

DEPARTMENT OF AGRICULTURE
WESTERN AUSTRALIA

ISSN 1039-7205

FLORISTIC SURVEY OF NORTHERN SANDPLAINS BETWEEN PERTH AND GERALDTON

Compiled by: E.A. Griffin

In association with the
Spatial Resource Information Group
Department of Agriculture Western Australia
South Perth, Western Australia 6151
August 1994

RESOURCE MANAGEMENT
TECHNICAL REPORT **144**

RESOURCE MANAGEMENT TECHNICAL REPORT series

Information for contributors

Scientists who wish to publish the results of their investigations have access to a large number of journals. However, for a variety of reasons the editors of most of these journals are unwilling to accept articles that are lengthy or contain information that is preliminary in nature.

Nevertheless, much material of this type is often of interest and value to other scientists and to administrators, and should be published.

The RESOURCE MANAGEMENT TECHNICAL REPORT series provides an avenue for dissemination of such material. It is a series of occasional papers in the general subject area of resource management and is jointly published by the Resource Science and the Land Management Branches of the Department of Agriculture, Western Australia.

Intending contributors should contact the convenor of the RESOURCE MANAGEMENT TECHNICAL REPORT series Publication Committee. All papers will be considered by the Publications Committee and appropriate referees.

Published by and available from:

Resource Science Branch and Land Management Branch, Department of Agriculture-Western Australia
3 Baron-Hay Court, South Perth, Western Australia 6151.

FLORISTIC SURVEY OF NORTHERN SANDPLAINS BETWEEN PERTH AND GERALDTON

prepared by

E.A. Griffin

E.A. Griffin and Associates
Consultant Botanist
402 Berwick St.,
St James, W.A. 6102.

in association with the

Spatial Resource Information Group,
Regional Operations
Department of Agriculture,
Baron-Hay Court,
South Perth, W.A. 6151

This project was funded under the National Estate Program, a Commonwealth financed scheme administered by the Australian Heritage Commission (Federal Government) and the Heritage Council of W.A. (State Government).

ISSN 1039-7205

August, 1994

CONTENTS

List of Tables

List of Figures

List of Appendices

ABSTRACT

A database of plant lists from over 2,500 sites was compiled from the Northern Sandplains between Perth and Geraldton. Over 2,500 plant taxa were recorded from the area. Preliminary classification revealed in the order of 500 different floristic types. Analysis of these demonstrated strong regional patterns of floristic composition related to geology and soils. Consistencies in these patterns indicated a need to review the location of some of the botanical district boundaries.

SUMMARY

A project to update and integrate a number of earlier site based vegetation surveys between Perth and Geraldton is described. Corrections to species lists in fourteen of these are provided.

The focus of the study, the Perth Sedimentary Basin between Gingin and the Irwin River, proved rich in native vascular plant flora with almost 2000 taxa recorded. About 15 percent were either rare or geographically restricted.

The integrated database was subjected to preliminary numerical classification of the floristic composition of stands of vegetation. The analysis of the lists of taxa from 2522 sites demonstrated the floristic composition of stands of vegetation in the area was highly diverse. It was estimated that over 500 different types would be recognisable after more detailed interigation of the data was performed.

The classification demonstrated that the major floristic groupings related to geological, soil and/or landform types. Strong regional patterns were highlighted with some being directly related to locally distributed soil types (e.g. Quindalup Dunes).

A preliminary analysis of the distribution patterns of 500 floristic groups defined highlighted some patterns consistent across major vegetation types. A number of common boundaries were highlighted e.g. the Darling Fault. It was concluded that geology and soil factors were a much greater influence on these regional patterns than was climate.

The significance of these regional patterns and possible boundaries to the existing definitions of Botanical Districts is discussed. Some suggestions for modifications are made. The potential to reinstate the Lesueur Botanical District is discussed.

A brief assessment of the significance of these patterns for conservation highlighted the need to protect representative remnants in two areas in particular; nor-nor west of Mingenew and east of Watheroo.

The data collation and analysis highlighted gaps in the database. The most obvious was the poor representation of the enormous variation in the wetlands. Also the areas north of Mingenew and east of Watheroo are poorly documented.

RECOMMENDATIONS

The collation of a substantial database has been a major achievment. However, its value is more in the potential than in the achievment. Deficiencies in the data have been identified. To maximise the opportunities further maintenance and integration with other sources is essential. The database is a tool to identify the adequacy of representation of floristically based vegetation types in conservation reserves and other protected remnants. It is also a very powerful tool in understanding the basis of biogeographic patterns in the kwongan dominated areas of Western Australia. This will improve the basis for regional classifying the vegetation.

RECOMMENDATIONS:

1. The database should be integrated with similar data from other parts of Western Australia and that from the Western Australian Herbarium in a way which will maximise the taxonomic validity of the taxa recognised.

2. Further sampling should be undertaken on the flora of the diverse wetland communities.

3. A sampling programme in the area north of Mingenew should be initiated, potentially with one of the very poorly known Yuna area.

4. The identification and description of ecologically meaningful floristic types in the present study area should be undertaken with a view to assessing their representation in areas of pretected vegetation.

5. The database should be utilised to examine in detail the regional patterns in floristic composition and to test proceedures for identifying regions on the basis of floristic composition not just structure.

INTRODUCTION

STUDY AREA

The area between Perth and Geraldton is noted as botanically rich (George et. al. 1979) and has been the focus of a substantial number of site based botanical studies over the last decade. In no other part in Western Australia has there been such a concentration of study effort. The focus of the study was the mainly sandy and gravelly soils west of the Darling fault between Gingin and the Irwin River (Figure 1). These studies have been during a period where there has been a substantial improvement in the knowledge of the flora with many new species recognised and named from this area.

The current study was designed to update most of these studies and integrate them in a way which will allow them to be maintained as an on going database.

A number of these (e.g. Griffin et. al. 1983, Griffin and Keighery 1989 and Griffin 1990) indicated significant regional patterns in the composition of stands of vegetation. The patterns identified by these were mostly related to the geology and geomorphology but not to the climate of the respective areas. The vegetation units in the maps of Beard (e.g. Beard 1976a) also commonly reflect the geological patterns. However, some of Beard's boundaries transgress the geological patterns in a way which is not supported by the site based studies.

Of particular note is the position of the boundary between the Irwin and Darling Botanical District. For example, this major boundary divides the Dandaragan plateau in a way not supported by the results of Griffin (1990). The distribution of many species of kwongan flora are also in conflict with Beard's boundaries (E.A. Griffin, unpublished data).

This study also provides the opportunity to investigate whether there is a case for reviewing Beard's boundaries and even those of Speck (1958). To this end the data assembled deliberately included sites on either side of Beard's and Speck's boundaries and also major geological boundaries.

Geology

The study area primarily coincides with a major portion of the Perth Sedimentary Basin (Playford et. al. 1976). The Darling Fault separates this basin from the mainly granitic rocks of the Archaean Yilgarn Block in the east. The Yilgarn Block is far from uniform and, for example, near its west margin includes the Jimberding and Chittering Metamorphic Belts and the Berkshire Valley Succession (Wilde and Lowe, 1978 and Carter and Lipple, 1982). A small band of Proterozoic sedimentary rocks (the Moora Group) lies immediately east of the fault between Moora and Carnamah. The Moora Group is apparently quite different from the rocks of the Perth Sedimentary Basin and are reported to have originated from such diverse sources as volcanic and marine environments.

The Basin includes sediments from the Proterozoic, Paleozoic, Mesozoic and Cainozoic periods. Those of the Proterozoic are small in extent and are exposed only in the Arrino and west Three Springs areas adjacent to a portion of Precambrian chyrstalline rocks (the Mullingarra Gneiss). To the north towards Mullewa there are Paleozoic formations which are mainly marine but included such as the Irwin River coal measures. The Urella fault which runs north from about Marchagee, essentially parallel to and west of the Darling Fault, separates these Proterozoic and Paleozoic rocks from the Mesozoic rocks which characterize most of the Basin.

The Mesozoic rocks are essentially terrestrial sandstone and siltstones. Narrow beds of marine sediments, essentially in the Cretaceous punctuate these otherwise very thick sediments. A number of discrete units (groups and formations) have been recognised. These vary from the Lower Triassic Kokatea shale to the Upper Cretaceous Osborne Formation. The surface exposures are mostly narrow north-south trending bands. The oldest exposures are generally in the west and youngest in the east. This is the result of the generally east dipping beds giving north-south trending strikes and a complex series of faults sub-parallel to the Darling Fault.

The exposures of Mesozoic sediments are, however, patchy being covered by shallow and predominantly unconsolidated Cainozoic sediments and disguised by weathering products (i.e. soil). The major Cainozoic sediments are the Pleistocene Bassendean Sand and Tamala Limestone and the Holocene Safety Bay Sand. The essentially minor sediments are unnamed and include the lateritic mantle, colluvium, alluvium and aeolian sands.

Physiography

There are essentially two units in the study area: a plateau unit and a coastal plain unit. The Gingin Scarp which is a Pleistocene marine escarpment separates the plateau from the plain.

The plateau has been divided into several parts. The Arrowsmith Region in the west is the most dissected portion. This is essentially the plateau portions of the Yarragadee and Cockleshell Formations. East of this are two separate plateau units; the Dandaragan Plateau and the Victoria Plateau essentially underlayen by the Parmelia and Yarragadee Formations respectively. Both have very subdued relief with few distinct drainage channels. The Irwin River separates these from each other (Lowry, 1974). The Dandaragan Scarp separates the former from the Arrowsmith Region. On the very eastern margin is the Yarra Yarra Region which is a poorly defined area of lake and associated dune deposits.

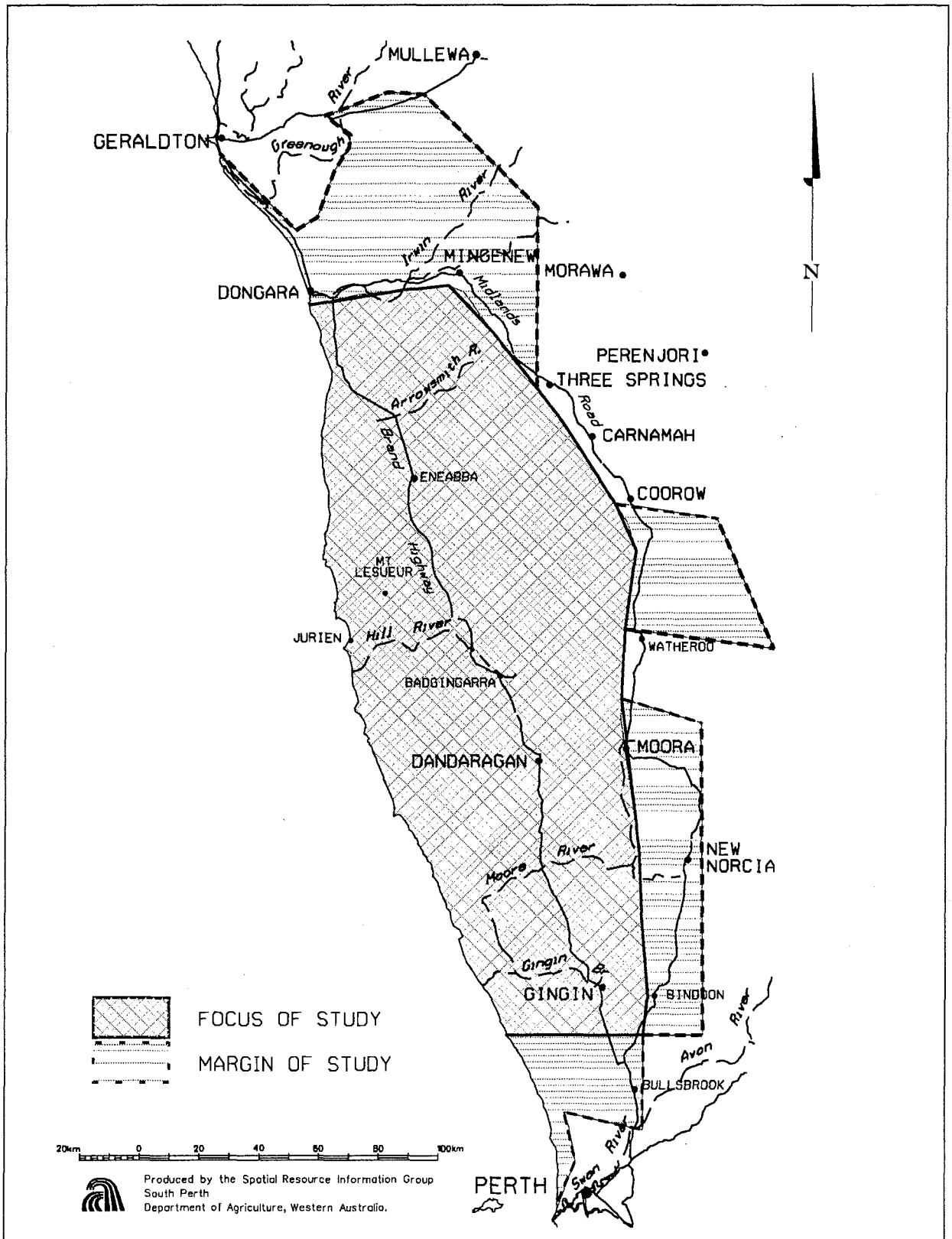


Figure 1: LOCATION MAP

The coastal plain is, in part, is called the Swan Coastal Plain. It, too, has been divided into several units. The oldest, and eastern most of these landform units are the Bassendean Dunes and the Eneabba Plain which are analogous being each just west of the plateau units. To the west of both is the Spearwood Dunes which is equivalent to the Tamala Limestone. The Quindalup Dunes (Safety Bay Sands) is a narrow band along the coast.

The Darling Fault is only a minor influence on the landscape except in the very south through the Darling Scarp. The significant changes in soil types attest to its presence in the majority of the area studied (see Figure 2).

Soils

Figure 2 is a map of the soils derived from Northcote et. al. (1967). This shows significant lineation sub-parallel to the coast. Many units can be directly related to geological units. The soils of the focus of the study area are principally sands dominated by quartz. Those of the plateau units are mainly grey and yellow varying in depth depending on the degree of podzolization stripping and redistribution. This can be related to the physiographic units indicated above. Localised patches of heavier soils correspond with alluvium or exposures of partially weathered Mesozoic sediments.

The Bassendean Dunes and Eneabba Plain have varying depths of grey and yellow sand with isolated alluvium. The Spearwood Dunes are weathered limestone with a mantle of brown and yellow quartz sand apparently residual of the weathering process. The Quindalup Dunes are calcareous sands with minimal soil development.

The soils east of the Darling Fault are generally heavier, often red and brown loams and gravels.

Drainage

Integrated surface drainage appears to account for only a portion of the precipitation in the focus of the study area. The major rivers (Greenough, Irwin, Moore and Swan) all have significant catchments to the east of the study area. Of the local drainages only the Hill River reaches the coast directly but even here very intermittently. The others including the Arrowsmith River, Eneabba Creek, Namban River and Mullering Brook all discharge into ephemeral lakes on the boundary between the Eneabba Plain or the Bassendean Dunes and the Spearwood Dunes. A significant portion of this drainage apparently discharges into the sea through sub-surface routes.

Most of the Mesozoic sediments are major fresh water aquifers and are apparently recharged by percolation of rain water through the soil. Together with evaporation, this is probably the major sink for the precipitation.

Climate

The rainfall in the Central Coast declines considerably from over 750 mm in the south to less than 450 in the north-east. According to the scheme of Bagnouls and Gaussen (1957) the climate of the study area can be defined as Warm Mediterranean in the south and Dry Warm Mediterranean in the north east. The boundary represents 6 months of dry weather. Beard (1979a) equated this to the 450mm rainfall isohyet. Rainfall reliability declines on the same gradient. The Gingin Scarp produces a distortion of this gradient, apparently an oreographic influence by which rainfall along the scarp is slightly higher than on the coast.

The temperature regimes follow a pattern inverse to that of rainfall, but only the summer maximum temperatures vary to any extent. Evapotranspiration increases in a general west to east direction.

Vegetation

The vegetation is essential shrub and low tree dominated and colloquially defined as Kwongan. These have been described in general terms by Speck (1958) and more comprehensively by Beard (1976a etc). These descriptions are only rudimentary having relied on the major structurally dominant species. Recent site based studies (Wills 1989, Hopkins and Hnatiuk 1981, Griffin et. al. 1983, Griffin and Keighery 1989, Martinick and Assoc 1989, Griffin 1990, 1991, 1992, Weston et. al. 1992 and Griffin 1993) have attempted to define vegetation units based on floristic composition.

Comprehensive mapping of vegetation units is limited to those studies of Beard. Figure 3 displays vegetation systems derived from this mapping. Several studies (e.g. Griffin and Keighery 1989, Griffin 1990, 1992 and 1993) have attempted to define geographic patterns based on floristic units but in this case only in a limited part of the study area.

Beard's vegetation systems broadly follow geology and landform units. On the plateau the degree of stripping and the major soil types appear to be the principal factors influencing the patterns recognised in his units more than the geological units. The units of the coastal plain are more closely related to the major geological (Cainozoic) deposits.

It may not be appropriate to expect Beard's boundaries to be relevant to floristic composition. However, several studies (e.g. Griffin 1990) have indicated that some boundaries are inconsistent with ones defined by analysis data derived from floristic composition of stands of vegetation.

Beard (1980) re-defined botanical district boundaries by amalgamating his vegetation systems. Several of these are shown in Figure 3. Beard (1979a) supported the location of these with just a few sentences about differences in geology and climate. It is clear, however, that part of these transgress major geological and landform boundaries.

Figure 2: SOILS MAP
(Northcote et. al. 1976)

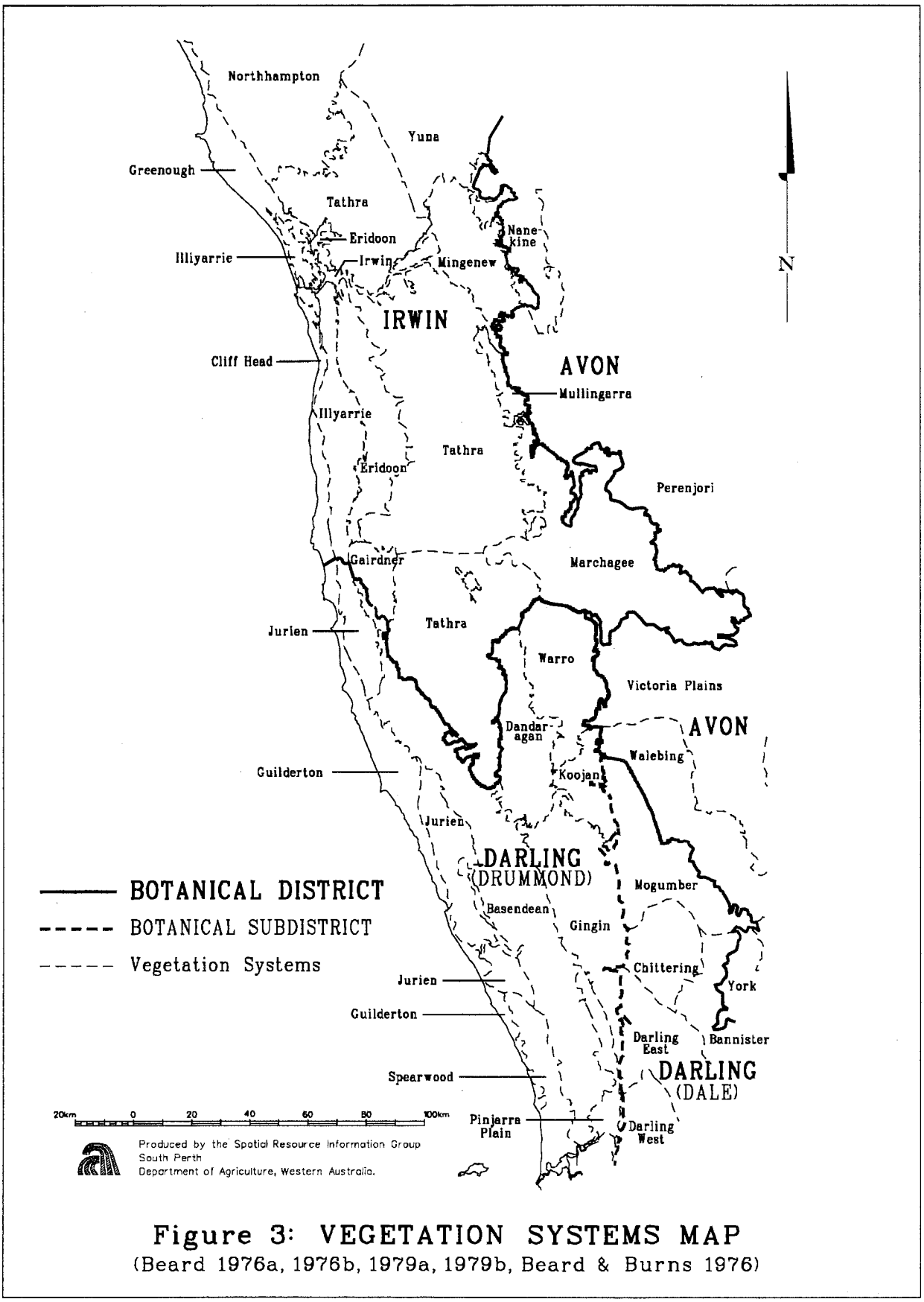


Figure 3: VEGETATION SYSTEMS MAP
(Beard 1976a, 1976b, 1979a, 1979b, Beard & Burns 1976)

Land use

Figure 4 indicates the areas of Crown land in the study area. This shows that the majority of the study is alienated land most of which has been cleared for grazing and cropping activities. There is a regional pattern to the degree of alienation and clearing. The area around Dandaragan, for example, is almost totally alienated and cleared. On the other hand most of the Quindalup and Spearwood dunes are unalienated and uncleared.

This alienation and clearing pattern apparently follows the relative desirability of the land for agriculture. The areas Crown land and in particular in conservation reserves is inversely related to this desirability. So too is the areas of privately owned remnants.

The principal conservation reserves include the Watheroo, Lesueur, Nambung, Alexander Morrison, Moore River and Badgingarra National Parks and Boonanarring, Pinjarrega, Wannagaran, Nilgen, South Eneabba, Coomallo, the Boothendarra Nature Reserves and two reserves for beekeeping. There are many smaller miscellaneous Crown reserves and some large areas of vacant Crown land e.g. west of Cataby.

Other land uses such as mining, gravel extraction, flower picking have a more limited impact on the area of remnant vegetation. However, they may have severe local impact on restricted habitats and species.

Figure 4: CROWN LAND
(all reserves and vacant Crown land)

METHODS

The two basic aspects of the study required a combination of literature review, reference to the Western Australian Herbarium and field observations.

FLORA

A list of plant species encountered in the area studied and reported in various sources was compiled. This was validated by reference to the collections of the Western Australian Herbarium, specific current flora treatments and specialist taxonomists. Species were noted for their presence in the focus of the study (west of the Darling Fault between just north of the Irwin River and just south of Gingin), or immediately adjacent (Figure 1).

Concerted attempts were made to update the flora lists reported in most of the previous significant floristic studies from this area (Wills 1989, Hnatiuk and Hopkins 1980, Hopkins and Hnatiuk 1981, Griffin and Hopkins 1981, Griffin et. al. 1982, 1983, Griffin and Hopkins 1985, Griffin and Keighery 1989, Burbidge et. al. 1990, Griffin 1990, 1991, 1992, Weston et. al. 1992, Griffin 1993). Some names reported in studies were not able to be validated with any certainty since they were not supported by suitable voucher specimen.

Several studies (Speck 1958, Lamont 1976, Beard 1976a, 1976b, 1976c, 1979a, 1979b, Beard and Burns 1976, Bell and Loneragan 1985, Burbidge and Boscacci 1989, van der Moezel et. al. 1987, Froend 1988, Elkington and Griffin 1984, Elkington 1987, McMillan and Foulds 1980, Foulds and McMillan 1985, Foulds and McMillan 1988) were omitted from this process because attempts to update began to involve excessive speculation.

SITE DATA

A review was conducted of the research from within or adjacent to the study area which involved lists of plant species (with or without abundance estimates) from individual stands of vegetation. Most of those responsible for this research made it readily available. When it was clear which data was available, a programme of supplementary field observations was designed.

Existing Data

Data was made available from 10 studies, either published or unpublished (Wills 1989, Hopkins and Hnatiuk 1980, Griffin et. al. 1983, Griffin and Keighery 1989, Martinick and Assoc 1989, Griffin 1990, 1991, 1992, Weston et. al. 1992 and Griffin 1993). Unpublished data from E.A. Griffin, G.J. Keighery and R.J. Hnatiuk which formed part of a further 9 studies were also utilised. The locations of these studies are shown in Figure 5.

The issue of compatibility of the sample area of stands was a factor in selecting the data which would be used. Brief descriptions of the studies used and their sampling methods are included in Appendix 1. Some of these studies involved marked 10 m x 10 m quadrats and others releves of a similar size. Some of the sites of Hopkins and Hnatiuk (1980) were four nested 4 m x 4 m unmarked quadrats. Only those of Griffin (1991) were based on significantly smaller quadrats (2 m x 2 m). Most quadrat based studies also involved observation from outside the quadrat.

Studies into species-area relationships and experience in sampling this area suggest that a sample area of about 100 m^2 is appropriate for Kwongan vegetation. Most of the data used adequately meet this criterion when the observations from inside and outside the quadrats was amalgamated into single stand species lists (releves). That of Griffin (1991), while mostly from smaller areas than others was still considered suitable to include as it was from herb fields and had been designed to adequately represented the stand being sampled.

It was necessary for the species data to be accompanied by edaphic data. This involved a significant amount of review of how to describe the most important variables (Appendix 2). Attempts were made to convert all available data to this standardised form. For some sites in some studies it was necessary to infer the value of particular variables where data was missing. In some cases even this was impossible, particularly where none of this type of data had been collected.

Field Observations

The data from a total of 649 sites were recorded during a spring 1992 sampling programme. These were sites selected to represent stands of vegetation in areas which had not been previously studied. These were mostly on Crown land, occasionally on road reserves, but also on a few privately owned remnants. Data collection involved recording on the data sheet in Appendix 3.

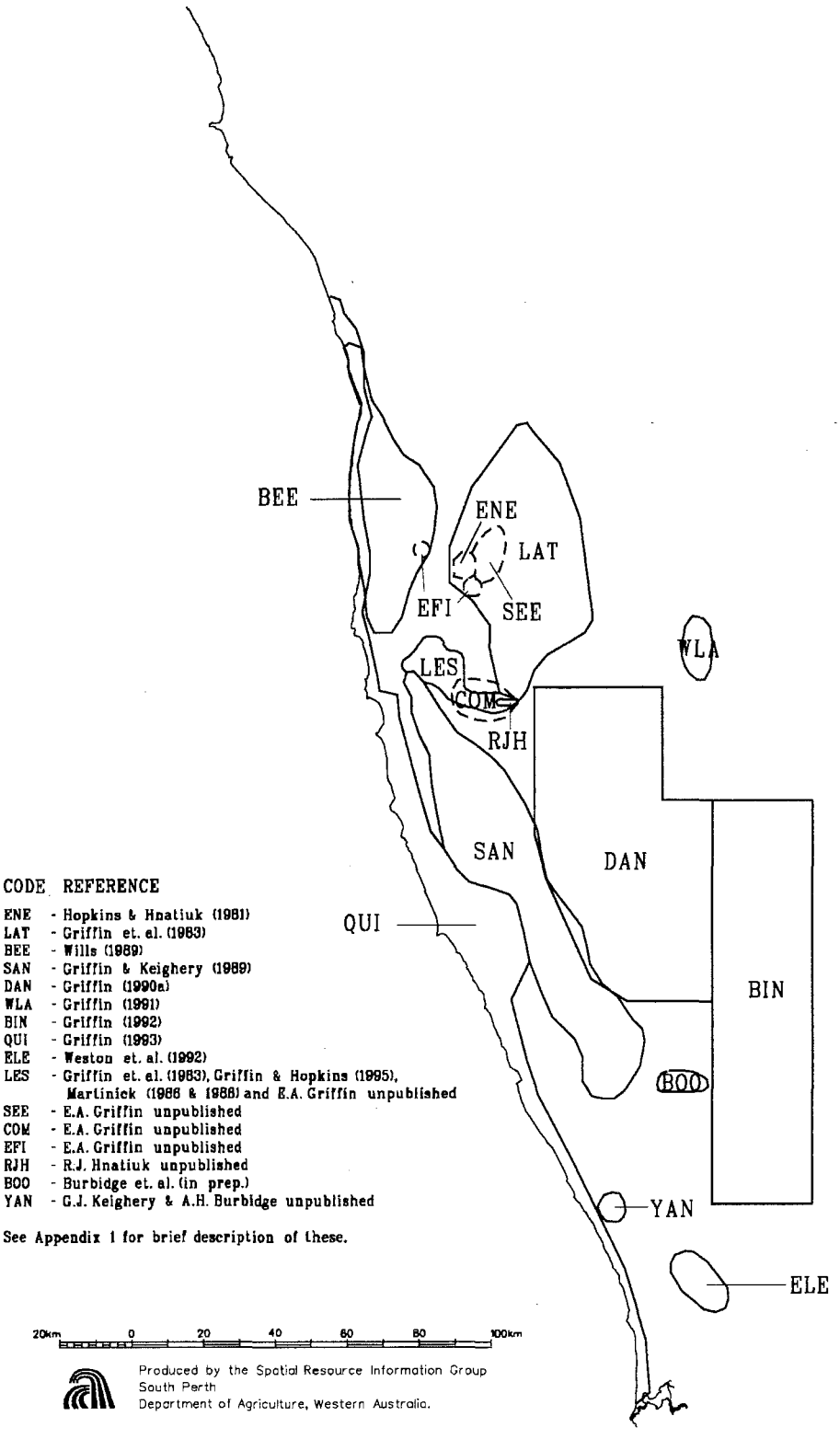


Figure 5: LOCATION OF PREVIOUS STUDIES INCLUDED

Analysis and Summary of Data from Sites

All data available were incorporated into a computer database. This facilitated data validation, preparation for analysis and summarising of results.

Some filtering was required in an attempt to reduce extraneous factors. Firstly, it was necessary to exclude sites which were significantly modified.

Secondly, virtually all weed species were omitted because 1. they had not been assiduously recorded in all studies, 2. the identifications in many cases were not reliable because of the ephemeral nature of most of these species, and 3. it was important to the study to investigate natural floristic composition, not that modified by differential exposure to alien species. Several alien species (*Tetragona decumbens*, *Cakile maritima* and *Carpobrotus edulis*) were retained in this study. The alien status of these could be in doubt as they appear to be cosmopolitan coastal species. Also they are important components of the vegetation of the incipient foredunes and it would be more appropriate to retain them.

Thirdly, because it is likely that there could have been confusion in the identification of some of the native some data selected data was amalgamated. This potentially made some sites appear more similar than they really were, however, it was considered more important to reduce the chances of artificial difference due to disparate identification. Appendix 5 lists the major species amalgamated.

Finally, most of the indeterminate species from each study were eliminated for reasons similar to that above.

Despite this attention there were a few cases where it is believed that sites were grouped together more because of who recorded them than because of the real composition of sites.

The updated data for all studies included in this study has been lodged in an electronic form in the Corporate Database of the Department of Conservation and Land Management. Also included are files indicating the filtering and amalgamation procedure described above. This database is conditionally available to other researchers.

The principal analyses were performed with the aid of a package of computer programs called PATN (Belbin 1987). Included in this were a variety of programs which were used to analyse and summarise the data. For the analysis, a presence/absence matrix of 1812 species by 2522 sites was prepared. The distribution of all 2522 sites included in the study are displayed in Figure 6.

The purpose of the computer analysis was to provide a simplified means of representing what was an extremely complex species data set. The programs used were attempting to perform three basic functions. Firstly, they provided a means of producing groups of sites according to similarities in their species composition. Secondly, the programs enabled the differences between vegetation types to be identified and possible reasons for these differences to be hypothesized and tested. Finally, it provided a means of displaying the results relatively simply.

The principal programs used were:

ASO - This was a program which produces a similarity measure between each row (e.g. sites) of the data matrix and each other row. A variety of formulas were available. In this case the Bray and Curtis coefficient was used. The similarity measures were presented as an Association Matrix of the original row by row (e.g. site by site).

FUSE - This was a classification program which combines the rows into groups. Again there were a number of different ways the fusion could occur. In this case the group average method was used. This ultimately produces one group made up of all rows.

DEND - This displays the history of fusion from FUSE (and other similar programs). From this the grouping of site at different levels of fusion can be displayed.

MST - This was an alternate way of displaying the similarity between the rows. By definition it combines all rows into a tree (or network diagram) so that each row was joined to the row to which it was most similar but without forming a loop.

No attempt was made to submit the data to an ordination program. Ordination proved of little extra value in understanding or describing diverse data sets with many sites which have few species in common (Griffin 1990, 1992, 1993).

Summaries of the data were prepared in the database compiled from all data used. These summaries allowed preparation of floristic and edaphic descriptions of the sites clusters. Tabulations of species occurrences were prepared from these databases.

Plotting of the distribution of the clusters of sites were prepared from Oracle.

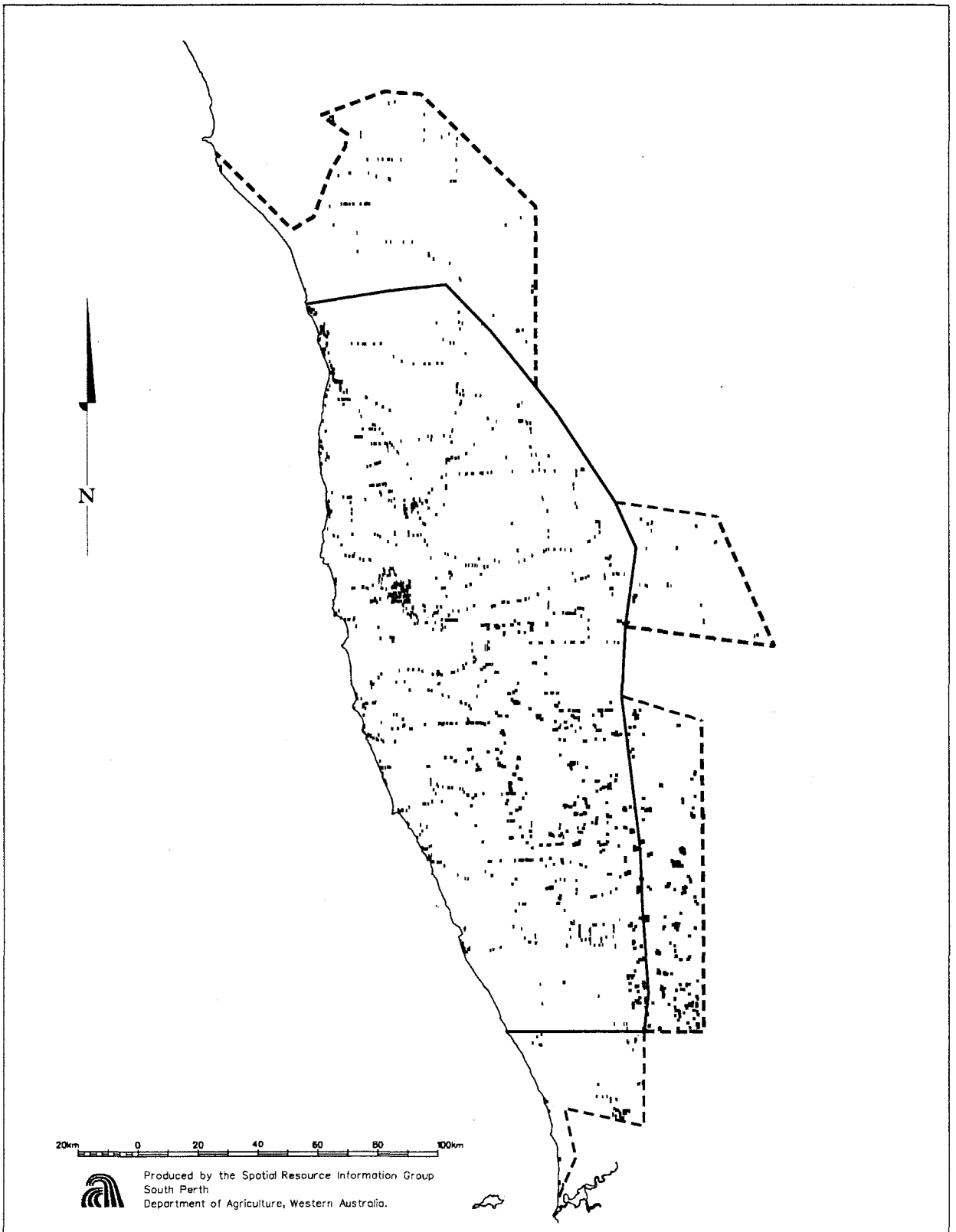


Figure 6: DISTRIBUTION OF SITES USED IN STUDY

RESULTS

FLORA

Appendix 6 is a list of 2847 flowering plant taxa (species, sub-species, varieties and forms). This includes 690 taxa which occurred only on the margins of the study (Figure 1); 102 from the very north and north-east, 253 from the east, 182 from the south-east and 163 from the south. The remaining 2157 taxa having been recorded from west of the Darling Fault between just north of the Irwin River and just south of Gingin, the focus of the study.

Of the 2157, 193 were introduced taxa leaving 1964 natives. When the current round of taxonomic revisions for the Flora of Australia are complete, it is likely that the number of native flowering plant taxa in this area will significantly exceed 2000; about one fifth of the flora of Western Australia.

Typical of other studies of kwongan in south-western Australia, the families Myrtaceae (276 taxa), Proteaceae (208) and Papilionaceae (124) were the best represented (Table 1). These families accounted for over one quarter of the total taxa found in the core. Other rich families included Asteraceae (109), Orchidaceae (97), Liliaceae (90), Cyperaceae (87), Mimosaceae (83), Epacridaceae (64) and Goodeniaceae (57). These 10 families represented over half of the total native taxa.

The genera represented by the greatest number of taxa were *Acacia* (83), *Eucalyptus* (66), *Stylidium* (50), *Verticordia* (40), *Leucopogon* (38), *Melaleuca* (37), *Dryandra* (36), *Grevillea* (36), *Hakea* (36), *Schoenus* (34), *Drosera* (34), *Conostylis* (30), *Daviesia* (28), *Hibbertia* (28), *Caladenia* (26), *Conospermum* (26), *Banksia* (22), *Jacksonia* (21), and *Calytrix* (20). Together these top 19 genera represented one third of the native taxa recorded for the core.

Table 1 Summary of Taxa by Families, Priority, Geographic Restriction

FAMILY/Genus	Total	rare*	geog
POACEAE	33	0	0
CYPERACEAE	87	8	3
Schoenus	34	5	1
RESTIONACEAE	48	6	12
LILIACEAE **	90	10	10
Thysanotus	19	4	3
HAEMODORACEAE	56	7	21
Conostylis	30	1	14
ORCHIDACEAE	97	7	5
Caladenia	26	1	1
PROTEACEAE	208	48	75
Banksia	22	5	9
Conospermum	26	2	11
Dryandra	36	15	21
Grevillea	36	14	14
Hakea	36	6	8
Petrophile	17	1	4
CHENOPODIACEAE	27	0	
Drosera	34	1	8
MIMOSACEAE	83	16	18
PAPILIONACEAE	124	17	25
Daviesia	28	6	6
Jacksonia	21	3	5
RUTACEAE	25	3	8
Boronia	14	2	
EUPHORBIACEAE	22	2	1
Hibbertia	28	1	2
THYMELAEACEAE	12	0	1
MYRTACEAE	276	58	84
Baeckea	11	0	
Calytrix	20	6	6
Eucalyptus	66	24	22
Melaleuca	37	1	2
Scholtzia	15	0	2
Verticordia	40	15	14
APIACEAE	35	5	3
EPACRIDACEAE	64	10	12
Leucopogon	38	4	8
GOODENIACEAE	57	6	8
Dampiera	14	1	1
Scaevola	19	2	4
STYLIDIACEAE	57	7	7
Stylidium	50	6	7
ASTERACEAE	109	4	2

* rare - number of rare or priority species (CALM 1994)

** For purposes of comparison with other studies, LILIACEAE includes families 54C (DASYPOGONACEAE) to 54J (COLCHICACEAE).

Alien Species

A total of 262 alien taxa are listed in Appendix 6. The most commonly observed species were *Vulpia myuros* var. *hirsuta, Arctotheca calendula, Hypochaeris glabra, Sonchus oleraceus, Ursinia anthemoides, Pentaschistis airoides* and *Anagallis arvensis.*

In the sites in good to excellent condition, the weeds were usually sparse and not dominant. The only weed species which had a significant cover were *Tetragonia decumbens* (foredunes), *Mesembryanthemum nodiflorum* (saline site), *Arctotheca populifolia* (incipient foredunes), *Cakile maritima* (incipient foredunes), *Casuarina equisetifolia* (one site near the Southgate mobile sand sheet) and *Pelargonium capitatum* (some young foredunes and deflation basins e.g. at Mindarie).

Rare and Geographically Restricted Taxa

Like other areas with high species richness, the study area had many which were rare or geographically restricted. Almost 250 of the 1964 native plant taxa in the core, (13%) are considered rare or endangered enough to be on CALM's 1994 priority list (Table 1). Over 40% of these were from Myrtaceae or Proteaceae. Other important families were Papilionaceae, Mimosaceae, Liliaceae and Epacridaceae. *Eucalyptus, Dryandra Verticordia* and *Grevillea* were the genera with the greatest number of rare or priority taxa. Over a third of the total taxa of each of these genera in the study focus are considered rare.

It is estimated that about a quarter of the 1964 taxa were restricted to the focus of the study. About 1 in 6 taxa had a range less than 200 km (Table 1). Many others with ranges exceeding 200 km were also confined to the core area e.g. *Dryandra carlinoides* and *Xanthorrhoea* aff. *preissii*. Over 40% of these were from Myrtaceae or Proteaceae. Other important families were Papilionaceae, Haemodoraceae and Mimosaceae. *Eucalyptus, Dryandra, Conostylis, Grevillea* and *Verticordia* had the greatest number of restricted taxa.

About three quarters of the rare species were geographically restricted. Conversely over half of the geographically restricted species were rare. Geographic restriction does not necessarily confer rarity. *Conostylis* for example had many restricted taxa but few rare ones. The taxonomic groups with the greatest number of rare and restricted taxa seem to be those which have been recently revised (e.g. *Verticordia* and *Dryandra*). It does not, however, follow that revision will unearth many rare or restricted taxa. For example only a few of the Goodeniaceae and Orchidaceae, were rare or restricted.

Species List Updates

One of the most important aspects of this study was the updating and integrating of most of the site bases floristic data from the area. These have been prepared in electronic form and are conditionally available on request. Appendix 7 is a series of tables which provide corrections to the species names used in a number of published and unpublished studies from the area in the last 15 years. In some cases there were many changes. Much of this reflects the great improvement in the taxonomy of native Australian plant species.

FLORISTIC ANALYSIS

An object of this study was to demonstrate the degree of variation in floristic composition of stands of vegetation. From this it was hoped that geographic patterns would be apparent which in turn would assist in identifying biogeographic units and boundaries consistent for a wide range of plants.

Classification of Stands

The very wide range of variation in composition has meant that many hundred distinct communities or vegetation types were identifiable. To determine just how many was an enormous enough a task; to describe them all proved impractical.

The assessment conducted was based on comparisons of the homogeneity of groups derived from dividing the classification of the 2522 sites into arbitrary numbers of clusters (20, 50, 100, 200 and 500), and the relationships between the groups.

Firstly, in an abstract sense, most groups at the 500 group level (and virtually all for higher levels of fusion i.e. the 200, 100, 50, and 20 group levels) were heterogeneous (Table 2). It should be inferred that heterogeneous groups would contain more than one distinguishable vegetation type.

Secondly, variation distinguished by earlier studies was commonly submerged within single groups at the 500 group level. For example, most variation identified in lateritic uplands east of Eneabba (Griffin et. al. 1983) was included within group 429 of this study. Similarly variation discriminated in lateritic uplands in the Lesueur area (Griffin and Hopkins unpublished) was included in group 437.

These data suggest that there are more vegetation types in the study area than the 500 different groups but it has not been possible so far to determine just how many. However, to give a more comprehensible presentation, the following is a description of each of the groups from the 20 group level. Firstly the simplified relationship between them.

Figure 7 is the dendrogram outlining the fusion of these 20 groups. (Appendix 8 is a more complete dendrogram starting at the 200 group level.) Figure 8 is an alternate representation of the similarity between groups. This is a simplified representation of a minimum spanning tree diagram which was based on the similarity between each of the 2522 sites.

There was significant accord between the classification (groups) and the minimum spanning tree. Most of the groups which fused together in Figure 7 were generally adjacent in Figure 8. It should be noted that some groups (e.g. 2, 4 and 7) were broken up into a number of parts on separate branches of the minimum spanning tree. This strongly indicates that these groups were heterogeneous.

Table 2 Summary of Homotoneity

(number of groups in each homotoneity range)

	Group 20	Group 50	Group 100	Group 200	Group 500	
<0.1	10	12	9	5		
<0.2	2	20	45	51	7	
<0.3	5	10	21	61	95	
<0.4	2	5	13	37	106	|
<0.5		2	6	16	77	|
<0.6			3	11	42	Heterotoneous
<0.7				3	34	Groups
<0.8					15	
<0.9			1	2	6	
<1.0						----------
<1.1				2	5	
<1.2					2	
<1.3	1	1	1	2	3	Homotoneous
<1.4					2	Groups
<1.5						|
<1.6			1	1		|
<1.7						
<1.8						
<1.9						
<2.0						
<2.1						
<2.2						
<2.3					1	
<2.4						
<2.5					1	
*indet				9	104	

Homotoneity - $S_{IV}+S_V/S_{II}+S_{III}$ (Westhoff and van der Maarel 1973)

S_{II} - # species in between 20 & 40% of sites in the group

S_{III} - # species in between 40 & 60% of sites in the group

S_{IV} - # species in between 60 & 80% of sites in the group

S_V - # species in between 80% of sites in the group

*indet - groups with only one site for which it is not possible to compute this quotient.

This is a measure which attempts to quantify just what proportion of the total number of species in all sites in a particular group occur commonly in that group. Homotoneous groups have many species in common and heterotoneous groups have few.

For Homotoneous groups the above quotient is reputedly greater than 1.

Figure 7 Dendrogram Displaying Fusion of Sites from 20 Group level

See Appendix 8 for more complete dendrogram fusing from 200 Group level

Adjacency between non-fusing groups does not imply high similarity.

The Gaps between lines are intended to emphasise the groupings at the higher levels.

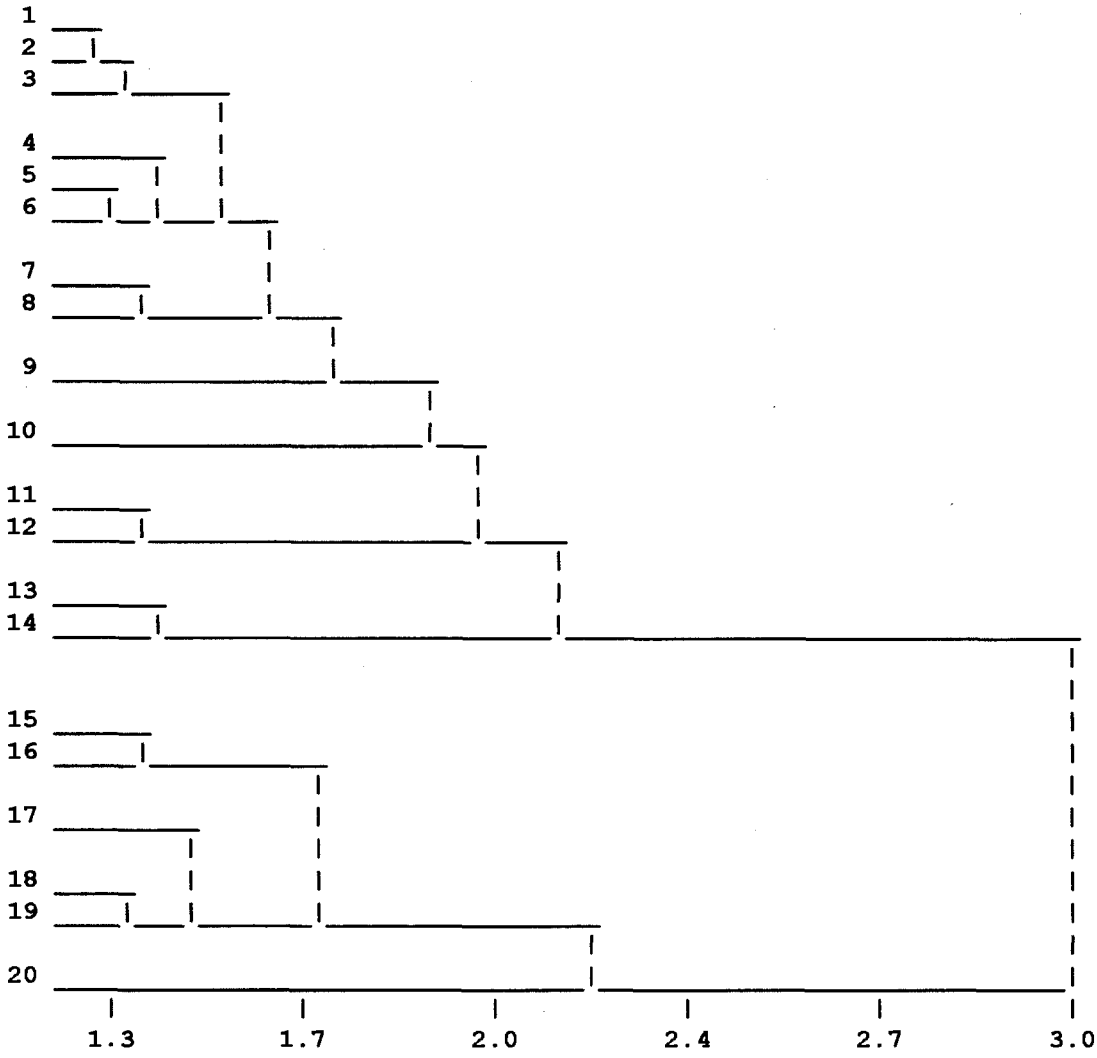


Figure 9 displays the distribution of the sites from the 20 groups. These show even at this very general level that the composition of the vegetation may be regionally influenced. These regional patterns were more obvious when the groups were further subdivided. Interim analysis of these patterns are presented later in this report.

Landforms appeared to strongly influence the groups (Appendix 9). Some landform units were predominantly in one or a combination of groups. Water gaining units (depressions etc.) were clearly in groups 7 and 8; incipient foredunes, truncated foredunes and beach ridges were clearly groups 17 - 20. Most of the landforms were distributed between a number of groups. This suggests that landforms were a major but not necessarily the primary influence on the differences between the vegetation.

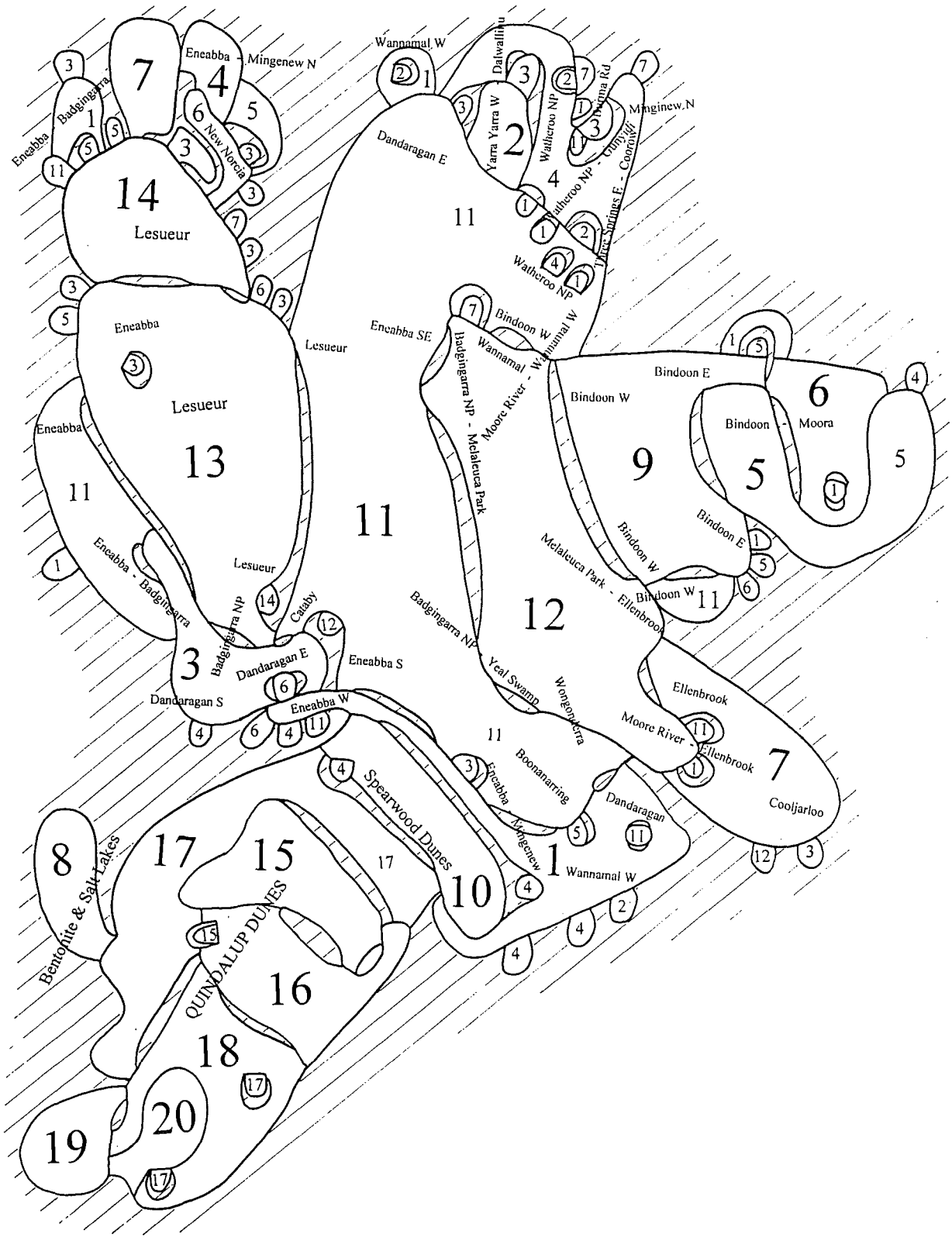
Soils also appeared to be a major influence. For example, while dunes and plains were represented in many of the 20 groups, dunes or plain with calcareous soils were only in groups 15 to 19. Soil in this case was obviously a major determining factor. However, sites on lateritic soils, even those just on uplands, were from a number of unrelated groups suggesting that other factors were more important. In this case it is interpreted as regional patterns overriding both landform and soil factors.

It must be concluded that neither landform, soil nor regional elements were the primary influence on all the floristic groups defined by these analytical procedures. All groups appear to result from combinations, with different emphasis, of these factors and perhaps others.

Figure 8 Simplified Minimum Spanning Tree

Diagram representing the 20 groups superimposed on a minimum spanning diagram.
Inter-group linkage is indicated where groups touch.

The names on the figure indicate the locations from which the sites (not shown) originated.



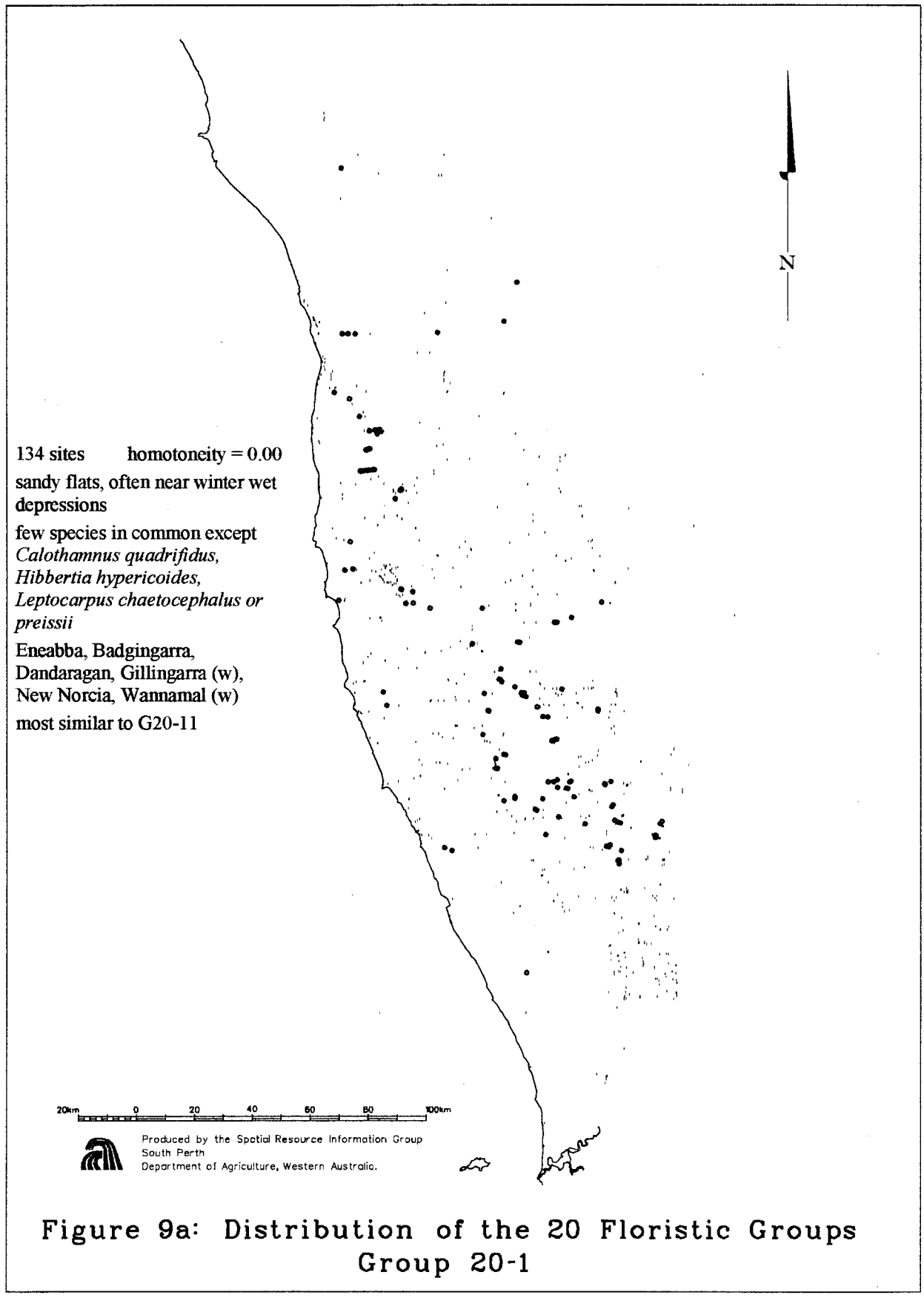


Figure 9a: Distribution of the 20 Floristic Groups
Group 20-1

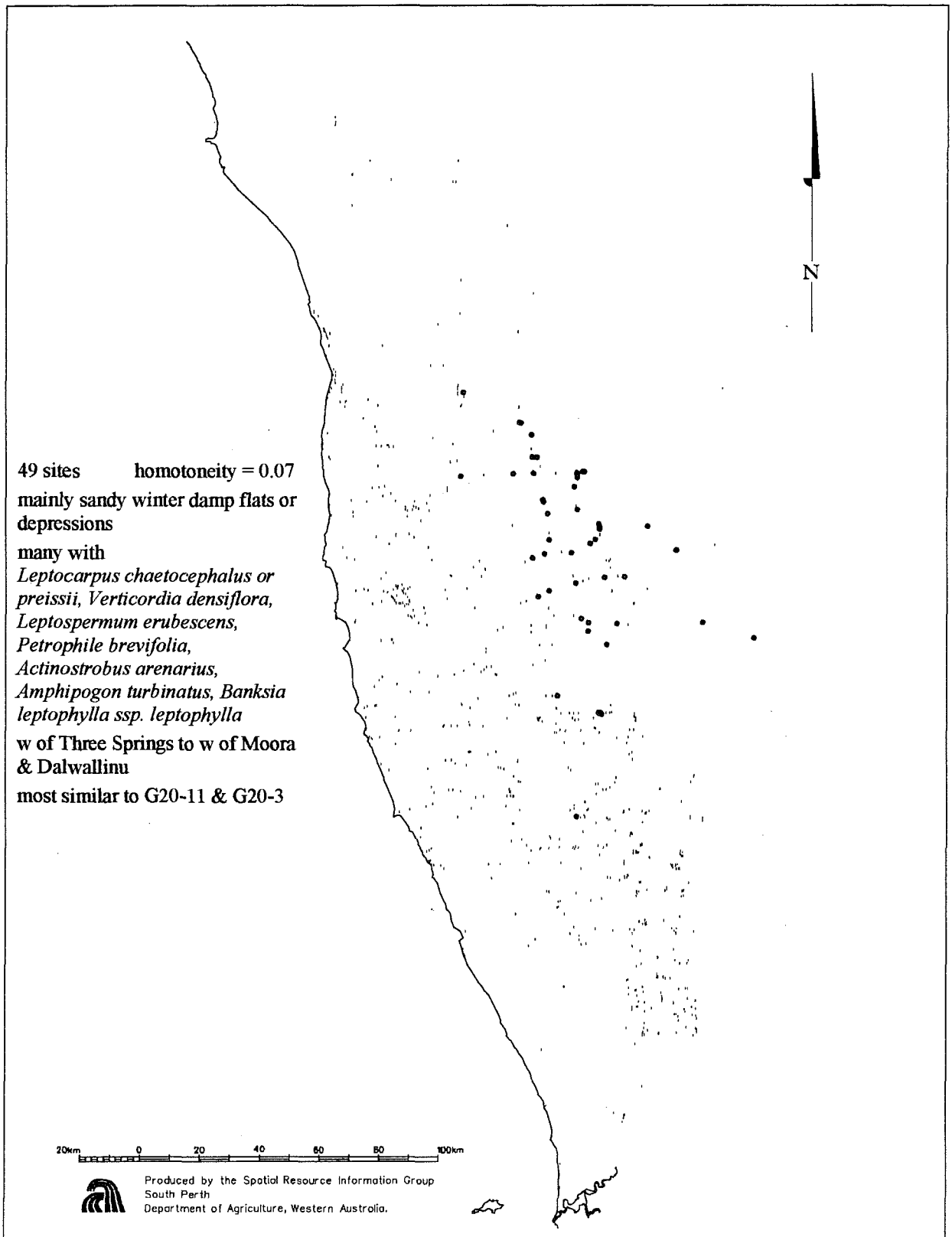


Figure 9b: Distribution of the 20 Floristic Groups Group 20-2

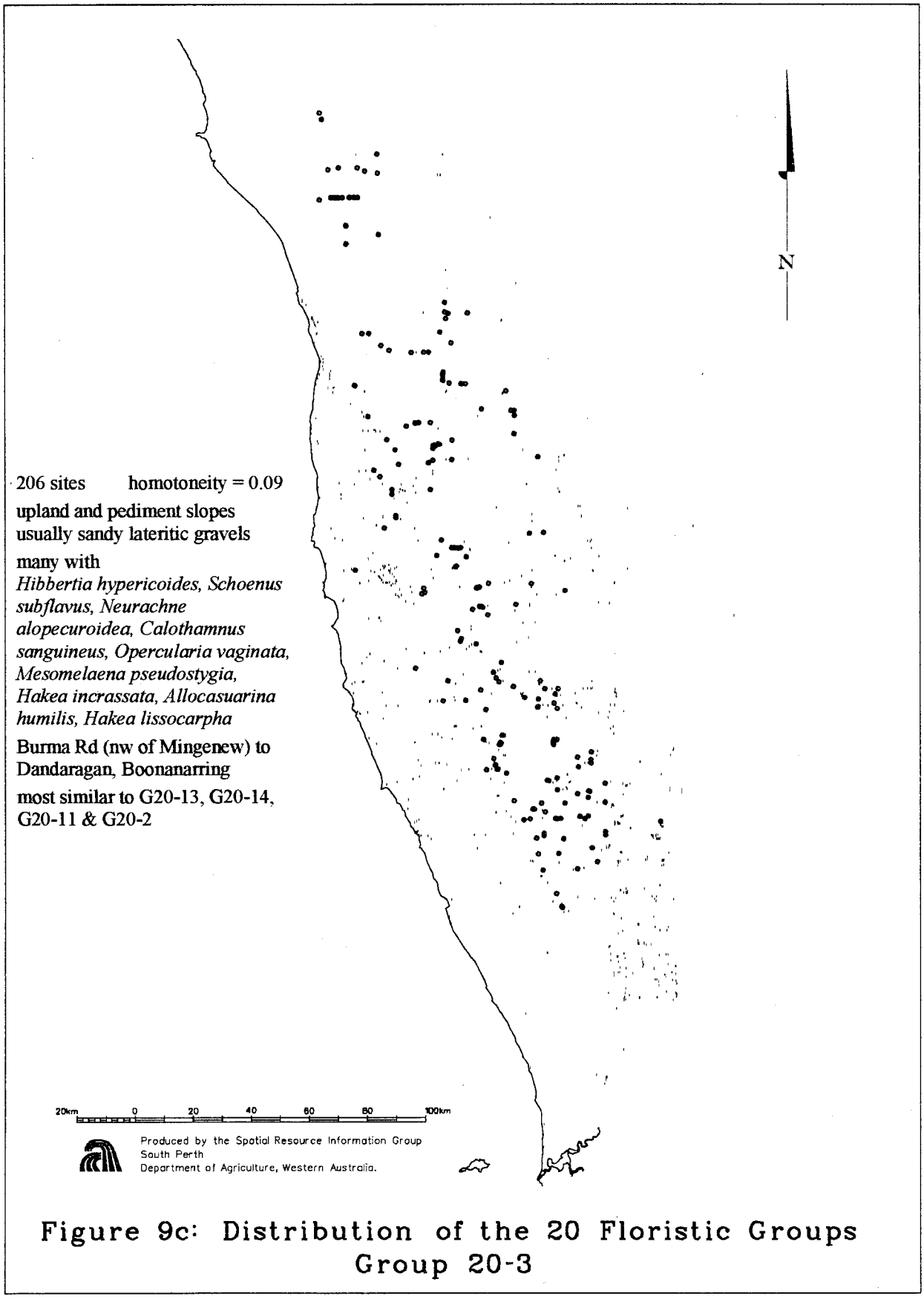


Figure 9c: Distribution of the 20 Floristic Groups
Group 20-3

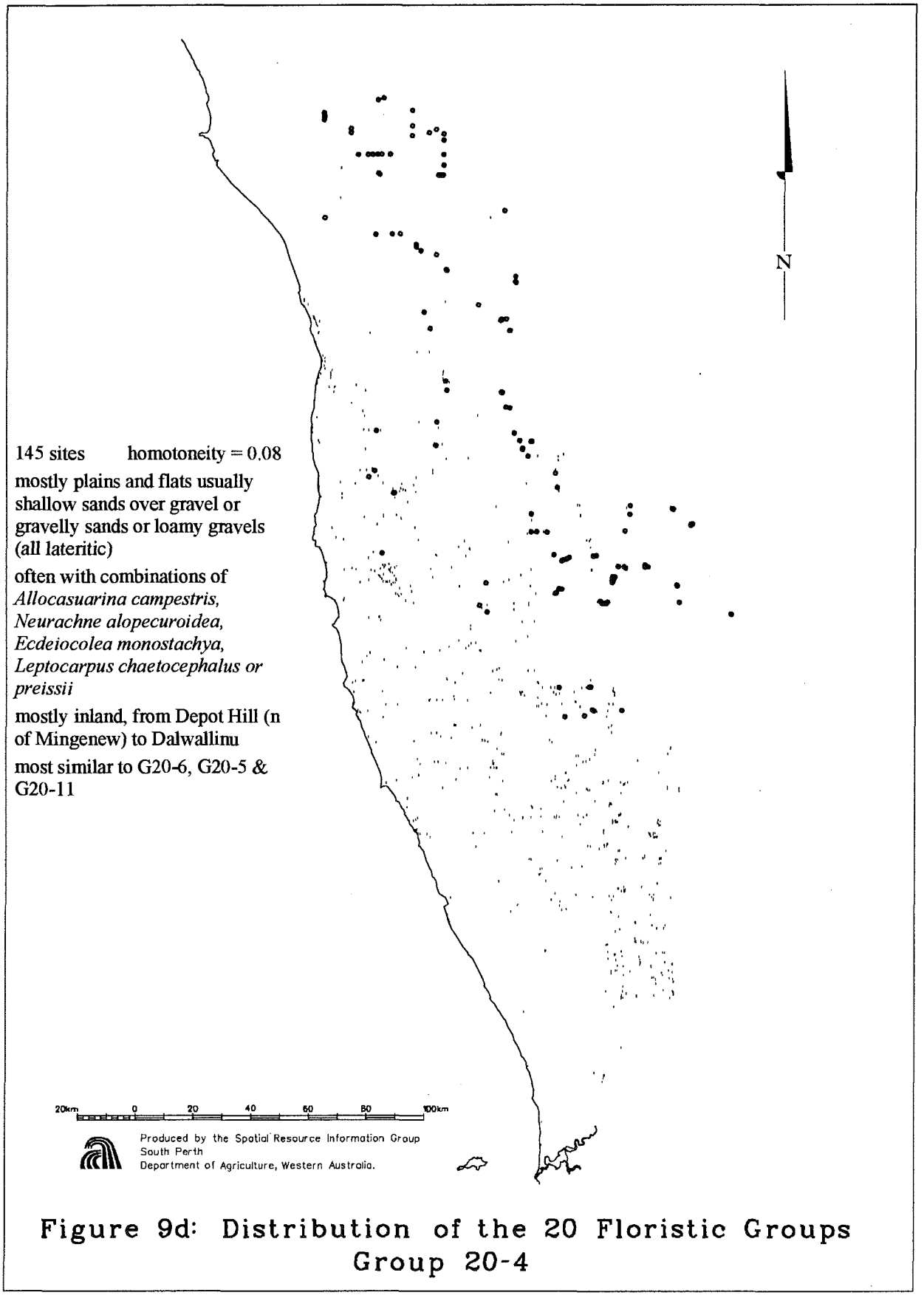


Figure 9d: Distribution of the 20 Floristic Groups
Group 20-4

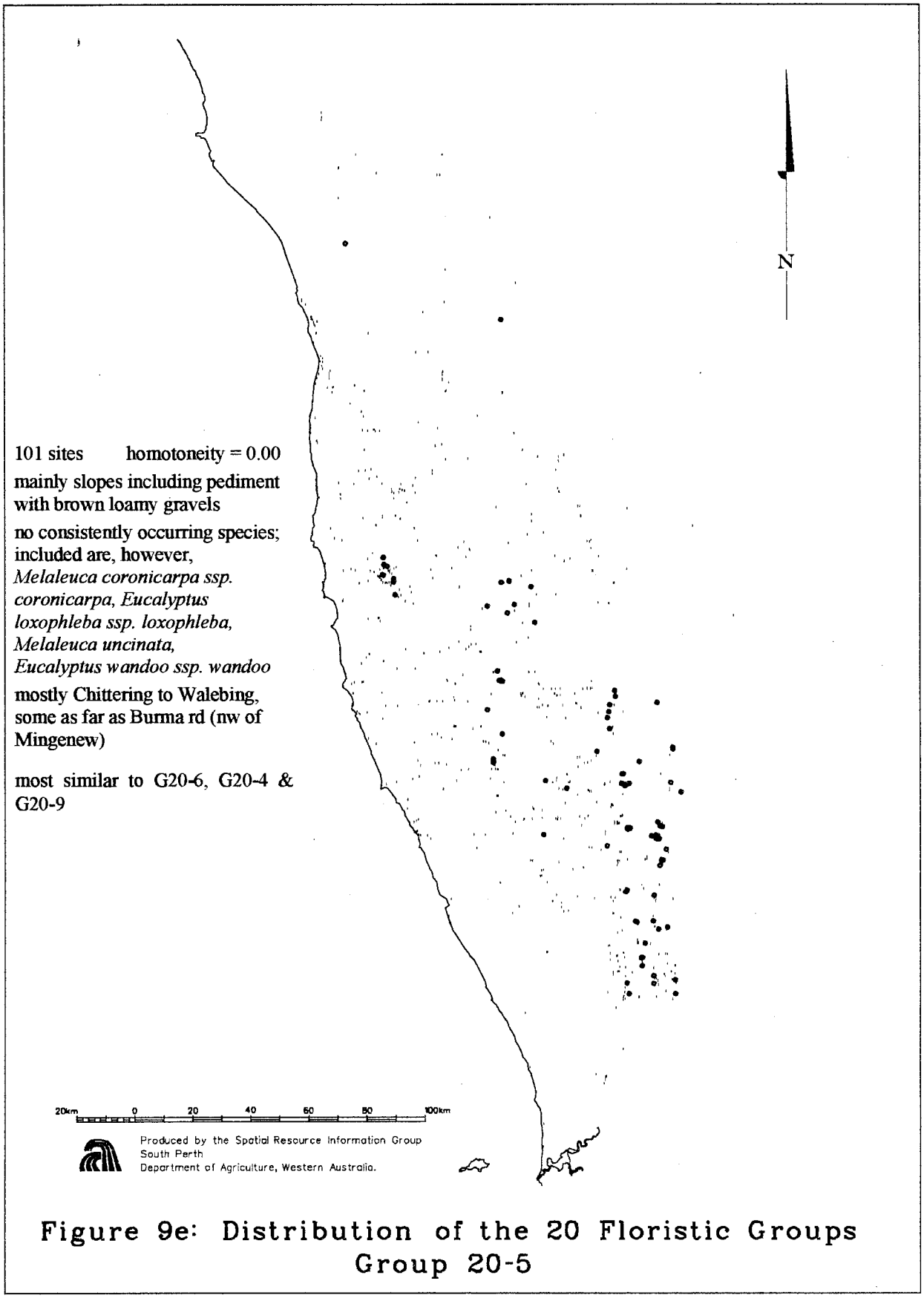


Figure 9e: Distribution of the 20 Floristic Groups
Group 20-5

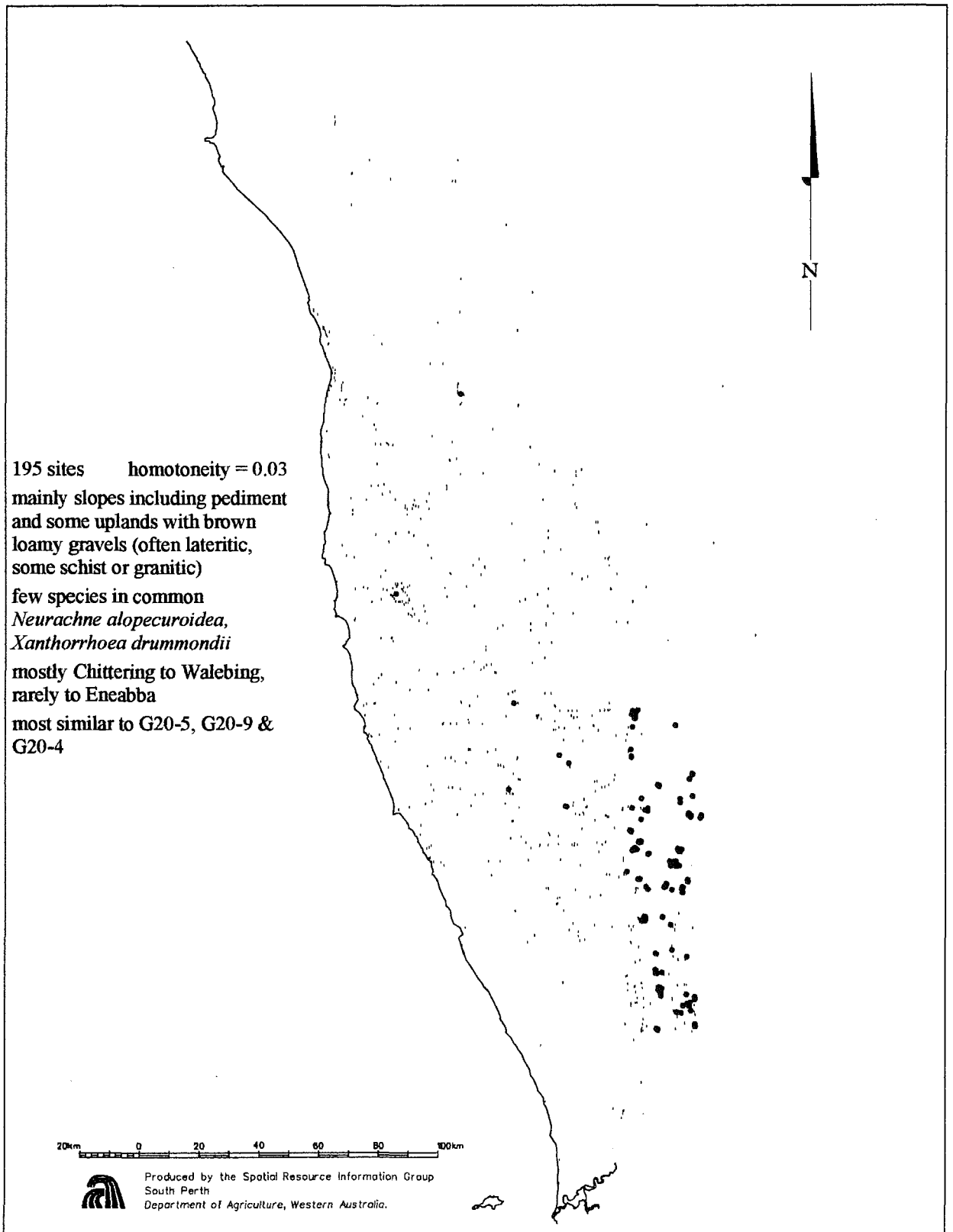


Figure 9f: Distribution of the 20 Floristic Groups
Group 20-6

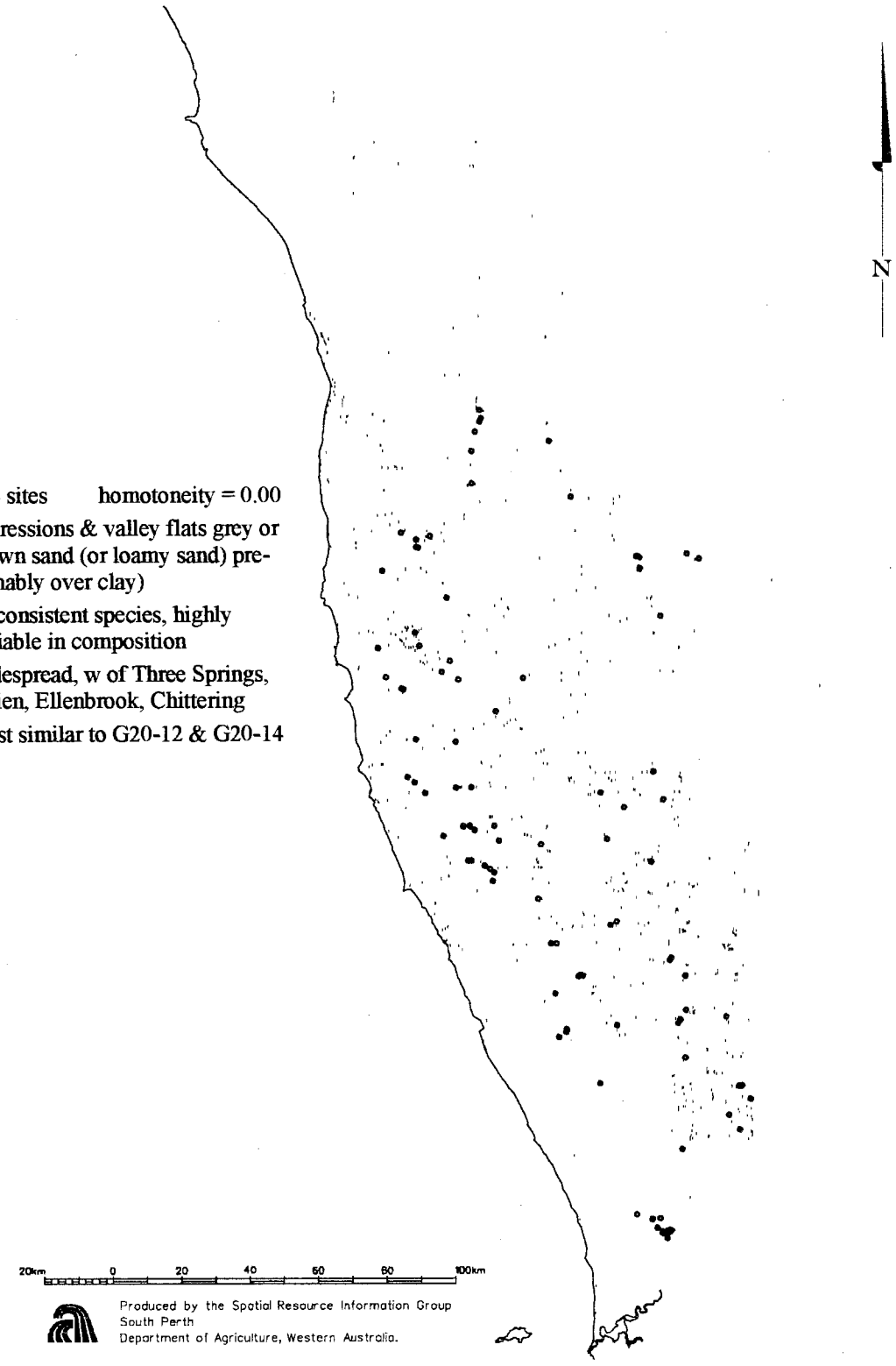


Figure 9g: Distribution of the 20 Floristic Groups
Group 20-7

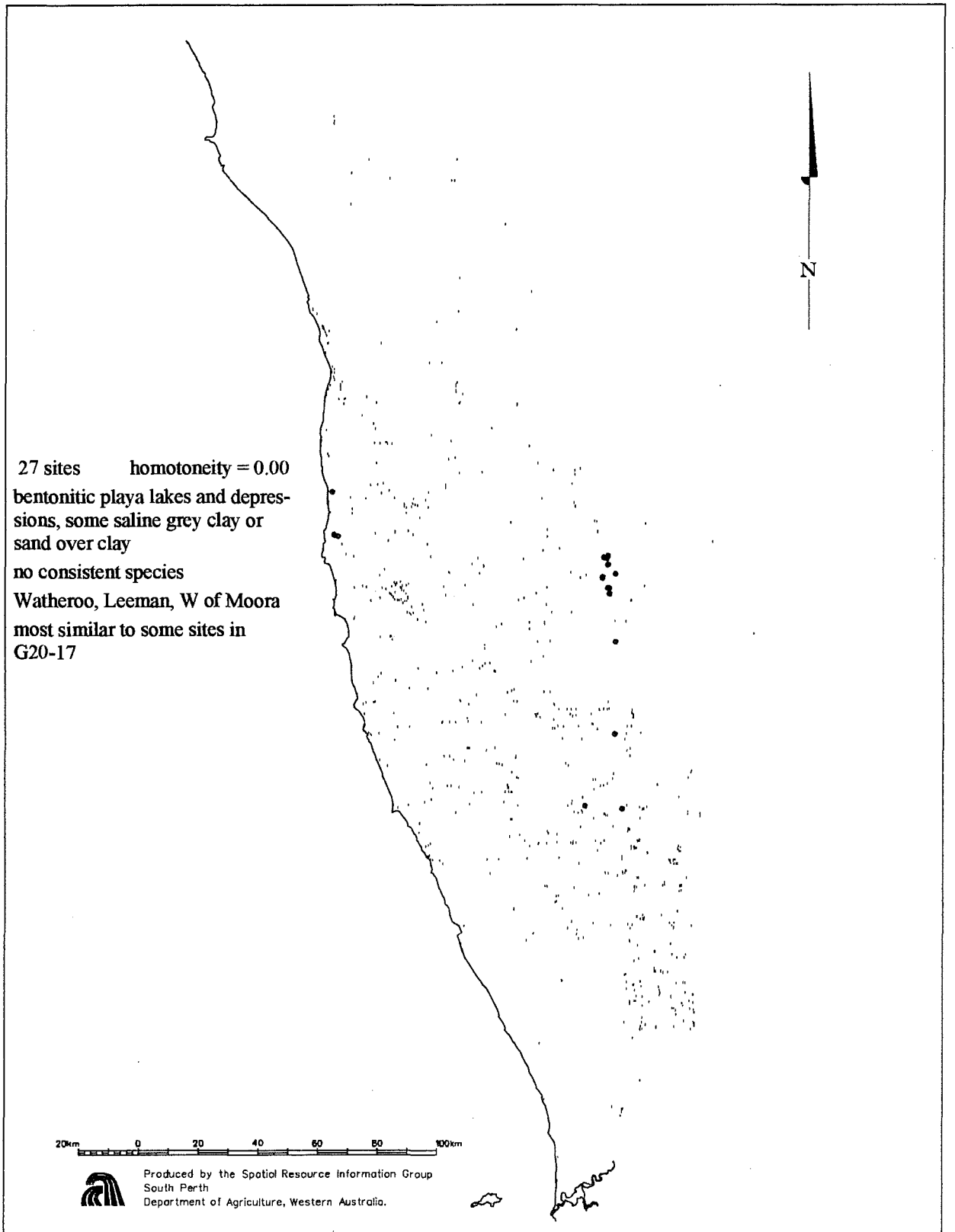


Figure 9h: Distribution of the 20 Floristic Groups
Group 20-8

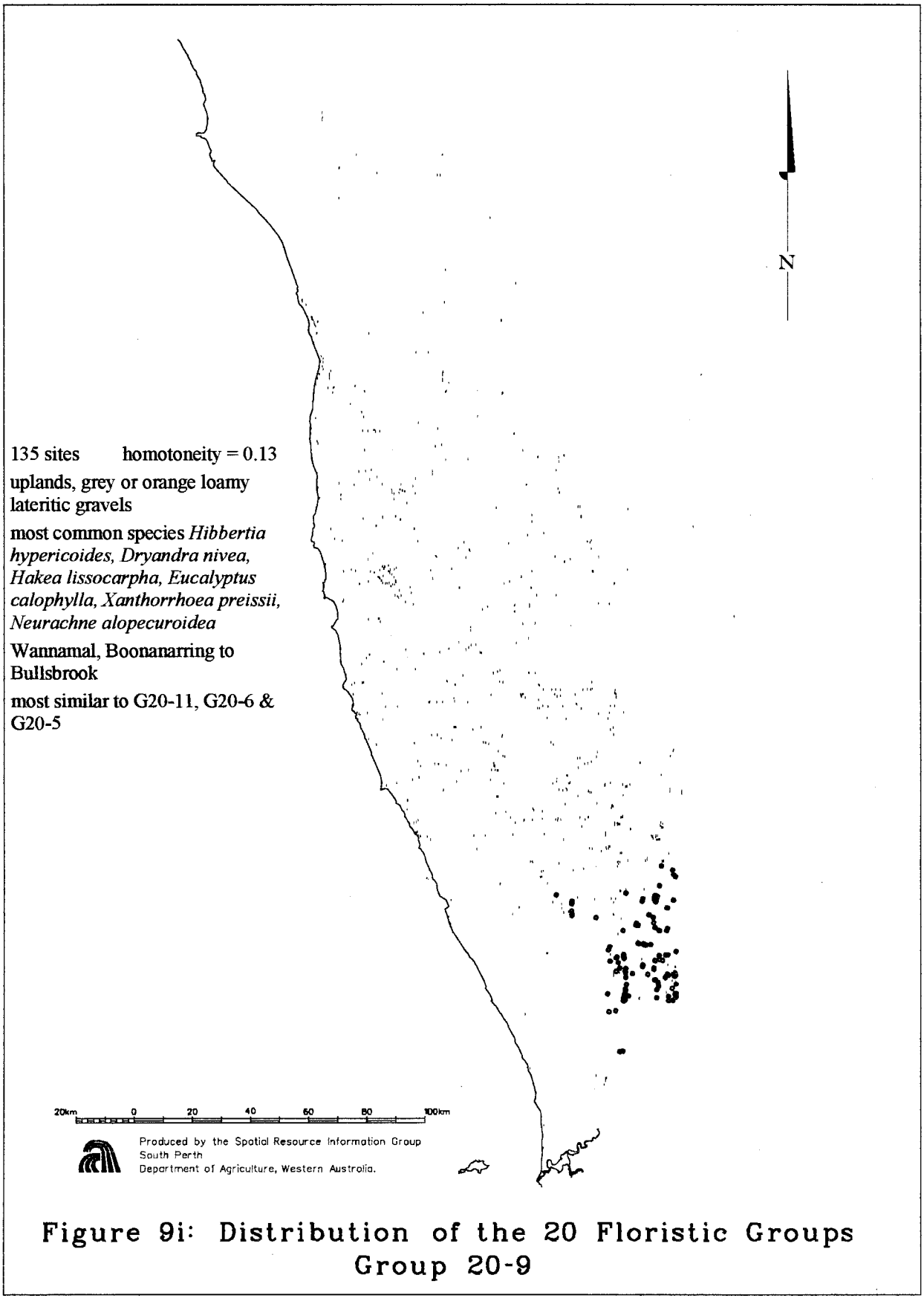


Figure 9i: Distribution of the 20 Floristic Groups
Group 20-9

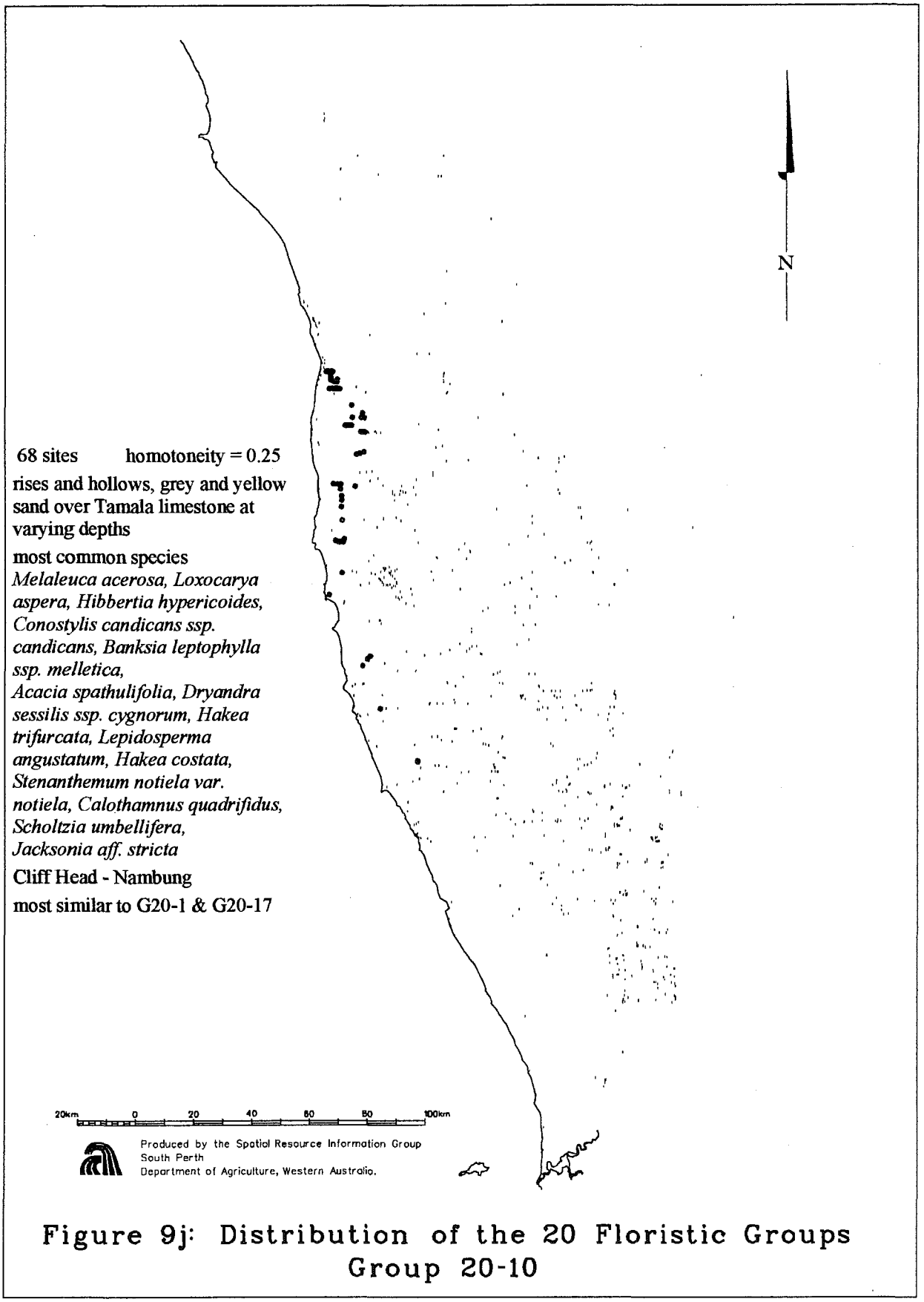


Figure 9j: Distribution of the 20 Floristic Groups
Group 20-10

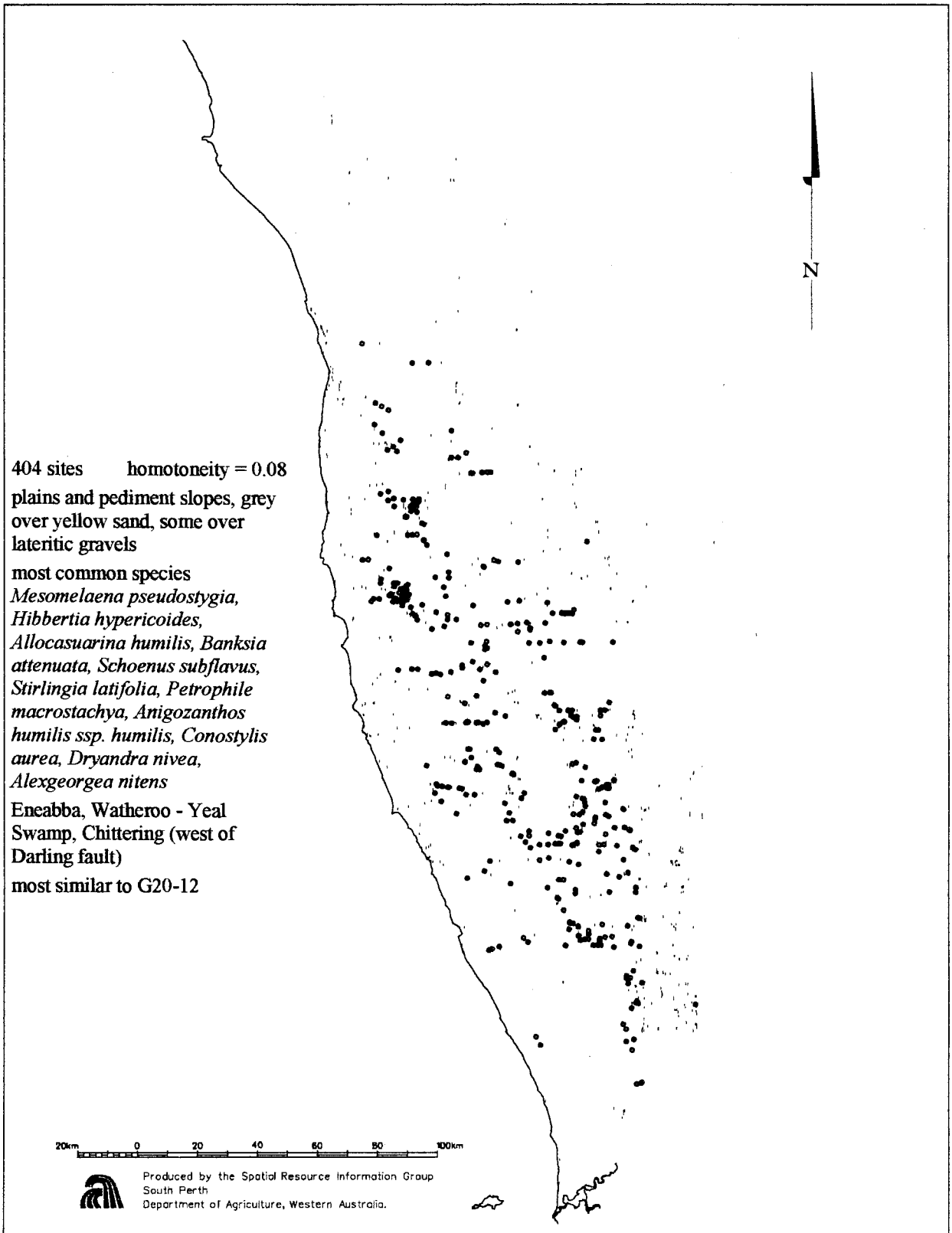


Figure 9k: Distribution of the 20 Floristic Groups
Group 20-11

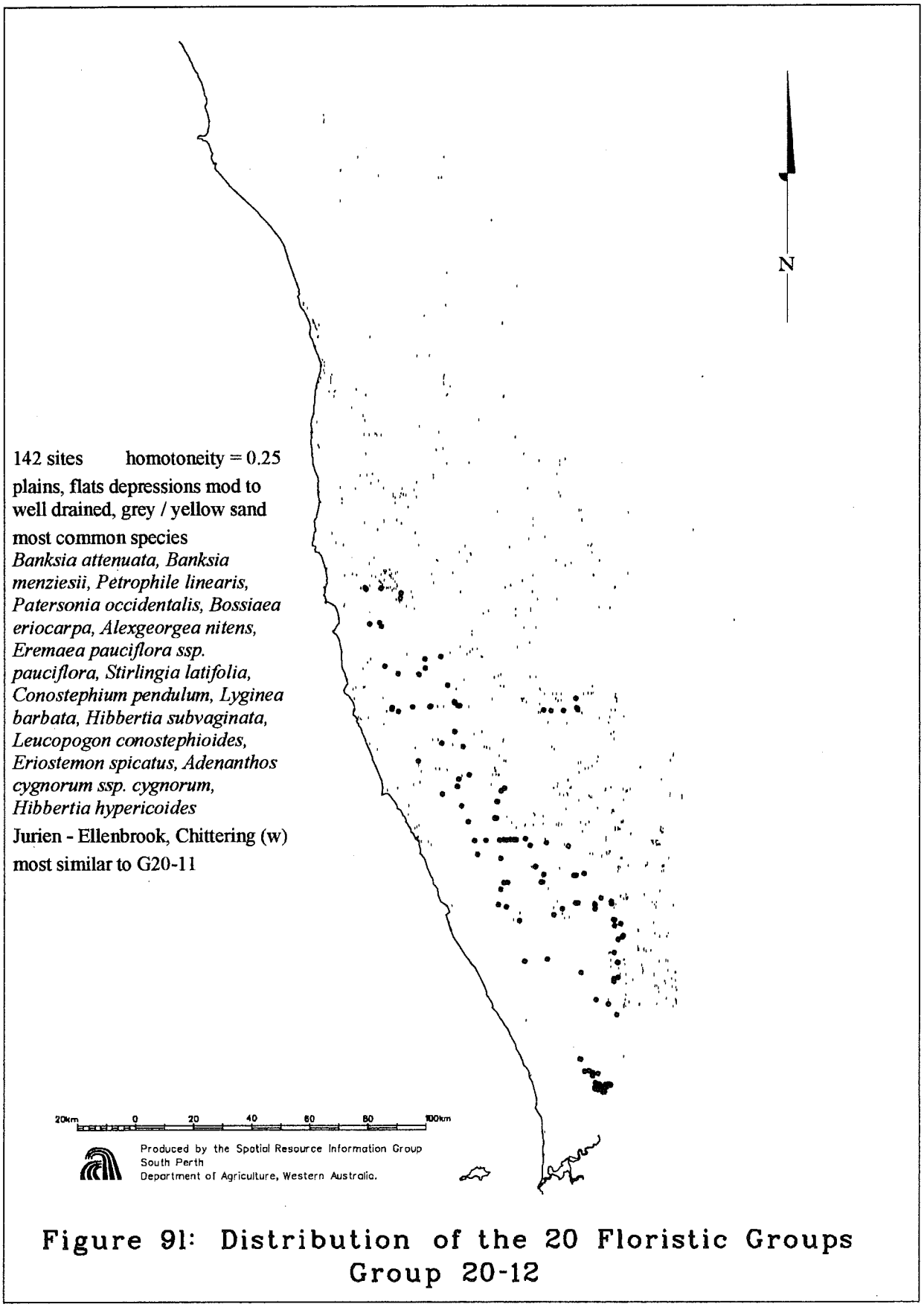


Figure 91: Distribution of the 20 Floristic Groups
Group 20-12

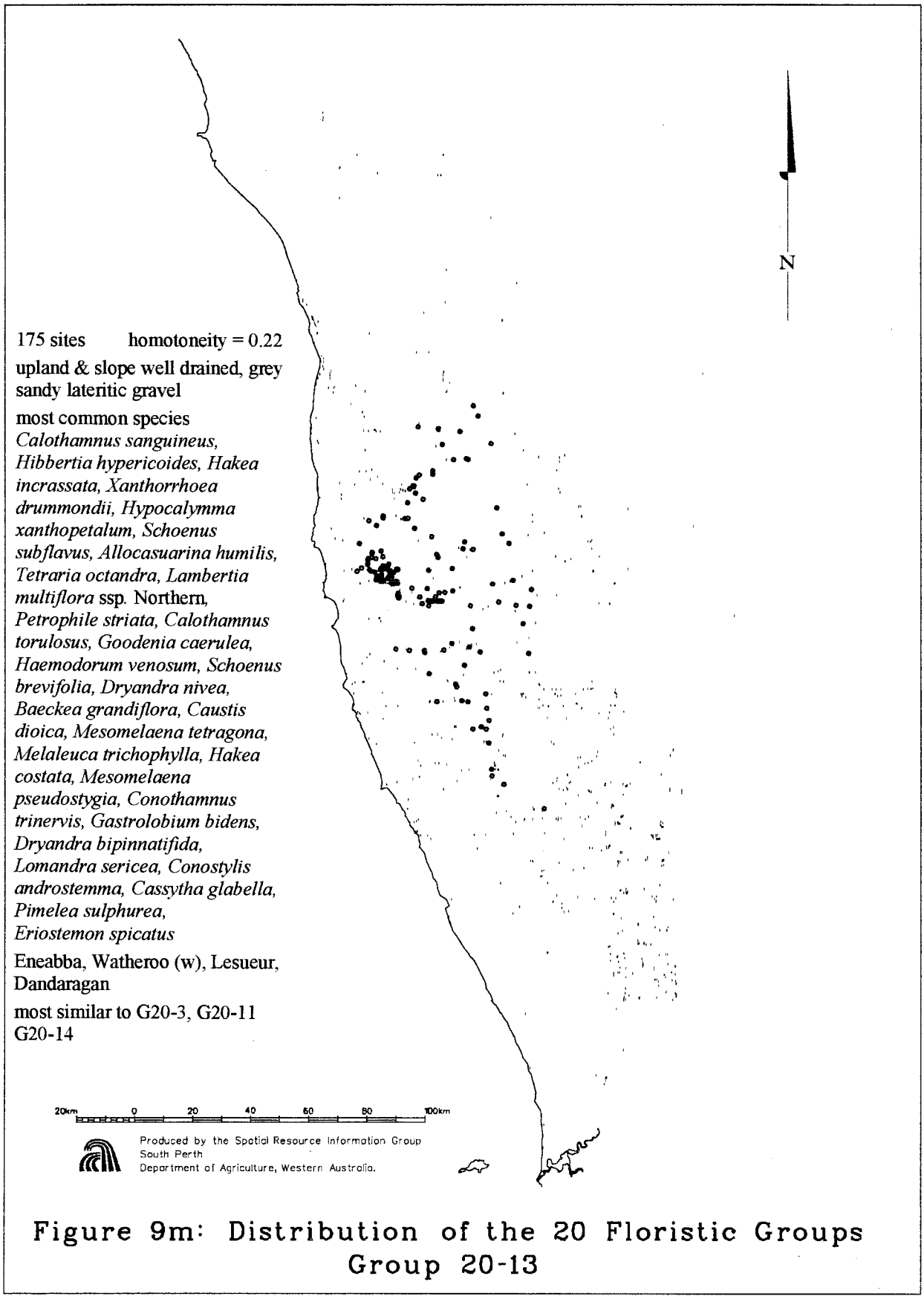


Figure 9m: Distribution of the 20 Floristic Groups Group 20-13

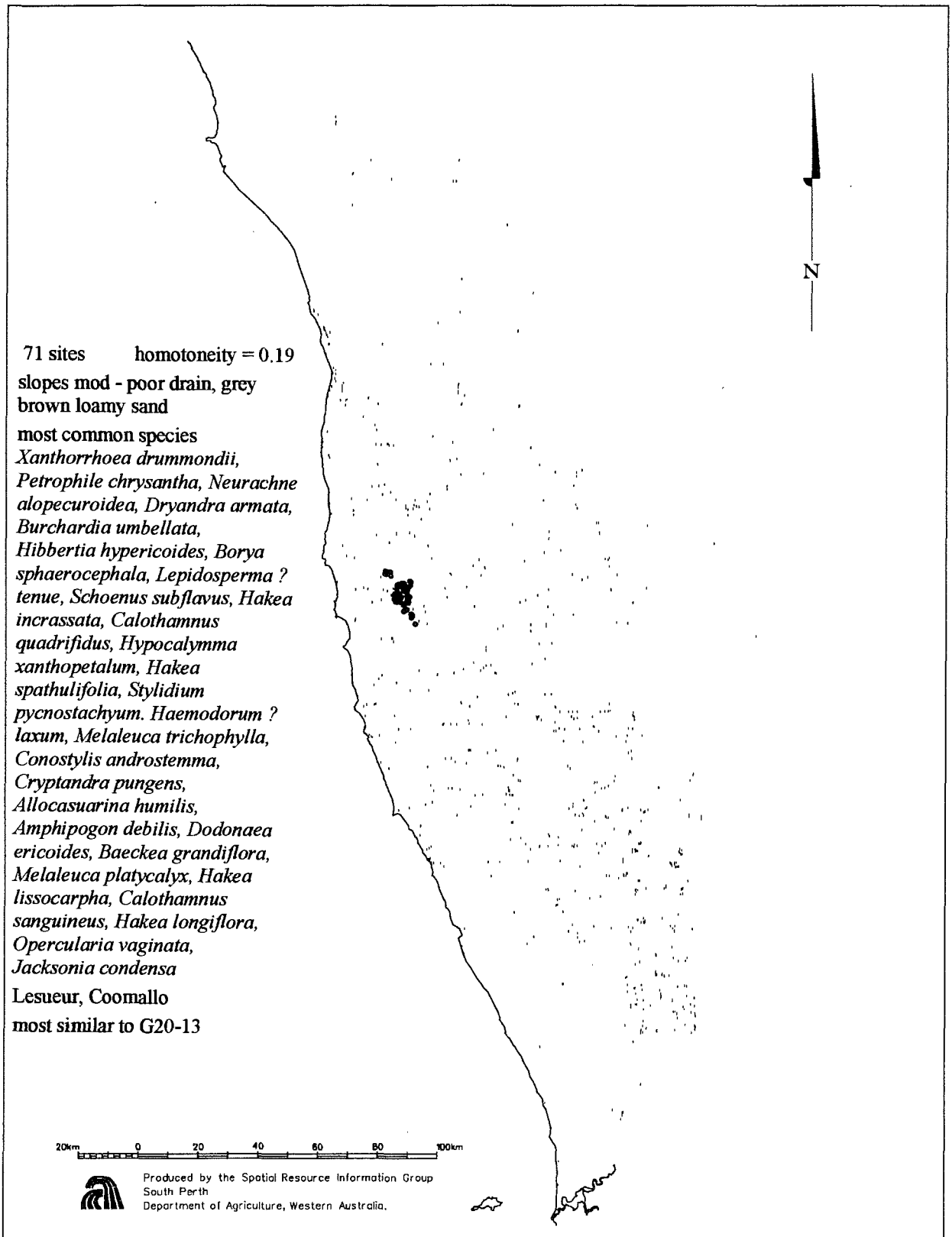


Figure 9n: Distribution of the 20 Floristic Groups
Group 20-14

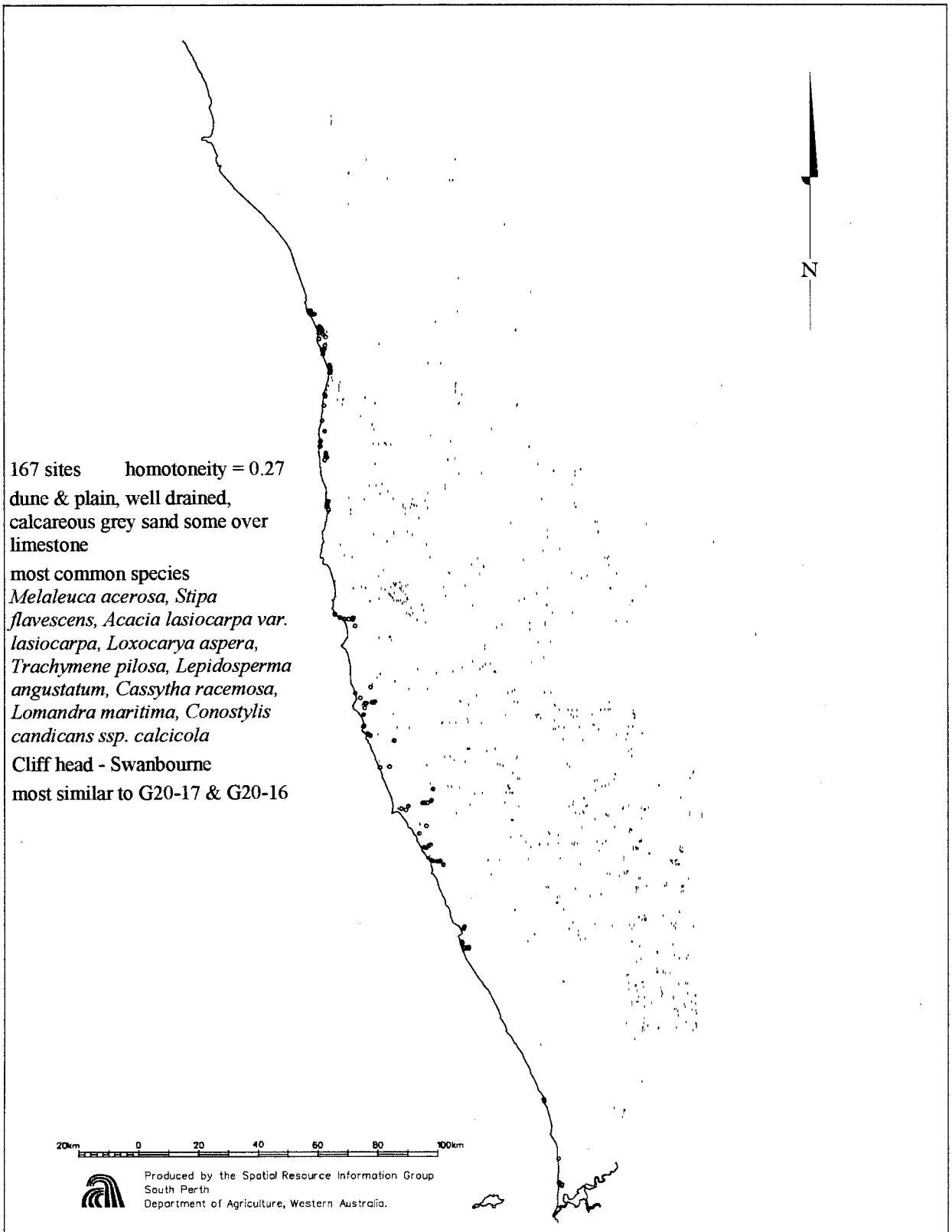


Figure 9o: Distribution of the 20 Floristic Groups
Group 20-15

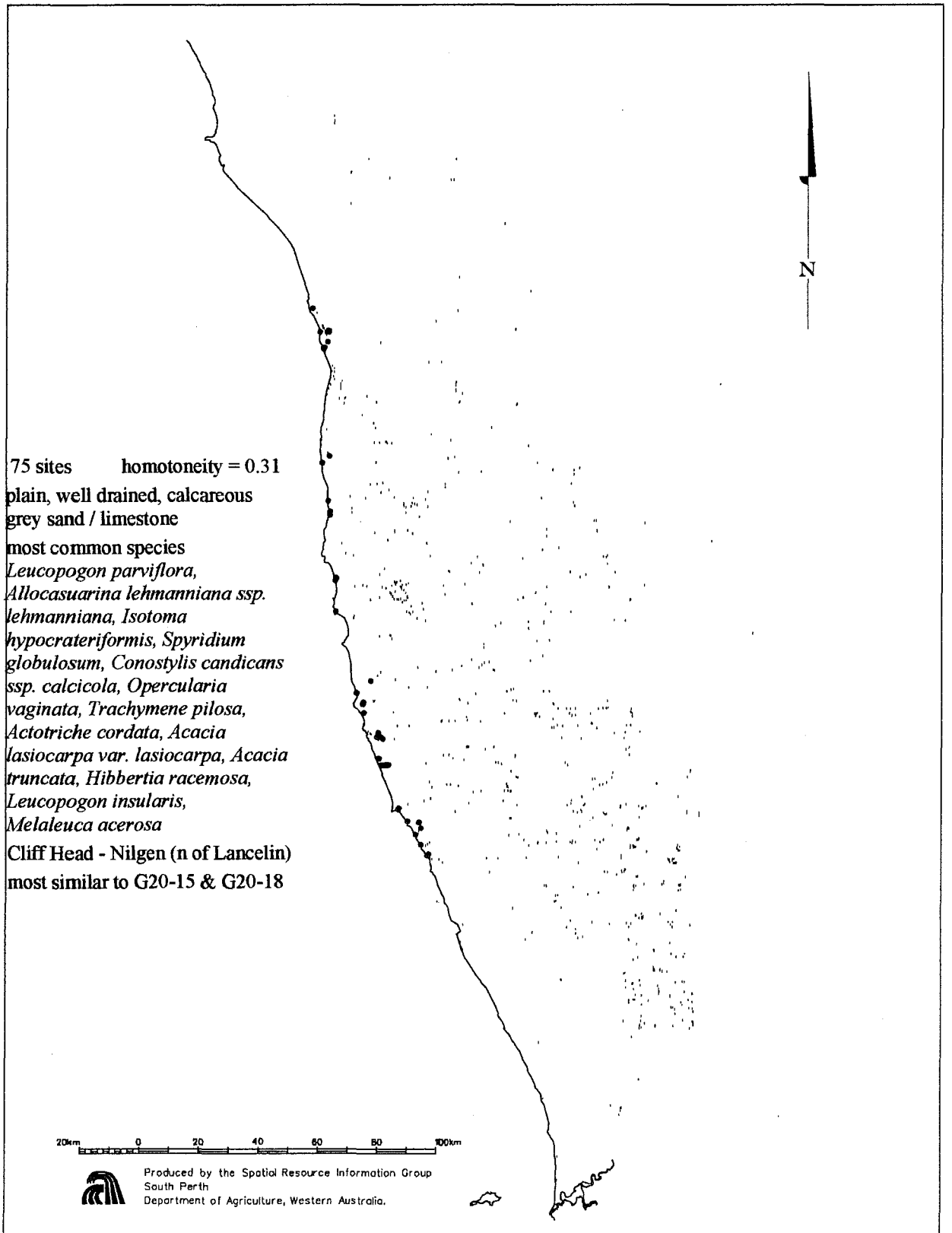


Figure 9p: Distribution of the 20 Floristic Groups
Group 20-16

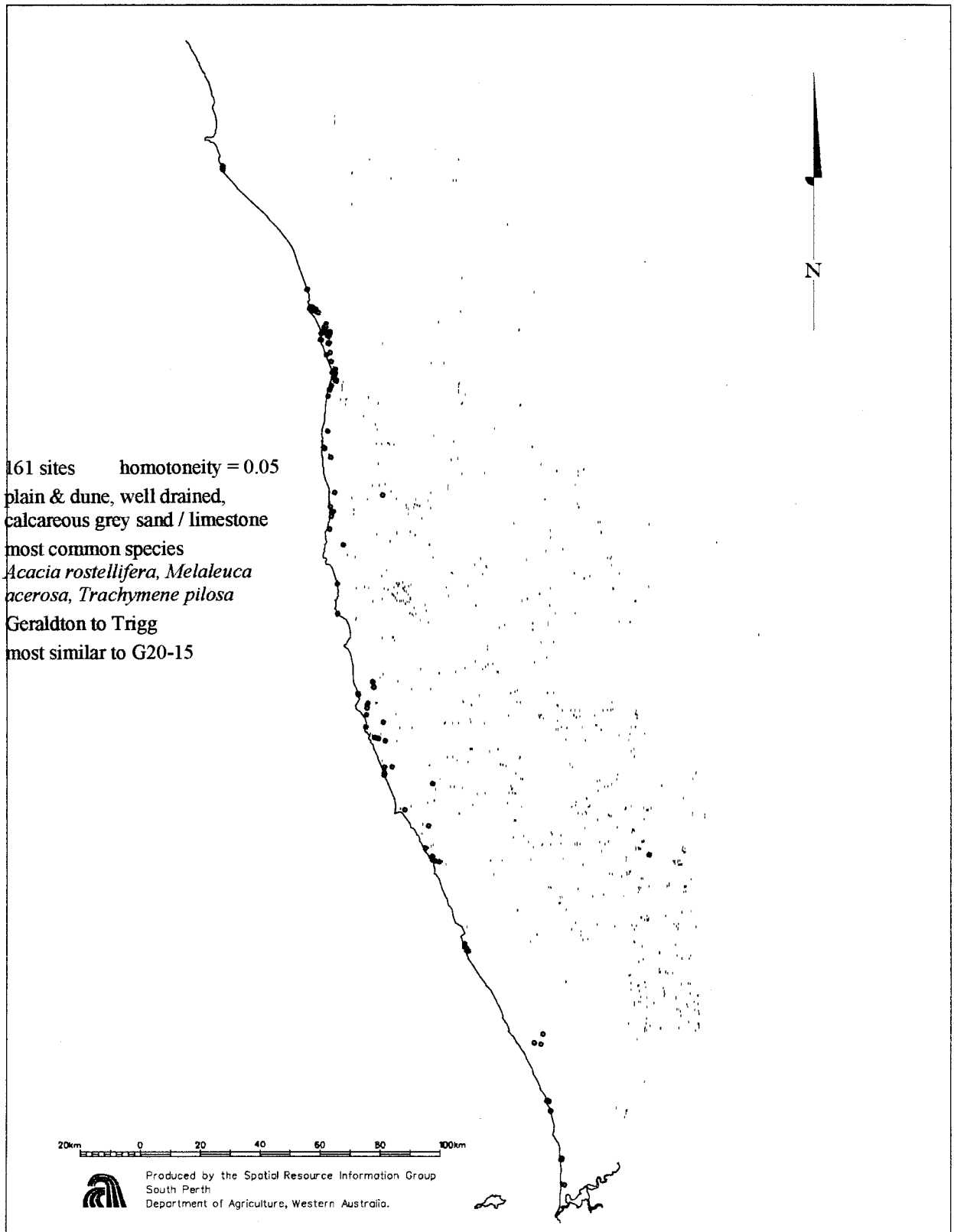


Figure 9q: Distribution of the 20 Floristic Groups
Group 20-17

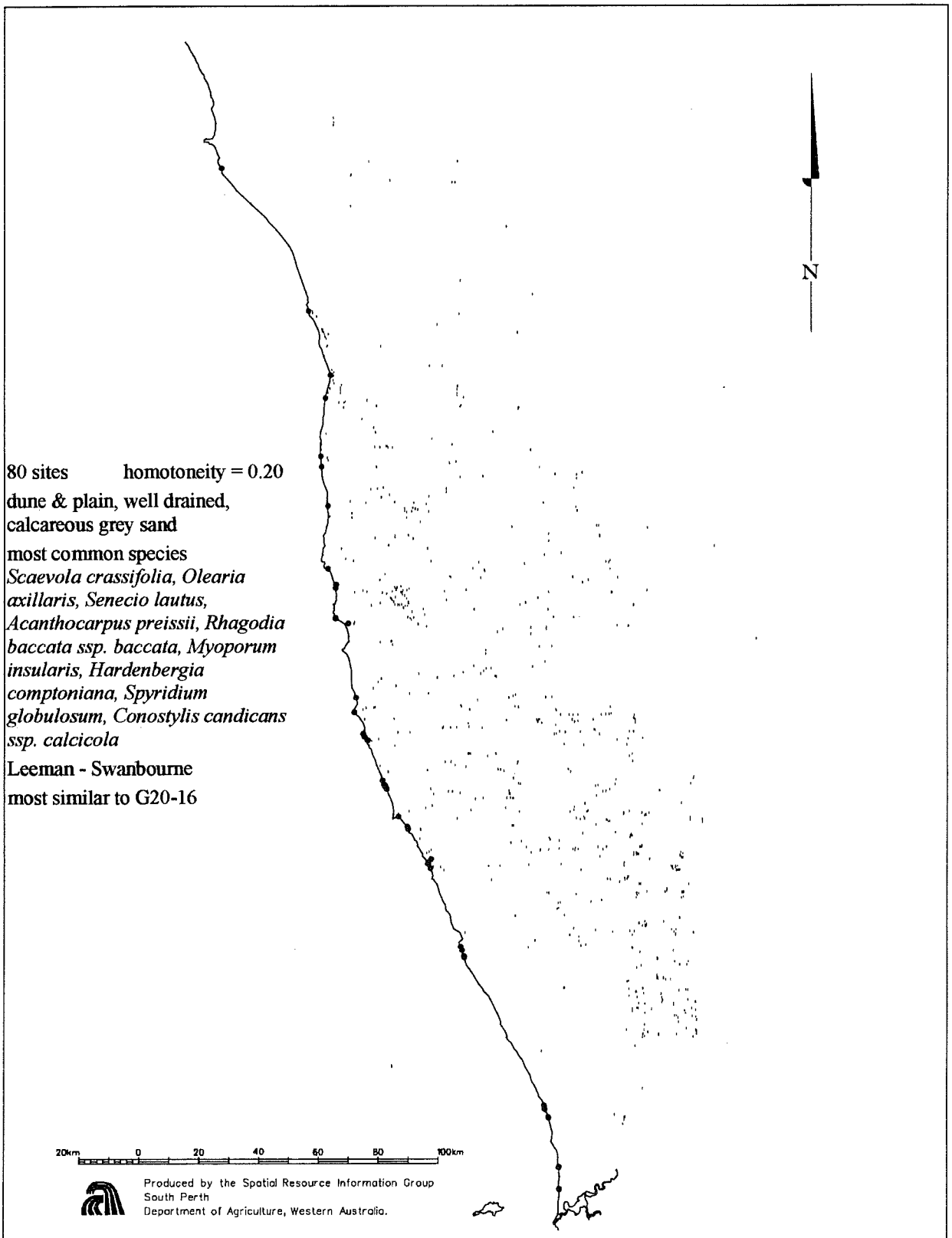


Figure 9r: Distribution of the 20 Floristic Groups
Group 20-18

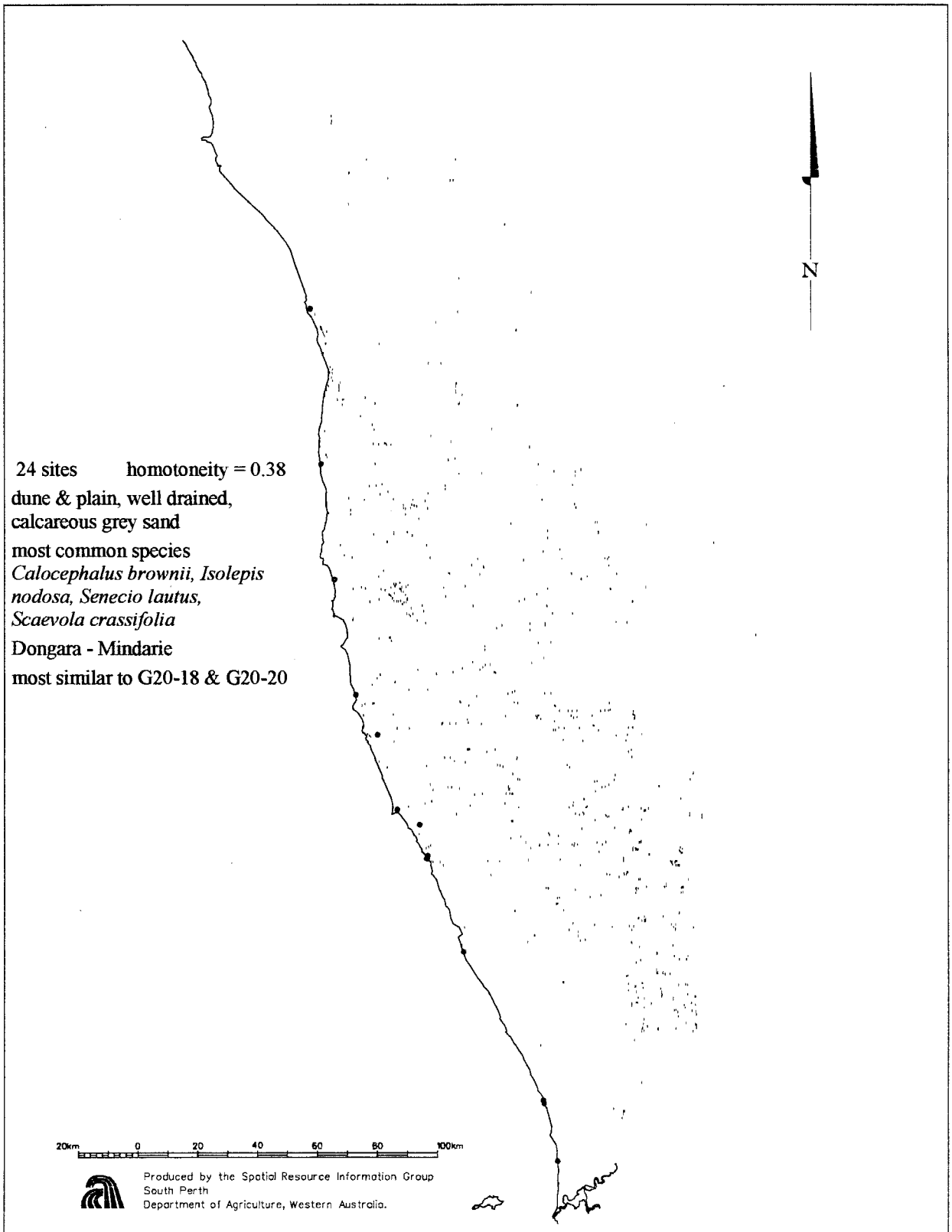


Figure 9s: Distribution of the 20 Floristic Groups
Group 20-19

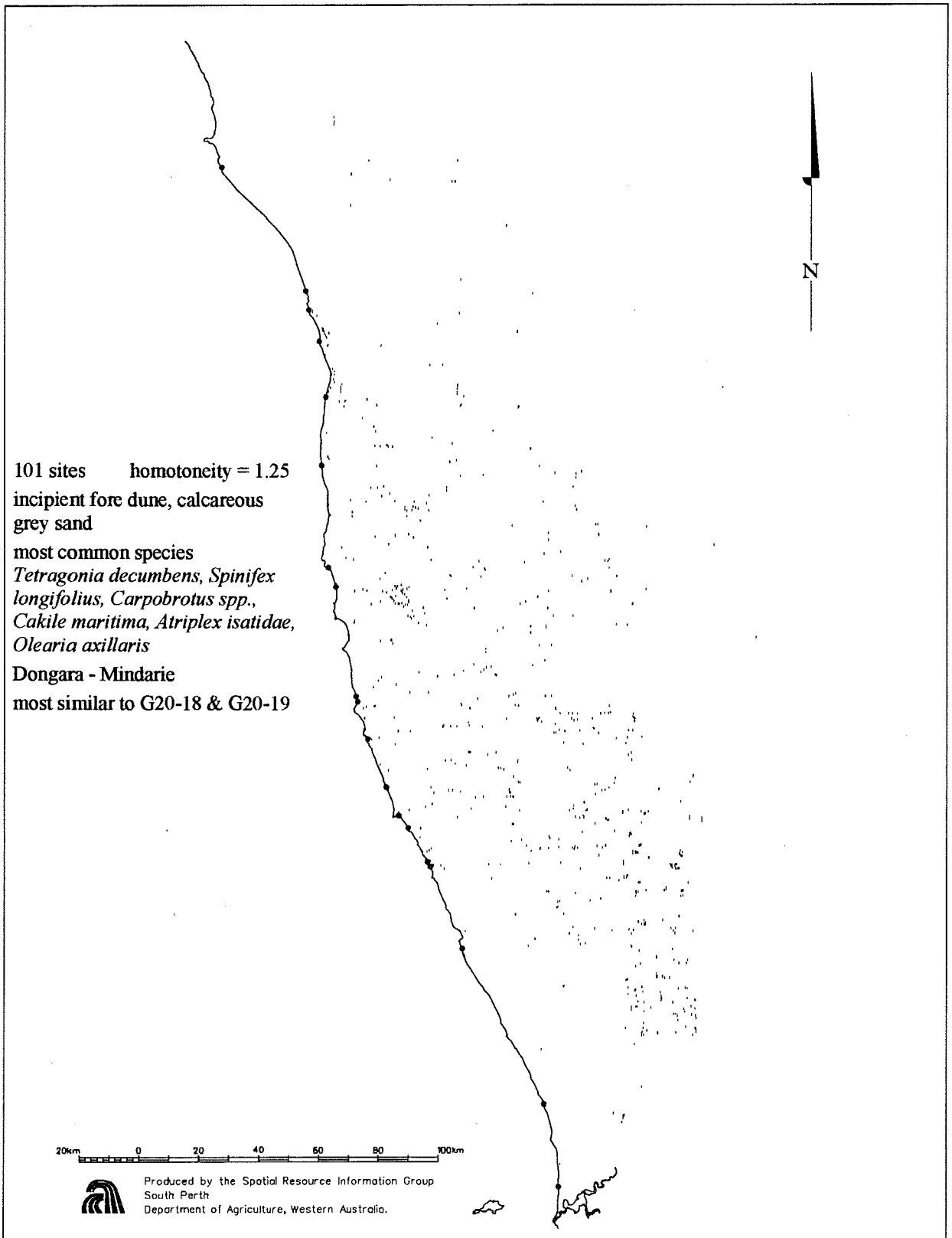


Figure 9t: Distribution of the 20 Floristic Groups
Group 20-20

A general summary of the most obvious combinations were:

coastal Holocene calcareous sands (groups 15-20,

Spearwood soil sites (group 10),

wetland sites (groups 7 and 8),

sandy sites (groups 11 and 12),

laterite sites from Dandaragan - Eneabba (groups 13 and 14),

laterite sites from Wannamal - Bullsbrook (group 9), and

heavy and gravel soils from New Norcia - Bindoon (groups 5 and 6).

A summary of the landforms, most common plant species and distribution of each of the 20 groups is presented on the respective plots. Appendix 10 is more comprehensive being a description of the 500 groups.

The occurrence of species in groups would be displayed better in a site by species table than the lists in Figure 9. Presenting such for the about 2522 sites by 1812 species is far beyond this report. A summarised table, however, was prepared. This has combined the sites into 100 groups and only those species which occurred in at least 20% of the sites in at least one of these 100 groups. The species were manually sorted in the form of a phytosociological table in an attempt to identify species differential to respective groups, especially the group 20 groups (Appendix 11).

Several aspects of these data are quite clear. Firstly, few species were consistently present in any of the 20 groups. This reflected the low homotoneity measures indicated in Tables 2 and 3. In contrast, many more of the species were common in one of the 100 groups. Secondly, a majority of species were faithful to one (or just a few related) 100 groups. This indicates that there is a good basis for distinguishing at least 100 vegetation types. Thirdly, very few species were present consistently in more than a few of the 20 groups. This emphasises the great diversity of the vegetation in the area. Finally, the species in common between several of the 20 groups reflect the similarity between groups indicated in the dendrogram (Figure 7) and the minimum spanning tree (Figure 8).

Regional Patterns

The type of regional patterns which it was hoped to elucidate are ones which are consistent for a range of perhaps unrelated vegetation types. This is analogous with the catena approach used in the mapping of Beard (e.g. 1976a). However, the difference in importance which landform, soil, regional and other factors have on the composition of vegetation groups based on the numerical classification techniques makes it difficult to detect such patterns. At the high levels of fusion (i.e. the 20 group level) regional patterns in vegetation composition are usually only obvious when major landforms or soil types have a strong regional pattern. In this study, groups 15 to 20 were particularly obvious in this regard as they were confined to the coastal Holocene dunes and plains.

Other patterns were less obvious but would be still quite detectable if enough time is spent evaluating the distribution of groups from finer divisions. Appendix 12 is an attempt to demonstrate that there are combinations of floristic groups which have similar distribution patterns. This approach has been used previously (Griffin and Keighery 1989, Griffin 1990, 1992, and 1993) to reasonable effect.

Figure 10 is a series of plots of the distribution of the combinations of floristic groups from Appendix 12. This shows that there were a number patterns often with and more or less consistent boundaries. It was the elucidation of this type of boundary which justified including the data from beyond the focus of this study (e.g. that from the New Norcia - Bindoon area).

A certain amount of common features were noted in these patterns. Figure 11 is an attempt to summarise these. Some patterns and boundaries were more distinct than were others. The preliminary nature of this analysis should not be forgotten. More careful examination of this data in this way will probably recognise clearer patterns. However, a limited amount of interpretation is possible.

The principal patterns so identified were essentially major geological or geomorphic units. The coastal dunes (Quindalup Dunes or Safety Bay Sands) were a very distinct geographically based floristic unit. The Spearwood dunes were less floristically distinct but also formed a discrete regional unit. Other patterns were not quite so strong but can generally be related to other geological or physiographic patterns.

These included two patterns on the coastal plain (approximately north and south of the Moore River), a series of overlapping patterns on the Arrowsmith Region including one centred on the Lesueur area, another series on the southern Dandaragan plateau, patterns bridging the Victoria and Dandaragan plateaux, and patterns in the Yarra Yarra region.

The Darling fault appears to be a strong boundary, but not consistently so. South of Moora the fault marks sharp changes in composition. However, in other portions it is not quite so clear, i.e. in the Coorow - Watheroo area and in the Bindoon - Bullsbrook area.

The Gingin scarp, the boundary between the coastal plain and the plateau landforms, is also a floristic boundary but was not as distinct a boundary as were parts of the Darling fault. The Dandaragan Scarp which separates the Arrowsmith Region from the Dandaragan Plateau is a boundary for some patterns (e.g. east boundary of set 5, Figure 10d).

The other patterns appeared to be unrelated to physiographic units in current usage.

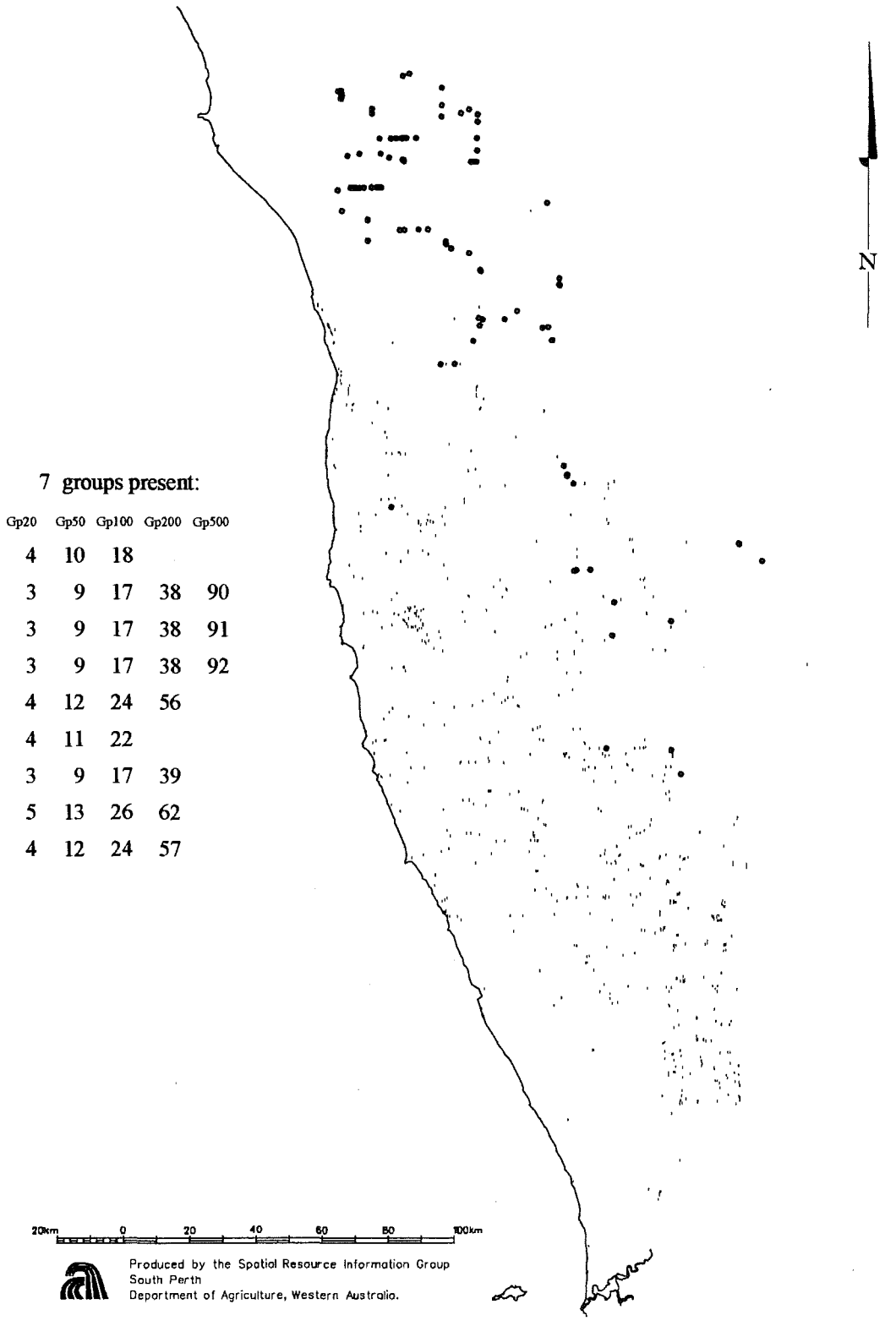


Figure 10a: Distribution of Floristic Groups with similar Geographic Patterns: Set 1

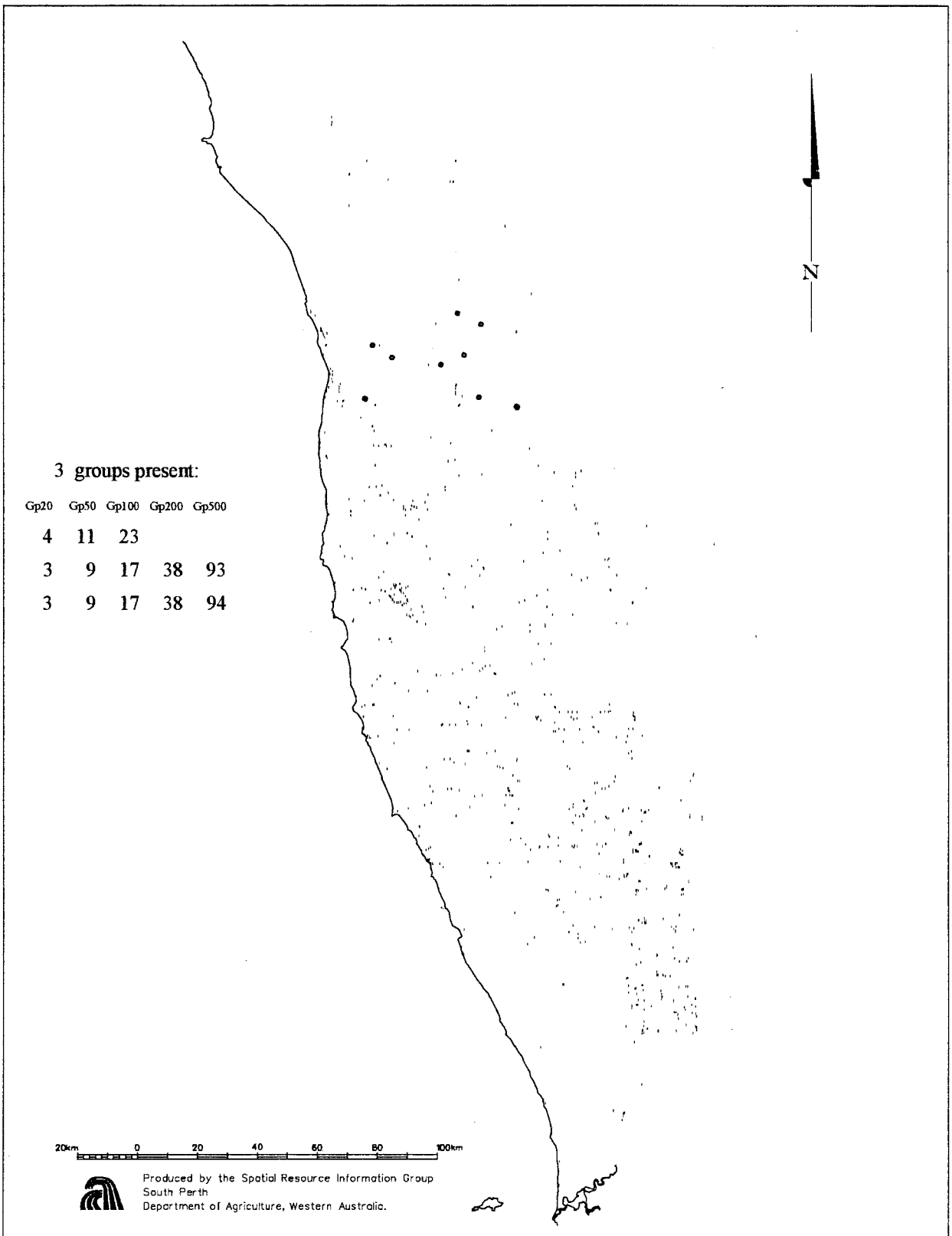


Figure 10b: Distribution of Floristic Groups with similar Geographic Patterns: Set 2

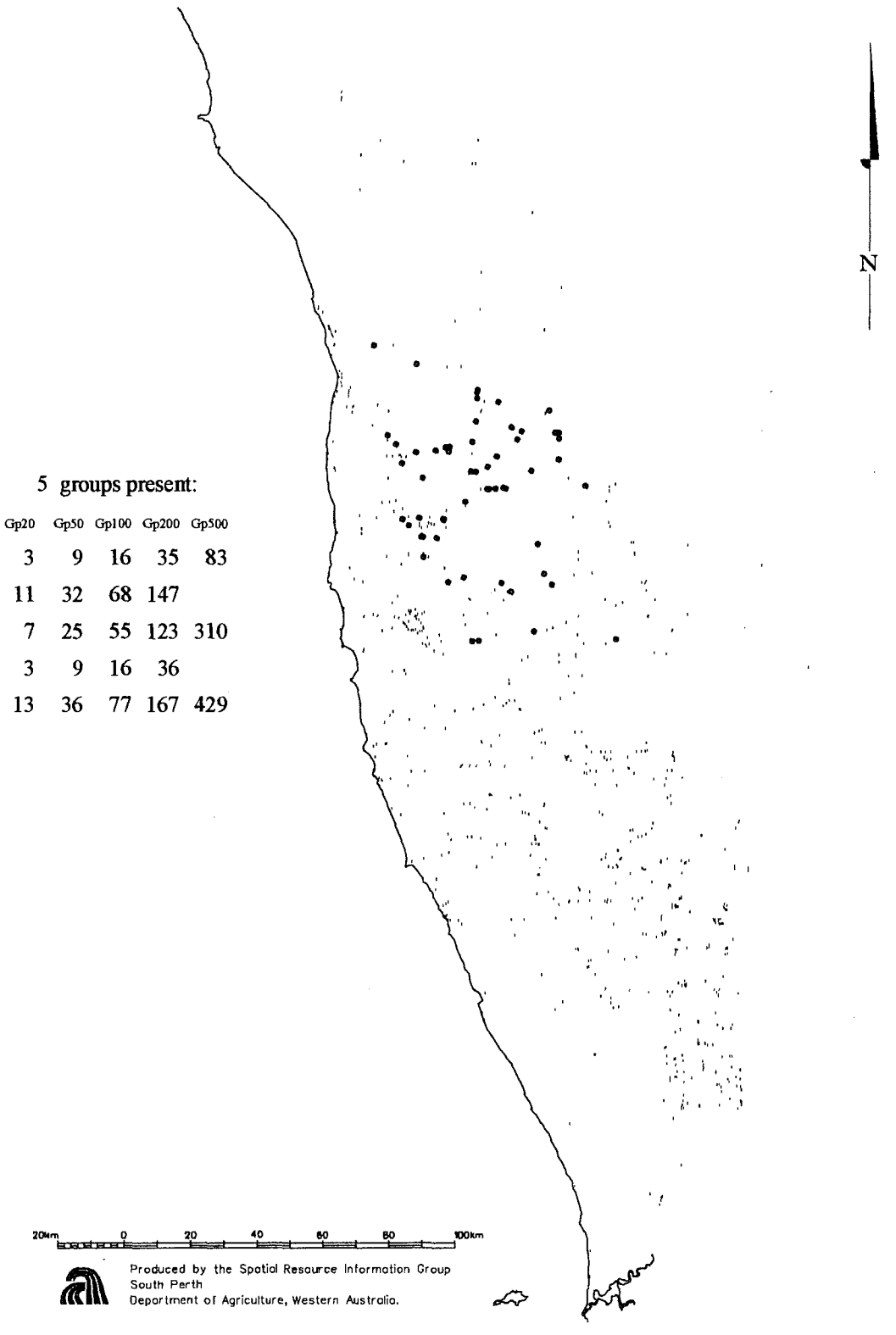


Figure 10c: Distribution of Floristic Groups with similar Geographic Patterns: Set 3

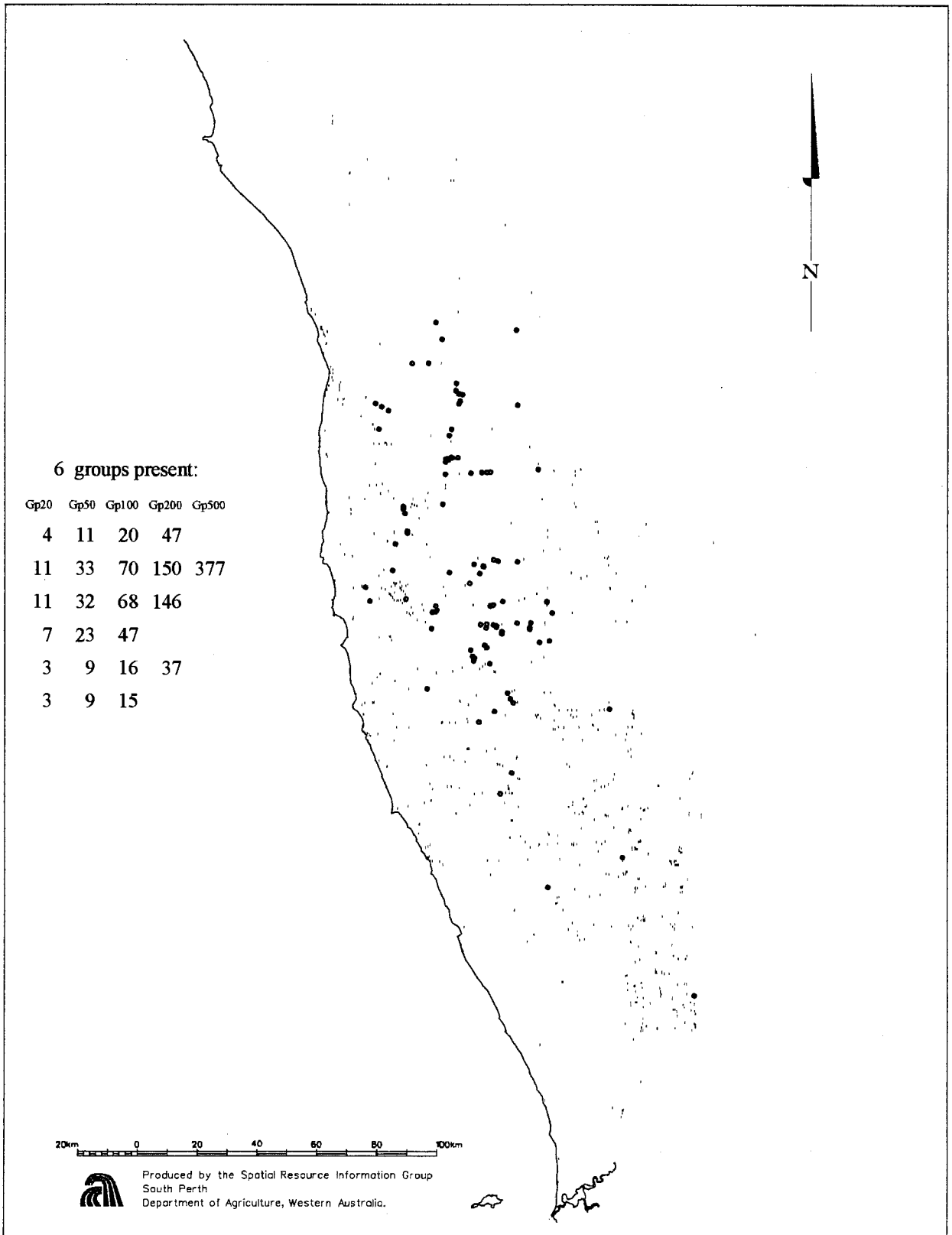


Figure 10d: Distribution of Floristic Groups with similar Geographic Patterns: Set 4

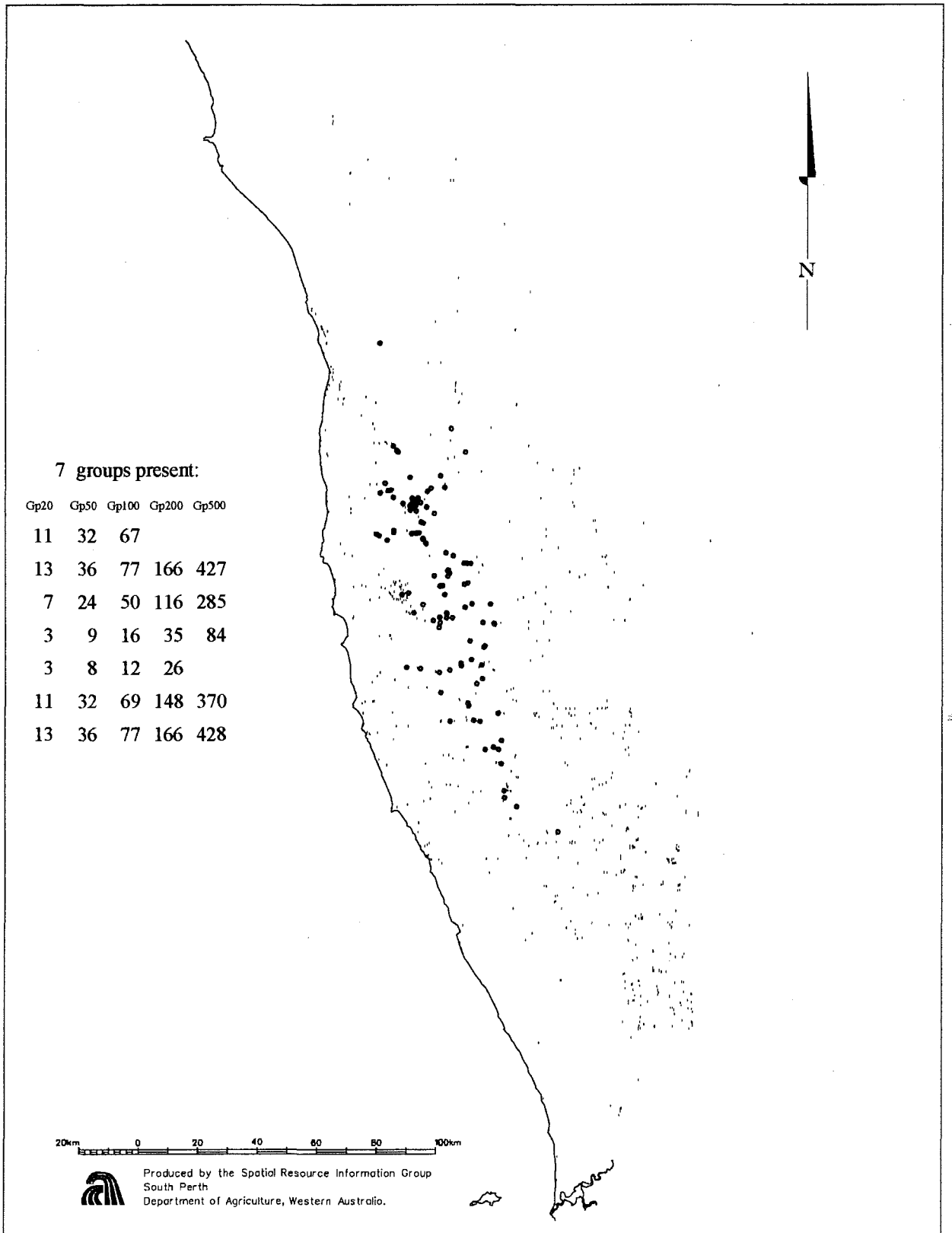


Figure 10e: Distribution of Floristic Groups with similar Geographic Patterns: Set 5

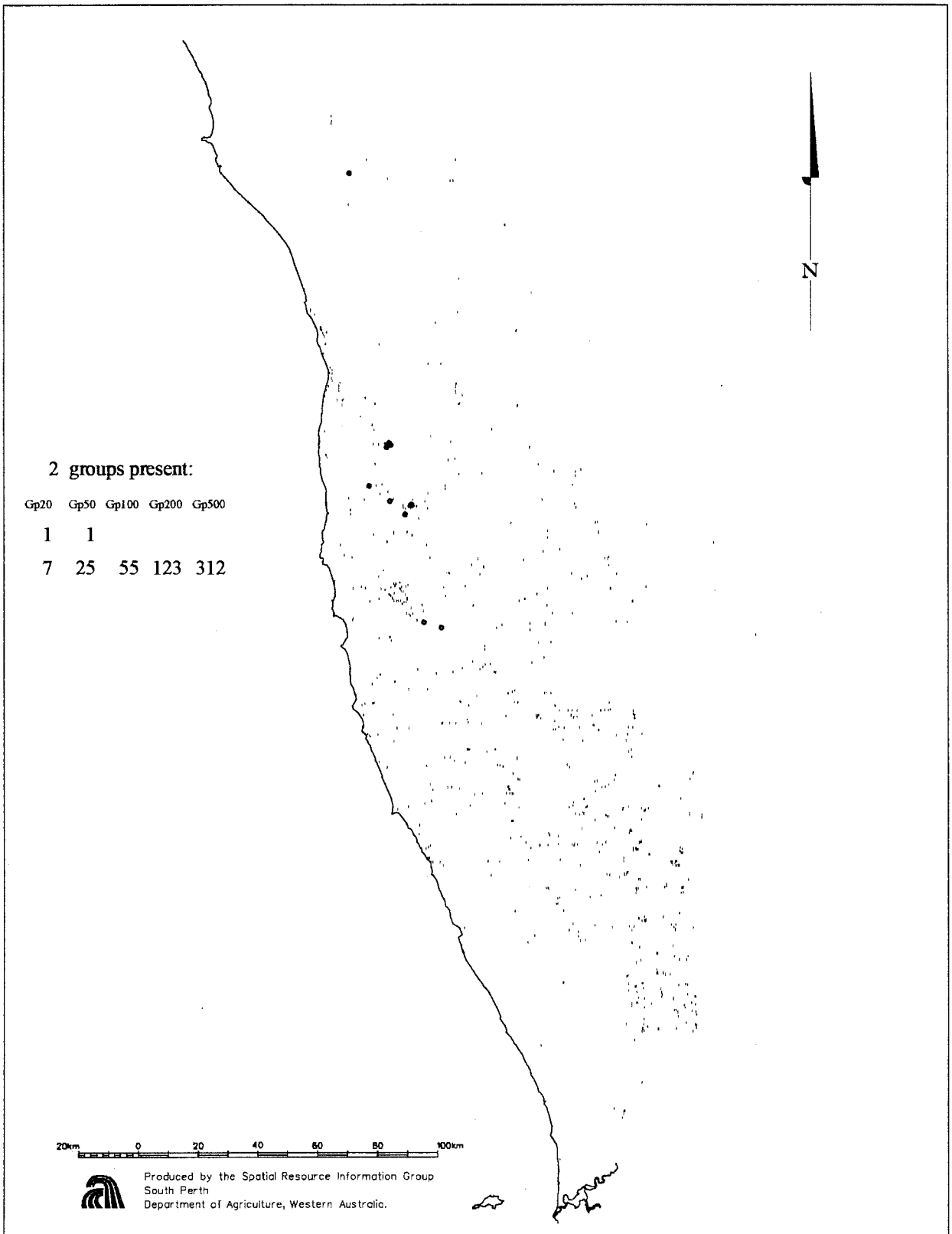


Figure 10f: Distribution of Floristic Groups with similar Geographic Patterns: Set 6

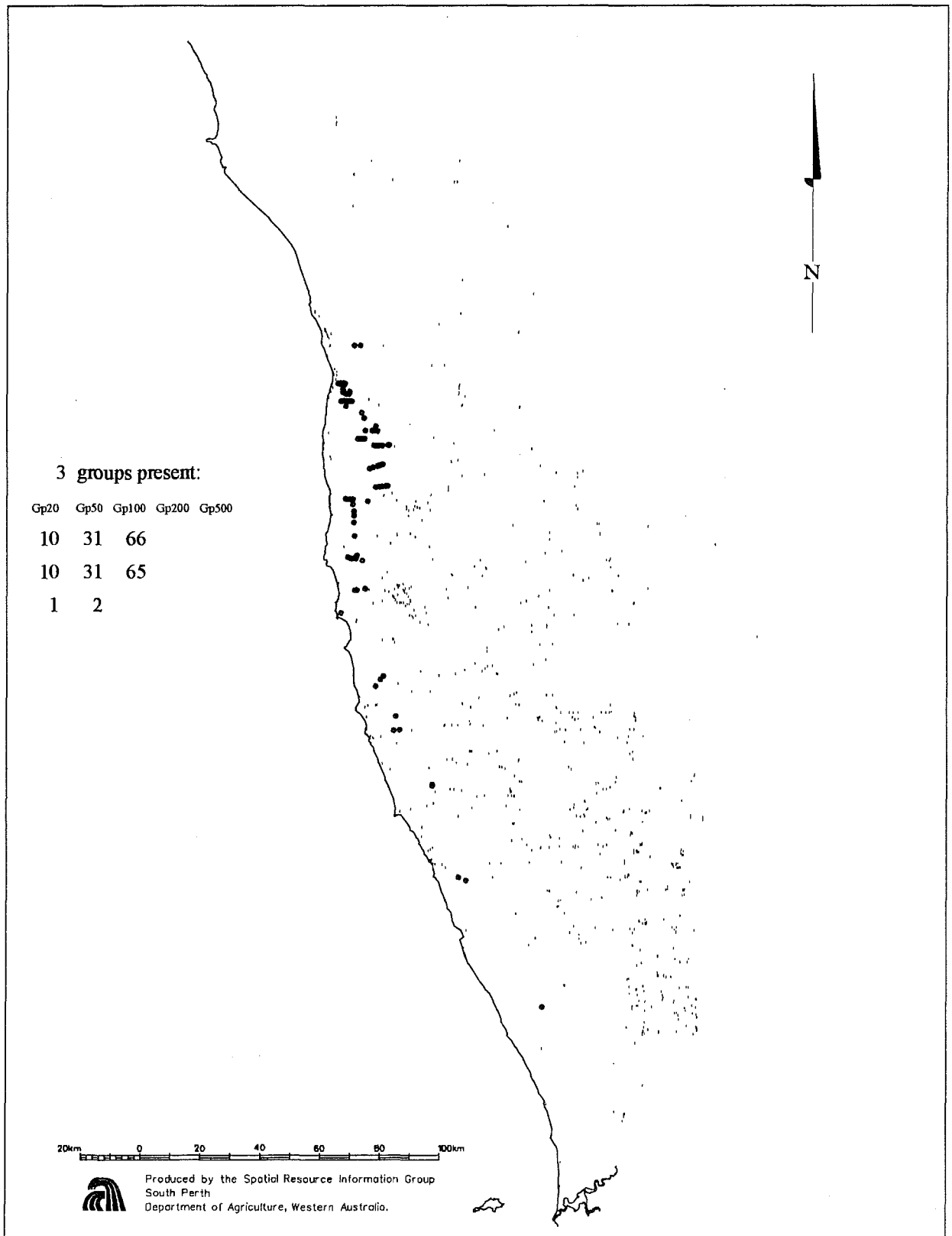


Figure 10g: Distribution of Floristic Groups with similar Geographic Patterns: Set 7

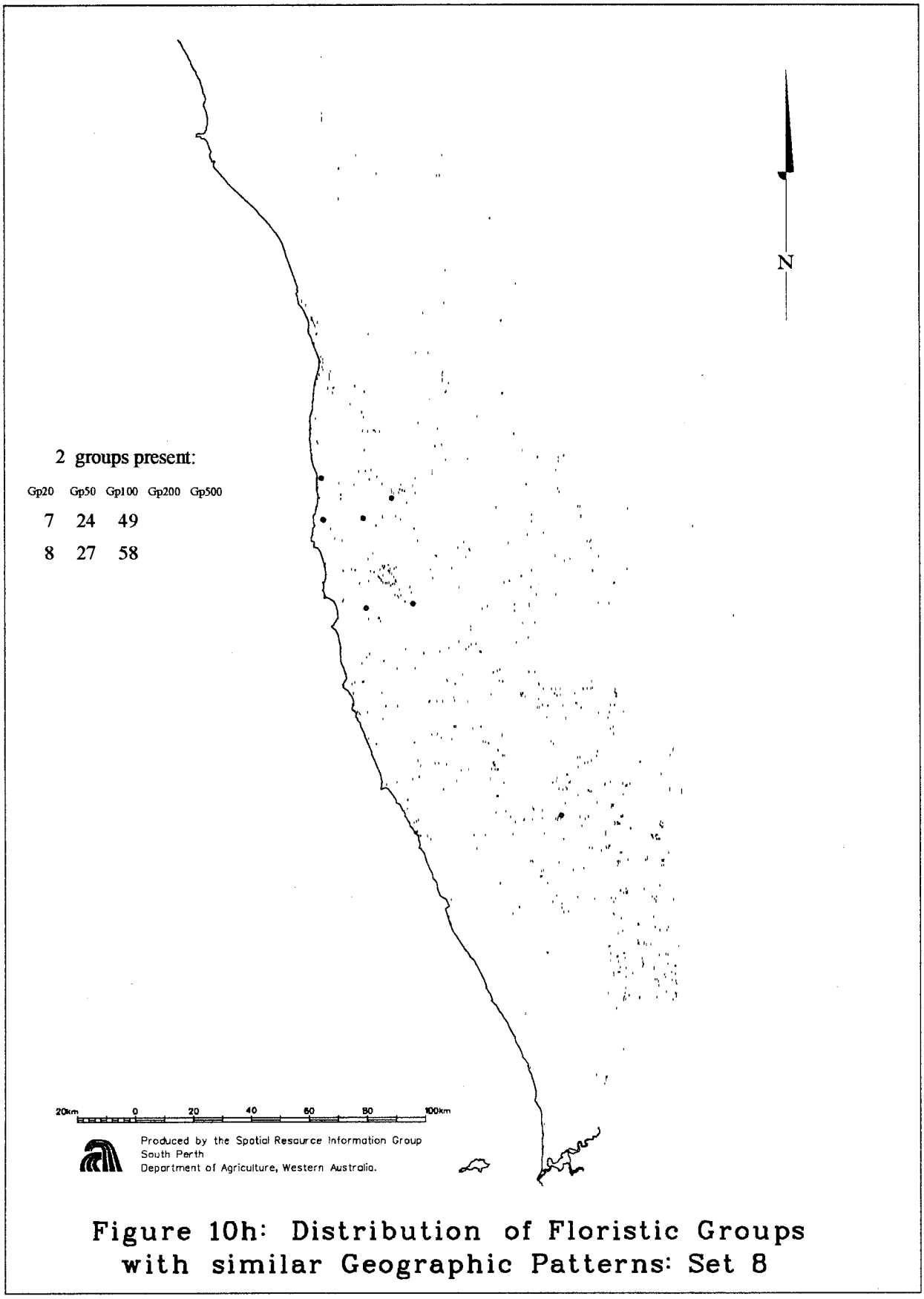


Figure 10h: Distribution of Floristic Groups with similar Geographic Patterns: Set 8

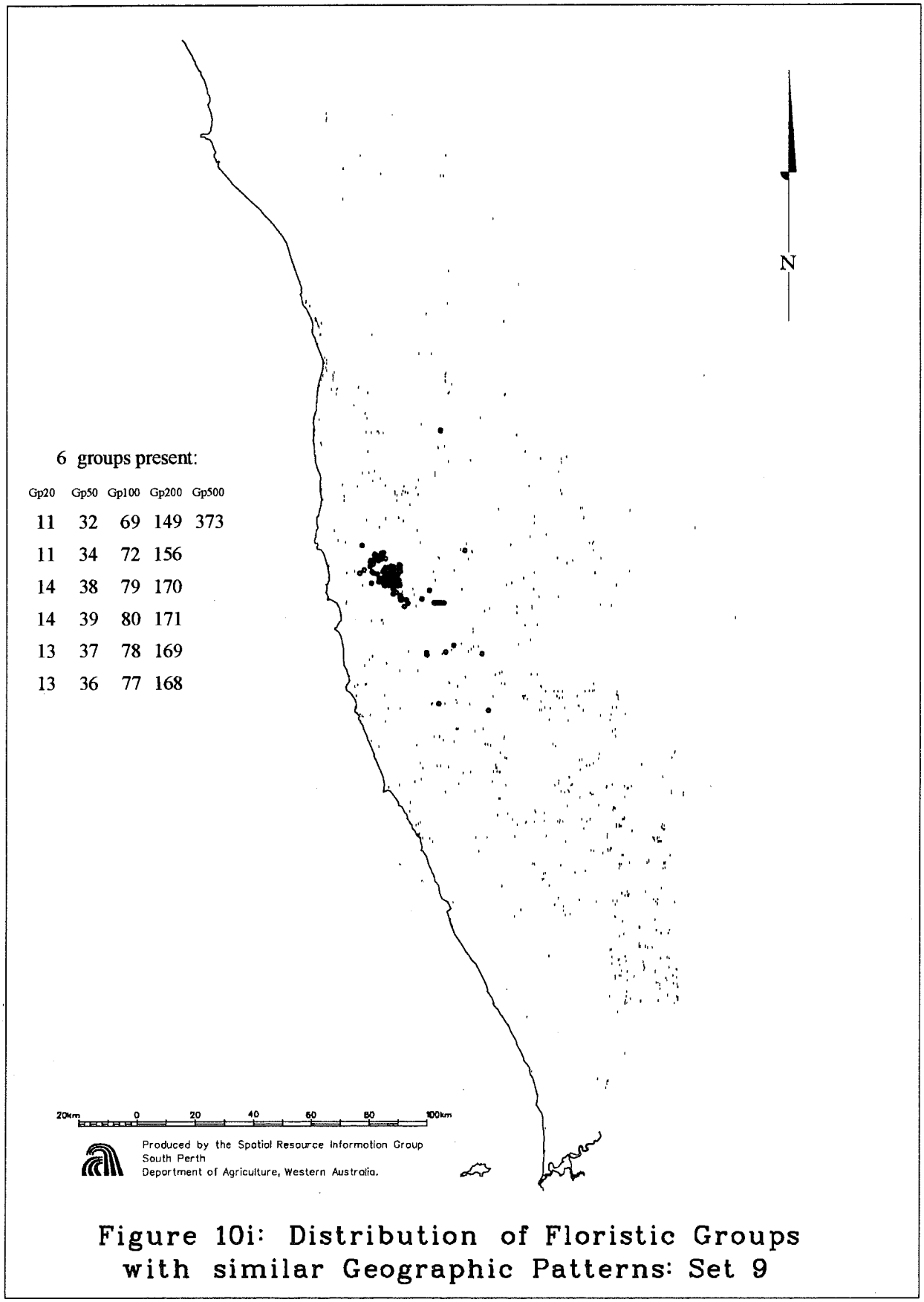


Figure 10i: Distribution of Floristic Groups with similar Geographic Patterns: Set 9

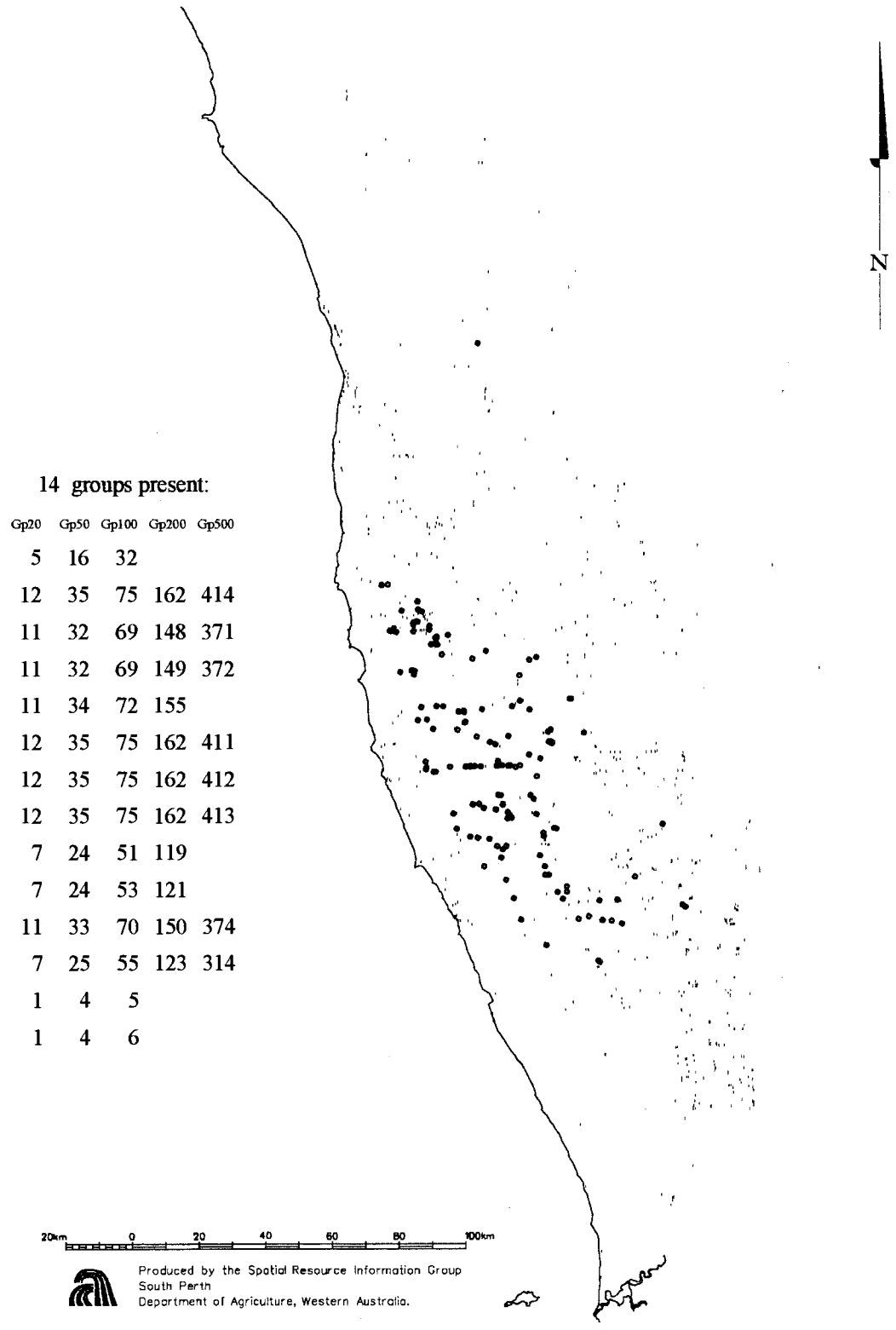


Figure 10j: Distribution of Floristic Groups with similar Geographic Patterns: Set 10

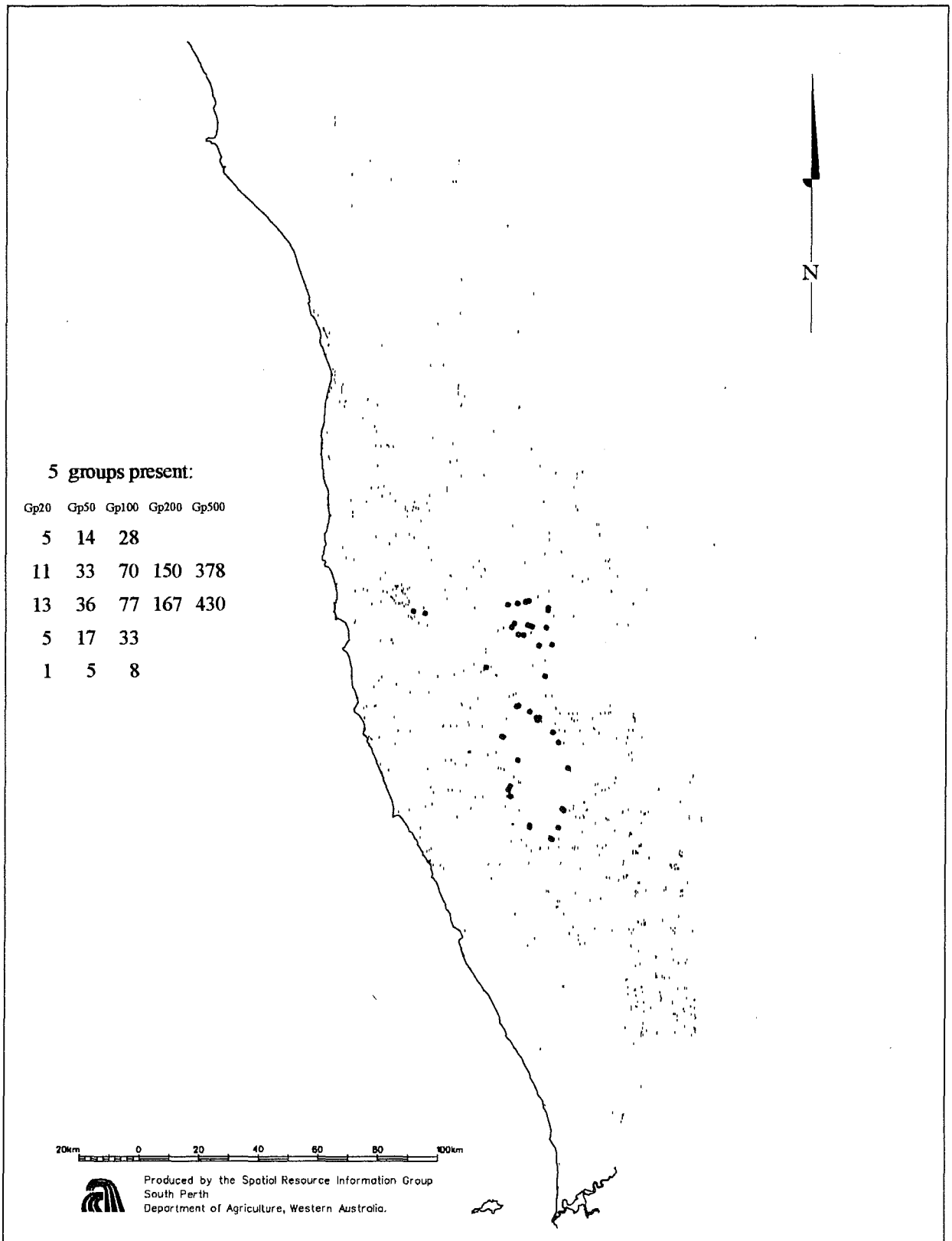


Figure 10k: Distribution of Floristic Groups with similar Geographic Patterns: Set 11

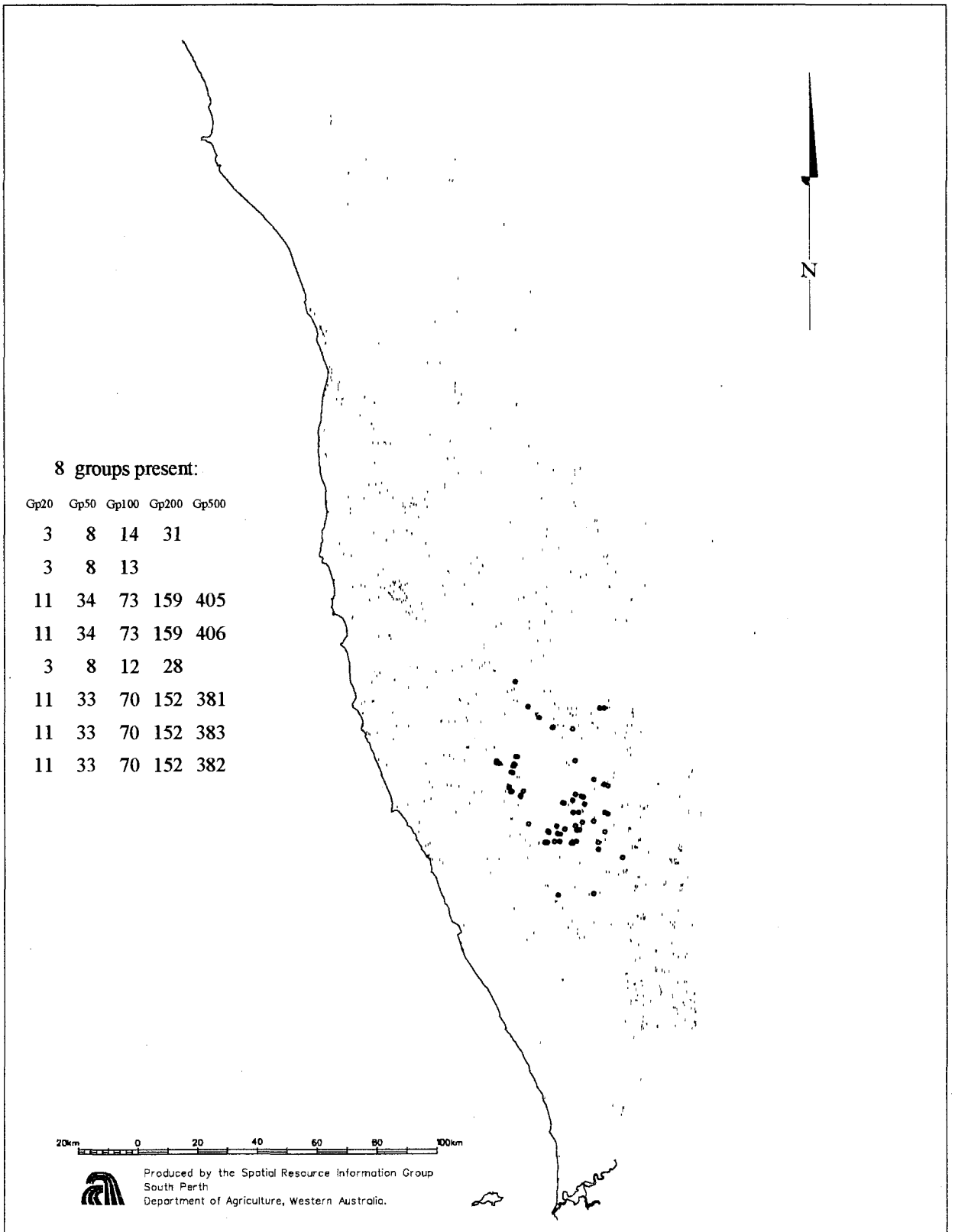


Figure 101: Distribution of Floristic Groups with similar Geographic Patterns: Set 12

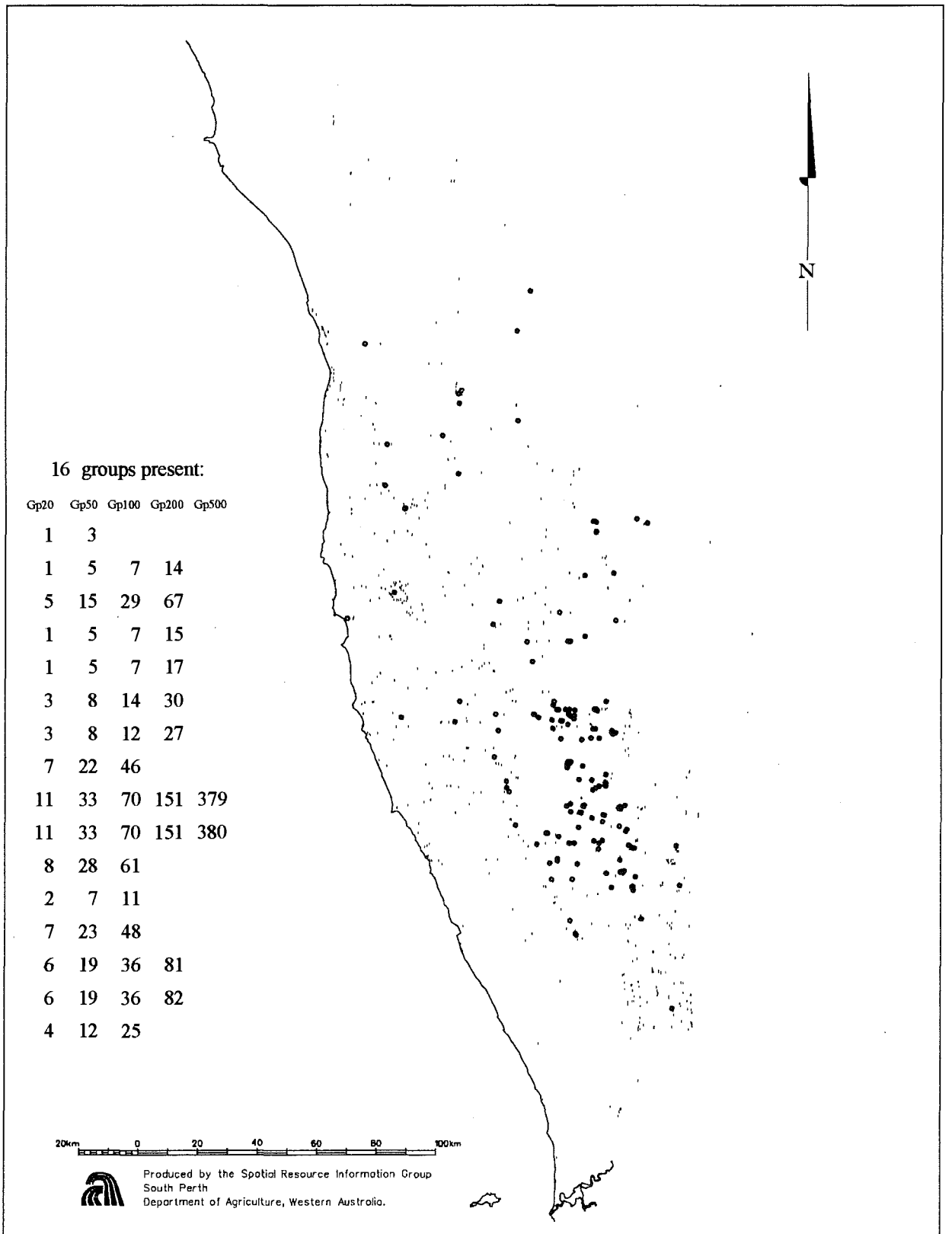


Figure 10m: Distribution of Floristic Groups with similar Geographic Patterns: Set 13

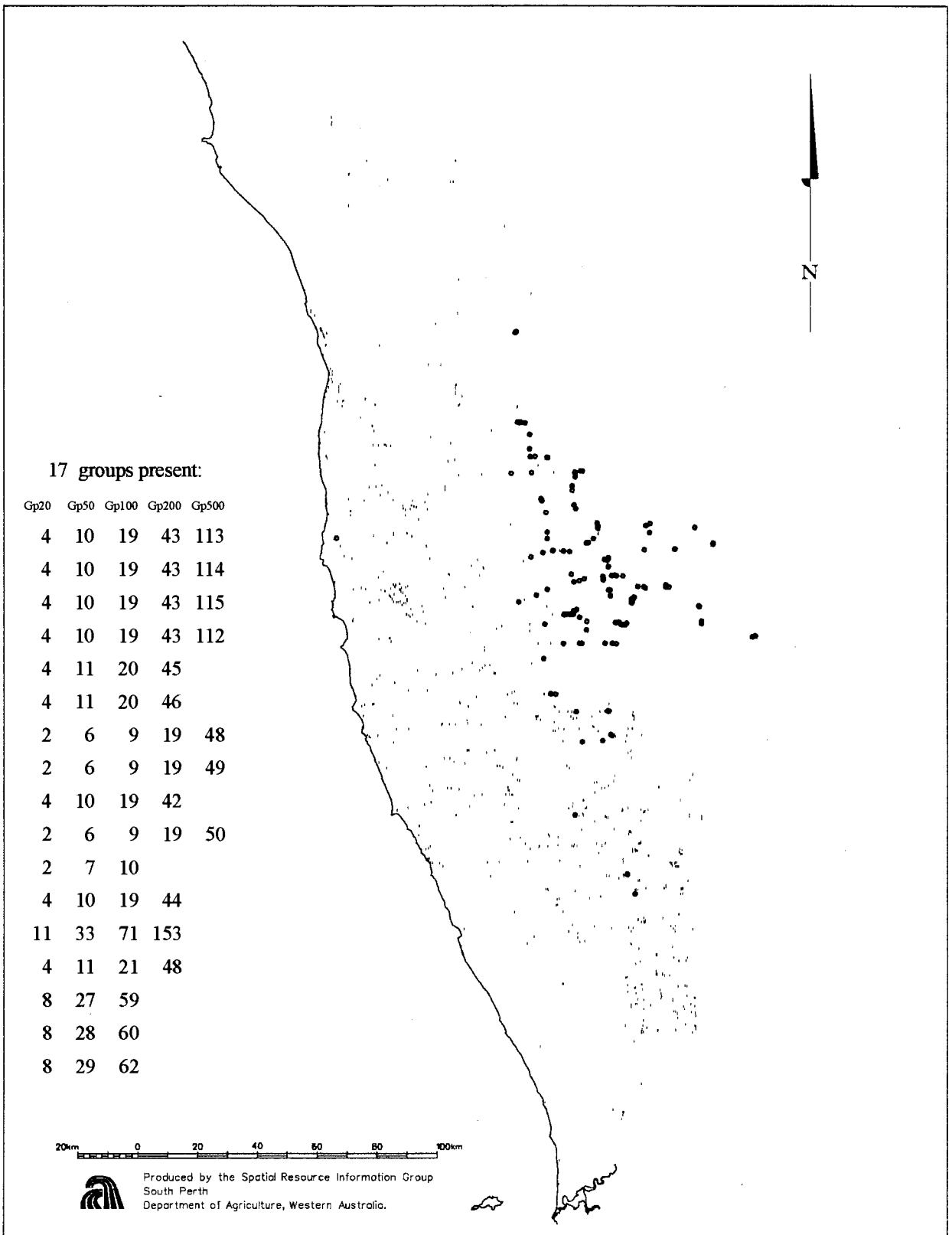


Figure 10n: Distribution of Floristic Groups with similar Geographic Patterns: Set 14

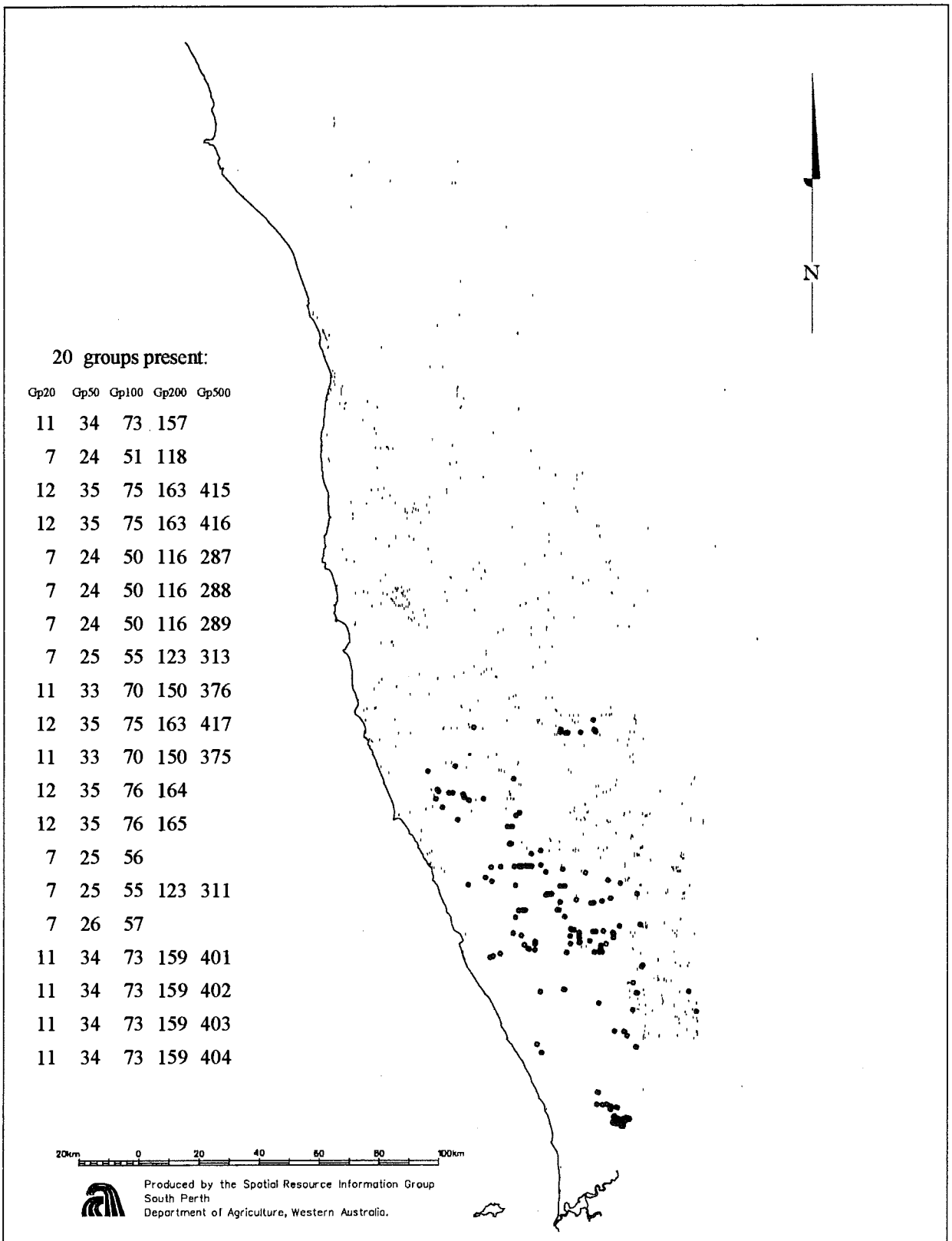


Figure 10o: Distribution of Floristic Groups with similar Geographic Patterns: Set 15

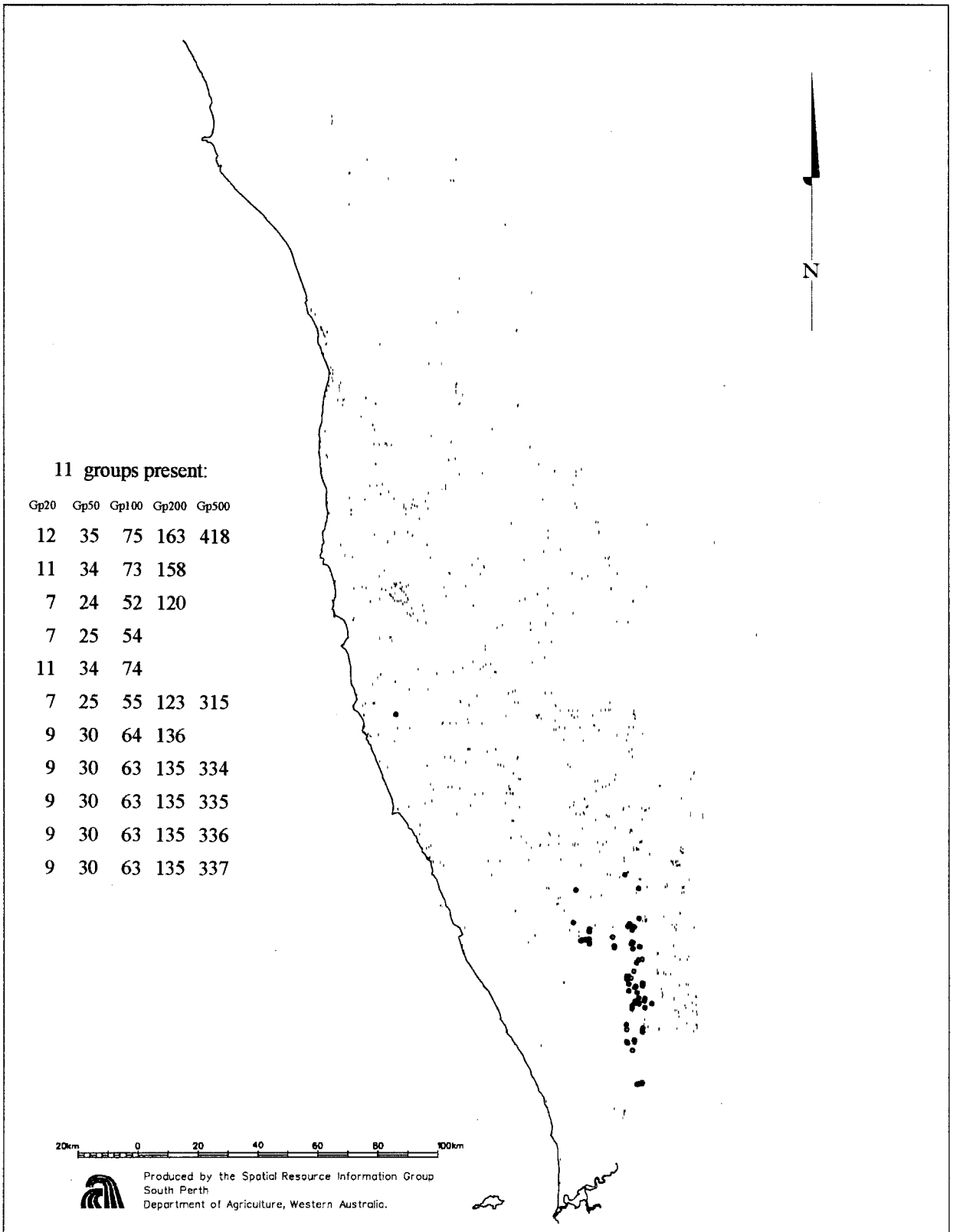


Figure 10p: Distribution of Floristic Groups with similar Geographic Patterns: Set 16

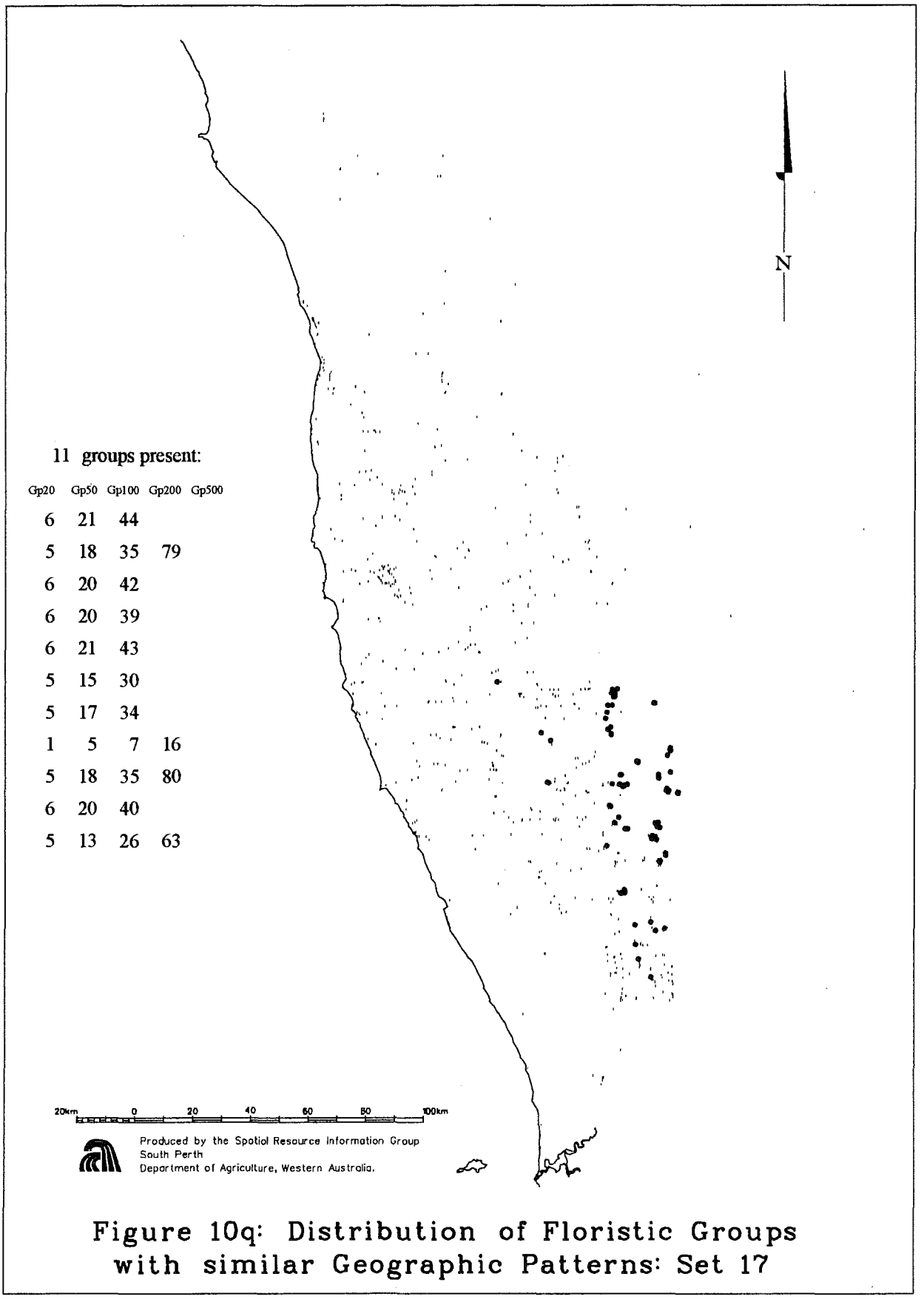


Figure 10q: Distribution of Floristic Groups with similar Geographic Patterns: Set 17

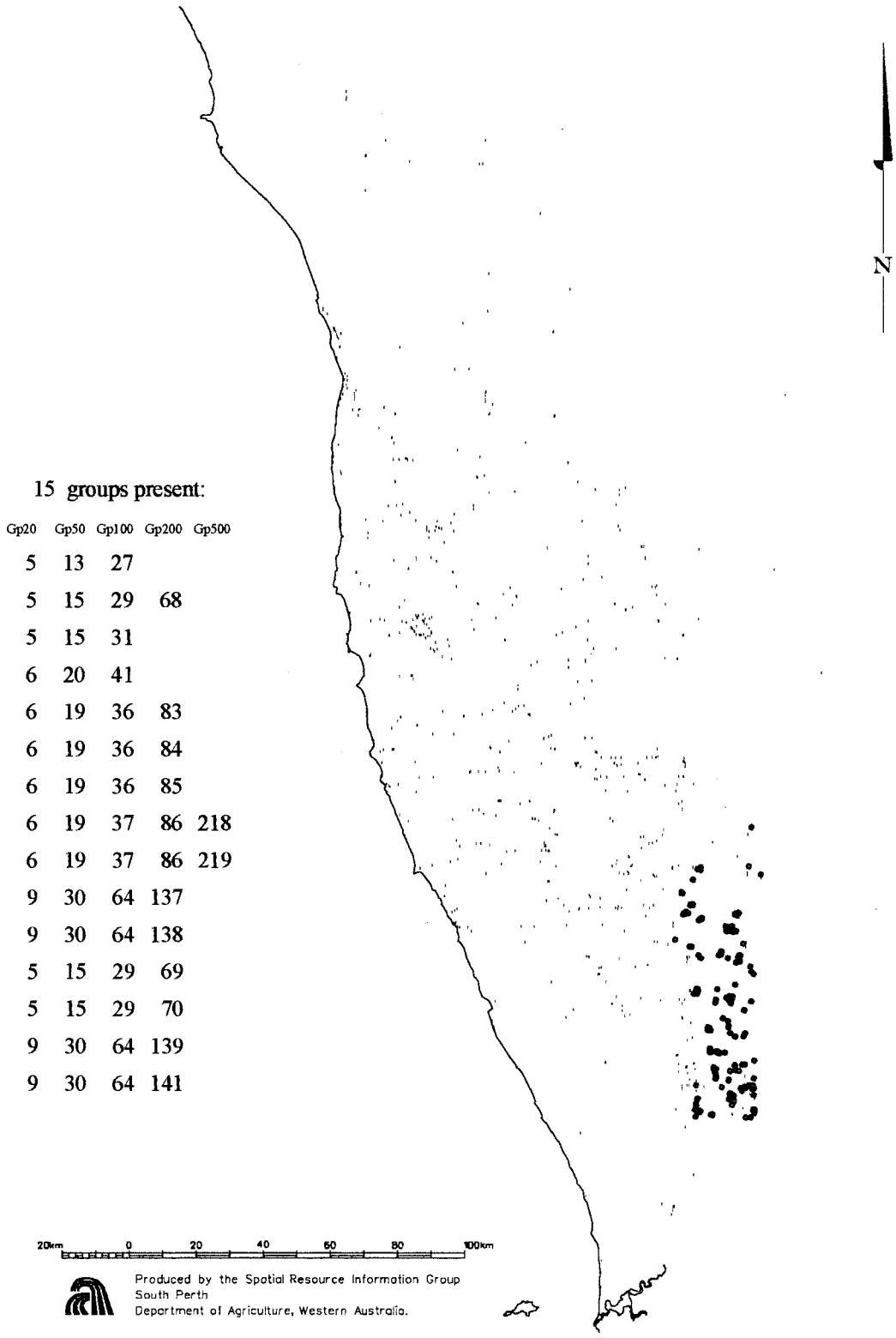


Figure 10r: Distribution of Floristic Groups with similar Geographic Patterns: Set 18

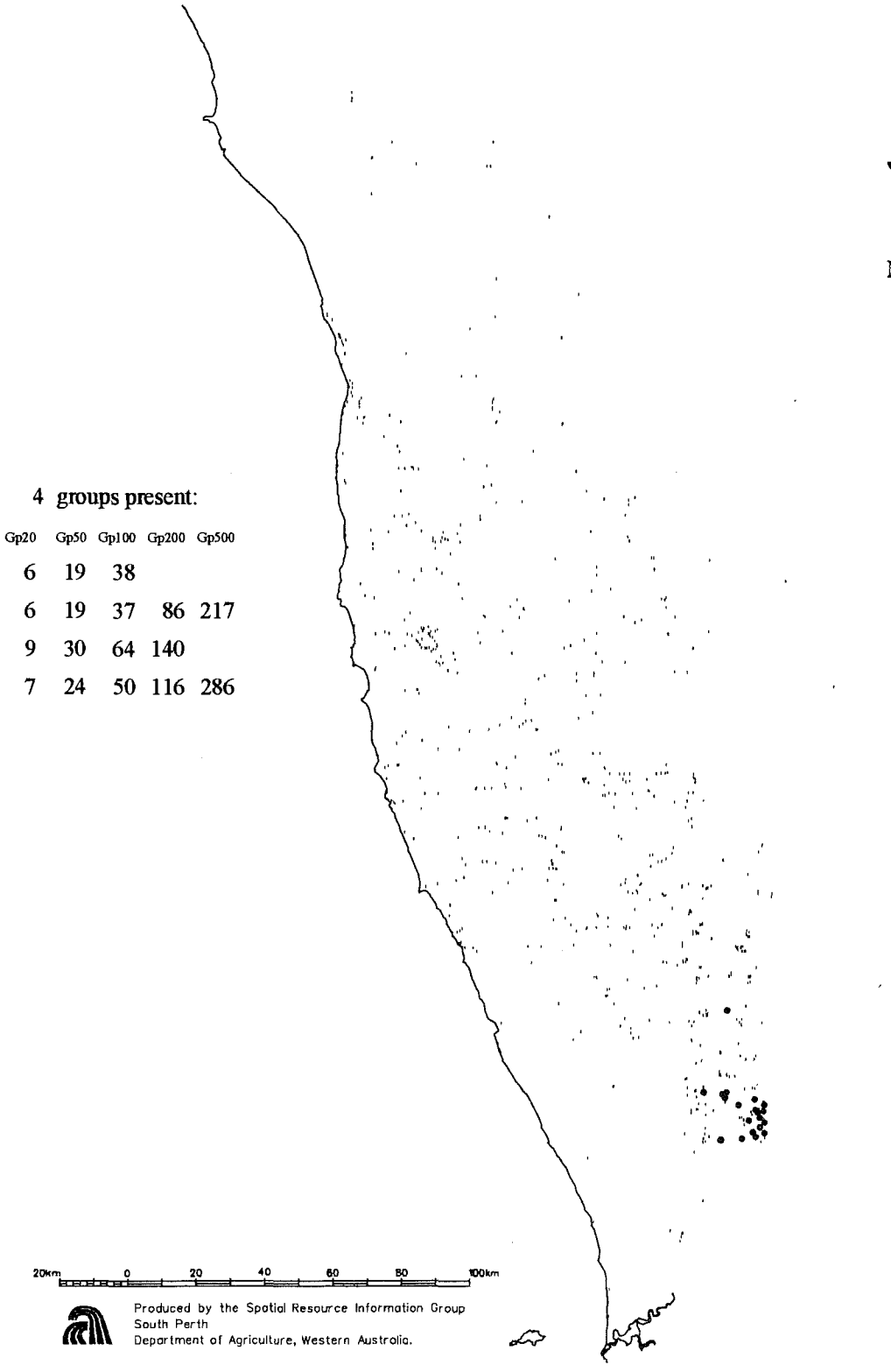


Figure 10s: Distribution of Floristic Groups with similar Geographic Patterns: Set 19

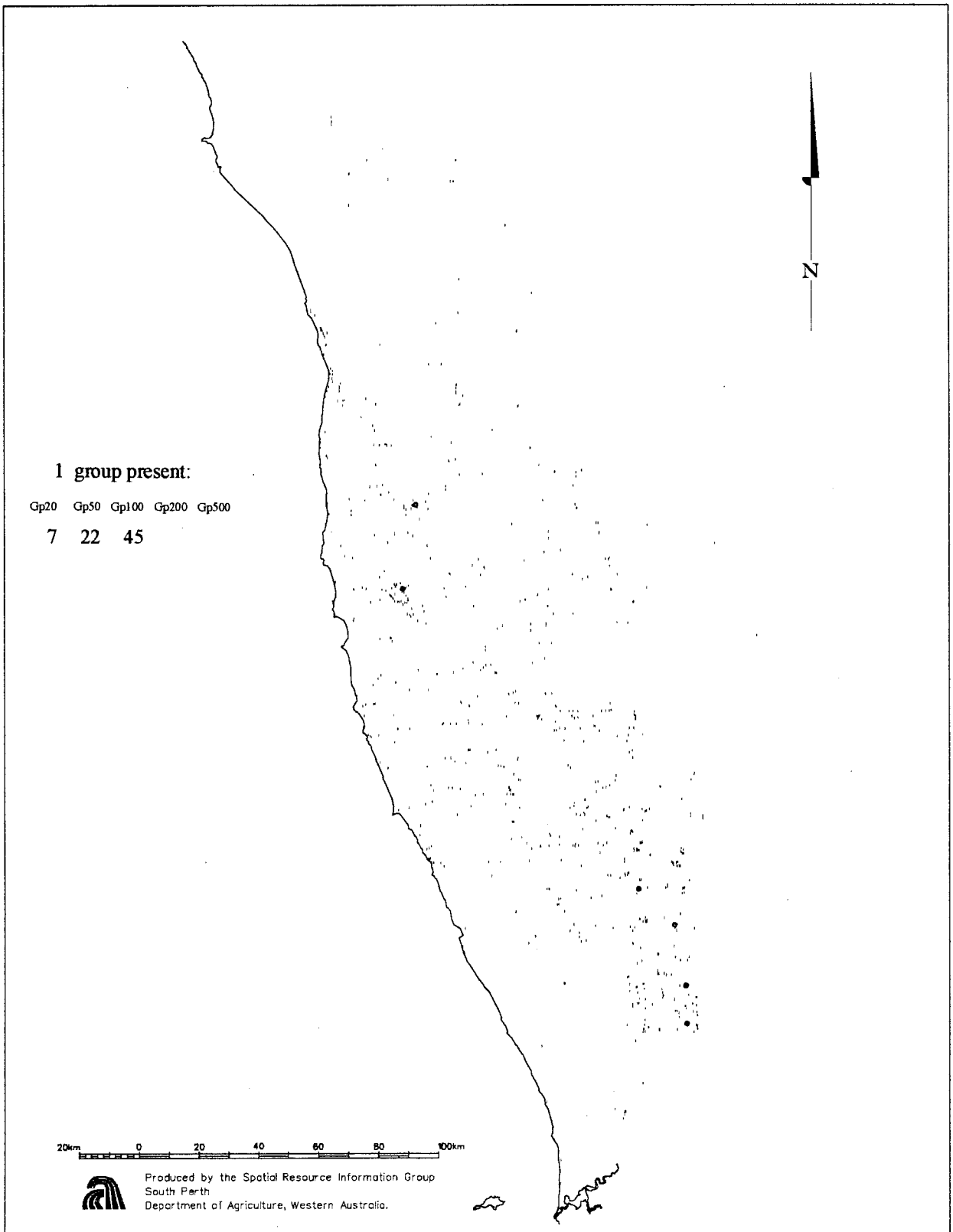


Figure 10t: Distribution of Floristic Groups with similar Geographic Patterns: Set 20

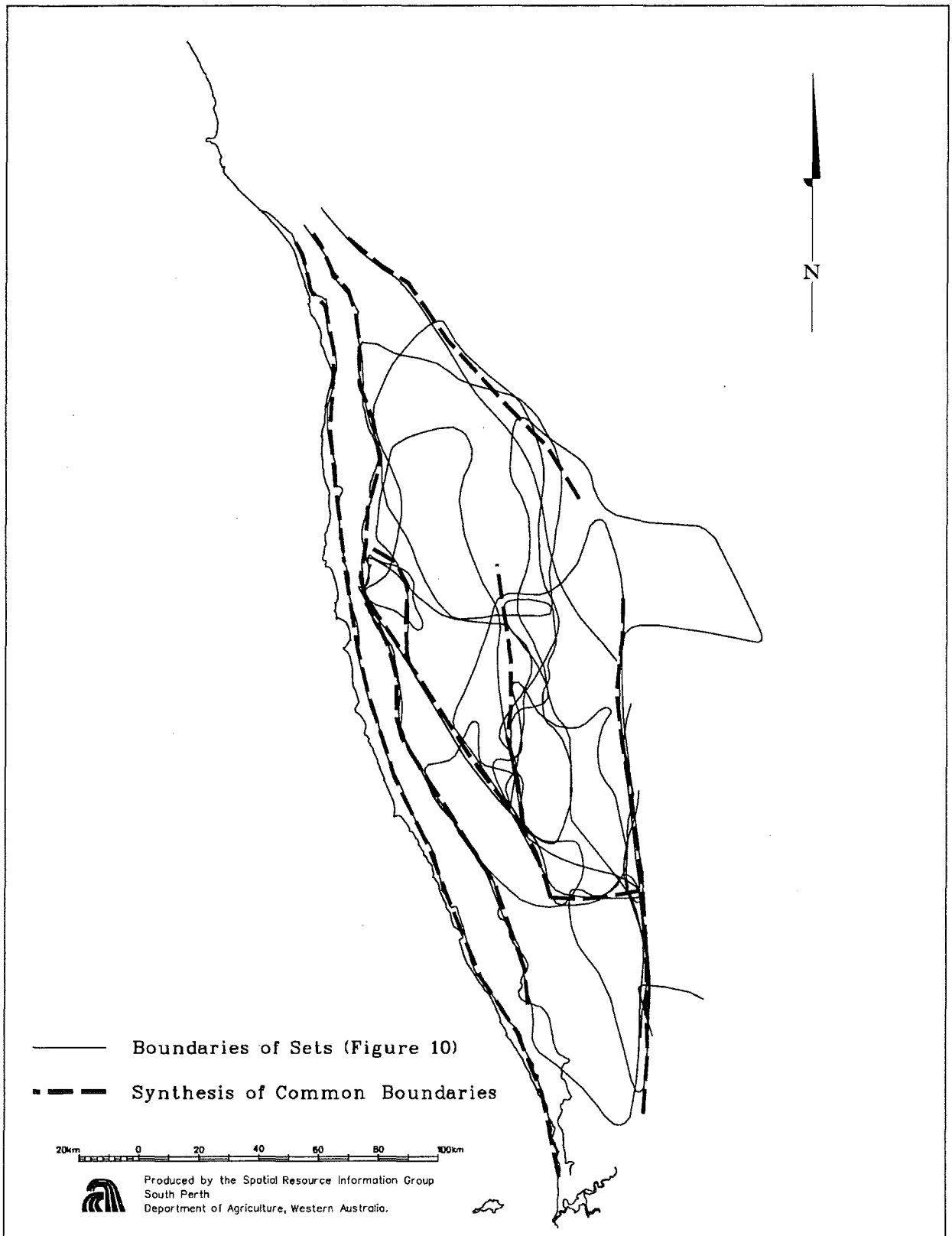


Figure 11: TENTATIVE BIOGEOGRAPHIC BOUNDARIES

DISCUSSION

Database

This study has produced a substantial tool for on going research and management. Its utility will be lost with out maintenance, addition and integration with different types of data, e.g. remnant vegetation and conservation lands. There is an urgent need to provide the framework for integrating this with other studies (e.g. Gibson et. al. 1994) and to provide for new studies to be fully compatible.

Several gaps in the data were identified. The major gap was the poor documentation of the highly diverse wetland communities. By comparison with the present study area, the adjacent areas are very poorly documented. Of particular note are the areas north of the Irwin River which appear from this study to have clearly different vegetation from that south of it.

Flora

The focus of the study area is very rich at about 2000 native taxa, being about one fifth of the total for Western Australia. There is no data with which to directly compare this. Gibson et. al. (1994) report more than 1800 native taxa from the southern part of the Swan Coastal Plain (Gingin to south of Busselton). Chapman and Newbey (1987) reported nearly 1800 taxa from the Fitzgerald River area. Over 2150 taxa were reported for the whole Irwin Botanical District (Hnatiuk in Griffin et. al. 1990). This, however, is about 5 years out of date and does not include the many undescribed taxa.

There will be continuing improvements in the knowledge of the flora of this area, especially over the next 10 years as the Flora of Australia project comes to fruition. The maintenance of a substantial and reasonably reliable database is now possible because of the consistent electronic form in which the data now resides. This is unprecedented in Western Australia. The potential to cross reference it to the collections of the Western Australian Herbarium will assist in its maintenance in the future.

It is not yet possible to discuss the degree of endemism in this area but about 20% of its flora is either geographically restricted or rare. This suggests a high proportion are likely to be endemic to the core of the study.

Of the 262 alien species recorded, only a few were noted to be at all commonly present in more or less natural vegetation. Even less were at all dominant in even small areas of relatively undisturbed (by human initiated physical disturbances) vegetation. *Pelargonium capitatum* is the most worrying for it is occupying a naturally unstable environment and apparently out competing the natural colonisers. *Casuarina equisetifolia* which is only in a small patch may prove to be a problem in the future.

The invasion of weed species decreased with distance from Perth and other settled areas such as Geraldton. Several habitats appeared more vulnerable to invasion than others. Ones of note were (in decreasing vulnerability) young foredunes and deflation basins, areas of York gum, some types of Wandoo woodlands, Tuart woodlands, drainage lines, heavier soils and Quindalup dunes. Generally vegetation on Bassendean dunes and the sands and lateritic gravels of upland areas were the least vulnerable.

Floristic Patterns

The vegetation of the study area floristically very diverse. It is likely that hundreds of distinct floristic types could be identified, however, definition of each of these was beyond the resources of this study.

This study has demonstrated that there appears to be a major biogeographic region centred between the Moore and Arrowsmith Rivers. In the broadest sense this is nothing new. From as early as Diels (1906) it has been recognised that at least three major region (i.e. Botanical Districts) could be defined within a couple of hundred kilometres of Perth. The problem has been on what basis does one distinguish them. Diels (1906), Gardner and Bennetts (1956), Speck (1958) and Beard (1980) all vary in the location of and reasons for the boundaries. One is lead to believe that the latest treatment is the most appropriate. Clearly it gives a reasonably precise definition of boundaries, but is it appropriate to do so? Is it always possible to define precise boundaries? On the balance of probability the answer is no.

Beard has clearly had difficulty finding suitable criteria for boundaries. He recognised that the Darling Fault is a major boundary which he uses to divide the Irwin from the Avon Botanical Districts and to subdivided the Darling Botanical District into the Drummond and the Dale sub-districts. The present study lends significant support to the basis for his decision, even to the lack of certainty about the sandplain which straddles the fault in the Watheroo area.

Beard (1979a) use part of the Gingin scarp plus the extent of Marri woodlands around Dandaragan and the low banksia woodlands west of Moora as the northern limit of the Drummond sub-district. He implies that this represents changes in vegetation structure in response to reducing rainfall. The present study provides some distribution patterns which appear to be supportive of these assumptions. However,

boundaries based in climate are unlikely to be as precise as one readily infers from Beard's maps.

The Gingin Scarp indeed appears to separate vegetation of different composition. However, this study demonstrates that there is much regional variation in the composition of the vegetation on the Bassendean Dunes, a unit which Beard (1979a) includes totally within the Drummond sub-district, than across the scarp. Griffin and Keighery (1989) argued that this and parallel variation in the adjacent Irwin Botanical District uplands, were both related to the same thing - regional variation in Mesozoic sediments.

The vegetation in the Dandaragan area which Beard uses to define his boundary between districts is clearly related to the exposures of particular Cretaceous sediments, not to climate. Whether this is clear enough to mark such a major boundary such as a Botanical District is a mute point. Griffin (1990) suggested that the composition of vegetation of the Dandaragan area, especially that east of Dandaragan belonged more to the Irwin than to the Darling District. The preliminary analysis of the distribution patterns (Figures 10k, 10l, 10m and 10n versus 10o and 10p) suggest that somewhere just south of the Moore River might be a better location for a boundary to divide the Dandaragan Plateau.

It appears possible to relate some of the other patterns identified in this study to different geological units. The recognition by Beard (1976a, 1979a, 1979b) of a close relationship between vegetation and the Cainozoic sediments of the major coastal plain is supported. Certain patterns on the plateaux can be related to the distribution of Mesozoic sediments. For example Figure 10 basically represents the localized exposure in the Lesueur area of particular Mesozoic sediments. Similarly, Figure 10e can be related to the plateau portions of the Yarragadee formation (as amended by Backhouse 1984).

It is not clear whether there is a geological basis to the patterns in the north east of the study (Figure 10a). This is not related to a named geological unit, even in the survey currently in progress (A. Mory Geological Survey of WA, pers comm.).

There is further, albeit indirect, support for a relationship between the composition of vegetation and geology. Many of the floristic patterns west of the Darling fault (Figure 10) have their long axis oriented north to south, even on the Dandaragan Plateau. This is parallel to the long axis of geological units, whether they be formations or particular beds within. The soil units mapped by Northcote et.al. (1967) also follow the same general pattern.

Griffin et. al. (1983) concluded that potential evapotransporation might be a significant influence on the regional variation in the composition of vegetation on lateritic uplands near Eneabba. This conclusion is no longer endorsed. The variation in the composition described in that study is better correlated with the variation in the underlying Mesozoic sediments. None of floristic patterns identified in the present study appear to be related closely with variation in any climatic parameters. Climate is considered to contribute in just a minor way to the floristic composition.

It is concluded that geological substrate, as modified by soil development and stripping patterns, is fundamental to the variation in composition of the vegetation supported.

A Lesueur Botanical District ?

Beard (1980) argued that there was insufficient evidence to retain the Lesueur Botanical District of Speck (1958) who had removed it from the Irwin District. While it is not possible to come to a conclusion whether there is a case for reinstating the Lesueur District, there is a case to consider the question in more detail. The tentative biogeographic boundaries summarised in Figure 11 show strong localisation of many of the floristic groups to within what would have been the Lesueur District.

Clearly the Darling Fault more or less separates the Avon and Darling from the Irwin Districts. Evidence was presented above that Beard's boundary between the Irwin and the Darling (Drummond sub-district) Districts would be better moved to the south to just south of the Moore River. This boundary is more in accord with that of the old Lesueur District. But what of northern areas? Is there a floristic boundary which would coincide with the northern boundary of the old Lesueur District?

Figure 10a suggests distinct floristic groups on the north and north-east margin of the study area extending further north. A number of the species present in these were ones typical of the Yuna - Kalbarri sandplain (e.g. *Hibbertia conspicua*, *Grevillea dielsiana* and *Jacksonia* sp. Kalbarri). In addition species from the Kalbarri area which extended further south usually occurred in the vicinity of the Yarra Yarra lakes, not Eneabba. Most of the species common in the Badgingarra - Eneabba area, say on lateritic uplands were not found as far north as this. Going slightly further a field, there are a large number of species endemic to the strongly stripped country east of Geraldton from Wicherrina to north of Northhampton. There is strong evidence for a major botanical boundary somewhere in the vicinity of the Irwin River or perhaps a little further north.

It is concluded that the preliminary analysis of floristic patterns from this study support a botanical unit (either district or sub-district) based on the old Lesueur District.

Conservation Significance

It has been possible to demonstrate that there were identifiable regional patterns based on the composition of vegetation. These, however, are only indicative one and it is not possible to make detailed assessment of the conservation significance of them. It certainly has not been possible to determine how well each vegetation types are represented in conservation areas.

Some preliminary comments are, however, relevant. Many of the possible biogeographic units are well conserved in existing conservation reserves. The potential to extend the conservation estate by dedicating Crown land exists in some. Other areas have very poor representation in the conservation estate and there is little potential for this to be redressed, either through Crown or private land.

Griffin (1992) identified the area around Dandaragan and east of Dandaragan as being poorly conserved and with few remnants of private land. Another area which is poorly conserved is the Victoria Plateau, essentially the plateau north of the Arrowsmith River. This study has shown this area to be floristicly distinct from areas to the south. There is an urgent need to identify possible Crown or privately owned land to protect these community types, especially in the area between Mingenew, Mullewa and Wicherrina.

The other area in need of urgent attention is the sandplain country between Watheroo and Dalwallinu. It appears that this area is a significant transition zone between the Irwin and Avon Botanical Districts. Conservation of this area might be achieved through protection of the few some small Crown reserves and some of the important private remnants.

ACKNOWLEDGEMENTS

Funding for this project was made available by a grant from the Australian Heritage Commission and Heritage Council of W.A. under the National Estate Programme (N92/2). The Grant was administered by Mr Greg Beeston of the Western Australian Department of Agriculture.

The Department of Conservation and Land Management is acknowledged for giving permission to undertake surveys in lands under their control and to take specimens of Rare plants.

The willingness of several private land owners to give permission for access to their land is greatfully acknowledged. The Doley, Carr and Williams families provided accomodation during the field trips.

The botanists at the Department of Conservation and Land Management supported by assisting with the identification of a number of plant specimens collected. Those to whom a special mention should go are Mr G. Keighery, Mr P. Wilson, Mr B. Maslin, Mr R. Cranfield, Mr A. Brown, Dr B. Rye, Mr A. Chapman and Ms S. Patrick. Other non CALM botanists who assisted greatly include Mr M. Trudgen, Ms E. George, Mr A. Lowrie, Mr A. George and Dr S. Hopper.

Dr J. Armstrong, then the Curator of the Western Australian Herbarium (Department of CALM), generously made available their collection of plant specimens for identification purposes and from which information on the distribution of species was obtained. The preparation of voucher specimens for incorporation into the collection was acknowledged, especially the assistance of Mrs S. Bakker.

The computer support provided by the Department of Conservation and Land Management and the Department of Agriculture is acknowledged. Mr A. Chapman and Mrs S. Bakker assisted with the provision of data from the Western Australian Herbarium. Mr P. Gioia and Dr N. Gibson arranged for the use of the computer package PATN. Dr K. Atkins provided the list of rare species. Mr G. Mlodawski made available computing resources, in particular the Oracle based plotting. Ms J. Hoskings prepared figures for the report. The geographic location of the sites used were captured electronically with the assistance of Dr N. Scho knecht and Mr J. Bessell-Brown.

Discussions and field trips with a number of scientists proved most useful in understanding various aspects of the geology, geomorphology and soils of the study area, Dr A. Mory, Dr N. Scho knect warrant special mention.

Colleagues such as Mr A. Hopkins, Mr G. Keighery and Dr N. Gibson assisted in formulating the programme and maintaining the goals in focus.

Finally to those who made available their data goes a very important acknowledgement.

REFERENCES

Backhouse, J. (1984) Revised Late Jurassic and Early Cretaceous stratigraphy in the Perth Basin. In *Professional Papers for 1982*. Geological Survey of Western Australia. Report 12. pp 1-6.

Bagnouls, F. and Gaussen, H. (1957) Les climats ecologiques et leur classification *Annls. Geogr.* **66**:193:220

Beard, J.S. (1976a) *Vegetation Survey of Western Australia. The Vegetation of the Dongara Area, Western Australia. Map and Explanatory Memoir*. 1:250 000 ser. Vegmap Publications, Perth 24 pp.

Beard, J.S. (1976b) *Vegetation Survey of Western Australia. The Vegetation of the Perenjori Area, Western Australia. Map and Explanatory Memoir*. 1:250 000 ser. Vegmap Publications, Perth

Beard, J.S. (1979a) *Vegetation Survey of Western Australia. The Vegetation of the Moora and Hill River Areas, Western Australia. Map and Explanatory Memoir*. 1:250 000 ser. Vegmap Publications, Perth 40 pp.

Beard, J.S. (1979b) *Vegetation Survey of Western Australia. The Vegetation of the Perth Area, Western Australia. Map and Explanatory Memoir*. 1:250 000 ser. Vegmap Publications, Perth 48 pp.

Beard J.S. (1980) A new phytogeographic map of Western Australia. *West. Aust. Herb. Res. Notes* **3**:37-58

Beard, J.S. and Burns, A.C. (1976) *Vegetation Survey of Western Australia. The Vegetation of the Geraldton Area, Western Australia. Map and Explanatory Memoir*. 1:250 000 ser. Vegmap Publications, Perth 37 pp.

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.

Bell, D.T. and Loneragan, W.A. (1985) The relationship of fire and soil type to floristic patterns within heathland vegetation near Badgingarra, Western Australia. *J. Roy. Soc. West. Aust.*, 67:98-109

Brooker, M.I.H. and Kleinig, D.A. (1990) *Field Guide to Eucalypts, Vol. 2, South-western and southern Australia.* Inkata Press Melbourne. 428 pp

Burbidge, A.H. and Boscacci L.J. (1989) A Spring Reconnaissance Survey of the Flora and Fauna of the Southern Beekeepers Reserve. *Technical Report No 22*, Department of Conservation and Land Management, Perth. pp38.

Burbidge, A.H., Boscacci, L.J., Alford, J.J. and Keighery, G.J. (in prep.) A Biological Survey of Boonanarring Nature Reserve. Department of Conservation and Land Management

Burbidge, A.A., Hopper, S.D., and van Leeuwen, S., (1990) *Nature Conservation, Landscape and Recreation values of the Lesueur area.* (eds.) Environmental Protection Authority, Bulletin 424, Perth.

Carter, J.D. and Lipple, S.L. (1982) *Geological survey of Western Australia. 1:250 000 Geological Series - Explanatory Notes. Moora, Western Australia* (Sheet SH50-10). Geol. Surv. West. Aust., Perth 25pp.

Chapman, A. and Newbey, K.R. (1987) *A biological survey of the Fitzgerald area, Western Australia.* Final Report (June 1987). Unpublished Report to the Australian Heritage Commission.

Diels, L. (1906) Die Pflanzenwelt von West-Australien Sudlich des Wendekreises. In: A. Engler & O. Drude (eds.) Die Vegetation der Erde. Viii. 413 pp. W. Engelmann, Leipzig.

Elkington, J.E. (1987) *Report on the vegetation at Cooljarloo W.A.*. Unpublished report for TIO2 Corporation, Ekomin Pty. Ltd., South Perth.

Elkington, J. and Griffin, E.A. (1984) *Botanical Survey of Thirteen Mineral Claims on Reserves C27886 and C31030.* Unpublished report by Ekomin Pty. Ltd. for Allied Eneabba.

Foulds, W. and Mc Millan, R.P. (1985) *An Ecological Study of Heathlands of the Leeman area, Western Australia.* Unpublished report to Australian Heritage Commission.

Foulds, W. and Mc Millan, R.P. (1988?) *An Ecological Study of Burma Road Reserve, Greenough Shire, Western Australia*. Unpublished report to Australian Heritage Commission.

Froend, R.H. (1988) *Investigations into species richness patterns in the Northern Sandplain Region of Western Australia.* Unpublished PhD Thesis, Botany Department, University of Western Australia.

Gardner, C.A. and Bennetts, H.W. (1956) *The Toxic Plants of Western Australia.* West Australian Newspapers, Perth, 253pp.

George, A.S., Hopkins, A.J.M. and Marchant N.G. (1979) The heathlands of Western Australia. In: R.L. Specht (ed) *Ecosystems of the World. 9A. Heathlands and Related Shrublands. Descriptive Studies.* pp. 211-230. Elsevier, Amsterdam.

Gibson, N.G., Keighery, B.J., Keighery, G.J., Burbidge, A.H. and Lyons, M (1994) *Floristic Survey of the Southern Swan Coastal Plain*. Unpublished report by the Department of Conservation and Land Management and the Conservation Council of Western Australia to Australian Heritage Commission.

Green, J.W. (1985) *Census of vascular plants of Western Australia*. Second Edition. Western Australian Herbarium, Dept. of Agriculture, Perth. 312 pp.

Griffin, E.A. (1990) *Floristic Survey of Remnant Vegetation in the Dandaragan Area*. Unpublished Report to Western Australian Heritage Committee. 113 pp.

Griffin, E.A. (1991) *Flora and Vegetation of Watheroo Bentonitic Lakes*. Unpublished Report for Bentonite (Aust.) Pty. Ltd. 46pp.

Griffin, E.A. (1992) *Floristic Survey of Remnant Vegetation in the Bindoon to Moora Area*. Unpublished Report to Western Australian Heritage Council. 180pp.

Griffin, E.A. (1993) *Flora of the Quindalup Dunes between the Swan and Irwin Rivers*. Unpublished Report to Coastal Planning Branch, Department of Planning and Urban Development and the Heritage Council of W.A. 172pp.

Griffin, E.A., Hnatiuk, R.J., and Hopper, S.D. (1982) Flora conservation values of vacant Crown land south of Mt Adams, Western Australia. *West. Aust. Herb. Res. Notes* **2**:31-47

Griffin, E.A. and Hopkins, A.J.M. (1981) The short term effects of brush harvesting on the Kwongan vegetation at Eneabba, Western Australia. *Dept Fisheries and Wildlife Report 45* 38pp.

Griffin, E.A. and Hopkins, A.J.M. (1985) The flora and vegetation of Mt. Lesueur, Western Australia. *J. Roy. Soc. West. Aust.* **67**:45-58.

Griffin, E.A., Hopkins, A.J.M., and Hnatiuk, R.J. (1983) Regional Variation in mediterranean type shrublands near Eneabba, south-western Australia. *Vegetatio* **52**:103-127.

Griffin, E.A., Hopper, S.D. and Hopkins, A.J.M. (1990) Flora. In *Nature Conservation, Landscape and Recreation values of the Lesueur area*. A.A. Burbidge, S.D. Hopper and S. van Leeuwen (eds.) Environmental Protection Authority, Bulletin 424, Perth. pp. 25-37.

Griffin, E.A. and Keighery, B.J. (1989) *Moore River to Jurien Sandplain Survey*. Western Australian Wildflower Soc. Perth 90pp

Hnatiuk, R.J. (1990) Census of Australian Vascular Plants. *Australian Flora and Fauna Series, Number 11*. Bureau of Flora and Fauna. AGPS Canberra

Hnatiuk, R.J. and Hopkins, A.J.M. (1980) Western Australian species-rich kwongan (sclerophyllous shrubland) affected by drought. *Australian Journal of Botany* **28**, 573-85.

Hoffman, N and Brown, B. (1984) *Orchids of South-West Australia*. University of Australia Press, Nedlands, Western Australia.

Hopkins, A.J.M. and Hnatiuk, R.J. (1981) An ecological survey of the kwongan south of Eneabba, Western Australia. *Wildl. Res. Bull. West. Aust.* **9**:1-33

Lamont, B.B. *(1976) A Biological Survey and Recommendations for Rehabilitating a Portion of Reserve 31030 to be Mined for Heavy Minerals During 1975-81*. Unpublished report by WAIT-Aid for Allied Eneabba Pty Ltd.

Lowrie, A. (1987) *Carnivorous Plants of Australia, Volume 1*. University of Western Australia Press, Nedlands, Western Australia. 200 pp.

Lowrie, A. (1989) *Carnivorous Plants of Australia, Volume 2*. University of Western Australia Press, Nedlands, Western Australia. 202 pp.

Lowry, D.C. (1974) *Geological survey of Western Australia. 1:250 000 Geological Series - Explanatory Notes. Dongara - Hill River, Western Australia (Sheet SH/50-5,9)*. Australian Government Publishing Service, Canberra. 33pp.

Marchant, N.G., Wheeler, J.R., Rye, B.L., Bennett, E.M., Lander, N.S. and Macfarlane, T.D. (1987) *Flora of the Perth Region*. Western Australian Herbarium, Department of Agriculture, Western Australia, Perth. 1080pp.

Martinick, W.G. and Associates (1986) *Gairdner Range: Coal Project. Vegetation Studies - Interum Report September 1986*. Unpublished Report for CRA Exploration Pty. Ltd. 13pp.

Martinick, W.G. and Associates (1988) *Gairdner Range: Coal Project. Vegetation Types, Vegetation Mapping and Rare Plants*. Unpublished Report for CRA Exploration Pty. Ltd.

McMillan, R.P. and Foulds, W. (1980) *An investigation of the proposed landscape protection area of Greenough, Western Australia*. Unpublished report to the Australian Heritage Commission.

Mueller-Dombois, P. and Ellenberg, H., (1974) *Aims and Methods of Vegetation Ecology*. Wiley New York 547 pp.

Northcote, K.H., Bettenay, E, Churchward, H.M. and McArthur, W.M. (1967) *Atlas of Australian Soils. Sheet 5. Perth - Albany - Esperance Area, with Explanatory Data*. CSIRO - Melbourne University Press, Melbourne, Vic., 55pp, 1 map.

Playford, P.E., Cockbain, A.E. and Low, G.H. (1976) Geology of the Perth Basin, Western Australia. *Geol. Survey. West. Aust. Bull.* **124**:1-131.

Speck, N.H. (1958) *The Vegetation of the Darling - Irwin Botanical Districts and an Investigation of the Distribution of the Family Proteaceae in South-Western Australia*, unpublished PhD. Thesis, Botany Department, University of Western Australia, Perth

van der Moezel, P.G., Loneragan, W.A. and Bell, D.T. (1987) Northern Sandplains Kwongan : Regeneration Following Fire, Juvenile Period and Flowering Phenology. *J. Roy. Soc. West. Aust.* **69**:123-132.

Weston, A.S., Griffin, E.A. and Trudgen, M.E. (1992) *Flora and vegetation conservation values of the Ellenbrook Estate*. unpublished report for Bowman, Bishaw and Gorham.

Westhoff, V. and van der Maarel, E. (1973) The Braun-Blanquet approach. In: R.H. Whittaker (ed.) *Handbook of Vegetation Science. 5. Ordination and Classification of Communities*. pp. 617-726. W.Jung, The Hague.

Wilde, S.A. and Low, G.H. (1978) *Geological survey of Western Australia. 1:250 000 Geological Series - Explanatory Notes. Perth, Western Australia (Sheet SH50-14)*. Geol. Surv. West. Aust., Perth 36pp.

Wills, R.T., (1989) *Management of the flora utilised by the european honey bee in kwongan of the Northern Sandplains of Western Australia*. Unpublished PhD Thesis, Botany Department, University of W.A.

APPENDICES

Appendix 1 Research Projects Utilised

Brief descriptions of research projects from which data was extracted for inclusion in this study.

The location of the are displayed in Figure 5.

Study - ENE (Hopkins and Hnatiuk 1981)
This was a study of an area of Kwongan in the vicinity of the mineral sands mining area south of Eneabba. This was a mixture of 182 releves and quadrats (some 16 m^2 and nested others 100 m^2) with lists from outside at 87 locations on a grid. The species abundances in quadrats was recorded on the Domin - Krajina scale (MuellerDombois and Ellenberg 1974). They reported the results from releves compiled from the data collected at the 87 locations. One site was omitted from this study because it was an area of regrowth of an area cleared for agriculture. After a preliminary analysis of the 86 releves through several modules of PATN, 20 sites were randomly selected, one from each of 20 clusters.

Study - LAT (Griffin, Hopkins & Hnatiuk 1983)
This was a study of 31 100 m^2 quadrats on lateritic uplands between Jurien and Three Springs observed in 1978 and 1979. The species abundances in quadrats was recorded on the Braun - Blanquet scale (MuellerDombois and Ellenberg 1974) with lists from outside. The 23 sites observed in 1978 have been included in this study. The others were part of the data set from the Lesueur area and some of these also were included.

Study - BEE (Wills 1989)
This was a study of the Beekeepers reserve west of Eneabba. It involved 90 100 m^2 quadrats, all of which have been included. The species abundances in quadrats was recorded on the Domin - Krajina scale.

Study - SAN (Griffin & Keighery 1989)
This was a study known as the Sandplain Survey was between Mt Lesueur and the Moore River National Park of 92 100 m^2 quadrats with lists from outside. The species abundances in quadrats was recorded on the Domin - Krajina scale. Only the 78 releves not originally from the Lesueur or Dandaragan Remnants data sets were included.

Study - DAN (Griffin 1990)
This was a study known as the Dandaragan Remnants of 357 releves each about 100 m^2 in the area between Badgingarra, Moore River and Moora. The species abundances in releves was recorded on the Domin - Krajina scale. It included data from 9 sites from the Sandplain Survey and from 6 sites from a study in Watheroo National Park (Griffin 1990b). Six sites which were considered unduely modified mainly by grazing activities and the sites from the Sandplain Survey were omitted leaving 342 releves.

Study - WLA (Griffin 1991)
This was a study of the flora of several bentonite lakes in Watheroo National Park and Pinjarrega Nature Reserve. This involved 42 quadrats. Although these were only 4 m^2 they were shown to quite adequately represent the stands of vegetation they sample. Observations of species outside the quadrats but within the particular stand being sampled were included. That study showed that many of the quadrats were extremely similar in composition to each other. Nineteen sites were selected for the present study on the basis of eliminating many of the very similar ones.

Study - BIN (Griffin 1992)
This was a study known as the Bindoon Remnants of 482 releves each about 100 m^2 in the area from north of Moora to south of Bindoon. The species abundances in releves was recorded on the Domin - Krajina scale. Almost all of these (472) were included in the present study.

Study - QUI (Griffin 1993)
This was a study of the vegetation of the Quindalup Dunes including 545 releves each about 100 m^2 from 20 locations between the Swan River and Geraldton. The species abundances in releves was recorded on the Domin - Krajina scale. Some releves were omitted because they were floristically very similar to each other and geographically close. This left 502 sites to be included in the present study.

Study - ELE (Weston et. al. 1992)
This was a study of 95 releves each about 100 m^2 of an area south-west of near Muchea. The species abundances in releves was recorded on the Domin - Krajina scale. Some was unpublished data from from E. M. Mattiski and from G. J. Keighery. Only the 55 releves collected in 1992 were included in this study.

Study - LES
This is a data set of 434 releves and quadrats each 100 m^2 or more from the Lesueur area. Many quadrats were within the same stands of vegetation, not just the same vegetation type. In the quadrats species abundances were recorded on the Domin - Krajina scale and lists from outside were also made. These were all east of the Cockleshell Gully road and included some which are now in the Coomalloo Nature Reserve. Some of the results have been reported in Griffin, Hnatiuk and Hopkins (1983), Griffin and Hopkins (1985) and Martinick (1986 & 1988). A number of publications are in preparation. After a preliminary analysis of the 434 releves through several modules of PATN, 225 sites were randomly selected, one from each of 225 clusters. This omitted some of the releves which were floristically very similar to each other and geographically close.

Study - SEE
This was an informal study by E. A. Griffin in 1981 of reserve 35499 south east of Eneabba. Seven releves of about 100 m^2 from that were included in this study.

Study - COM
This was another informal study by E. A. Griffin in 1989 of the now Coomallo Nature Reserve. The species abundances in releves was recorded on the Domin - Krajina scale. It complements the data set from the Lesueur area which includes observations from the now Coomallo Nature Reserve.

Study - EFI
This was a detailed study by E. A. Griffin and A. J. M. Hopkins in 1981 of two small areas of long unburnt vegetation in the Eneabba area. Four pairs of nested quadrats up to 1000 m^2 were established, one of each pair on opposite sides of a fire boundary. The four quadrats which were longer unburnt were included in the present study.

Study - RJH
This was a study undertaken by R. J. Hnatiuk in 1977 of a Crown reserve at the junction of the Jurien East road and the Brand Highway (now part of the Coomallo Nature Reserve). Nine releves of at lease 100 m^2 were included in the present study. No site information was available.

Study - BOO
This was a group of 7 releves up to 1000 m^2 from the Boonanarring Nature Reserve (Burbidge et. al. in prep).

Study - YAN
This was 5 releves up to 1000 m^2 from the Yanchep National Park which were part of a study by A. H. Burbidge and G. J. Keighery

Study - NSP
This was 649 releves up to 100 m^2 observed by E. A. Griffin in 1992. The species abundances in releves was recorded on the Domin - Krajina scale. These were part of the present study and the location of these were selected to complement the other studies mentioned above.

Appendix 2 Database Codes and Definitions

All Databases are in Dbase format. The Species Databases were compiled by using Sedit (V1.1) (Paul Gioia, CALM). This related the unique species code (SP_CODE) to a Master file (MSPLIST.dbf). The Site Databases were either compiled using Sedit or directly using Dbase III+.

Field Type: C - Character, N - Numeric, D - Date

A. Species Databases

Field NAME	Type, Width	Description
SITE	C8	Site code
AB	C1	Abundance Code, e.g. Domin-Krajina Scale
SP_CODE	C10	Species code (See MSPLIST.dbf)

B. Site Databases

Field Name	Type Width	Description	Values	
SITE	C8	Site code		
DATE	D8	Date recorded		
BA	N2	bare	(% of site)	
LI	N2	litter	(% of site)	
WE	N2	weeds	(% of site)	
CO	C1	condition	(Trudgen unpublished)	E . . . . . Excellent
				V . . . . . Very Good
				G . . . . . Good
				F . . . . . Fair
				P . . . . . Poor
				D . . . . . Degraded
SLO	N2	slope	(degrees)	
ASP	N3	aspect	(degrees)	
W	N1	wet	(1 = driest ... 5 = wettest)	
DR	N1	drainage	(1 = well ... 5 = poor)	
F	C1	fire age		V . . . . . Very old
				O . . . . . Old
				M . . . . . Medium
				Y . . . . . Young
SPEC1	C10	#1 Dominant species (as SP_CODE)		
SPEC2	C10	#2 Dominant species (as SP_CODE)		
SPEC3	C10	#3 Dominant species (as SP_CODE)		

STY	C3	Surface soil type	cal . . . . calcareous cap . . . . siliceous-calcareous dia . . . . diatomite fer . . . . ferruginous lat . . . . . lateritic org . . . . organic qtz . . . . quartz sil . . . . . siliceous sip . . . . calcareous-siliceous
SCL	C3	Surface soil colour	1st character p . . . . . pale d . . . . . dark 2nd & 3rd characters (in combination. right hand justified) b . . . . . brown c . . . . . cream g . . . . . grey o . . . . . orange p . . . . . pink r . . . . . red w . . . . . white y . . . . . yellow
STEX	C4	Surface soil texture	(in combinations. right hand justified) C . . . . . clay G . . . . . gravel L . . . . . loam S . . . . . sand
SST	C3	sub-soil type (as for STY)	
SSC	C3	sub-soil colour (as for SCL)	
SSTE	C4	sub-soil texture (as for STEX)	
GTY	C3	geological rock type	cal . . . . calcareous cap . . . . siliceous-calcareous che . . . . chert dia . . . . diatomite fer . . . . ferrugineous gra . . . . granite lat . . . . . lateritic lih . . . . Holocene limestone lim . . . . limestone lit . . . . . Tamala limestone org . . . . organic qtz . . . . quartz san . . . . sandstone sch . . . . schist sil . . . . . siliceous sip . . . . calcareous-siliceous slt . . . . . siltstone
LAN	C3	landform	UP . . . . upland plain UPB . . . upland plain broad UPR . . . upland plain remnant BA . . . . upland backslope BAL . . . upland backslope (lower) BAM . . . upland backslope (mid) BAU . . . upland backslope (upper) HI . . . . hill crest HIE . . . . elongated hill crest HIL . . . . localised hill crest

landform (cont.)

HO . . . . hollow in upland
RI . . . . rise
RIE . . . . elongated rise
RIL . . . . local rise
CL . . . . cliff
CLS . . . . cliff footslope
SC . . . . scarp
SCS . . . . scarp footslope
SL . . . . slope
SLU . . . upper slope
SLM . . . mid slope
SLL . . . . lower slope
BEN . . . bench
TOR . . . tor
PE . . . . pediment
DO . . . . doline
DOF . . . doline floor
DOR . . . doline rim
FL . . . . flat
PL . . . . plain
GU . . . . gully
GUF . . . gully floor
GUS . . . gully slope
LA . . . . lake
LAC . . . lake centre
LAM . . . lake margin
VA . . . . vale (upper drainage line)
VF . . . . valley flat
CH . . . . channel
CHB . . . channel bed
CHK . . . channel bank
CHM . . . channel margin
DE . . . . depression
DEC . . . closed depression
DEO . . . open depression
PY . . . . playa
PYF . . . . playa floor
PYM . . . playa margin
BEA . . . beach
D . . . . dune
DU . . . . dune
DUC . . . dune crest
DUS . . . dune slope
DUT . . . dune toe
DF . . . . foredune
DFI . . . . incipient foredune
DFM . . . mature foredune
DFR . . . beach ridge
DFT . . . truncated foredune
DL . . . . lunette dune
SW . . . . swale

LOCATION1	C55	Location	
LOCATION2	C55	Location	
RESERVE	N5	Reserve number	
ZO	N2	AMG zone	
AMG_E	N9,2	easting	(decimal of metre)
AMG_N	N10,2	northing	(decimal of metre)
LATITUDE	C7	DDMMSS	
LONGITUDE	C8	DDDMMSS	

STRUCTURE (Muir 1977) 1 . . . . . dense
2 . . . . . mid-dense
3 . . . . . sparse
4 . . . . . very sparse
5 . . . . . scattered

T1	C1	trees 5 - 15 m
T2	C1	trees m
MT	C1	mallee tree form
MS	C1	mallee shrub form
S	C1	shrubs 2 m
SA	C1	shrubs 1.5 - 2.0 m
SB	C1	shrubs 1.0 - 1.5 m
SC	C1	shrubs 0.5 - 1.5 m
SD	C1	shrubs 0.5 m
MP	C1	mat plants
B	C1	bunch grass
H	C1	herbs (annual spp)
ST	C1	sedges (including graminoids) 0.5 m
SL	C1	sedges (including graminoids) 0.5 m

Appendix 3 Field sheet

NORTHERN SANDPLAINS STUDY

Vegetation Assessment Sheet **(E.A. Griffin & Associates - 361 0373)**

Code:..... **Relevé** (ca 100m^2) **Map Zone**: 50 **AMG**:..... ..**Date**:../../92

Bare:..% **Patchiness**:..... **Litter**:..% **Weeds**:..% **Condition**:.....**Geol**:.....

Slope.... **Aspect**.... **Drainage**.... **Wet**.... **Fire Age**.... **Veget**:.....
Surface / Sub-surface Soil:

.....
Location:
.....
Landscape:

Muir Struct (1 = 70-100%), 2 = 30-70%, 3 = 10-30%, 4 = 2-10%, 5 = patches 2%)
T1:.. T2:.. MT:.. MS:.. S:.. SA:.. SB:.. SC:.. SD:.. MP:.. B:.. H:.. ST:.. SL:..

Cover Codes + - sol insig, 1 - few insig, 2 - %, 3 - 1-5%, 4 - 5-10%,
5 - 10-25%, 6 - 25-33%, 7 - 33-50%, 8 - 50-75%, 9 - 75%

Col No	CC	Species	Col No	CC	Species

Appendix 4 Muir Vegetation Classification Scheme

VEGETATION CLASSIFICATION TO BE USED IN WHEATBELT SURVEY

LIFE FORM/HEIGHT CLASS		CANOPY COVER			
		DENSE d 70-100%	MID-DENSE c 30-70%	SPARSE i 10-30%	VERY SPARSE r 2-10%
T	Trees >30m	Dense Tall Forest	Tall Forest	Tall Woodland	Open Tall Woodland
M	Trees 15-30m	Dense Forest	Forest	Woodland	Open Woodland
LA	Trees 5-15m	Dense Low Forest A	Low Forest A	Low Woodland A	Open Low Woodland A
LB	Trees <5m	Dense Low Forest B	Low Forest B	Low Woodland B	Open Low Woodland B
KT	Mallee tree form	Dense Tree Mallee	Tree Mallee	Open Tree Mallee	Very Open Tree Mallee
KS	Mallee shrub form	Dense Shrub Mallee	Shrub Mallee	Open Shrub Mallee	Very Open Shrub Mallee
S	Shrubs >2m	Dense Thicket	Thicket	Scrub	Open Scrub
SA	Shrubs 1.5-2.0m	Dense Heath A	Heath A	Low Scrub A	Open Low Scrub A
SB	Shrubs 1.0-1.5m	Dense Heath B	Heath B	Low Scrub B	Open Low Scrub B
SC	Shrubs 0.5-1.0m	Dense Low Heath C	Low Heath C	Dwarf Scrub C	Open Dwarf Scrub C
SD	Shrubs 0.0-0.5m	Dense Low Heath D	Low Heath D	Dwarf Scrub D	Open Dwarf Scrub D
P	Mat plants	Dense Mat Plants	Mat Plants	Open Mat Plants	Very Open Mat Plants
H	Hummock Grass	Dense Hummock Grass	Mid-Dense Hummock Grass	Hummock Grass	Open Hummock Grass
GT	Bunch grass >0.5m	Dense Tall Grass	Tall Grass	Open Tall Grass	Very Open Tall Grass
GL	Bunch grass <0.5m	Dense Low Grass	Low Grass	Open Low Grass	Very Open Low Grass
J	Herbaceous spp.	Dense Herbs	Herbs	Open Herbs	Very Open Herbs
VT	Sedges >0.5m	Dense Tall Sedges	Tall Sedges	Open Tall Sedges	Very Open Tall Sedges
VL	Sedges <0.5m	Dense Low Sedges	Low Sedges	Open Low Sedges	Very Open Low Sedges
X	Ferns	Dense Ferns	Ferns	Open Ferns	Very Open Ferns
	Mosses, Liverwort	Dense Mosses	Mosses	Open Mosses	Very Open Mosses

Appendix 5 List of Species Amalgamated

List of species which for various reasons it was thought appropriate to amalgamate for the analysis in PATN.
(The complete list is included in the file NSP-CROS.dbf)
The combination is reported in this study (& in file NSP-MAST.dbf) under the last mentioned name.

Carpobrotus edulis WITH C. virescens
Caesia alfordii, C, occidentalis WITH C. micrantha AS C. spp.
Dichopogon capillipes, D. preissii WITH D. sp. indet. AS D. sp. indet.
Thysanotus rectantherus WITH T. thyrsoideus
Tricoryne robusta, T. tenella WITH T. elatior
Millotia myosotidifolia WITH M. tenuifolia
Burchardia bairdiae WITH B. multiflora
Crassula exerta WITH C. colorata var. colorata
Caustis sp. aff. pentandra WITH C. dioica
Isolepis cernua, I. cyperoides, I. stellata WITH I. marginata AS I. spp.
Schoenus sp. aff. brevisetis WITH S. brevisetis
Schoenus armeria WITH S. globifer
Schoenus clandestinus WITH S. subflavus
Hibbertia rupicola WITH H. enervia
Hibbertia sp. (grey leaf) WITH H. hypericoides
Hibbertia helianthemoides, H. desmophylla, H. sp.3, H. sp.4L WITH H. pachyrrhiza
Drosera erythrorhiza ssp. collina, D. erythrorhiza ssp. magna WITH D. erythrorhiza ssp. erythrorhiza AS D. erythrorhiza
Drosera neesii ssp. borealis, D. radicans WITH D. heterophylla
Drosera echinoblastus, D. paleacea ssp. paleacea, D. parvula, D. pulchella, D. rehingeri WITH D. leucoblasta AS D. (pygmy)
Drosera pallida WITH D. macrantha ssp. macrantha
Drosera ramellosa WITH D. stolonifera ssp. humilis
Astroloma pallidum WITH A. microdonta
Leucopogon sp.5, L. sp. (lanceolate leaf) WITH L. oxycedrus
Leucopogon sp.*PO, L. oldfieldii, L. polymorphus WITH L. striatus
Monotaxis occidentalis WITH M. grandiflora
Dampiera alata WITH D. coronata
Conostylis teretifolia ssp. planescens WITH C. teretifolia ssp. teretifolia AS C. teretifolia
Haemodorum discolor, H. paniculatum WITH H. laxum
Tribonanthes longipetala, T. violacea WITH T. australis AS T. spp.
Cassytha racemosa var. pilosa WITH C. racemosa
Lobelia rhombifolia, L. tenuior, L. winfridae WITH L. heterophylla AS L. spp.
Eremaea beaufortioides ssp. loncophylla WITH E. beaufortioides
Kunzea limnicola WITH K. micrantha
Melaleuca sp.*5C WITH M. cordata
Micromyrtus sp. WITH M. rogeri
Scholtzia sp.*2I WITH S. involucrata
Scholtzia cf. parviflora (1) WITH S. parviflora
Verticordia densiflora var. cespitosa, V. densiflora var. stelluligera, V. densiflora var. roseostella WITH V. densiflora var. densiflora AS V. densiflora
Prasophyllum sp. indet., P. giganteum, P. sargentii WITH P. sp. indet.
Daviesia incrassata ssp. teres WITH D. incrassata ssp. incrassata AS D. incrassata
Gompholobium sp. Eneabba WITH G. aristatum
Jacksonia sp. aff. stricta WITH J. stricta
Sphaerolobium medium WITH S. macranthum var. macranthum
Billardiera bicolor var. lineata WITH B. bicolor var. bicolor AS B. bicolor
Aira caryophyllea WITH A. cupaniana
Avena fatua WITH A. barbata
Danthonia occidentalis, D. pilosa. D. setacea WITH D. caespitosa AS D. spp.
Stipa sp. indet., S. compressa, S. semibarbata, S. tenuifolia, S. trichophylla, S. variabilis WITH S. sp. indet. AS S. spp.
Anagallis arvensis var. arvensis, A. arvensis var. latifolia WITH A. arvensis var. caerulea
Conospermum borealis ssp. ascendens, C. borealis ssp. borealis, C. wycherleyi ssp. glabrum, C. wycherlyi ssp. sericeum, C. wycherlyi ssp. wycherlyi WITH C. spp.
Petrophile sp.*1B WITH P. brevifolia
Synaphea lesueurensis WITH S. sp. 38

Lepidibolus sp. indet., L. preissianus, WITH L. chaetocephalus AS L. spp.
Cryptandra spyridioides WITH C. myriantha ssp. myriantha
Boronia sp. Mt. Lesueur WITH B. ramosa ssp. anethifolia
Levenhookia leptantha, L. pauciflora, L. pusilla, L. stipitata WITH L. dubia
Stylidium diuroides var. albo-lilacinum, S. diuroides var. paucifoliatum WITH S. diuroides var. diuroides AS S. diuroides
Stylidium junceum ssp. brevius WITH S. junceum
Stylidium sp. (Eneabba) WITH S. repens
Xanthorrhoea sp. aff. preissii WITH X. drummondii

Appendix 6 Species List

List of vascular plant species reported from the Study Area. This includes data from the present study, data from various studies included in this report and records of the Western Australian Herbarium. As well as local speciealist, Marchant et. al. (1987), several volumes of Flora of Australia, Hnatiuk (1990), Hoffman and Brown (1992), Brooker and Kleinig (1990) and Lowrie (1987, 1989) were also consulted.

Species are organised in plant families following the order of Green (1985). Nomenclature follows Green, but takes into account recent revisions provided in supplements and recent literature.

Some manuscript names in use in the Western Australian Herbarium including ones foreshadowed in Brooker and Kleinig (1990) and Hoffman and Brown (1992) used in this report are indicated by "ms". For some other clearly undescribed taxa phrase names are used. Where appropriate, voucher specimens lodged at the Western Australian Herbarium are cited.

Certain distribution and other information is also provided:

First Column - species only on Margin of Study Area (see FIgure 1)
n - north of about Mingenew
e - east of Darling fault
b - south-east of Darling fault
s - south of about Gingin

Second Column - Declared Endangered Flora (R) and Priority Flora List Coding (numbers, K.J. Atkins 1994)

Third Column - Geographic Range:
1 less than 50km,
2 50 to 100km
range not determined, probably < 200 km.

Alien Species are indicated by * in front of the name.

MONOCOTYLEDONS

** 2 LYCOPODIACEAE
s . . Lycopodium serpentinum Kunze
. . Phylloglossum drummondii Kunze

** 3 SELAGINELLACEAE
. . Selaginella gracillima (Kunze)Alston

** 4 ISOETACEAE
. . Isoetes drummondii A.Braun

** 5 OPHIOGLOSSACEAE
. . Ophioglossum lusitanicum L.

** 6 SCHIZEACEAE
. . Schizaea dichotoma (L.)Smith
. . Schizaea fistulosa L.

** 7 ADIANTACEAE
. . Anogramma leptophylla (L.)Link
. . Cheilanthes austrotenuifolia H.Quirk & T.C.Chambers
e . . Cheilanthes distans (R.Br.)Mett.

** 8 PTERIDACEAE
s . . Pteris vittata L.

** 11A CYATHEACEAE
. . * Sphaeropteris cooperi (Hook.ex F.Muell.)R.Tryon

** 11B THELYPTERIDACEAE
. . Cyclosorus interruptus (Willd.)H.Ito

** 11C DENNSTAEDTIACEAE
s . . Pteridium esculentum (G.Forster)Cockayne

** 11E ASPLENIACEAE
b . . Pleurosorus rutifolius (R.Br.)Fee

** 13 MARSILEAEAE
. . Marsilea drummondii A.Braun
. . Marsilea mutica Mett.

** 15 AZOLLACEAE
s . . Azolla filiculoides Lam.

** 16A ZAMIACEAE
. . Macrozamia riedlei (Fisch.ex Gaudich.)C.Gardner

** 18 CUPRESSACEAE
. . Actinostrobus acuminatus Parl.
. . Actinostrobus arenarius C.Gardner
. . Actinostrobus pyramidalis Miq.
. . Callitris canescens (Parl.)S.T.Blake
. . Callitris preissii Miq. ssp. preissii

** 20 TYPHACEAE
. . Typha domingensis Pers.
. . * Typha orientalis C.Presl

** 23 POTAMOGETONACEAE
. . Potamogeton drummondii Benth.
. . Potamogeton ochreatus Raoul
. . Potamogeton pectinatus L.
. . Ruppia megacarpa Mason
. . Ruppia polycarpa Mason
. . Ruppia tuberosa J.L.Davis & Toml.

** 24 NAJADACEAE
. . Najas marina L.

** 26 JUNCAGINACEAE
. . Triglochin calcitrapum Hook.
. . Triglochin centrocarpum Hook.
. . Triglochin minutissimum F.Muell.
. . Triglochin mucronatum R.Br.
. . Triglochin muelleri Buchenau
. . Triglochin procerum R.Br.
e 2 . Triglochin stowardii N.E.Br.
. . Triglochin striatum Ruiz Lopez & Pavon
. . Triglochin sp. aff. minutissima GJK 11008

** 29 HYDROCHARITACEAE
. . Ottelia ovalifolia (R.Br.)Rich.

** 31 POACEAE
. . Agrostis avenacea J.Gmelin
. . * Aira caryophyllea L.
. . * Aira cupaniana Guss.
s . . * Ammophila arenaria (L.)Link
. . Amphibromus neesii Steudel
s . . Amphipogon amphipogonoides (Stuedel)Vick.
e . . Amphipogon caricinus F.Muell.
. . Amphipogon debilis R.Br.
s . . Amphipogon laguroides R.Br.
. . Amphipogon strictus R.Br.
. . Amphipogon turbinatus R.Br.
e . . Aristida contorta F.Muell.
e . . Aristida holathera Domin
e . . Aristida holathera Domin var. holathera
. . * Avena abyssinica Hochst.
. . * Avena barbata Link
. . * Avena fatua L.
. . * Avena sativa L.
. . * Brachypodium distachyon (L.)P.Beauv.
. . * Briza maxima L.
. . * Briza minor L.
. . Bromus arenarius Labill.
. . * Bromus diandrus Roth.
s . . * Bromus hordeaceus L.
. . * Bromus madritensis L.
. . * Bromus rubens L.
. . * Cenchrus ciliaris L.
e . . * Cenchrus echinatus L.
s . . * Chloris gayana Kunth
e . . Chloris pumilio R.Br.
e . . * Chloris truncata R.Br.
s . . * Chloris virgata Sw.
e . . Cymbopogon ambiguus A.Camus
b . . Cymbopogon obtectus S.T.Blake
. . * Cynodon dactylon (L.)Pers.
s . . * Dactylis glomerata L.
s . . Dactyloctenium radulans (R.Br.)P.Beauv.
. . Danthonia caespitosa Gaudich.
. . Danthonia occidentalis Vick.
. . * Desmazeria rigida (L.)Tutin
s . . Deyeuxia quadriseta Benth.
. . Dichelachne crinita (L.f.)J.D.Hook.
s . . Digitaria divaricatissima Hughes
. . * Ehrharta brevifolia Schrader
s . . * Ehrharta brevifolia Schrader var. cuspidata Nees
. . * Ehrharta calycina Smith
. . * Ehrharta longiflora Smith
. . * Ehrharta villosa J.H.Schultes ex Schultes & J.H.Schultes
. . * Eleusine indica (L.)Gaertner
. . Eragrostis australasica (Steudel)C.E.Hubb.
. . * Eragrostis curvula (Schrader)Nees
e . . Eragrostis dielsii Pilger ex Diels & Pritzel
s . . Eragrostis elongata (Willd.)J.F.Jacq.
. . Eriachne ovata Nees
n . . Eulalia aurea (Bory)Kunth
. . * Festuca rubra L.
. . * Festulolium loliaceum (Hudson)P.Fourn.
s . . * Glyceria maxima (Hartman)O.Holm.
. . Hemarthria uncinata R.Br.
s . . Hemarthria uncinata R.Br. var. uncinata
s . . * Holcus lanatus L.
s . . * Hordeum glaucum Steudel
. . * Hordeum leporinum Link
. . * Hordeum vulgare L.
. . * Hyparrhenia hirta (L.)Stapf
. . * Lagurus ovatus L.
e . . * Lamarckia aurea (L.)Moench
. . * Lolium perenne L.
. . * Lolium rigidum Gaudin
. . * Lolium temulentum L.
. . * Lolium temulentum L. forma temulentum
n . . * Lophochloa pumila (L.)Desv.
. . Microlaena stipoides (Labill.)R.Br.
. . Neurachne alopecuroidea R.Br.
e . . * Panicum antidotale Retz.
n . . Panicum decompositum R.Br.
e . . Paractaenum novae-hollandiae P.Beauv.
. . * Parapholis invurva (L.)C.E.Hubb.
e . . Paspalidium basicladum Hughes
. . * Paspalum dilatatum Poiret

Poaceae (Continued)
s . . * Paspalum distichum L.
s . . * Paspalum urvillei Steudel
. . * Pennisetum setaceum (Forsskal)Chiov.
. . * Pennisetum villosum R.Br.ex Fresen.
. . * Pentaschistis airoides (Nees)Stapf
e . . * Periballia minuta (L.)Asch.& Graebner
b . . * Phalaris aquatica L.
. . * Phalaris canariensis L.
. . * Phalaris minor Retz.
. . Plectrachne danthonioides (F.Muell.)C.E.Hubb.
. . Plectrachne drummondii C.E.Hubb.
. . * Poa annua L.
. . Poa drummondiana Nees
. . Poa poiformis (Labill.)Druce
s . . Poa porphyroclados Nees
. . Poa serpentum Nees
. . * Polypogon monspeliensis (L.)Desf.
. . Polypogon tenellus R.Br.
. . Puccinellia stricta (J.D.Hook.)C.Blom
. . * Setaria verticillata (L.)P.Beauv.
. . Spinifex hirsutus Labill.
. . Spinifex longifolius R.Br.
. . Sporobolus virginicus (L.)Kunth var. australis
. . * Stenotaphrum secundatum (Walter)Kuntze
b . . Stipa campylachne Nees
. . Stipa compressa R.Br.
e . . Stipa drummondii Steudel
. . Stipa elegantissima Labill.
. . Stipa flavescens Labill.
e . . Stipa hemipogon Benth.
. . Stipa macalpinei Reader
. . Stipa mollis R.Br.
. . Stipa pycnostachya Benth.
s . . Stipa semibarbata R.Br.
. . Stipa tenuifolia Steudel
. . Stipa trichophylla Benth.
. . Stipa variabilis Hughes
s . . Themeda australis (R.Br.)Stapf
e . . Triodia scariosa N.Burb.
. . * Trisetaria cristata (L.)Kerguelen
s . . * Triticum aestivum L.
s . . * Urochloa mutica (Forsskal)Nguyen
. . * Vulpia bromoides (L.)Gray
. . * Vulpia myuros (L.)C.Gmelin var. hirsuta Hack.

** 32 CYPERACEAE
. . Baumea acuta (Labill.)Pala
s . . Baumea arthrophylla (Nees)Boechler
s . . Baumea articulata (R.Br.)S.T.Blake
. . Baumea juncea (R.Br.)Palla
. . Baumea preissii Nees
. . Baumea riparia (Nees)Boeckler
. . Baumea rubiginosa (Sprengel)Boeckler
. . Bolboschoenus caldwellii (V.Cook)Sojak
s . . Carex appressa R.Br.
s . . Carex fascicularis Sol.ex Boott
. . Carex preissii Nees
. . Caustis dioica R.Br.
2 1 Caustis gigas Meney & Dixon ms ASG 9318
. . Caustis sp. aff. pentagona
. . Chorizandra enodis Nees
n . . Chrysitrix distigmatosa C.B.Clarke
. . Cyathochaeta avenacea Benth.
n . . Cyperus alterniflorus R.Br.
. . * Cyperus congestus M.Vahl
. . Cyperus gymnocaulos Steudel
. . * Cyperus rotundus L.
. . * Cyperus tenellus L.f.
. . * Cyperus tenuiflorus Rottb.
. . Eleocharis acuta R.Br.
1 . Eleocharis sp. Kenwick GJK 5180
. . Gahnia decomposita (R.Br.)Benth.
. . Gahnia drummondii (Stuedel)K.L.Wilson
. . Gahnia lanigera (R.Br.)Benth.
. . Gahnia trifida Labill.
. . Isolepis cernua (M.Vahl)Roemer
. . Isolepis congestus
. . Isolepis cyperoides R.Br.
. . Isolepis cyperoides R.Br.
. . Isolepis marginata (Thunb.)A.Dietr.
. . Isolepis nodosa (Rottb.)R.Br.
. . Isolepis oldfieldiana (S.T.Blake)K.L.Wilson
s . . Isolepis producta (C.B.Clarke)K.L.Wilson
. . Isolepis setiformis (S.T.Blake)K.L.Wilson
. . Isolepis stellata (C.B.Clarke)K.L.Wilson
. . Lepidosperma angustatum R.Br. sensu lat
. . Lepidosperma carphoides F.Muell.ex Benth.
e . . Lepidosperma costale Nees
. . Lepidosperma drummondii Benth.
. . Lepidosperma effusum Benth.
. . Lepidosperma gladiatum Labill.
. . Lepidosperma leptophyllum Benth.
. . Lepidosperma longitudinale Labill.
. . Lepidosperma resinosum (Nees)Benth.
. . Lepidosperma scabrum Nees
. . Lepidosperma squamatum Labill.
. . Lepidosperma tenue Benth.
. . Lepidosperma tuberculatum Nees
. . Lepidosperma viscidum R.Br.
. . Lepidosperma sp. P1 Small Head (M.D.Tindale 166a)
. . Lepidosperma sp. E. (Perth Flora)
. . Lepidosperma sp. F. (Perth Flora)
. . Mesomelaena graciliceps (C.B.Clarke)K.L.Wilson
. . Mesomelaena preissii Nees
. . Mesomelaena pseudostygia (Kuek.)K.L.Wilson
e . . Mesomelaena stygia (R.Br.)Nees ssp. stygia
2 2 Mesomelaena stygia (R.Br.)Nees ssp. deflexa (Kuek.)K.L.Wilson
. . Mesomelaena tetragona (R.Br.)Benth.
s . . Schoenoplectus validus (M.Vahl)A.Love & D.Love
1 . Schoenus andrewsii W.Fitzg.
. . Schoenus armeria Boeckler
s . . Schoenus asperocarpus F.Muell.
e 3 . Schoenus benthamii F.Muell.
s . . Schoenus bifidus (Nees)Boechler
. . Schoenus brevisetis (R.Br.)Benth.
. . Schoenus caespititius W.Fitzg.
. . Schoenus clandestinus S.T.Blake
. . Schoenus curvifolius (R.Br.)Benth.
b . . Schoenus fluitans J.D.Hook.
. . Schoenus globifer Nees

Cyperaceae (Continued)

. . Schoenus grammatophyllus F.Muell.
. . Schoenus grandiflorus (Nees)F.Muell.
. . Schoenus hexandrus F.Muell.ex Tate
. . Schoenus humilis Benth.
. . Schoenus lanatus Labill.
. . Schoenus latitans S.T.Blake
. . Schoenus nanus (Nees)Benth.
R . Schoenus natans (F.Muell.)Benth.
. . Schoenus nitens (R.Br.)Poiret
. . Schoenus obtusifolius (Nees)Boeckler
. . Schoenus odontocarpus F.Muell.
. . Schoenus pedicellatus (R.Br.)Benth.
1 . Schoenus pennisetis S.T.Blake
. . Schoenus pleiostemoneus F.Muell.
. . Schoenus rigens S.T.Blake
. . Schoenus rodwayanus W.Fitzg.
e . . Schoenus sesquispiculus C.B.Clarke
. . Schoenus subbarbatus Kuek.
. . Schoenus subbulbosus Benth.
. . Schoenus subfascicularis Kuek.
. . Schoenus subflavus Kuek.
. . Schoenus unispiculatus F.Muell.ex Benth.
. . Schoenus sp. G Broad Sheath (K.L.Wilson 2633)
. . Schoenus sp. aff. pleistemoneus EAG 1991
b . . Schoenus sp. EAG 6183
. . Schoenus sp. aff. humilis GJK 2481
2 1 Schoenus sp. Warradagee aff. indutus EAG 3842
2 . Schoenus sp. Wongan aff. obtusifolius EAG 3841
. . Schoenus sp. aff. brevisetis (R.Br.)Benth. EAG 1911
. . Tetraria capillaris (F.Muell.)J.Black
. . Tetraria microcarpa S.T.Blake
. . Tetraria octandra (Nees)Kuek.
. . Tricostularia neesii Lehm. var. neesii

** 35 ARACEAE
. . * *Zantedeschia aethiopica* (L.)Sprengel

** 36 LEMNACEAE
s . . Lemna disperma Hegelm.
s . . Spirodela punctata (G.Meyer)C.Thompson

** 39 RESTIONACEAE
. . Alexgeorgea nitens (Nees)L.Johnson & B.Brigg
. . Alexgeorgea subterranea Carlq.
. . Anarthria gracilis R.Br.
. . Anarthria humilis Nees
. . Anarthria laevis R.Br.
. . Anarthria polyphylla Nees
. . Anarthria prolifera R.Br.
. . Anarthria aff. polyphylla ?
. # Catocolea enodis L.Johnson & B.Briggs ms
. 1 Ecdeiocolea georgei L.Johnson & B.Briggs ms EAG 2157
. . Ecdeiocolea monostachya F.Muell.
s . . Empodisma gracillimum (F.Muell.)L.Johnson & Cutler
. . Harperia lateriflora W.Fitzg.
. . Hopkinsia anaectocolea (F.Muell.)Cutler
. . Hypolaena exsulca R.Br.
. . Lepidobolus chaetocephalus F.Muell.
3 1 Lepidobolus densus L.Johnson & B.Briggs ms B Briggs 7770
. . Lepidobolus pendulus L.Johnson & B.Briggs ms EAG 4698
. . Lepidobolus preissianus Nees
3 2 Lepidobolus quadratus L.Johnson & B.Briggs ms EAG 2093
. . Leptocarpus aristatus R.Br.
. . Leptocarpus canus Lindley & Nees
. . Leptocarpus coangustatus Nees
. . Leptocarpus scariosus R.Br.
s . . Lepyrodia glauca (Nees)F.Muell.
. . Lepyrodia macra Nees
. . Lepyrodia muirii F.Muell.
. . Loxocarya aspera (Nees)Briggs & Johnson ms
. # Loxocarya biformis L.Johnson & B.Briggs ms
. . Loxocarya castanea L.Johnson & B.Briggs ms
. . Loxocarya cinerea R.Br.
3 2 Loxocarya elongata L.Johnson & B.Briggs ms B Briggs 6319
. . Loxocarya fasciculata (R.Br.)Benth.
. . Loxocarya flexuosa (R.Br.)Benth.
. # Loxocarya lateritica L.Johnson & B.Briggs ms
. . Loxocarya myrioclada L.Johnson & B.Briggs ms
. . Loxocarya parthenica L.Johnson & B.Briggs ms EAG 5230
. . Loxocarya pubescens (R.Br.)Benth.
. 2 Loxocarya semiplana L.Johnson & B.Briggs ms EAG 5268
. . Lyginia barbata R.Br.
. . Onychosepalum laxiflorum Steudel
. # Onychosepalum sp. Cataby
R . Restio chaunocoleus L.Johnson & B.Briggs ms
3 1 Restio gigas L.Johnson & B.Briggs ms B Briggs 7738
s . . Restio leptocarpoides Benth.
e . . Restio megalotheca F.Muell.
. 2 Restio microcodon L.Johnson & B.Briggs ms B Briggs 850
. . Restio sinuosus L.Johnson & B.Briggs ms B Briggs 6308
1 1 Restio stenandra L.Johnson & B.Briggs ms B Briggs 7473 & L Johnson
. . Restio stenostachyus W.Fitzg.
. . Restio striatus L.Johnson & B.Briggs ms

** 40 CENTROLEPIDACEAE
. . Aphelia brizula F.Muell.
. . Aphelia cyperoides R.Br.
. . Aphelia drummondii (Hieron.)Benth.
. . Aphelia nutans J.D.Hook.ex Benth.
. . Centrolepis alepyroides (Nees)Walp.
. . Centrolepis aristata (R.Br.)Roemer & Schultes
. . Centrolepis drummondiana (Nees)Walp.
e . . Centrolepis eremica D.A.Cooke
. . Centrolepis glabra (F.Muell.ex Sonder)Hieron
. . Centrolepis humillima F.Muell.ex Benth.
. . Centrolepis inconspicua W.Fitzg.
. . Centrolepis pilosa Heiron.
. . Centrolepis polygyna (R.Br.)Hieron

** 40A HYDATELLACEAE
. . Trithuria bibracteata D.A.Cooke

** 47 COMMELINACEAE
s 3 . Cartonema philydroides F.Muell.

** 50 PHILYDREACEAE
s . . Philydrella drummondii L.Adams
. . Philydrella pygmaea (R.Br.)Caruel ssp. pygmaea

** 52 JUNCACEAE
. . * Juncus acutus L.
. . * Juncus bufonius L.
. . * Juncus capitatus Weigel
s . . Juncus holoschoenus R.Br.
. . Juncus kraussii Hochst.
. . Juncus pallidus R.Br.
s . . Juncus planifolius R.Br.
. . Juncus sp. aff. bufonius BJK 737
s . . Luzula meridionalis Nordensk.

** 54C DASYPOGONACEAE
. . Acanthocarpus canaliculatus George
. . Acanthocarpus preissii Lehm.
n . . Acanthocarpus robustus George
R . Calectasia arnoldii ms
. . Calectasia cyanea R.Br.
. . Calectasia grandiflora Preiss
. . Chamaexeros serra (Endl.)Benth.
. . Dasypogon bromeliifolius R.Br.
. 2 Dasypogon obliquifolius Lehm.ex Nees
. . Kingia australis R.Br.
. . Lomandra brittanii T.S.Choo
. . Lomandra caespitosa (Benth.)Ewart
. . Lomandra collina (R.Br.)Ewart
. . Lomandra drummondii (F.Muell.ex Benth)Ewart
. . Lomandra effusa (Lindley)Ewart
. . Lomandra hastilis (R.Br.)Ewart
. . Lomandra hermaphrodita (C.P.R.Andrews) C.Gardner
. . Lomandra maritima T.S.Choo
. . Lomandra micrantha (Endl.)Ewart ssp. micrantha
. . Lomandra micrantha (Endl.)Ewart ssp. teretifolia Everatt
s . . Lomandra nigricans T.D.Macfarlane
s . . Lomandra odora (Endl.)Ewart
. . Lomandra preissii (Endl.)Ewart
b . . Lomandra purpurea (Endl.)Ewart
. . Lomandra sericea (Endl.)Ewart
. . Lomandra sonderi (F.Muell.)Ewart
b . . Lomandra spartea (Endl.)Ewart
. . Lomandra suaveolens (Endl.)Ewart

** 54D XANTHORRHOEACEAE
. . Xanthorrhoea acanthostachya Bedford
s . . Xanthorrhoea brunonis Endl. ssp.
b . . Xanthorrhoea drummondii Harvey
b . . Xanthorrhoea gracilis Endl.
. . Xanthorrhoea preissii Endl.
. . Xanthorrhoea sp. aff. drummondii
. . Xanthorrhoea sp. aff. preissii

** 54E PHORMIACEAE
. . Dianella revoluta R.Br. var. divaricata (R.Br.) R.Henderson
. . Stypandra glauca R.Br.

** 54F ANTHERICACEAE
s . . Agrostocrinum scabrum (R.Br.)Baillon
e 2 . Arnocrinum drummondii Endl.
1 1 Arnocrinum gracillimum Keighery
. . Arnocrinum preissii Lehm.ex Endl.
. . Arthropodium curvipes S.Moore
n . . Arthropodium dyeri (Domin)Brittan
. . Arthropodium preissii Endl.
. . Borya constricta Churchill
. . Borya laciniata Churchill
. . Borya scirpoidea Lindley
. . Borya sphaerocephala R.Br.
. . Caesia alfordii Keighery ms
. . Caesia alfordii Keighery ms
. . Caesia micrantha Lindley
. . Caesia occidentalis R.Br.
b . . Chamaescilla corymbosa (R.Br.)F.Muell.ex Benth. var. corymbosa
. . Chamaescilla corymbosa (R.Br.)F.Muell.ex Benth. var. latifolia (F.Muell.)R.Henderson
. . Chamaescilla spiralis (Lindley)Ostenf.
. . Corynotheca micrantha (Lindley)J.F.Macbr. var. acanthoclada (F.Muell.)R.Henderson
. . Corynotheca micrantha (Lindley)J.F.Macbr. var. elongata R.Henderson
. . Corynotheca micrantha (Lindley)J.F.Macbr. var. micrantha
s . . Dichopogon capillipes (Endl.)Brittan
. . Dichopogon preissii (Endl.)Brittan
R 1 Hensmania chapmanii Keighery
2 2 Hensmania stoniella Keighery
. . Hensmania turbinata (Endl.)W.Fitzg.
b 1 . Johnsonia inconspicua Keighery
. . Johnsonia pubescens Lindley
b . . Laxmannia grandiflora Lindley ssp. grandiflora
. . Laxmannia omnifertilis Keighery
e . . Laxmannia paleacea F.Muell.
. . Laxmannia ramosa Lindley ssp. ramosa
. . Laxmannia sessiliflora Decne. ssp. australis Keighery
. . Laxmannia sessiliflora Decne. ssp. drummondii Keighery
. . Laxmannia sessiliflora Decne. ssp. sessiliflora
. . Laxmannia squarrosa Lindley
. . Sowerbaea laxiflora Lindley
R 1 Stawellia dimorphantha F.Muell.
3 . Thysanotus anceps Lindley
. . Thysanotus arbuscula Baker
. . Thysanotus arenarius Brittan
. . Thysanotus asper Lindley
. . Thysanotus dichotomus (Labill.)R.Br.
. . Thysanotus glaucifolius N.H.Brittan
4 . Thysanotus glaucus Endl.
. . Thysanotus manglesianus Kunth
. . Thysanotus multiflorus R.Br.
. . Thysanotus patersonii R.Br.
n . . Thysanotus pyramidalis Brittan

Anthericaceae (Continued)
. . Thysanotus rectantherus Brittan
. . Thysanotus sparteus R.Br.
. 2 Thysanotus spiniger Brittan
. . Thysanotus tenellus Endl.
. . Thysanotus teretifolius N.H.Brittan
. . Thysanotus thyrsoideus Baker
. . Thysanotus triandrus (Labill.)R.Br.
1 1 Thysanotus vernalis Brittan
2 1 Thysanotus sp. Badgingarra aff. sparteus EAG 2511
n . . Tricoryne arenicola Keighery ms
n . . Tricoryne corynothecoides Keighery ms
. . Tricoryne elatior R.Br.
2 . Tricoryne robusta Keighery ms BJK 533
. . Tricoryne tenella R.Br.
. 2 Tricoryne sp. aff. tenella EAG 1451
n . . Tricoryne sp. aff. humilis EAG 7628

** 54G ASPHODELACEAE
s . . * Asphodelus fistulosus L.
. . Bulbine semibarbata (R.Br.)Haw.
. . * Trachyandra divaricata (Jacq.)Kunth

** 54J COLCHICACEAE
s . . * Baeometra uniflora (Jacq.)G.Lewis
. . Burchardia bairdiae Keighery
. . Burchardia multiflora Lindley
. . Burchardia umbellata R.Br.
n . . Wurmbea densiflora (Benth.)T.D.McFarlane
. . Wurmbea dilatata T.D.Macfarlane
. . Wurmbea dioica (R.Br.)F.Muell. ssp. alba T.D.Macfarlane
b 4 . Wurmbea drummondii Benth.
. . Wurmbea monantha (Endl.)T.D.MacFarlane
. . Wurmbea odorata T.D.McFarlane
. . Wurmbea pygmaea (Endl.)Benth.
n . . Wurmbea tenella (Endl.)Benth.
n R # Wurmbea tubulosa Benth.

** 55 HAEMORODACEAE
b . . Anigozanthos bicolor Endl. ssp. bicolor
R 1 Anigozanthos humilis Lindley ssp. chrysanthus Hopper
2 2 Anigozanthos humilis Lindley ssp. grandis Hopper ms SDH sn
. . Anigozanthos humilis Lindley ssp. humilis
. . Anigozanthos manglesii D.Don ssp. manglesii
. . Anigozanthos manglesii D.Don ssp. quadrans Hopper
. . Anigozanthos pulcherrimus Hook.
. # Anigozanthos viridis Endl. ssp. metallica Hopper ms
R 1 Anigozanthos viridis Endl. ssp. terraspectans Hopper
. . Anigozanthos viridis Endl. ssp. viridis
. . Blancoa canescens Lindley
. . Conostylis aculeata R.Br. ssp. aculeata
. 2 Conostylis aculeata R.Br. ssp. breviflora Hopper
. . Conostylis aculeata R.Br. ssp. bromelioides (Endl.)J.W.Green
s . 1 Conostylis aculeata R.Br. ssp. cygnorum Hopper
. # Conostylis aculeata R.Br. ssp. preissii (Endl.) J.W.Green
n . # Conostylis aculeata R.Br. ssp. rhipidion
. 2 Conostylis aculeata R.Br. ssp. spinuligera (F.Muell.ex Benth)S.D.Hopper
. . Conostylis androstemma F.Muell.
. 2 Conostylis angustifolia Hopper
. . Conostylis aurea Lindley
s . 1 Conostylis bracteata Lindley
. . Conostylis candicans Endl. ssp. calcicola Hopper
. . Conostylis candicans Endl. ssp. candicans
n . # Conostylis candicans Endl. ssp. procumbens Hopper
. 2 Conostylis canteriata Hopper
b . . Conostylis caricina Lindley ssp. caricina
e . # Conostylis caricina Lindley ssp. elachys Hopper
. . Conostylis crassinerva J.W.Green ssp. absens Hopper
. 2 Conostylis crassinerva J.W.Green ssp. crassinerva
. 2 Conostylis dielsii W.Fitzg. ssp. dielsii
n 1 # Conostylis dielsii W.Fitzg. ssp. teres Hopper
. . Conostylis festucacea Endl. ssp. festucacea
. 1 Conostylis festucacea Endl. ssp. filifolia (F.Muell.)S.D.Hopper
. . Conostylis hiemalis Hopper
. . Conostylis juncea Endl.
. . Conostylis latens Hopper
n R # Conostylis micrantha Hopper
. 2 Conostylis neocymosa Hopper
1 2 Conostylis pauciflora Hopper ssp. euryrhipis Hopper
. . Conostylis prolifera Benth.
. . Conostylis resinosa Hopper
n . # Conostylis robusta Diels
. 1 Conostylis seminuda Hopper
. # Conostylis serrulata R.Br. ssp. nova large
. . Conostylis setigera R.Br. ssp. setigera
b . 2 Conostylis setosa Lindley
. # Conostylis teretifolia J.W.Green ssp. planescens Hopper
. . Conostylis teretifolia J.W.Green ssp. teretifolia
. . Conostylis teretiuscula F.Muell.
. 1 Conostylis tomentosa Hopper
. . Haemodorum brevisepalum Benth.
. . Haemodorum discolor T.D.McFarlane
. . Haemodorum laxum R.Br.
3 . Haemodorum loratum T.D.Macfarlane
. . Haemodorum paniculatum Lindley
. . Haemodorum simplex Lindley
. . Haemodorum simulans F.Muell.
b . . Haemodorum sparsiflorum F.Muell.
. . Haemodorum spicatum R.Br.
. 2 Haemodorum venosum T.D.Macfarlane
. . Macropidia fuliginosa (Hook.)Druce
. . Phlebocarya ciliata R.Br.
. . Phlebocarya filifolia (F.Muell.)Benth.
3 2 Phlebocarya pilosissima (F.Muell.)Benth. ssp. pilosissima
1 1 Phlebocarya pilosissima (F.Muell.)Benth. ssp. teretifolia T.D.Macfarlane
. . Tribonanthes australis Endl.
b . . Tribonanthes longipetala Lindley

Haemodoraceae (Continued)
. . Tribonanthes violacea Endl.

** 56A HYPOXIDACEAE
n . . Hypoxis glabella R.Br. var. leptantha (Benth.) R.Henderson
. . Hypoxis occidentalis Benth. var. occidentalis

** 59 DIOSCOREACEAE
. . Dioscorea hastifolia Endl.

** 60 IRIDACEAE
s . . * Babiana stricta (Aiton)Ker Gawler
b . . * Freesia leichtlinii Klatt
. . * Gladiolus caryophyllaceus (Burm.f)Poiret
s . . * Gladiolus undulatus L.
e . . * Gynandriris setifolia (L.f.)R.Forster
s . . * Hesperantha falcata (L.f.)Ker Gawler
b . . * Hexaglottis lewisiae Goldblatt
s . . * Homeria flaccida Sweet
. . * Homeria miniata (Andrews)Sweet
b . . Orthrosanthus laxus (Endl.)Benth. var. gramineus (Endl.)Geer.
. . Orthrosanthus laxus (Endl.)Benth. var. laxus
3 1 Patersonia argyrea D.A.Cooke
. . Patersonia drummondii (F.Muell.)Benth. ssp. drummondii
. . Patersonia graminea Benth.
. . Patersonia juncea Lindley
. . Patersonia occidentalis R.Br.
b . . Patersonia rudis Endl. ssp. rudis
2 1 Patersonia spirafolia Keighery GJK 10409
. . Patersonia sp. aff. occidentalis EAG 5448
. . Patersonia sp. aff. umbrosa Endl.
s . . * Romulea obscura Klatt
. . * Romulea rosea (L.)Ecklon var. australis (Ewart) De Vos
s . . * Romulea rosea (L.)Ecklon var. communis De Vos
. . * Watsonia bulbillifera J.Mathews & L.Bolus
. . * Watsonia meriana (L.)Miller

** 66 ORCHIDACEAE
. . Burnettia nigricans (R.Br.)Hopper & A.P.Brown
. . Caladenia arenicola Hopper & A.P.Brown ms
b 4 . Caladenia arrecta Hopper & A.P.Brown ms Hopper 3990
. . Caladenia bicalliata R.Rogers
. . Caladenia cairnsiana F.Muell.
. 2 Caladenia crebra George
. . Caladenia denticulata Lindley ssp. denticulata
. . Caladenia discoidea Lindley
e . . Caladenia doutchiae O.Sarg.
. . Caladenia flava R.Br. ssp. flava
. . Caladenia flava R.Br. ssp. maculata Hopper & A.P.Brown ms
. . Caladenia footeana Hopper & A.P.Brown ms AP Brown 198 & Sv Leeuwen
s . . Caladenia georgei Hopper & A.P.Brown ms
. . Caladenia hirta Lindley ssp. hirta
s R . Caladenia huegelii H.G.Reichb.
. . Caladenia latifolia R.Br.
. . Caladenia longicauda Lindley ssp. albella Hopper & A.P.Brown ms F.W.Went 181
. . Caladenia longicauda Lindley ssp. albella Hopper & A.P.Brown ms
. . Caladenia longicauda Lindley ssp. borealis Hopper & A.P.Brown ms
1 . Caladenia longicauda Lindley ssp. calcigena Hopper & A.P.Brown ms SDH sn
b . . Caladenia longicauda Lindley ssp. eminens Hopper & A.P.Brown ms
. . Caladenia longicauda Lindley ssp. longicauda
. . Caladenia longicauda # lorea
. . Caladenia lorea Hopper & A.P.Brown ms AP Brown 197 & Sv Leeuwen
. 2 Caladenia lorea Hopper & A.P.Brown ms
s . . Caladenia macrostylis W.Fitzg.
. . Caladenia marginata Lindley
e . . Caladenia pachychila Hopper & A.P.Brown
. . Caladenia paludosa Hopper & A.P.Brown ms
. . Caladenia pectinata R.Rogers
. . Caladenia radialis R.Rogers
s . . Caladenia reptans Lindley ssp. reptans
e . . Caladenia roei Benth.
b . . Caladenia saccharata H.G.Reichb.
b . . Caladenia splendens Hopper & A.P.Brown
. . Caladenia varians Hopper & A.P.Brown ssp. hiemalis Hopper & A.P.Brown ms Sv Leeuwen 99
. . Caladenia varians Hopper & A.P.Brown ssp. hiemalis Hopper & A.P.Brown ms
. . Caladenia varians Hopper & A.P.Brown ssp. nobilis Hopper & A.P.Brown ms
b . . Caladenia varians Hopper & A.P.Brown ssp. talbotii Hopper & A.P.Brown ms
s . # Caladenia varians Hopper & A.P.Brown ssp. vanleewenii Hopper & A.P.Brown ms
. . Caladenia varians Hopper & A.P.Brown ssp. varians ms
. . Caladenia variegata Hopper & A.P.Brown ms
b . . Caladenia xantha Hopper & A.P.Brown ms R.J.Cranfield 4131
. . Corybas abditus D.L.Jones
s . . Corybas recurvus D.Jones
. . Cyanicula deformis (R.Br.)Hopper & A.P.Brown
. . Cyanicula gemmata (Lindley)Hopper & A.P.Brown
b 4 . Cyanicula ixioides (Lindley)Hopper & A.P.Brown ssp. candida Hopper & A.P.Brown ms
4 . Cyanicula ixioides (Lindley)Hopper & A.P.Brown ssp. ixioides T.Maddocks sn
. . Cyanicula sericea (Lindley)Hopper & A.P.Brown
. . Cyrtostylis huegelii Endl.
s . . Cyrtostylis robusta (reniformis) D.Jones & M.Clements
. . Diuris brumalis D.Jones
. . Diuris corymbosa Lindley
. . Diuris laxiflora Lindley
. . Diuris longifolia R.Br.
. . Diuris magnifica D.Jones
. . Diuris picta J.Drummond
e R . Diuris recurva D.Jones

Orchidaceae (Continued)

. . Diuris setacea R.Br.
1 1 Diuris sp. Three Springs K.W.Dixon 924
R . Drakaea elastica Lindley
. . Drakaea glyptodon W.Fitzg.
. . Drakea livida J.Drummond
. . Elythranthera brunonis (Endl.)George
. . Elythranthera emarginata (Lindley)George
. . Epiblema grandiflorum R.Br. var. grandiflorum
. . Eriochilus dilatatus Lindley ssp. dilatatus
. . Eriochilus dilatatus Lindley ssp. multiflorus (Lindley)Hopper & A.P.Brown ms
. . Eriochilus helonomos Hopper & A.P.Brown ms
. . Eriochilus scaber Lindley ssp. scaber
s . . Eriochilus tenuis Lindley
. . Leporella fimbriata (Lindley)George
. . Leptoceras menziesii (R.Br.)Lindley
. . Microtis alba R.Br.
. . Microtis atrata Lindley
. . Microtis media R.Br. ssp. densiflora (Benth.) R.Bates
. . Microtis media R.Br. ssp. media
. . Microtis orbicularis R.Rogers
. . * Monadenia bracteata (Sw.)T.Durand & Schinz
R 1 Paracalaena dixonii S.D.Hopper & A.P.Brown ms EAG 2625
. . Paracaleana nigrita (J.Drummond ex.Lindley) Blaxell
s . . Prasophyllum brownii H.G.Reichb.
. . Prasophyllum calcicola R.Bates
. . Prasophyllum cyphochilum Benth.
. . Prasophyllum drummondii H.G.Reichb.
. . Prasophyllum elatum R.Br.
. . Prasophyllum fimbria H.G.Reichb.
. . Prasophyllum giganteum Lindley
b . . Prasophyllum hians H.G.Reichb.
. . Prasophyllum macrostachyum R.Br. var. macrostachyum
. . Prasophyllum ovale Lindley var. triglochin H.G.Reichb.
. . Prasophyllum parvifolium Lindley
. . Prasophyllum plumaeforme W.Fitzg.
e . . Prasophyllum ringens (H.G.Riehb.)R.Bates
. . Prasophyllum sargentii (Nichols)George
. . Pterostylis aspera D.Jones & M.Clements
s . . Pterostylis brevisepala D.Jones ms
. . Pterostylis dilatata George
e . . Pterostylis picta M.Clements
. . Pterostylis pyramidalis Lindley
. . Pterostylis recurva Benth.
. . Pterostylis sanguinea D.Jones
. . Pterostylis scabra Lindley var. scabra
s . . Pterostylis spathulata M.Clements
. . Pterostylis vittata Lindley
. . Pterostylis sp. aff. sanguinea D.Jones & M.Clements
. # Pterostylis sp. aff. vittata
. . Pterostylis spp. (3 or 4) aff. nana
. . Thelymitra antennifera (Lindley)J.D.Hook.
4 2 Thelymitra apiculata (George)M.Clements & D.Jones
. . Thelymitra benthamiana H.G.Reichb.
. . Thelymitra campanulata Lindley
. . Thelymitra cornicina H.G.Reichb.
. . Thelymitra crinita Lindley
. . Thelymitra flexuosa Endl.
. . Thelymitra graminea Lindley
. . Thelymitra maculata Hopper & A.P.Brown ms
s . . Thelymitra mucida W.Fitzg.
. . Thelymitra pauciflora R.Br.
e . . Thelymitra spiralis (Lindley)F.Muell.
R . Thelymitra stellata Lindley
. . Thelymitra variegata (Lindley)F.Muell.
. . Thelymitra villosa Lindley

DICOTYLEDONS

** 70 CASUARINEACEAE

e . . Allocasuarina acuaria (F.Muell.)L.Johnson
. . Allocasuarina campestris (Diels)L.Johnson
e . . Allocasuarina corniculata (F.Muell.)L.Johnson
n . . Allocasuarina dielsiana (C.Gardner)L.Johnson
e . 2 Allocasuarina drummondiana (Miq.)L.Johnson
s . . Allocasuarina fraseriana (Miq.)L.Johnson
3 2 Allocasuarina grevilleoides (Diels)L.Johnson
e . . Allocasuarina huegeliana (Miq.)L.Johnson
. . Allocasuarina humilis (Otto & Dietr.)L.Johnson
. . Allocasuarina lehmanniana (Miq.)L.Johnson ssp. lehmanniana
. . Allocasuarina microstachya (Miq.)L.Johnson
3 2 Allocasuarina ramosissima (C.Gardner)L.Johnson
. . Allocasuarina thuyoides (Miq.)L.Johnson
. . * Casuarina equisetifolia L.
. . Casuarina obesa Miq.

** 88 URTICACEAE

. . Parietaria debilis G.Forster
s . . * Urtica urens L.

** 90 PROTEACEAE

b 1 . Adenanthos cygnorum Diels ssp. chamaephyton Nelson
. . Adenanthos cygnorum Diels ssp. cygnorum
. . Adenanthos drummondii Meissner
. . Adenanthos obovatus Labill.
. 2 Adenanthos stictus George
n . . Banksia ashbyi E.G.Baker
. . Banksia attenuata R.Br.
. . Banksia burdettii E.G.Baker
. . Banksia candolleana Meissner
4 2 Banksia chamaephyton George
4 2 Banksia elegans Meissner
. . Banksia grandis Willd.
. 2 Banksia grossa George

Proteaceae (Continued)

. 2 Banksia hookeriana Meissner
. . Banksia ilicifolia R.Br.
. . Banksia incana George
. 2 Banksia lanata George
. 1 Banksia laricina C.Gardner
. . Banksia leptophylla George ssp. leptophylla
. . Banksia leptophylla George ssp. melletica George
. . Banksia littoralis R.Br. ssp. littoralis
. . Banksia menziesii R.Br.
3 2 Banksia micrantha George
. . Banksia prionotes Lindley
3 # Banksia scabrella George
n . . Banksia sceptrum Meissner
. . Banksia sphaerocarpa R.Br. var. sphaerocarpa
. . Banksia telmatiaea George
R 1 Banksia tricuspis Meissner
. . Conospermum acerosum Lindley ssp. acerosum
. # Conospermum borealis E.M.Bennett ssp. ascendens E.M.Bennett ms
. # Conospermum borealis E.M.Bennett ssp. borealis ms
. . Conospermum borealis E.M.Bennett ssp. coriaceum E.M.Bennett ms
. . Conospermum borealis E.M.Bennett ssp. velutinum E.M.Bennett ms
. # Conospermum brachyphyllum Lindley
. . Conospermum caeruleum R.Br. ssp. marginatum E.M.Bennett ms
. . Conospermum canaliculatum Meissner ssp. apiculatum E.M.Bennett ms
. . Conospermum canaliculatum Meissner ssp. cananiculatum
. # Conospermum cananiculatum Meissner ssp. sericeum E.M.Bennett ms
. . Conospermum crassinervium Meissner
. 2 Conospermum densiflorum Lindley ssp. densiflorum
b 1 . Conospermum densiflorum Lindley ssp. unicephalatum E.M.Bennett ms
3 . Conospermum eatoniae E.Pritzel
b . . Conospermum filifolium Meissner ssp. filifolium
. . Conospermum glumaceum Lindley
b . 2 Conospermum huegelii R.Br.
. . Conospermum incurvum Lindley
. 2 Conospermum nervosum Meissner
. 2 Conospermum polycephalum Meissner
1 2 Conospermum scaposum Benth.
. . Conospermum sericeum ms
. . Conospermum stoechadis Endl.
. . Conospermum stoechadis Endl. ssp. sclerophyllum E.M.Bennett ms
s . . Conospermum triplinervium R.Br.
. # Conospermum unilateralis E.M.Bennett
. # Conospermum wycherleyi E.M.Bennett ssp. glabrum E.M.Bennett ms
. . Conospermum wycherleyi E.M.Bennett ssp. sericeum E.B.Bennett ms EAG 5262
. # Conospermum wycherleyi E.M.Bennett ssp. wycherlyi ms
. . Dryandra armata R.Br.
. . Dryandra bipinnatifida R.Br.
1 1 Dryandra borealis George var. elatior George ms
. . Dryandra carlinoides Meissner
e . . Dryandra conferta Benth.
b . . Dryandra drummondii Meissner
3 2 Dryandra echinata George ms
n . . Dryandra fraseri B.L.Burtt var. ashbyi (B.L.Burtt) George ms
. . Dryandra fraseri R.Br. var. fraseri
. 1 Dryandra fuscobractea George ms
2 2 Dryandra glauca George ms
. . Dryandra kippistiana Meissner var. kippistiana
1 1 Dryandra kippistiana Meissner var. paenepeccata George ms
R . Dryandra mimica George
. 2 Dryandra nana Meissner
. . Dryandra nivea (Labill.)R.Br. var. nivea
. . Dryandra nivea (mound) (Labill.)R.Br.
. 1 Dryandra nivea (revolute leaf) (Labill.)R.Br. EAG 3484
. 1 Dryandra nobilis Lindley ssp. fragrans George ms
b . . Dryandra nobilis Lindley ssp. nobilis
. . Dryandra hewardiana Meissner
2 2 Dryandra platycarpa George ms
b 4 2 Dryandra polycephala Benth.
3 2 Dryandra pteridifolia R.Br. ssp. vernalis George ms
. . Dryandra purdieana Diels
4 1 Dryandra sclerophylla Meissner
. 1 Dryandra serratuloides Meissner ssp. perissa George ms
R 1 Dryandra serratuloides Meissner ssp. serrratuloides
. . Dryandra sessilis (Knight)Domin ssp. cygnorum (Gand.)George ms
. . Dryandra sessilis (Knight)Domin ssp. sessilis
. . Dryandra shuttleworthiana Meissner
3 . Dryandra speciosa Meissner
b . . Dryandra squarrosa R.Br.
. 2 Dryandra stenoprion Meissner
2 2 Dryandra stricta George ms
. 2 Dryandra subulata C.Gardner
3 2 Dryandra tortifolia Kipp.ex Meissner
. 2 Dryandra tridentata Meissner
1 1 Dryandra trifontinalis George ms
. . Dryandra vestita Kipp.ex Meissner
1 2 Dryandra sp. 23 aff. fraseri JS Beard 7275
. 1 Dryandra sp. Coomallo aff. drummondii
. . Grevillea acrobotrya F.Muell.ex Benth.
. 1 Grevillea adpressa P.Olde & N.Marriott
1 1 Grevillea althoferorum P.Olde & N.Marriott
. . Grevillea amplexans F.Muell.ex Benth.
. . Grevillea argyrophylla Meissner
R 1 Grevillea batrachioides McGillivray
b . . Grevillea bipinnatifida R.Br.
n . . Grevillea brachystachya Meissner
b 2 . Grevillea bracteosa Meissner
1 1 Grevillea calliantha R.Makinson & P.Olde
. . Grevillea candelabroides C.Gardner
n 3 . Grevillea candicans C.Gardner
b 1 1 Grevillea corrugata P.Olde & N.Mariott ms
. . Grevillea crithmifolia R.Br.
s 1 1 Grevillea curviloba McGillivray ssp. curviloba

Proteaceae (Continued)

s	.	1	Grevillea curviloba McGillivary ssp. incurva P.Olde & N.Marriott
	.	.	Grevillea didymobotrya Meissner ssp. didymobotrya
n	.	.	Grevillea dielsiana C.Gardner
	4	2	Grevillea drummondii Meissner
b	.	2	Grevillea endlicheriana Meissner
	.	.	Grevillea eriostachya Lindley ssp. eriostachya
e	.	.	Grevillea eryngioides Benth.
e	.	.	Grevillea hakeoides Meissner ssp. stenophylla (W.Fitzg.)McGillivray
e	.	.	Grevillea hookeriana Meissner
b	.	.	Grevillea huegelii Meissner
	.	.	Grevillea integrifolia (Endl.)Meissner ssp. biformis (Meissner)McGillivray
	.	.	Grevillea integrifolia (Endl.)Meissner ssp. shuttleworthiana (Meissner) McGillivray
	3	1	Grevillea leptopoda McGillivray
	.	.	Grevillea leucopteris Meissner
	2	1	Grevillea makinsonii McGillivray
e	1	1	Grevillea murex McGillivray
n	.	.	Grevillea obliquistigma C.Gardner
	4	1	Grevillea olivacea George
	.	.	Grevillea paniculata Meissner
	.	.	Grevillea paniculata Meissner
e	.	.	Grevillea paradoxa F.Muell.
	.	.	Grevillea petrophiloides Meissner ssp. petrophiloides
n	1	.	Grevillea phanerophlebia Diels
b	.	.	Grevillea pilulifera (Lindley)Druce
	1	.	Grevillea pinifolia Meissner
	.	.	Grevillea polybotrya Meissner
s	.	.	Grevillea quercifolia R.Br.
s	.	.	Grevillea quercifolia R.Br.
	4	2	Grevillea rudis Meissner
	R	2	Grevillea saccata Benth.
e	2	.	Grevillea spinosissima McGillivray
	.	.	Grevillea synapheae R.Br. ssp. pachyphylla P.Olde & N. Marriott
	2	.	Grevillea synapheae R.Br. ssp. synaphea
e	.	.	Grevillea teretifolia Meissner
	1	1	Grevillea thelemanniana Huegel ex Endl. ssp. delta McGillivray
n	1	.	Grevillea thelemanniana Huegel ex Endl. ssp. hirtella (Benth.)McGillivray
	.	.	Grevillea thelemanniana Huegel ex.Endl. ssp. obtusifolia (Meissner)McGillivray
	.	.	Grevillea thelemanniana Huegel ex Endl. ssp. pinaster (Meissner)McGillivray
	.	.	Grevillea thelemanniana Huegel ex Endl. ssp. preissii (Meissner)McGillivray
s	4	2	Grevillea thelemanniana Huegel ex Endl. ssp. thelemanniana
e	1	1	Grevillea thyrsoides Meissner ssp. pustulata P.Olde & N.Marriott
	3	1	Grevillea thyrsoides Meissner ssp. thyrsoides
	.	.	Grevillea umbellulata Meissner
b	3	2	Grevillea uncinulata Diels ssp. florida McGillivray
	.	.	Grevillea uncinulata Diels ssp. uncinulata
	3	1	Grevillea uniformis (McGillivray)P.Olde & N.Marriott
	.	.	Grevillea vestita (Endl.)Meissner
	.	1	Grevillea sp. Eragilga P.Olde 91/96
	.	.	Hakea auriculata Meissner
	.	.	Hakea brachyptera Meissner
	.	.	Hakea brownii Meissner
n	.	.	Hakea bucculenta C.Gardner
	.	.	Hakea candolleana Meissner
	.	.	Hakea circumalata Meissner
	.	2	Hakea conchifolia Hook.
	.	.	Hakea corymbosa R.Br.
	.	.	Hakea costata Meissner
	.	.	Hakea cygna B.L.Lamont ssp. cygna
	.	.	Hakea erinacea Meissner
	.	2	Hakea flabellifolia Meissner
	.	.	Hakea gilbertii Kipp.ex Meissner
	.	.	Hakea incrassata R.Br.
	.	.	Hakea invaginata B.L.Burtt
	.	.	Hakea lissocarpha R.Br.
	2	1	Hakea longiflora (Benth.)R.M.Baker
	.	.	Hakea marginata R.Br.
	R	2	Hakea megalosperma Meissner
	.	.	Hakea multilineata Meissner
	3	2	Hakea myrtoides Meissner
	4	1	Hakea neurophylla Meissner
	.	.	Hakea obliqua R.Br.
n	.	.	Hakea orthorrhyncha F.Muell. var. orthorrhyncha
	.	.	Hakea platysperma Hook.
	.	.	Hakea preissii Meissner
	.	.	Hakea prostrata R.Br.
n	.	.	Hakea pycnoneura Meissner
	.	.	Hakea ruscifolia Labill.
	.	.	Hakea scoparia Meissner
	.	.	Hakea smilacifolia Meissner
	3	2	Hakea spathulata (Benth.)R.M.Baker
	.	.	Hakea stenocarpa R.Br.
	.	.	Hakea subsulcata Meissner
	.	.	Hakea sulcata R.Br.
	.	.	Hakea trifurcata (Smith)R.Br.
	.	.	Hakea undulata R.Br.
	.	.	Hakea varia R.Br.
b	.	.	Hakea sp. aff. varia EAG 6143
b	2	1	Hakea sp. Walyunga aff. lasiantha EAG 5740
	.	.	Isopogon adenanthoides Meissner
	.	.	Isopogon asper R.Br.
	.	.	Isopogon divergens R.Br.
	3	.	Isopogon drummondii Benth.
	.	.	Isopogon dubius (R.Br.)Druce
	.	.	Isopogon linearis Meissner
e	.	.	Isopogon scabriusculus Meissner
	.	.	Isopogon sphaerocephalus Lindley
	.	.	Isopogon teretifolius R.Br. var. teretifolius
	.	2	Isopogon sp. aff. axillaris EAG 5368
	3	2	Isopogon tridens F.Muell.
	.	.	Lambertia multiflora Lindley ssp. Northern
b	3	.	Lambertia multiflora Lindley ssp. multiflora
	.	.	Persoonia acicularis F.Muell.
	.	.	Persoonia angustiflora Benth. var. angustiflora
e	2	#	Persoonia chapmaniana R.Br.? ms
	.	.	Persoonia comata Meissner
e	.	.	Persoonia coriacea J.W.Audas & P.Morris
	.	.	Persoonia elliptica R.Br.
	3	.	Persoonia pungens W.Fitzg.

Proteaceae (Continued)

e . . Persoonia quinquenervis Hook.
3 . Persoonia rudis Meissner
. . Persoonia rufiflora Meissner
. . Persoonia saccata R.Br.
e . . Persoonia saundersiana Kipp.ex Meissner
. . Persoonia scabrella Meissner
b . . Persoonia striata R.Br.
b 3 . Persoonia sulcata Meissner
2 # Persoonia sp. aff. sulcata EAG 795
. # Persoonia sp. aff. trinervis Meissner
. 1 Petrophile aculeata Forman ms EAG 5464
b . 2 Petrophile biloba R.Br.
3 2 Petrophile biternata Meissner
. . Petrophile brevifolia Lindley
. . Petrophile brevifolia # linearis
. . Petrophile chrysantha Meissner
. 2 Petrophile chrysantha Meissner ssp. Watheroo K.M.Allan 57
n . . Petrophile conifera Meissner
b . . Petrophile divaricata R.Br.
. . Petrophile drummondii Meissner
b . . Petrophile heterophylla Lindley
. 2 Petrophile inconspicua Meissner
. . Petrophile linearis R.Br.
. . Petrophile macrostachya R.Br.
s . . Petrophile media R.Br.
. . Petrophile megalostegia F.Muell.
b 3 2 Petrophile plumosa Meissner
. . Petrophile rigida R.Br. EAG 2547
. . Petrophile scabriuscula Meissner var. recurva Foreman ms
n . . Petrophile semifurcata F.Muell.ex Benth.
. . Petrophile seminuda Lindley
. . Petrophile serruriae R.Br.
. . Petrophile shuttleworthiana Meissner
. . Petrophile striata R.Br.
e . . Petrophile trifurcata Foreman ms
. . Petrophile sp. aff. brevifolia EAG 2203
. . Stirlingia abrontanoides Meissner
. . Stirlingia latifolia (R.Br.)Steudel
. . Stirlingia simplex Lindley
. 2 Strangea cynanchocarpa (Meissner)F.Muell.
b . . Synaphea gracillima Lindley
. 1 Synaphea lesueurensis George ms
. # Synaphea oulopha George ms
. . Synaphea spinulosa (Burm.f.)Merr. ssp. spinulosa
. . Synaphea sp. 38 aff. petiolaris
b 1 1 Synaphea sp. Moora Burton sn
. . Xylomelum angustifolium Kipp.ex Meissner

** 92 SANTALACEAE

. . Anthobolus foveolatus F.Muell.
. . Choretrum pritzelii Diels
. . Exocarpos aphyllus R.Br.
. . Exocarpos aphyllus R.Br.
. . Exocarpos sparteus R.Br.
s . . Leptomeria cunninghamii Miq.
. . Leptomeria empetriformis Miq.
. . Leptomeria preissiana (Miq.)A.DC.
. . Leptomeria spinosa (Miq.)A.DC.
. . Santalum acuminatum (R.Br.)A.DC.
R 2 Spirogardnera rubescens Stauffer

** 95 OLACACEAE

. . Olax aurantia George
. . Olax benthamiana Miq.
. . Olax benthamiana Miq.
3 . Olax scalariformis George
3 . Olax scalariformis George

** 97 LORANTHACEAE

n . . Amyema fitzgeraldii (Blakely)Danser
. . Amyema linophyllum (Fenzel)Tieghem ssp. linophyllum
s . . Amyema melaleucae (Miq.)Tieghem
. . Amyema miquelii (Lehm.ex Miq.)Tieghem
. . Amyema miraculosum (Miq.)Tieghem ssp. miraculosum
. . Amyema preissii (Miq.)Tieghem
. . Lysiana casuarinae (Miq.)Tieghem
. . Nuytsia floribunda (Labill.)R.Br.ex Fenzel

** 101 RAFFLESIACEAE

. . Pilostyles hamiltonii C.Gardner

** 103 POLYGONACEAE

. . * Emex australis Steinh.
. . Muehlenbeckia adpressa (Labill.)Meissner
. . Muehlenbeckia polybotrya Meissner
b . . Polygonum prostratum R.Br.
s . . Polygonum salicifolium Brouss.ex Willd.
s . . * Rumex acetosella L.
1 . Rumex drummondii Meissner
. . * Rumex pulcher L.
e . . * Rumex pulcher L. var. divaricatus (L.)Murb.
s . . * Rumex vesicarius L.

** 105 CHENOPODIACEAE

. . Atriplex bunburyana F.Muell.
. . Atriplex cinerea Poiret
e . . Atriplex codonocarpa Paul G.Wilson
e . . Atriplex holocarpa F.Muell.
. . Atriplex isatidea Moq.
e . . Atriplex semibaccata R.Br.
e . . Atriplex semilunaris Aellen
. . Atriplex vesicaria Heward ex Benth. ssp. appendiculata (Benth.)Parr-Smith
s . . * Chenopodium album L.
. . Chenopodium glaucum L.
. . Chenopodium melanocarpum (J.Black)J.Black
. . * Chenopodium murale L.
e . . Chenopodium pumilio R.Br.
. . Didymanthus roei Endl.
. . Dysphania plantaginella F.Muell.
. . Enchylaena tomentosa R.Br. ssp. tomentosa
e . . Halosarcia doleiformis Paul G.Wilson
e . . Halosarcia fimbriata Paul G.Wilson
. . Halosarcia halocnemoides (Nees)Paul G.Wilson ssp. halocnemoides
. . Halosarcia indica (Willd.)Paul G. Wilson ssp. bidens (Nees)Paul G.Wilson
e . . Halosarcia lepidosperma Paul G.Wilson

Chenopodiaceae (Continued)

e . . Halosarcia leptoclada Paul G.Wilson ssp. inclusa Paul G.Wilson
e . . Halosarcia peltata Paul G.Wilson
. . Halosarcia pergranulata (J.Black)Paul G.Wilson ssp. pergranulata
e . . Halosarcia pterygosperma (J.Black)Paul G.Wilson ssp. pterygosperma
. . Halosarcia syncarpa Paul G.Wilson
. . Halosarcia undulata Paul G.Wilson
e 1 . Halosarcia sp. Coorow PG Wilson 12750
e . . Maireana atkinsiana (W.Fitzg.)Paul G.Wilson
e . . Maireana brevifolia (R.Br.)Paul G.Wilson
e . . Maireana carnosa (Moq.)Paul G.Wilson
e . . Maireana enchylaenoides (F.Muell.)Paul G.Wilson
. . Maireana marginata (Benth.)Paul G.Wilson
. . Rhagodia baccata (Labill.)Moq. ssp. baccata
. . Rhagodia baccata (Labill.)Moq. ssp. dioica (Nees) Paul G.Wilson
. . Rhagodia drummondii Moq.
. . Rhagodia latifolia (Benth.)Paul G.Wilson ssp. recta Paul G.Wilson
. . Rhagodia preissii Moq. ssp. obovata (Moq.) Paul G.Wilson
. . Rhagodia preissii Moq. ssp. preissii
. . Salsola kali L.
. . Sarcocornia blackiana (Ulbr.)A.J.Scott
. . Sarcocornia quinqueflora (Bunge ex Ung.-Sternb.) A.J.Scott
. . Sclerolaena diacantha (Nees)Benth.
e . . Sclerolaena uniflora R.Br.
. . Suaeda australis (R.Br.)Moq.
. . Threlkeldia diffusa R.Br.

** 106 AMARANTHACEAE

. . Alternanthera nodiflora R.Br.
e . . * Alternanthera pungens Kunth
. . * Amaranthus albus L.
e 1 . Ptilotus caespitulosus F.Muell.
. . Ptilotus declinatus Nees
. . Ptilotus divaricatus (Gaudich.)F.Muell. var. divaricatus
. . Ptilotus drummondii (Moq.)F.Muell. var. drummondii
. . Ptilotus eriotrichus (W.Fitzg.ex Ewart & J.White) W.Fitzg
. . Ptilotus esquamatus (Benth.)F.Muell.
. . Ptilotus gaudichaudii (Steudel)J.Black var. gaudichaudii
. . Ptilotus gaudichaudii (Steudel)J.Black var. parviflorus (Benth.)Benl
. . Ptilotus humilis (Nees)F.Muell.
. . Ptilotus manglesii (Lindley)F.Muell.
e . . Ptilotus obovatus (Gaudich.)F.Muell. ssp. obovatus
. . Ptilotus polystachyus (Gaudich.)F.Muell.
. . Ptilotus sericostachyus (Nees)F.Muell. ssp. roseus (Moq.)Benl.
. . Ptilotus sericostachyus (Nees)F.Muell. ssp. sericostachyus
. . Ptilotus spathulatus (R.Br.)Poiret
. . Ptilotus stirlingii (Lindley)F.Muell. var. stirlingii

** 108 GYROSTEMONACEAE

. . Gyrostemon racemiger H.Walter
. . Gyrostemon ramulosus Desf.
. . Gyrostemon subnudus (Nees)Ballion
. . Tersonia cyathiflora (Fenzl)George
3 1 Walteranthus erectus Keighery

** 109 PHYTOLACCACEAE

s . . * Phytolacca octandra L.

** 110 AIZOACEAE

. . * Carpobrotus edulis (L.)L.Bolus
. . Carpobrotus modestus S.T.Blake
. . Carpobrotus rossii (Haw.)Schwantes
. . Carpobrotus virescens (Haw.)Schwantes
e . . Guinniopsis intermedia Diels
. . Gunniopsis septifraga (F.Muell.)Chinn.
. . * Mesembryanthemum crystallinum L.
. . * Mesembryanthemum nodiflorum L.
e . . Sesuvium portulacastrum (L.)L.
. . * Tetragonia decumbens Miller
. . Tetragonia tetragonoides (Pallas)Kuntze

** 110A MOLLUGINACEAE

2 . Macarthuria apetala Harvey
. . Macarthuria australis Huegel ex Endl.
1 1 Macarthuria aff. georgeana Keighery BJK 517

** 111 PORTULACACEAE

. . Calandrinia brevipedata F.Muell.
. . Calandrinia calyptrata J.D.Hook.
. . Calandrinia corrigioloides F.Muell.ex Benth.
. . Calandrinia eremaea Ewart
. . Calandrinia granulifera Benth.
. . Calandrinia liniflora Fenzl
. . Calandrinia polyandra Benth.
. . Calandrinia polypetala Fenzl
e . . Calandrinia primuliflora Diels

** 113 CARYOPHYLLACEAE

. . * Cerastium glomeratum Thuill.
e . . * Corrigiola litoralis L.
. . * Petrorhagia velutina (Guss.)P.Ball & Heyw.
. . * Polycarpon tetraphyllum (L.)L.
. . * Sagina apetala Ard.
. . * Silene gallica L. var. gallica
. . * Silene nocturna L.
. . * Spergula pentandra L.
. . * Spergularia diandra Heldr.& Sart.ex Heldr.
. . * Spergularia rubra (L.)J.S.Presl & C.Presl
. . * Spergularia salina J.S.Presl & C.Presl
. . * Stellaria filiformis (Benth.)Mattf.
. . * Stellaria media (L.)Villars
. . * Vaccaria hispanica (Miller)Rauschert

** 119 RANUNCULACEAE

. . Clematis linearifolia Steud.
. . Clematis pubescens Huegel ex Endl.
s . . Ranunculus colonorum Endl.
s . . Ranunculus muricatus L.
. . Ranunculus sessiliflorus R.Br.ex DC.

** 131 LAURACEAE
. . Cassytha aurea J.Z.Weber var. aurea
. . Cassytha aurea J.Z.Weber var. hirta J.Z.Weber
. . Cassytha flava Nees
. . Cassytha glabella R.Br. forma bicallosa J.Z.Weber
. . Cassytha glabella R.Br. forma dispar (Schltdt.) J.Z.Weber
. . Cassytha glabella R.Br. forma glabella
. . Cassytha melantha R.Br.
e . . Cassytha nodiflora Meissner
. . Cassytha pomiformis Nees
. . Cassytha racemosa Nees forma pilosa
. . Cassytha racemosa Nees forma pilosa (Benth.) J.Z.Weber

** 136 FUMARIACEAE
. . * Fumaria capreolata L.

** 137B EMBLINGIACEAE
. . Emblingia calceoliflora F.Muell.

** 138 BRASSICACEAE
. . * Brassica oxyrrhina (Cosson)Willk.
. . * Brassica rapa L.
. . * Brassica tournefortii Gouan
. . * Cakile maritima Scop.
. . * Heliophila pusilla L.f.
. . * Hymenolobus procumbens (L.)Nutt.ex Schinz & Thell.
. . * Lepidium africanum (Burm.f.)DC.
. . Lepidium foliosum Desv.
. . Lepidium linifolium (Desv.)Steudel
. . Lepidium lyratogynum H.J.Hewson
4 . Lepidium puberulum Bunge
. . Lepidium rotundum (Desv.)DC.
n . . Lepidium sagittulatum Thell.
. . * Matthiola incana (L.)R.Br.
e X . Menkea draboides (J.D.Hook.)J.D.Hook.ex Benth.
. . * Raphanus raphanistrum L.
s . . * Rorippa nasturtium-aquaticum (L.)Hayek
. . * Sinapis arvensis L.
. . * Sisymbrium orientale L.
. . Stenopetalum filifolium Benth.
. . Stenopetalum robustum Endl.

** 139 RESEDACEAE
. . * Reseda alba L.
. . * Reseda luteola L.

** 143 DROSERACEAE
. . Drosera barbigera Planchon
. . Drosera bulbosa Hook. ssp. bulbosa
. . Drosera citrina Lowrie & Carlq.
. # Drosera closterostigma N.Marchant ms
. . Drosera echinoblastus N.Marchant ms
. # Drosera eneabba N.Marchant ms
. . Drosera ericksonae N.Marchant ms
b . . Drosera erythrorhiza Lindley ssp. collina N.Marchant ms
s . . Drosera erythrorhiza Lindley ssp. erythrorhiza
. # Drosera erythrorhiza Lindley ssp. magna N.Marchant ms
. . Drosera gigantea Lindley ssp. gigantea
. . Drosera glanduligera Lehm.
s . . Drosera helodes N.Marchant
. . Drosera heterophylla Lindley
. # Drosera leioblasta N.Marchant ms
. . Drosera macrantha Endl. ssp. macrantha
b . . Drosera macrophylla Lindley
1 . Drosera marchantii De Buhr ssp. prophylla N.Marchant ms
. . Drosera menziesii R.Br. ssp. menziesii
. . Drosera menziesii R.Br. ssp. penicillaris (Benth.) N.Marchant ms
. . Drosera menziesii R.Br. ssp. thysanosepala (Diels) N.Marchant ms
. . Drosera microphylla Endl.
. . Drosera miniata N.Marchant ms
. . Drosera neesii Lehm. ssp. borealis N.Marchant
. # Drosera nitidula Planchon ssp. allantostigma N.Marchant ms
. # Drosera nitidula Planchon ssp. leucostigma N.Marchant ms
s . . Drosera nitidula Planchon ssp. nitidula
s 4 # Drosera occidentalis Morrison ssp. occidentalis
b . . Drosera paleacea DC. ssp. paleacea
. . Drosera pallida Lindley
. . Drosera parvula Planchon
b . . Drosera platystigma Lehm.
. . Drosera pulchella Lehm.
e . . Drosera pycnoblasta Diels
. . Drosera radicans N.Marchant
. . Drosera ramellosa Lehm.
. . Drosera rechingeri A.Strid
s . . Drosera rosulata Lehm.
. # Drosera spilos N.Marchant ms
. # Drosera stolonifera Endl. ssp. humilis (Planchon) N.Marchant
. . Drosera stolonifera Endl. ssp. porrecta (Lehm.) N.Marchant ms
s . . Drosera stolonifera Endl. ssp. stolonifera
. . Drosera subhirtella Planchon ssp. subhirtella
e . . Drosera zonaria Planchon

** 149 CRASSULACEAE
. . * Crassula alata (Viv.)Berger
. . Crassula colorata (Nees)Ostenf. var. acuminata (Reader)Tolken
. . Crassula colorata (Nees)Ostenf. var. colorata
. . Crassula colorata (Nees)Ostenf. var. tuberculata
. . Crassula decumbens Thunb.
. . Crassula decumbens Thunb. var. decumbens
. . Crassula exserta (Reader)Ostenf.
. . * Crassula glomerata P.Bergius
2 . Crassula helmsii (Kirk)Cockayne
b . . Crassula natans Thunb. var. minus (Ecklon & Zeyher)G.Rowley
. . Crassula natans Thunb. var. natans
. . Crassula pedicellosa (F.Muell.)Ostenf.
. . Crassula peduncularis (Smith)Meigen

** 152 PITTOSPORACEAE
. . Billardiera bicolor (Putterl.)E.M.Bennett var. bicolor
. . Billardiera bicolor (Putterl.)E.M.Bennett var. lineata (Benth.)E.M.Bennett
. . Billardiera coeruleo-punctata (Klotzsch) E.M.Bennett
. . Billardiera erubescens (Putterl.)E.M.Bennett
. . Billardiera ringens (J.Drumm.ex Harvey) E.M.Bennett
b . . Billardiera variifolia DC.
. # Billardiera sp. aff. sericea EAG 8211
. . Cheiranthera preissiana Putterl. ssp. preissiana
e . . Chieranthera filifolia Turcz. var. filifolia
. . Pittosporum phylliraeoides DC. var. phylliraeoides
. . Pronaya fraseri (Hook.)E.Bennett ssp. fraseri
. . Sollya heterophylla Lindley var. heterophylla
. . Sollya heterophylla Lindley var. angustifolia Benth.

** 154 BYBLIBACEAE
. . Byblis gigantea Lindley

** 155 CUNONIACEAE
. . Aphanopetalum clematideum (J.Drumm.ex Harvey)Domin

** 160 SURIANACEAE
. . Stylobasium australe (Hook.)Prance
. . Stylobasium spathulatum Desf.

** 161 ROSACEAE
. . * Acaena echinata Nees

** 163 MIMOSACEAE
e . . Acacia acanthoclada F.Muell.
. . Acacia aciphylla Benth.
n . . Acacia acuaria W.Fitz.
e . . Acacia aculeiformis Maslin ms
. . Acacia acuminata Benth. var. acuminata
. . Acacia adnata F.Muell.
. . Acacia aestivalis E.Pritzel
. . Acacia alata R.Br. var. alata
n . . Acacia alata R.Br. var. biglandulosa Benth.
b . . Acacia alata R.Br. var. platyptera (Lindley) Meissner
. # Acacia alata R.Br. var. tetrantha Maslin ms
e . . Acacia alocophylla A.R.Chapman & Maslin ssp. alocophylla ms
b 2 1 Acacia anarthros Maslin
e . . Acacia andrewsii W.Fitz.
b R 2 Acacia anomala C.Gardner ex Court
e . . Acacia anthochaera Maslin ms
. . Acacia applanata Maslin ms
e 3 . Acacia aprica A.R.Chapman & Maslin ms
e 2 . Acacia aristulata Maslin ms B.R.Maslin 6122
e . . Acacia ashbyae Maslin
e . . Acacia assimilis S.Moore ssp. assimilis
. . Acacia auronitens Lindley
. . Acacia barbinervis Benth. ssp. barbinervis
. . Acacia barbinervis Benth. ssp. borealis Maslin
b . . Acacia baxteri Benth.
. . Acacia bidentata Benth.
b . 1 Acacia bidentata # orbifolia
. . Acacia blakelyi Maiden
b 2 1 Acacia browniana H.L.Wendl. var. glaucescens Maslin
. . Acacia brumalis Maslin ms aff. microbotrya BRM 5302
1 # Acacia carens Maslin ms
. . Acacia cavealis Cowan & Maslin ms
b . . Acacia celastrifolia Benth.
2 # Acacia chapmanii Cowan & Maslin ssp. chapmanii ms
. . Acacia chrysella Maiden & Blakely
4 2 Acacia clydonophora Maslin ms aff. myrtifolia RJ Cranfield 33
4 # Acacia clydonophora Maslin ms
. . Acacia cochlearis (Labill.)H.L.Wendl.
e 1 1 Acacia cochlocarpa Meissner ssp. cochlocarpa
e . . Acacia colletioides Benth.
. . Acacia comans W.Fitz.
e 1 1 Acacia congesta Benth. ssp. cliftoniana (W.Fitz.) Maslin ms
e 1 . Acacia congesta Benth. ssp. congesta
. . Acacia costata Benth.
. . Acacia crassistipula Benth.
3 2 Acacia cummingiana Maslin ms
. . Acacia cyclops Cunn. ex Don
e . . Acacia dielsii E.Pritzel
. . Acacia dilatata Benth.
b . . Acacia divergens Benth.
. 2 Acacia drewiana W.Fitz. ssp. drewiana
b 3 2 Acacia drummondii Lindley ssp. affinis (Maslin) Maslin
b . . Acacia drummondii Lindley ssp. candolleana (Meissner)Maslin
. . Acacia drummondii Lindley ssp. drummondii
4 . Acacia drummondii Lindley ssp. elegans Maslin
3 2 Acacia epacantha (Maslin)Maslin
b . . Acacia ephedroides Benth.
e . . Acacia eremaea C.R.P.Andrews
. . Acacia ericifolia Benth.
e . . Acacia ericksonii Maslin
e . . Acacia erinacea Benth.
n . . Acacia erioclada Benth.
b . . Acacia extensa Lindley
. 2 Acacia fagonioides Benth.
e . . Acacia farnesiana (L.)Willd.
1 2 Acacia flabellifolia W.Fitz.
R 2 Acacia forrestiana E.Pritzel
b . . Acacia gilbertii Meissner
e . . Acacia hemiteles Benth.
b . . Acacia heteroclita Meissner ssp. heteroclita
. . Acacia huegelii Benth.
. . Acacia idiomorpha Cunn.ex Benth.
. . Acacia incrassata Hook.
3 . Acacia inophloia Maiden & Blakely
n 3 . Acacia isoneura A.R.Chapman & Maslin ssp. isoneura ms
e 3 . Acacia isoneura A.R.Chapman & Maslin ssp. nimia A.R.Chapman & Maslin ms
. . Acacia jacksonioides Maslin
e 1 # Acacia lanceolata Maslin ms
e . . Acacia lasiocalyx C.R.P.Andrews

Mimosaceae (Continued)

. . Acacia lasiocarpa Benth. var. bracteolata Maslin
. . Acacia lasiocarpa Benth. var. lasiocarpa
. . Acacia lasiocarpa Benth. var. sedifolia (Meissner) Maslin
b . . Acacia lateriticola Maslin
. . Acacia latipes Benth. ssp. latipes
. . Acacia latipes Benth. ssp. licina Cowan & Maslin ms
. . Acacia leptospermoides Benth. ssp. leptospermoides
e 2 . Acacia leptospermoides Benth. ssp. psalmophila (E.Pritzel)Maslin ms
e . . Acacia ligustrina Meissner
. . Acacia lineolata Benth. ssp. lineolata
. . Acacia lullfitziorum ?
n 1 . Acacia megacephala Maslin
b . . Acacia meisneri Lehm.ex Meissner
. . Acacia microbotrya Benth.
. . Acacia moirii E.Pritzel ssp. recurvistipula Maslin
. . Acacia multispicata Benth.
b . . Acacia nervosa DC.
e . . Acacia neurophylla W.Fitzg. ssp. eragata Cowan & Maslin ms
e . . Acacia neurophylla W.Fitzg. ssp. neurophylla
e . . Acacia nyssophylla F.Muell.
. . Acacia obovata Benth.
b 3 2 Acacia oncinophylla Lindley ssp. oncinophylla
e . . Acacia orbifolia Maiden & Blakely
. . Acacia oxyclada F.Muell.ex Benth.
2 2 Acacia plicata Maslin
b . . Acacia preissiana (Meissner)Maslin
. . Acacia pulchella R.Br. var. glaberrima Meissner
. . Acacia pulchella R.Br. var. goadbyi (Domin) Maslin
. . Acacia pulchella R.Br. var. pulchella
. . Acacia pulchella R.Br. var. reflexa Maslin
e 2 # Acacia recurvata Cowan & Maslin ms
. . Acacia restiacea Benth.
2 1 Acacia retrorsa Meissner
b 3 1 Acacia ridleyana W.Fitzg.
. . Acacia rostellifera Benth.
. . Acacia saligna (Labill.)H.L.Wendl.
e . . Acacia saxatilis S.Moore
. . Acacia scirpifolia Meissner
. . Acacia sessilis Benth.
. . Acacia shuttleworthii Meissner
. . Acacia signata F.Muell.
. . Acacia spathulifolia Maslin
. . Acacia sphacelata Benth. ssp. sphacelata
. . Acacia sphacelata Benth. ssp. verticillata Maslin
. . Acacia spinosissima Benth.
. . Acacia squamata Lindley
. . Acacia stenoptera Benth.
e . . Acacia stereophylla Meissner var. stereophylla
2 2 Acacia telmica A.R.Chapman & Maslin ms
. . Acacia teretifolia Benth.
n . . Acacia tetragonocarpa Meissner
. . Acacia tetragonophylla F.Muell.
. . Acacia trigonophylla Meissner
. . Acacia truncata (Burm.f.)Hort.ex.Hoffsgg.
. . Acacia ulicina Meissner
b . . Acacia urophylla Benth.ex Lindley
e R # Acacia vassalii Maslin
1 # Acacia vittata Cowan & Maslin ms
X 2 Acacia volubilis F.Muell.
. # Acacia willdenowiana H.L.Wendl.
2 2 Acacia wilsonii Cowan & Maslin ms
. . Acacia xanthina Benth.
b . 1 Acacia sp. aff. auronitens EAG 5917
R 1 Acacia sp. Dandaragan aff. microbotrya SvL 269
. . Paraserianthes lophantha (Willd.)I.Nielson

** 164 CAESALPINIACEAE

. . Labichea cassioides Gaudich.
. . Labichea lanceolata Benth. ssp. lanceolata
. . Labichea punctata Benth.
n . . Senna artemisioides (Gaudich in DC.)Randell ssp. filifolia Randell
b . . Senna glutinosa (DC.)Randell ssp. chatelainiana (Gaudich)Randell

** 165 PAPILIONACEAE

s 3 . Aotus cordifolia Benth.
. . Aotus gracillima Meissner
. . Aotus procumbens Meissner
. . Bossiaea eriocarpa Benth.
. . Bossiaea ornata (Lindley)Benth.
. . Bossiaea spinescens Meissner
b . . Brachysema celsianum Lemaire
s . . Brachysema praemorsum Meissner
. . Chorizema aciculare (DC.)C.Gardner var. laxum J.M.Taylor & Crisp
. . Chorizema cordatum Lindley
b . . Chorizema dicksonii R.A.Graham
e . . Chorizema ericifolium Meissner
e 1 . Chorizema humile Turcz.
. . Chorizema ilicifolium Labill.
e . . Chorizema racemosum (Meissner)J.M.Taylor & Crisp
e . . Chorizema rhynchotropis Meissner
R 1 Chorizema varium Benth.
. . Daviesia angulata Benth.
. . Daviesia benthamii Meissner
b . . Daviesia brachyphylla Crisp Crisp ms
R 1 Daviesia bursarioides Crisp ms MDC 6480
. . Daviesia cardiophylla F.Muell.
4 1 Daviesia chapmanii Crisp ms aff. striata MDC 6213
b . . Daviesia cordata Smith
. . Daviesia daphnoides Meissner
2 . Daviesia debilior Crisp ssp. debilior
. . Daviesia decurrens Meissner
e 2 . Daviesia dielsii E.Pritzel
. . Daviesia divaricata Benth.
3 1 Daviesia epiphyllum Meissner
. . Daviesia hakeoides Meissner ssp. hakeoides
. . Daviesia hakeoides Meissner ssp. subnuda (Benth.)Crisp
e . . Daviesia hamata Crisp ms
b . . Daviesia horrida Preiss ex Meissner
. . Daviesia incrassata Smith ssp. incrassata
. . Daviesia incrassata Smith ssp. teres Crisp
. . Daviesia longifolia Benth.

Papilionaceae (Continued)

. . Daviesia nudiflora Meissner
. . Daviesia oxyclada Crisp ms
. . Daviesia pedunculata Benth.
. . Daviesia physodes Cunn.ex Don
. . Daviesia podophylla Crisp
. . Daviesia polyphylla Benth.
. . Daviesia preissii Meissner
1 1 Daviesia pteroclada Crisp ms MDC 5429
. . Daviesia quadrilatera Benth.
. # Daviesia scirpioides Crisp ms
R 1 Daviesia speciosa Crisp ms SDH 4829
. . Daviesia striata Turcz.
. . Daviesia triflora Crisp
. . Dillwynia dillwynioides (Meissner)Druce
. . Dillwynia sp. aff. cinerscens T.E.H.Aplin 5
. . Euchilopsis linearis (Benth.)F.Muell.
. . Eutaxia virgata Benth.
b . . Eutaxia sp. aff. microphylla EAG 5672
e R 2 Gastrolobium appressum C.Gardner
e . . Gastrolobium bennettsianum C.Gardner
. 2 Gastrolobium bidens Meissner
R . Gastrolobium callistachys Meissner
. . Gastrolobium calycinum Benth.
e R 2 Gastrolobium hamulosum Meissner
b . . Gastrolobium microcarpum Meissner
. . Gastrolobium oxylobioides Benth.
. . Gastrolobium parviflorum (Benth.)Crisp
e . . Gastrolobium polystachyum Meissner
e 1 . Gastrolobium rotundifolium Meissner
. . Gastrolobium spinosum Benth. ssp. spinosum
b . . Gastrolobium trilobum Benth.
. . Gastrolobium villosum Benth.
s . . * Genista linifolia L.
e . . Glycine clandestina Willd.
. . Gompholobium aristatum Benth.
. . Gompholobium burtonioides Meissner
. . Gompholobium confertum (DC.)Crisp
2 1 Gompholobium eatoniae F.Muell.
e . . Gompholobium gompholobioides (F.Muell.)Crisp
. . Gompholobium knightianum Lindley
. . Gompholobium marginatum R.Br.
. . Gompholobium polymorphum R.Br.
. . Gompholobium preissii Meissner
. . Gompholobium scabrum Smith
. . Gompholobium shuttleworthii Meissner
. . Gompholobium tomentosum Labill.
e . . Gompholobium viscidulum Meissner
. # Gompholobium sp. Eneabba aff. aristata EAG 5560
1 1 Gompholobium sp. Gairdner Range aff. polymorphum EAG 2306
2 1 Gompholobium sp. Marchagee aff. aristatum BRM 1427
. # Gompholobium sp. aff. knightianum
. . Hardenbergia comptoniana (Andrews)Benth.
b . . Hovea chorizemifolia (Sweet)DC.
. . Hovea pungens Benth.
. . Hovea stricta Meissner
. . Hovea trisperma Benth.
. . Isotropis cuneifolia (Smith)Benth.ex B.D.Jackson
s . . Isotropis cuneifolia (Smith)Benth.ex B.D.Jackson ssp. glabra Keighery ms
. . Isotropis drummondii Meissner
e . . Isotropis juncea Turcz.
e . . Jacksonia alata Benth.
. . Jacksonia angulata Benth.
3 2 Jacksonia carduacea Meissner
. . Jacksonia condensata Crisp & J.R.Wheeler
n . . Jacksonia cupulifera Meissner
. 1 Jacksonia decumbens E.Pritzel
. . Jacksonia densiflora Benth.
. 2 Jacksonia eremodendron E.Pritzel
. . Jacksonia fasciculata Meissner
. . Jacksonia floribunda Endl.
. . Jacksonia foliosa Turcz.
. . Jacksonia furcellata (Bonpl.)DC.
. . Jacksonia lehmannii Meissner
. . Jacksonia macrocalyx Meissner
. . Jacksonia restioides Meissner
e . . Jacksonia rhadinoclada F.Muell.
. . Jacksonia sternbergiana Huegel
. . Jacksonia stricta Meissner
. . Jacksonia ulicina Meissner
e 4 . Jacksonia velutina Benth.
1 . Jacksonia sp. RJC 4841
3 2 Jacksonia sp. aff. eremodendron EAG 5571
. # Jacksonia sp. N.Hoyle 579
. . Jacksonia sp. aff. sericea ASG 6101
. . Jacksonia sp. aff. spinosa R.Pullen 9659
b 3 . Jacksonia sp. Boyagin aff. grevilleoides Foreman 1068
n . . Jacksonia sp. Kalbarri Crisp 6274
e 1 # Jacksonia sp. Marchagee B.Barnsley 920
. . Kennedia coccinea Vent.
s . . Kennedia eximia Lindley
. . Kennedia prostrata R.Br.
b . . Kennedia stirlingii Lindley
. . * Lablab purpureus (L.)Sweet
. . Latrobea tenella (Meissner)Benth.
. . Leptosema aphylla (Hook.)Crisp ms
b . . * Lotus angustissimus L.
. . Lotus australis Andrews
s . . * Lotus suaveolens Pers.
. . * Lupinus angustifolius L.
. . * Lupinus cosentinii Guss.
e . . * Medicago laciniata (L.)Miller var. laciniata
. . * Medicago minima (L.)Bartal.
. . * Medicago polymorpha L. ssp. polymorpha
. . * Medicago sativa L.
. . * Medicago tornata (L.)Miller ssp. tornata
. . * Medicago truncatula Gaertner var. truncatula
b . . * Melilotus albus Medikus
. . * Melilotus indica (L.)All.
. # Mirbelia depressa E.Pritzel
. . Mirbelia dilatata R.Br.
. . Mirbelia floribunda Benth.
e . . Mirbelia longifolia C.Gardner
. # Mirbelia microphylla (Turcz.)Benth.
. . Mirbelia ramulosa (Benth.)C.Gardner
e . . Mirbelia spinosa Benth.
. . Mirbelia trichocalyx Domin
3 2 Nemcia acuta (Benth.)Domin

Papilionaceae (Continued)

	2	2	Nemcia axillaris (Meissner)Crisp
	.	.	Nemcia capitata (Benth.)Domin
e	.	.	Nemcia carinata Crisp
b	2	1	Nemcia congesta Crisp ms
b	.	.	Nemcia dilatata (Benth.)Crisp
e	2	2	Nemcia epacridoides (Meissner)Crisp
	.	.	Nemcia ilicifolia (Meissner)Crisp
	.	1	Nemcia ilicifolia (Meissner)Crisp var. lobatum Benth. inedit.
e	.	.	Nemcia obovata (Benth.)Crisp
	.	.	Nemcia pauciflora (C.Gardner)Crisp
	.	.	Nemcia plicata (Turcz.)Crisp
	.	.	Nemcia reticulata (Meissner)Dom
b	1	I	Nemcia sparsa Crisp ms
e	.	.	Nemcia spathulata (Benth.)Crisp
b	.	.	Nemcia tricuspidata (Meissner)Crisp
	.	.	Nemcia aff. hookeri (Meissner)Crisp
	.	.	* Ornithopus compressus L.
	.	.	* Ornithopus pinnatus (Miller)Druce
	.	.	Oxylobium lineare (Benth.)Benth.
	R	#	Ptychosema pusillum Benth.
n	.	.	Pultenaea capitata (Turcz.)Druce
	.	.	Pultenaea ericifolia Benth.
	.	.	Pultenaea reticulata (Smith)Benth.
	.	.	Pultenaea verruculosa Turcz.
s	.	.	* Romneya coulteri Harvey
	.	.	Sphaerolobium linophyllum (Huegel)Benth.
	.	.	Sphaerolobium macranthum Meissner var. macranthum
	.	2	Sphaerolobium macranthum Meissner var. pulchellum (Meissner)Benth.
	.	.	Sphaerolobium medium R.Br.
	.	.	Sphaerolobium vimineum Smith
	.	.	Templetonia biloba (Benth.)Polh.
	.	.	Templetonia retusa (Vent.)R.Br.
	.	.	Templetonia sulcata (Meissner)Benth.
	.	.	* Trifolium angustifolium L.
	.	.	* Trifolium arvense L.
	.	.	* Trifolium campestre Schreber
	.	.	* Trifolium cernuum Brot.
	.	.	* Trifolium cherleri L.
	.	.	* Trifolium dubium Sibth.
	.	.	* Trifolium glomeratum L.
	.	.	* Trifolium hirtum All.
	.	.	* Trifolium lappaceum L. var. lappaceum
	.	.	* Trifolium resupinatum L.
	.	.	* Trifolium roseum ?
	.	.	* Trifolium spumosum L.
	.	.	* Trifolium subterraneum L.
	.	.	* Trifolium tomentosum L.
	.	.	* Trifolium tomentosum L. var. tomentosum
e	.	.	Urodon capitatus Turcz.
	.	.	* Vicia hirsuta (L.)Gray
	.	.	Viminaria juncea (Schrader & Wendl.)Hoffsgg.

** 167 GERANIACEAE

	.	.	* Erodium aureum Carolin
	.	.	* Erodium botrys (Cav.)Bertol.
	.	.	* Erodium cicutarium (L.)L'Her.
	.	.	Erodium cygnorum Nees
	.	.	Erodium cygnorum Nees ssp. glandulosum
s	.	.	* Erodium moschatum (L.)L'Her.
	.	.	* Pelargonium capitatum (L.)L'Her.
	.	.	Pelargonium littorale Huegel

** 168 OXALIDACEAE

	.	.	* Oxalis corniculata L.
	.	.	Oxalis perennans Haw.
s	.	.	* Oxalis pes-caprae L.
	.	.	* Oxalis purpurea L.

** 173 ZYGOPHYLLACEAE

	.	.	Nitraria billardierei DC.
s	.	.	* Tribulus terrestris L.
	.	.	Zygophyllum billardierei DC.
	.	.	Zygophyllum fruticulosum DC.
	.	.	Zygophyllum simile Hj.Eichler

** 175 RUTACEAE

	R	2	Asterolasia drummondii Paul G.Wilson
b	R	1	Asterolasia nivea (Paul G.Wilson)Paul G.Wilson
s	.	.	Boronia alata Smith
	.	.	Boronia busselliana F.Muell.
	.	.	Boronia coerulescens F.Muell. ssp. spicata Paul G.Wilson
	.	.	Boronia crassifolia Bartling
	.	.	Boronia crenulata Smith
	.	.	Boronia cymosa Endl.
	2	2	Boronia ericifolia Benth.
	.	.	Boronia molloyae J.Drumm.
b	.	.	Boronia ovata Lindley
	.	.	Boronia purdieana Diels
	.	.	Boronia ramosa (Lindley)Benth. ssp. anethifolia (Bartl.)Paul G.Wilson
	.	.	Boronia ramosa (Lindley)Benth. ssp. ramosa
	.	.	Boronia scabra Lindley
	4	.	Boronia tenuis (Lindley)Benth.
	.	.	Boronia ternata Labill. var. ternata
	.	#	Boronia sp. Mt. Lesueur aff. ramosa CAG 9081
	.	.	Diplolaena angustifolia Hook.
	.	1	Diplolaena cinerea Paul G.Wilson ms R.Covey 3085
b	.	.	Diplolaena drummondii (Benth.)Paul G.Wilson ms
	.	1	Diplolaena eneabbensis Paul G.Wilson ms
	.	.	Diplolaena ferruginea Paul G.Wilson
n	.	#	Diplolaena geraldtonensis Paul G.Wilson ms RJC 2766
	.	2	Diplolaena leemaniana Paul G.Wilson ms
	.	2	Diplolaena obovata Paul G.Wilson ms
	.	.	Diplolaena velutina (Paul G.Wilson) Paul G.Wilson ms
e	.	.	Drummondita hassellii (F.Muell.)Paul G.Wilson
e	.	.	Eriostemon brucei F.Muell. ssp. brucei
	.	2	Eriostemon pinoides Paul G.Wilson
	.	.	Eriostemon spicatus A.Rich.
	.	.	Geleznowia verrucosa Turcz.
s	.	.	Phebalium anceps DC.
e	.	.	Phebalium microphyllum Turcz.
e	.	.	Phebalium tuberculosum (F.Muell.)Benth. ssp. tuberculosum

** 182 TREMANDRACEAE
. . Platytheca galioides Steetz
. . Tetratheca confertifolia Steetz
. . Tetratheca hirsuta Lindley
b . . Tetratheca nuda Lindley
. . Tetratheca paucifolia J.Thompson
s 3 . Tetratheca pilifera Lindley
1 1 Tetratheca remota J.Thompson
. . Tetratheca sp. EAG 5175
. # Tetratheca sp. aff. nuda EAG 5245
. . Tremandra diffusa R.Br.ex DC.

** 183 POLYGALACEAE
3 2 Comesperma acerosum Steetz
. . Comesperma calymega Labill.
. . Comesperma ciliatum Steetz
. . Comesperma confertum Labill.
. . Comesperma drummondii Steetz
. . Comesperma flavum DC.
. # Comesperma griffinii Keighery ms EAG 1405
. . Comesperma integerrimum Endl.
2 . Comesperma rhadinocarpum F.Muell.
. . Comesperma scoparium Steetz
. . Comesperma spinosum F.Muell.
. . Comesperma virgatum Labill.
. . Comesperma volubile Labill.

** 185 EUPHORBIACEAE
. . Adriana quadripartita (Labill.)Gaudich.
. . Beyeria brevifolia (Muell.arg.)Benth. var. brevifolia
. . Beyeria brevifolia (Muell.arg.)Benth. var. brevipes Airy Shaw
. . Beyeria cinerea Airy Shaw
2 . Beyeria cygnorum (Muell.arg.)Benth.
. . Beyeria similis (Muell.arg.)Benth.
. . Beyeria viscosa (Labill.)Miq.
. . Euphorbia boophthona C.Gardner
. . * Euphorbia peplus L.
. . * Euphorbia terracina L.
. . Monotaxis grandiflora Endl.
. . Monotaxis lurida (Muell.arg.)Benth.
s . . Monotaxis occidentalis Endl.
. . Phyllanthus calycinus Labill.
. 2 Phyllanthus maitlandianus Diels
. . Phyllanthus scaber Klotzsch
. . Poranthera ericoides Klotzsch
b . . Poranthera huegelii Klotzsch
. . Poranthera microphylla Brong.
. . Pseudanthus virgatus (Klotzsch)Muell.Arg.
. . Ricinocarpos glaucus Endl.
. . Ricinocarpos muricatus Muell.arg.
. . Ricinocarpos psilocladus (Muell.arg.)Benth.
. . Ricinocarpos velutinus F.Muell.
. . * Ricinus communis L.
4 . Stachystemon axillaris George
e . . Stachystemon brachyphyllus Muell.arg.
. . Stachystemon vermicularis Planchon

** 186 CALLITRICHACEAE
. . * Callitriche stagnalis Scop.

** 199 CELASTRACEAE
e . . Psammomoya choretroides (F.Muell.)Diels & Loes.

** 202 STACKHOUSIACEAE
. . Stackhousia dielsii Pampan.
. . Stackhousia monogyna Labill.
. . Stackhousia muricata Lindley
. . Tripterococcus brunonis Endl.

** 207 SAPINDACEAE
. . Diplopeltis huegelii Endl. var. huegelii
. . Diplopeltis huegelii Endl. var. subintegra George
. . Diplopeltis petiolaris F.Muell.ex Benth.
. . Dodonaea aptera Miq.
. . Dodonaea bursariifolia F.Muell.
. . Dodonaea ceratocarpa Endl.
. . Dodonaea divaricata Benth.
. . Dodonaea ericoides Miq.
s 4 . Dodonaea hackettiana W.Fitzg.
. . Dodonaea inaequifolia Turcz.
. . Dodonaea pinifolia Miq.
. . Dodonaea viscosa Jacq. ssp. angustissima (DC.)West
. . Dodonaea viscosa Jacq. ssp. viscosa

** 215 RHAMNACEAE
. . Cryptandra arbutiflora Fenzl var. arbutiflora
. . Cryptandra arbutiflora Fenzl var. intermedia B.L.Rye ms
e . . Cryptandra grandiflora C.Gardner
. . Cryptandra mutila Nees
. . Cryptandra myriantha Diels ssp. myriantha
e 3 # Cryptandra nudiflora F.Muell.
e . . Cryptandra nutans Steudel
. . Cryptandra pungens Steudel
. . Cryptandra scoparia Reissek
. . Cryptandra spyridioides F.Muell.
. . Spyridium globulosum (Labill.)Benth.
e . . Stenanthemum grandiflora (C.Gardner)B.L.Rye ms
. 2 Stenanthemum humilis Benth.
. . Stenanthemum leucophracta (Schldl.)B.L.Rye ms
2 1 Stenanthemum limitatum B.L.Rye ms
e . . Stenanthemum notiale B.L.Rye ssp. elachophyllum B.L.Rye ms
. . Stenanthemum notiale B.L.Rye ssp. notiale B.L.Rye ms
. . Stenanthemum notiale B.L.Rye ssp. tomentosum (Reissek)B.L.Rye ms
e . . Stenanthemum pomaderroides (Reissek)Reissek
3 # Stenanthemum reissekii B.L.Rye ms GJK 11080
e . . Stenanthemum tridentatum Benth.
e . # Stenanthemum sp. aff. tomentosum EAG 6974
. 2 Trymalium angustifolium Reissek
. . Trymalium daphnifolium Reissek
. . Trymalium floribundum Steudel
. . Trymalium ledifolium Fenzl var. ledifolium
. . Trymalium ledifolium Fenzl var. lineare B.L.Rye ms
. . Trymalium ledifolium Fenzl var. rosmarinifolium (Steudel)Benth.

Rhamnaceae (Continued)
b 2 2 Trymalium urceolare (F.Muell.)Diels
. . Trymalium wichurae Nees ex Reissek

** 216 VITACEAE
. . Clematicissus angustissima (F.Muell.)Planchon

** 221 MALVACEAE
. . Alyogyne hakeifolia (Giord.)Alef.
. . Alyogyne huegelii (Endl.)Fryx. var. glossulariaefolius (Miq.)A.S.Mitchell
. . Alyogyne huegelii (Endl.)Fryx. var. huegelii
. . Alyogyne huegelii (Endl.)Fryx. var. wrayae A.S.Mitchell
e . . Alyogyne pinoniana (Gaudich.)Fryx.
. . Hibiscus drummondii Turcz.
b . . Hibiscus trionum L. var. trionum
. . Lavatera phebeia Sims
. . Lavatera plebeia Sims var. tomentosa
. . Lawrencia chrysoderma N.S.Lander
. . Lawrencia glomerata Hook.
. . Lawrencia spicata Hook.
. . Lawrencia squamata Nees ex Miq.
. . Lawrencia viridigrisea N.S.Lander
. . * Malva parviflora L.
. . Sida hookeriana Miq.

** 223 STERCULIACEAE
. . Commersonia pulchella Turcz.
3 2 Guichenotia alba Keighery
. . Guichenotia angustifolia (Turcz.)Gardner
. . Guichenotia ledifolia Gay
. . Guichenotia macrantha Turcz.
. . Guichenotia micrantha (Steetz)Benth.
. . Guichenotia sarotes Benth.
. . Keraudrenia hermanniifolia Gay
. . Keraudrenia integrifolia Steudel
n . . Lasiopetalum discolor Hook.
. 2 Lasiopetalum drummondii Benth.
. . Lasiopetalum floribundum Benth.
3 2 Lasiopetalum lineare S.Paust
e 1 1 Lasiopetalum ogilvieanum F.Muell.
. . Lasiopetalum oppositifolium F.Muell.
b X 1 Lasiopetalum rotundifolium S.Paust
. # Lasiopetalum sp. aff. drummondii RJC 7967
2 1 Lasiopetalum sp. Coorow aff. oldfieldii Reid 101
1 1 Lasiopetalum sp. Hill River aff. membranaceum Stoate sn
n . . Lysiosepalum rugosum Benth.
. . Rulingia corylifolia R.A.Graham
. . Rulingia densiflora (Turcz.)Benth.
. . Rulingia malvifolia Steetz var. borealis E.Pritzel
. . Thomasia cognata Steudel
. . Thomasia foliosa Gay
1 1 Thomasia formosa S.Paust
. . Thomasia glutinosa Lindley var. latifolia Benth.
. . Thomasia grandiflora Lindley
. . Thomasia macrocalyx Steudel
. . Thomasia purpurea (Aiton)Gay)
e 1 . Thomasia tenuivesta F.Muell.
e . . Thomasia tremandroides S.Paust
. . Thomasia triphylla (Labill.)Gay
b 1 1 Thomasia sp. Greenhills Paust 1322
b 1 1 Thomasia sp. New Norcia Cayser sn

** 226 DILLENIACEAE
. . Hibbertia acerosa (R.Br.ex DC.)Benth.
s . . Hibbertia amplexicaulis Steudel
. . Hibbertia aurea Steudel
b . . Hibbertia commutata Steudel
n . . Hibbertia conspicua (J.Drumm.ex Harvey)Gilg
. . Hibbertia crassifolia (Turcz.)Benth.
. . Hibbertia desmophylla (Benth.)F.Muell.
. . Hibbertia eatoniae Diels
. . Hibbertia enervia (DC.)Hoogl.
. . Hibbertia exasperata (Steudel)Briq.
. . Hibbertia glomerata Benth.
. . Hibbertia glomerosa (Benth.)F.Muell.
. . Hibbertia helianthemoides (Turcz.)F.Muell.
. . Hibbertia huegelii (Endl.)F.Muell.
. . Hibbertia hypericoides (DC.)Benth.
e . . Hibbertia inclusa Benth.
b . 2 Hibbertia lasiopus Benth.
s . . Hibbertia lineata Steudel
b 4 1 Hibbertia miniata C.Gardner
. . Hibbertia montana/ovata intermediate
. . Hibbertia mylnei Benth.
. 2 Hibbertia pachyrrhiza Steudel
s . . Hibbertia perfoliata Endl.
e . . Hibbertia polystachya Benth.
. . Hibbertia racemosa (Endl.)Gilg
. . Hibbertia rhadinopoda F.Muell.
e . . Hibbertia rostellata Turcz.
. . Hibbertia rupicola (S.Moore)C.Gardner
3 . Hibbertia spicata F.Muell. ssp. leptotheca J.R.Wheeler
. . Hibbertia spicata F.Muell. ssp. spicata
. . Hibbertia stellaris Endl.
. . Hibbertia subvaginata (Steudel)F.Muell.
. . Hibbertia vaginata (Benth.)F.Muell.
. . Hibbertia sp. EAG 2253
. . Hibbertia sp. EAG 2480
. . Hibbertia sp. (grey leaf) aff. hypericoides EAG 2227
. # Hibbertia sp. hairy leaves aff. crassifolia EAG 7944
. . Hibbertia aff. gracilipes Benth. J.Wheeler 2575

** 236 FRANKENIACEAE
. . Frankenia pauciflora DC. ssp. pauciflora
e . . Frankenia pulverulenta L.

** 243 VIOLACEAE
. . Hybanthus calycinus (DC.ex Ging.)F.Muell.
. 2 Hybanthus floribundus (Lindley)F.Muell. ssp. Hill River
. . Hybanthus floribundus (Lindley)F.Muell. ssp. floribundus

** 263 THYMELAEACEAE
. . Pimelea angustifolia R.Br.
. . Pimelea argentea R.Br.
e . . Pimelea avonensis B.L.Rye
s . . Pimelea calcicola B.L.Rye
b . . Pimelea ciliata B.L.Rye ssp. ciliata
. . Pimelea ferruginea Labill.
. . Pimelea floribunda Meissner
. . Pimelea floribunda Meissner EAG 4884
. . Pimelea gilgiana E.Pritzel
b . # Pimelea imbricata R.Br. var. major (Meissner) B.L.Rye
. 2 Pimelea imbricata R.Br. var. piligera (Benth.) Diels & E.Pritzel
s . . Pimelea lanata R.Br.
. . Pimelea leucantha Diels
. . Pimelea microcephala R.Br. ssp. microcephala
n . . Pimelea preissii Meissner
s . . Pimelea rosea R.Br.
e . . Pimelea sessilis B.L.Rye
. . Pimelea suaveolens Meissner ssp. suaveolens
. . Pimelea sulphurea Meissner
. . Pimelea sylvestris R.Br.
. . Pimelea villifera Meissner

** 273 MYRTACEAE
s . . Agonis flexuosa (Sprengel)Schauer
b . . Agonis grandiflora Benth.
. . Agonis linearifolia (DC.)Schauer
. . Astartea fascicularis (Labill.)DC.
e . . Astartea heteranthera C.Gardner
. . Baeckea camphorosmae Endl.
. . Baeckea crispiflora F.Muell.
n . . Baeckea decipiens W.Fitzg.
. . Baeckea floribunda Benth.
. . Baeckea grandiflora Benth.
e . . Baeckea grandis E.Pritzel
e . . Baeckea megaflora M.E.Trudgen ms
. . Baeckea moschata C.Gardner ms
e . . Baeckea muricata C.Gardner
e . . Baeckea ochropetala F.Muell.
n . . Baeckea pentagonantha F.Muell.
. . Baeckea robusta F.Muell.
. . Baeckea staminosa E.Pritzel
. . Baeckea tenuifolia (Turcz.)Domin
. . Baeckea sp. EAG 5206
. . Baeckea sp. aff. camphorosmae EAG 6355
n . . Baeckea sp. EAG 7412A
n . . Baeckea sp. aff. preissiana EAG 7109
b 1 1 Baeckea sp. "A" Perth Flora
n . . Baeckea sp. "cryptonoma`
n . . Baeckea sp. 31 Yuna
. . Baeckea sp. 9
e . . Baeckea sp. Moora aff. tenuifolia
n . . Baeckea sp. Mt Magnet - Geraldton
3 2 Beaufortia bicolor A.Strid
. . Beaufortia bracteosa Diels
. . Beaufortia elegans Schauer
3 2 Beaufortia eriocephala W.Fitzg.
. 2 Beaufortia macrostemon Lindley
b . 2 Beaufortia purpurea Lindley
. . Beaufortia squarrosa Schauer
. 2 Beaufortia sp. aff. bracteosa Diels EAG 1176
. . Callistemon phoeniceus Lindley
e 3 . Calothamnus brevifolius T.J.Hawkeswood
. . Calothamnus glaber (Benth.)T.J.Hawkeswood
. . Calothamnus hirsutus T.J.Hawkeswood
n . . Calothamnus homalophyllus F.Muell.
. . Calothamnus lateralis Lindley
. . Calothamnus longissimus F.Muell.
e . . Calothamnus oldfieldii F.Muell.
b 4 1 Calothamnus pachystachyus Benth.
. . Calothamnus quadrifidus R.Br.
. . Calothamnus sanguineus Labill.
. . Calothamnus torulosus Schauer
. . Calothamnus sp. aff. hirsutus EAG 6960
. . Calytrix acutifolia L.A.Craven
. . Calytrix angulata Lindley
. . Calytrix aurea Lindley
n . . Calytrix brevifolia (Meissner)Benth.
2 1 Calytrix chrysantha L.A.Craven
. . Calytrix depressa (Turcz.)Benth.
2 2 Calytrix drummondii L.A.Craven
. . Calytrix ecalycata L.A.Craven
2 1 Calytrix eneabbensis L.A.Craven
. . Calytrix flavescens Cunn.
. . Calytrix fraseri Cunn.
. . Calytrix glutinosa Lindley
. . Calytrix gracilis Benth.
b . . Calytrix habrantha L.A.Craven
. . Calytrix leschenaultii (Schauer)Benth.
. . Calytrix oldfieldii Benth.
2 1 Calytrix platycheiridia L.A.Craven
. . Calytrix sapphirina Lindley
. . Calytrix strigosa Cunn.
2 1 Calytrix superba C.Gardner & George
4 2 Calytrix sylvana L.A.Craven
. . Calytrix variabilis Lindley
e . . Chamelaucium brevifolium Benth.
b . . Chamelaucium ciliatum Desf.
e 3 2 Chamelaucium conostigmum N.Marchant & Keighery ms
. . Chamelaucium drummondii Meissner ssp. drummondii
. . Chamelaucium drummondii Meissner ssp. hallii (Ewart)N.Marchant & Keighery ms
R 1 Chamelaucium griffinii N.Marchant & Keighery ms GJK 11009
. . Chamelaucium halophilum N.Marchant & Keighery ms
. . Chamelaucium hamatum N.Marchant & Keighery ms EAG 4594
. . Chamelaucium uncinatum Schauer
s 1 1 Chamelaucium sp. Gingin aff. pauciflorum N.Marchant sn.
. . Conothamnus trinervis Lindley
. 2 Corynanthera flava J.W.Green
b R 1 Darwinia acerosa W.Fitzg.
e . . Darwinia capitellata B.L.Rye
b R . Darwinia carnea C.Gardner
1 . Darwinia chapmaniana N.Marchant & Keighery ms
b . . Darwinia citriodora (Endl.)Benth.
. 1 Darwinia helichrysoides (Meissner)Benth.

Myrtaceae (Continued)

. . Darwinia helichrysoides # neildiana
. . Darwinia helichrysoides # sanguinea
. . Darwinia mollissima N.Marchant & Keighery ms EAG 4621
. . Darwinia neildiana F.Muell.
. . Darwinia neildiana # sanguinea
. . Darwinia pauciflora Benth.
. 1 Darwinia pinifolia (Lindley)Benth.
e . . Darwinia purpurea (Endl.)Benth.
4 2 Darwinia sanguinea (Meissner)Benth.
. 2 Darwinia speciosa (Meissner)Benth.
b . . Darwinia thymoides (Lindley)Benth.
. 1 Darwinia sp. Muchea
n 2 # Eremaea acutifolia F.Muell.
. 1 Eremaea asterocarpa R.J.Hnatiuk ssp. asterocarpa
. # Eremaea asterocarpa R.J.Hnatiuk ssp. histoclada R.J.Hnatiuk
. 1 Eremaea atala R.J.Hnatiuk
. 2 Eremaea beaufortioides Benth. var. beaufortioides
. # Eremaea beaufortioides Benth. var. lachnosanthe R.J.Hnatiuk
. 1 Eremaea beaufortioides Benth. var. microphylla R.J.Hnatiuk
n . . Eremaea ebracteata F.Muell. var. brachyphylla R.J.Hnatiuk
n . . Eremaea ebracteata F.Muell. var. ebracteata
. 2 Eremaea ectadioclada R.J.Hnatiuk
. # Eremaea fimbriata Lindley
. 2 Eremaea hadra R.J.Hnatiuk
. 1 Eremaea pauciflora (Endl.)Druce ssp. calyptra R.J.Hnatiuk
. # Eremaea pauciflora (Endl.)Druce ssp. loncophylla R.J.Hnatiuk
. . Eremaea pauciflora (Endl.)Druce ssp. pauciflora
. 2 Eremaea purpurea C.Gardner
. 2 Eremaea violacea F.Muell. ssp. rhaphiophylla R.J.Hnatiuk
. 2 Eremaea violacea F.Muell. ssp. violacea
. . Eremaea # codonocarpa R.J.Hnatiuk
. . Eremaea # phoenicea R.J.Hnatiuk
. . Eucalpytus gomphocephala DC.
2 2 Eucalyptus abdita Brooker & Hopper
R 1 Eucalyptus absita Grayling & Brooker
. . Eucalyptus accedens W.Fitzg.
. . Eucalyptus albida Maiden & Blakely
2 1 Eucalyptus angularis Brooker & Hopper
1 1 Eucalyptus annuliformis Grayling & Brooker ms
3 . Eucalyptus arachnaea Brooker & Hopper
R . Eucalyptus argutifolia Grayling & Brooker ms
R 1 Eucalyptus balanites Grayling & Brooker ms
. . Eucalyptus baudiniana Carr & Carr
. . Eucalyptus brachycorys Blakely
. . Eucalyptus calophylla Lindley
. . Eucalyptus camaldulensis Dehnh.
4 2 Eucalyptus carnabyi Blakely & H.Steedman
n . . Eucalyptus celastroides Turcz. ssp. virella Brooker
. . Eucalyptus conveniens L.Johnson & Blaxell
R 2 Eucalyptus crispata Brooker & Hopper
R 1 Eucalyptus crispata Brooker & Hopper
. . Eucalyptus decipiens Endl. ssp. chalara Brooker & Hopper
. . Eucalyptus decipiens Endl. ssp. decipiens
. . Eucalyptus decurva F.Muell.
2 . Eucalyptus diminuta Brooker & Hopper ms SDH 2764
2 # Eucalyptus diminuta Brooker & Hopper ms
e . . Eucalyptus dolichocera L.Johnson & K.Hill ms
R 1 Eucalyptus dolorosa Brooker & Hopper
. . Eucalyptus drummondii Benth.
. # Eucalyptus drummondii Benth. var. humilis
. . Eucalyptus ebbanoensis Maiden ssp. ebbanoensis
n 4 # Eucalyptus ebbanoensis Maiden ssp. photina Brooker & S.D.Hopper
e . . Eucalyptus eremophila (Diels)Maiden ssp. eremophila
. . Eucalyptus erythrocorys F.Muell.
e . . Eucalyptus erythronema Turcz. var. marginata (Benth.)Maiden
. . Eucalyptus eudesmioides F.Muell. ssp. eudesmioides
4 . Eucalyptus exilis Brooker
. . Eucalyptus falcata Turcz.
e . . Eucalyptus flocktoniae (Maiden)Maiden
. . Eucalyptus foecunda Schauer ssp. foecunda
3 1 Eucalyptus foecunda Coolimba Schauer MIHB 9556
. . Eucalyptus gittinsii Brooker & Blaxell
. . Eucalyptus hypochlamydea Brooker ssp. ecdysiastes L.Johnson & K.Hill
. . Eucalyptus hypochlamydea Brooker ssp. hypochlamydea
R 1 Eucalyptus impensa Brooker & Hopper
. . Eucalyptus incrassata Labill.
R 1 Eucalyptus johnsoniana Brooker & Blaxell
. . Eucalyptus jucunda C.Gardner
e . . Eucalyptus kochii Maiden & Blakely ssp. kochii
. . Eucalyptus lane-poolei Maiden
R 1 Eucalyptus lateritica Brooker & Hopper
E 1 Eucalyptus leprophloia Brooker & Hopper
. . Eucalyptus leptophylla F.Muell.ex Miq.
. . Eucalyptus leptopoda Benth. ssp. arctata Johnson & Hill
. . Eucalyptus loxophleba Benth. ssp. loxophleba
e . . Eucalyptus loxophleba Benth. ssp. supralaevis Johnson & Hill
4 2 Eucalyptus macrocarpa Hook. ssp. elachantha Brooker & S.D.Hopper
e . . Eucalyptus macrocarpa Hook. ssp. macrocarpa
. . Eucalyptus marginata Donn ex.Smith ssp. marginata
. . Eucalyptus marginata Donn ex.Smith ssp. thalassica Brooker & S.D.Hopper
. . Eucalyptus obtusiflora DC.
. . Eucalyptus oraria L.Johnson
4 2 Eucalyptus pendens Brooker
. . Eucalyptus petrensis Brooker & Hopper
b . . Eucalyptus pileata Blakely
. . Eucalyptus pluricaulis Brooker & Hopper ssp. pluricaulis
R . Eucalyptus pruiniramis Johnson & Hill
. . Eucalyptus pyriformis Turcz.
e R 1 Eucalyptus rhodantha Blakely & H.Steedman ssp. petiolaris Blakely & H.Steedman

Myrtaceae (Continued)

	R	2	Eucalyptus rhodantha Blakely & H.Steedman ssp. rhodantha
	.	.	Eucalyptus rigidula Maiden
	.	.	Eucalyptus rudis Endl. ssp. rudis
e	.	.	Eucalyptus salmonophloia F.Muell.
e	.	.	Eucalyptus semivestita L.Johnson & K.Hill
	.	.	Eucalyptus sheathiana Maiden
	1	1	Eucalyptus sp. (Lesueur) aff. haematoxylon EAG 2481
b	.	.	Eucalyptus spathulata Hook. ssp. spathulata
e	.	.	Eucalyptus stowardii Maiden
e	.	.	Eucalyptus subangusta (Blakely)Brooker & Hopper ssp. subangusta ms
e	1	.	Eucalyptus subangusta (Blakely)Brooker & Hopper ssp. virescens Brooker & Hopper
	R	1	Eucalyptus suberea Brooker & Hopper
	.	.	Eucalyptus tetragona (R.Br.)F.Muell.
	.	.	Eucalyptus todtiana F.Muell.
	.	2	Eucalyptus wandoo Blakely ssp. pulverea Brooker & Hopper
	.	.	Eucalyptus wandoo Blakely ssp. wandoo
	4	1	Eucalyptus zopherophloia Brooker & Hopper ms aff. accedens MIHB 8634
	.	#	Eucalyptus sp. aff. 'aspera' EAG 7183
b	.	.	Eucalyptus sp. aff. conglobata
b	.	.	Eucalyptus sp. aff. flocktoniae
	.	#	Homalocalyx chapmanii Craven
	.	.	Homalospermum firmum Schauer
	.	.	Hypocalymma angustifolium Endl.
	.	.	Hypocalymma linifolium Turcz.
	.	.	Hypocalymma puniceum C.Gardner
s	.	.	Hypocalymma robustum Endl.
	2	2	Hypocalymma tetrapterum Turcz.
	.	.	Hypocalymma xanthopetalum F.Muell.
	2	1	Hypocalymma xanthopetalum F.Muell. ssp. linearifolium C.Gardner ms CAG 9096
	2	1	Hypocalymma sp. (Cataby) aff. tetraptrum GJK 5151
	2	1	Hypocalymma sp. Badgingarra aff. angustifolium GJK 4595
	1	1	Hypocalymma sp. Lesueur aff. ericifolium EAG 1972
	.	.	Kunzea ericifolia (Smith)Heynh.
	.	.	Kunzea ericifolia # recurva
	.	.	Kunzea glabrescens Tolken ms
	3	1	Kunzea incognita Tolken ms DJE Whibley 4887
	.	.	Kunzea limnicola Tolken ms aff. micrantha EAG 5382
	.	.	Kunzea micrantha Schauer
	.	.	Kunzea recurva Schauer
	.	.	Leptospermum erubescens Schauer
s	.	. *	Leptospermum laevigatum (Gaertner)F.Muell.
	.	.	Leptospermum spinescens Endl.
b	.	.	Leptospermum sp. aff. roei EAG 5894
e	.	.	Malleostemon hursthousei (W.Fitzg.)J.W.Green
e	.	.	Malleostemon roseus (E.Pritzel)J.W.Green
n	.	.	Malleostemon sp. EAG 7537
	1	1	Malleostemon sp. (Cooljarloo) B Backhouse sn
	.	.	Melaleuca acerosa Schauer
b	.	2	Melaleuca acuminata F.Muell. ssp. websteri (S.Moore)Barlow ms
e	.	.	Melaleuca adnata Turcz.
	.	.	Melaleuca brevifolia Turcz.
	.	.	Melaleuca cardiophylla F.Muell.
	.	.	Melaleuca ciliosa Turcz.
e	.	.	Melaleuca conothamnoides C.Gardner
e	.	.	Melaleuca cordata Turcz.
	.	.	Melaleuca coronicarpa D.A.Herb. ssp. coronicarpa
	.	.	Melaleuca cuticularis Labill.
n	.	.	Melaleuca eleuterostachya F.Muell.
e	.	.	Melaleuca filifolia F.Muell.
	.	.	Melaleuca hamulosa Turcz.
b	.	.	Melaleuca haplantha Barlow
	.	.	Melaleuca holosericea Schauer
	.	.	Melaleuca huegelii Endl. ssp. huegelii
	.	.	Melaleuca incana R.Br. ssp. incana
	.	.	Melaleuca lanceolata Otto
	.	.	Melaleuca lateriflora Benth. var. acutifolia Benth.
e	.	.	Melaleuca lateriflora Benth. ssp. lateriflora
	.	.	Melaleuca lateritia A.Dietr.
	.	.	Melaleuca lateritia # teretifolia
s	.	.	Melaleuca laxiflora Turcz.
e	.	.	Melaleuca leiocarpa F.Muell.
e	.	.	Melaleuca leptospermoides Schauer
n	.	.	Melaleuca megacephala F.Muell.
e	.	.	Melaleuca microphylla Smith
e	.	.	Melaleuca nesophila F.Muell.
	.	.	Melaleuca pentagona Labill.
	.	.	Melaleuca platycalyx Diels
	.	.	Melaleuca preissiana Schauer
	.	.	Melaleuca psalmophila Diels
	.	.	Melaleuca pungens Schauer
	.	.	Melaleuca radula Lindley
	.	.	Melaleuca rhaphiophylla Schauer
	.	.	Melaleuca scabra R.Br.
	3	2	Melaleuca sclerophylla Diels
	.	.	Melaleuca seriata Lindley
e	.	.	Melaleuca steedmanii C.Gardner
	.	.	Melaleuca teretifolia Endl.
	.	.	Melaleuca trichophylla Lindley
	.	.	Melaleuca tuberculata Schauer
	.	.	Melaleuca uncinata R.Br.
	.	.	Melaleuca undulata Benth. ssp. Wongan
	.	.	Melaleuca urceolaris F.Muell.ex Benth.
	.	.	Melaleuca viminea Lindley ssp. viminea
	.	.	Melaleuca sp. aff. sclerophylla EAG 1590
	.	.	Melaleuca sp. aff. megacephala EAG 2359
	.	.	Melaleuca sp. aff. acerosa EAG 2436
	.	.	Melaleuca sp. aff. ciliosa EAG 5468
e	.	.	Melaleuca sp. aff. leptospermoides EAG 7207
n	.	.	Melaleuca sp. aff. pentagona
	.	#	Melaleuca sp. Eneabba EAG 8147
	.	.	Melaleuca sp. indet. (thick leaf) EAG 5358
	.	1	Micromyrtus rogeri J.W.Green ms
	.	1	Micromyrtus sp. Arrowsmith River LA Craven 6873
	.	1	Micromyrtus sp. Three Springs RJ Cranfield 7885
	.	.	Pericalymma ellipticum (Endl.)Schauer
	.	2	Pericalymma floridum Schauer
	.	.	Phymatocarpus porphyrocephalus F.Muell.
	.	.	Pileanthus filifolius Meissner

Myrtaceae (Continued)

. . Pileanthus peduncularis Endl.
. . Regelia ciliata Schauer
s . . Regelia inops (Schauer)Schauer
b 4 1 Regelia megacephala C.Gardner
b . . Regelia sp. aff. inops EAG 5883
e 3 2 Rinzia crassifolia Turcz.
. . Scholtzia "pseudo-enigma" M.E.Trudgen ms EAG 8177
. . Scholtzia capitata F.Muell.ex Benth.
e . . Scholtzia cf. parviflora (1) F.Muell.
. . Scholtzia chapmanii M.E.Trudgen ms aff. teretifolia EAG 6989
. . Scholtzia ciliata F.Muell.
b . . Scholtzia drummondii Benth.
. . Scholtzia enigma M.E.Trudgen ms
. . Scholtzia involucrata (Endl.)Druce
. . Scholtzia laxiflora Benth.
e . . Scholtzia oligandra F.Muell.ex Benth.
. . Scholtzia parviflora F.Muell.
. . Scholtzia spathulata (Turcz.)Benth.
. 2 Scholtzia teretifolia Benth.
. . Scholtzia umbellifera F.Muell.
. . Scholtzia sp. aff. involucrata EAG 5500
. . Scholtzia sp. aff. ciliata EAG 8404
e . . Scholtzia sp. Burma Road aff. teretifolia EAG 7555
. 1 Scholtzia sp. Dinner Hill
. . Scholtzia sp. aff. laxiflora EAG 5405
e . . Thryptomene australis Endl.
. . Thryptomene baeckeacea F.Muell.
e . . Thryptomene denticulata (F.Muell.)Benth.
. . Thryptomene hyporhytis Turcz.
. . Thryptomene prolifera Turcz.
. . Thryptomene racemulosa Turcz.
. . Thryptomene strongylophylla F.Muell.ex Benth.
. 1 Thryptomene sp. Eneabba RJ Cranfield 8433
b . . Verticordia acerosa Lindley ssp. acerosa
. . Verticordia acerosa Lindley ssp. preissii (Schauer) George
1 1 Verticordia albida George
3 1 Verticordia amphigia George
1 1 Verticordia argentea George
4 1 Verticordia aurea George
. . Verticordia auriculata George
b 1 2 Verticordia bifimbriata George
2 2 Verticordia blepharophylla George
. . Verticordia brachypoda Turcz.
. . Verticordia centipeda George
e . . Verticordia chrysantha Endl.
. . Verticordia chrysanthella George
n 3 . Verticordia chrysostachys Meissner ssp. pallida George
1 1 Verticordia dasystylis George ssp. oestopoia George
. . Verticordia densiflora Lindley var. cespitosa (Turcz.)George
. . Verticordia densiflora Lindley var. densiflora
n 3 . Verticordia densiflora Lindley var. roseostella George
. . Verticordia densiflora Lindley var. stelluligera (Meissner)George
. . Verticordia drummondii Schauer
. . Verticordia endlicheriana Schauer ssp. compacta George
. 2 Verticordia endlicheriana Schauer ssp. manicula George
. . Verticordia eriocephala (Desf.)DC.
1 1 Verticordia fragrans George
. . Verticordia grandis J.Drumm.ex Meissner
. . Verticordia huegelii Endl. var. huegelii
b . . Verticordia huegelii Endl. var. stylosa (Turcz.) George
1 . Verticordia huegelii Endl. var. tridens George
3 2 Verticordia insignis Endl. ssp. eomagis George
b . 2 Verticordia insignis Endl. ssp. insignis
. . Verticordia laciniata George
4 . Verticordia lindleyi Schauer var. lindleyi
1 1 Verticordia luteola George var. luteola
. . Verticordia luteola George var. rosea E.A.George & George
. . Verticordia monadelpha Turcz. var. monadelpha
n . . Verticordia monodelpha Turcz. var. callitricha (Meissner)George
n 2 # Verticordia muelleriana E.Pritzel ssp. minor George
3 2 Verticordia muelleriana E.Pritzel ssp. muelleriana
. . Verticordia nitens (Lindley)Endl.
. . Verticordia nobilis Meissner
. . Verticordia ovalifolia Meissner
1 # Verticordia paludosa George
. 2 Verticordia patens George
4 . Verticordia penicillaris F.Muell.
. . Verticordia pennigera Endl.
. . Verticordia picta Endl.
. . Verticordia plumosa (Desf.)Druce var. brachyphylla (Diels)George
3 2 Verticordia rutilastra George
. . Verticordia serrata (Lindley)Schauer var. ciliata George
b 1 # Verticordia serrata (Lindley)Schauer var. linearis George
e 1 1 Verticordia spicata F.Muell. ssp. squamosa George

** 275 ONAGRACEAE

s . . Epilobium billardierianum Ser. ssp. billardierianum
s . . Epilobium billardierianum Ser. ssp. cinereum (A.Rich.)Raven & Engelhorn
s . . * Epilobium ciliatum Raf.
s . . Epilobium hirtigerum Cunn.
s . . * Epilobium tetragonum L.
s . 2 * Oenothera drummondii Hook.
s . . * Oenothera glazioviana Micheli

** 276 HALORAGACEAE

. . Glischrocaryon aureum (Lindley)Orch.
e . . Glischrocaryon flavescens (J.Drumm.ex Hook.) Orch.
. . Gonocarpus cordiger (Fenzl)Endl.ex Nees
. . Gonocarpus nodulosus Nees
. . Gonocarpus pithyoides (R.Br.ex Benth.)Orch.
s 2 . Haloragis aculeolata Benth.
s . . Haloragis brownii (J.D.Hook.)Schindler
1 1 Haloragis foliosa Benth.
1 . Haloragis tenuifolia Benth.

Haloragaceae (Continued)

s . . Myriophyllum crispatum Orch.
. . Myriophyllum drummondii Benth.
. . Myriophyllum muelleri Sonder ex Benth.
s . . Myriophyllum tillaeoides Diels

** 281 APIACEAE

b . . Actinotus glomeratus Benth.
e . . Actinotus humilis (F.Muell.& Tate)Domin
. . Actinotus leucocephalus Benth.
. . Apium annuum P.S.Short
. . Apium prostratum Labill.ex Vent.
. . Centella asiatica L.
. . * Conium maculatum L.
. . Daucus glochidiatus (Labill.)Fischer, C.Meyer & Ave-Lall.
s 1 # Eryngium pinnatifidum Bunge ssp. palustre Keighery ms
1 . Eryngium pinnatifidum Bunge ssp. pinnatifidum
s 1 . Eryngium subdecumbens Keighery ms
. . Homalosciadium homalocarpum (F.Muell.) H.Eichler
. . Hydrocotyle alata A.Rich.
. . Hydrocotyle blepharocarpa F.Muell.
. . Hydrocotyle callicarpa Bunge
1 2 Hydrocotyle coorowensis H.J.Eichler ms
. . Hydrocotyle diantha DC.
b R 1 Hydrocotyle lemnoides Benth.
. . Hydrocotyle medicaginoides Turcz.
. . Hydrocotyle pilifera Turcz. ssp. glabrata Benth.
. . Hydrocotyle pilifera Turcz. ssp. pilifera
. . Hydrocotyle rugulosa Turcz.
s . . Hydrocotyle scutellifera Benth.
. . Hydrocotyle tetragonocarpa Bunge
. # Hydrocotyle trachycarpa F.Muell.
4 . Platysace cirrosa Bunge
b . . Platysace compressa (Labill.)Norman
X . Platysace dissecta (Benth.)Norman
e . . Platysace effusa (Turcz.)Norman
. . Platysace juncea (Bunge)Norman
e . . Platysace maxwellii (F.Muell.)Norman
s . . Platysace ramosissima (Benth.)Norman
. . Platysace teres (Bunge)Norman
. . Platysace xerophila (E.Pritzel)L.Johnson
. . Schoenolaena juncea Bunge
. . Trachymene coerulea R.A.Graham var. coerulea
. . Trachymene coerulea R.A.Graham var. leucopetala Benth.
. . Trachymene cyanopetala (F.Muell.)Benth.
. . Trachymene ornata (Endl.)Druce
. . Trachymene pilosa Smith
. . Uldinia ceratocarpa (W.Fitzg.)N.Burb.
s . . Xanthosia atkinsoniana F.Muell.
. . Xanthosia candida (Benth.)Steudel
. . Xanthosia ciliata Hook.
. . Xanthosia fruticulosa Benth.
. . Xanthosia huegelii (Benth.)Steudel
4 1 Xanthosia tomentosa George

** 288 EPACRIDACEAE

. . Acrotriche cordata (Labill.)R.Br.
2 . Andersonia gracilis DC.
. . Andersonia heterophylla Sonder
. . Andersonia involucrata Sonder
. . Andersonia lehmanniana Sonder
1 1 Andersonia longifolia (Benth.)L.Watson
. # Andersonia sp. Mt. Benia aff. involucratum EAG 2213
. . Astroloma ciliatum (Lindley)Druce
e . . Astroloma epacridis (DC.)Druce
. . Astroloma glaucescens Sonder
. . Astroloma macrocalyx Sonder
. . Astroloma microcalyx Sonder
. . Astroloma microdonta F.Muell.ex Benth.
. . Astroloma pallidum R.Br.
2 2 Astroloma pedicellatis A.Wilson ms aff. serratifolium NG Marchant sn
e . . Astroloma serratifolium (DC.)Druce var. horridulum (Pritzel)Druce
b . . Astroloma serratifolium (DC.)Druce var. placidum (Pritzel)Druce
. . Astroloma stomarrhena Sonder
. . Astroloma xerophyllum (DC.)Sonder
4 . Astroloma sp. Cataby aff. pallidum EAG 1022
. . Brachyloma preissii Sonder
4 . Conostephium minus Lindley
. . Conostephium pendulum Benth.
. . Conostephium preissii Sonder
. # Conostephium sp. Badgingarra aff. minus EAG 6813
. . Croninia kingiana (F.Muell.)J.Powell
. . Leucopogon allittii F.Muell.
. . Leucopogon australis R.Br.
. . Leucopogon capitellatus DC.
. . Leucopogon carinatus R.Br.
. . Leucopogon cinereus E.Pritzel
. 2 Leucopogon cochlearifolius A.Strid EAG 5518
. . Leucopogon conostephioides DC.
n . . Leucopogon cordatus Sonder
. . Leucopogon crassiflorus F.Muell.
. . Leucopogon elegans Sonder
n . . Leucopogon fimbriatus Stschegl.
2 # Leucopogon glaucifolius W.Fitzg.
. . Leucopogon gracillimus DC.
. . Leucopogon hamulosus E.Pritzel
. . Leucopogon hispidus E.Pritzel
. . Leucopogon insularis Cunn.ex DC.
. . Leucopogon leptanthus Benth.
e . . Leucopogon marginatus W.Fitzg.
. 2 Leucopogon nutans E.Pritzel
R 1 Leucopogon obtectus Benth.
. . Leucopogon oldfieldii Benth.
3 2 Leucopogon oliganthus E.Pritzel
. . Leucopogon oxycedrus Sonder
. . Leucopogon parviflorus (Andrews)Lindley
. . Leucopogon pendulus R.Br.
. 2 Leucopogon phyllostachys Benth.
. . Leucopogon planifolius Sonder
1 1 Leucopogon plumuliflorus F.Muell.
. . Leucopogon polymorphus Sonder
. . Leucopogon propinquus R.Br.

Epacridaceae (Continued)
b . . Leucopogon psalmophilus E.Pritzel
. . Leucopogon pulchellus Sonder
. . Leucopogon racemulosus DC.
. . Leucopogon sprengelioides Sonder
. . Leucopogon striatus R.Br.
s . . Leucopogon tenuis DC.
. . Leucopogon sp. aff. carinatus EAG 5388
. 2 Leucopogon sp. aff. rubicundus EAG 2206
. . Leucopogon sp. EAG 2366
. . Leucopogon sp. aff. cymbiformus EAG 2698
e . . Leucopogon sp. aff. amplexans EAG 7304
n . . Leucopogon sp. aff. insularis J.M.Powell 1705
. . Leucopogon sp. (Sp A in Perth Flora) BJK 25
. . Leucopogon sp. (clasping leaf) EAG 2641
. . Leucopogon sp. (recurved leaf) EAG 1031
. . Lysinema ciliatum R.Br.
2 . Lysinema elegans Sonder
b 2 1 Monotoca leucantha E.Pritzel
. . Styphelia tenuiflora Lindley

** 293 PRIMULACEAE
. . * Anagallis arvensis L. var. arvensis
. . * Anagallis arvensis L. var. caerulea Gouan
. . Samolus junceus R.Br.
. . Samolus repens (Forster & G.Forster)Pers. ssp. floribundus Benth.
. . Samolus repens (Forster & G.Forster)Pers. var. paucifolius Benth.
. . Samolus repens (Forster & G.Forster)Pers. ssp. repens

** 294 PLUMBAGINACEAE
. . * Limonium companyonis (Gren.& Billot)Kuntze
e . . * Limonium sinuatum (L.)Miller

** 302 LOGANIACEAE
. . Logania campanulata R.Br.
. . Logania flaviflora F.Muell.
. . Logania serpyllifolia R.Br.
. . Logania spermacocea F.Muell.
. . Logania vaginalis (Labill.)F.Muell.
. . Mitrasacme paradoxa R.Br.

** 303 GENTIANACEAE
. . * Centaurium erythraea Rafn
. . * Centaurium spicatum (L.)Fritsch ex Janchen
. . * Cicendia filiformis (L.)Delarbre

** 303A MENYANTHACEAE
. . Villarsia albiflora F.Muell.
. . Villarsia capitata Nees
3 . Villarsia congestiflora F.Muell.

** 304 APOCYNACEAE
. . Alyxia buxifolia R.Br.

** 305 ASCLEPIDACEAE
b . . Leichardtia australis R.Br.
e . . Rhyncharrhena linearis (Decne.)K.L.Wilson

** 307 CONVOLVULACEAE
n . . Bonamia rosea (F.Muell.)H.Hallier
. . Calystegia sepium (L.)R.Br.
. . * Convolvulus arvensis L.
. . Convolvulus erubescens Sims
. . Wilsonia backhousei J.D.Hook.
. . Wilsonia humilis R.Br. var. humilis

** 307A CUSCUTACEAE
. . Cuscuta australis R.Br.

** 310 BORAGINACEAE
e . . * Buglossoides arvensis (L.)I.M.Johnston
. . * Echium plantagineum L.
e . . Halgania cyanea Lindley
. . Halgania littoralis Gaudich.
. . Halgania preissiana Lehm.
. . Halgania sp. aff. littoralis

** 311A CHLOANTHACEAE
. . Cyanostegia corifolia Munir
e . . Cyanostegia lanceolata Turcz.
n . . Dicrastylis fulva J.Drumm.ex Harvey
. . Dicrastylis reticulata J.Drumm.ex Harvey
b . . Lachnostachys albicans Hook.
. . Lachnostachys eriobotrya (F.Muell.)Druce
b 3 1 Lachnostachys ferruginea Hook. var. paniculata (Ewart)Munir forma obtusifolia Munir
b 1 . Lachnostachys ferruginea Hook. var. paniculata (Ewart)Munir forma paniculata
. . Lachnostachys verbascifolia F.Muell.
e . . Mallophora rugosifolia Munir
2 2 Physopsis spicata Turcz.
. . Pityrodia bartlingii (Lehm.)Benth.
b . . Pityrodia dilatata (F.Muell.)Benth.
. . Pityrodia hemigenioides (F.Muell.)Benth.
. . Pityrodia loxocarpa (F.Muell.)Druce
. . Pityrodia uncinata (Turcz.)Benth.
. . Pityrodia verbascina (F.Muell.)Benth.
1 1 Pityrodia viscida W.Fitzg.

** 313 LAMIACEAE
3 . Hemiandra coccinea O.Sarg.
R 1 Hemiandra gardneri O.Sarg.
. . Hemiandra leiantha Benth.
. . Hemiandra linearis Benth.
. . Hemiandra pungens R.Br.
. . Hemiandra rubriflora O.Sarg.
R 2 Hemiandra rutilans O.Sarg.
b . . Hemigenia barbata Bartling
b . . Hemigenia canescens (Bartling)Benth.
2 2 Hemigenia curvifolia F.Muell.
. . Hemigenia diplanthera F.Muell.
. . Hemigenia incana (Lindley)Benth.
b . . Hemigenia microphylla Benth.
3 # Hemigenia pimelifolia F.Muell.
. . Hemigenia ramosissima Benth.
n 3 . Hemigenia saligna Diels
. . Hemigenia scabra Benth.
b . . Hemigenia sericea Benth.
e . . Hemigenia westringioides Benth.
e . . * Mentha pulegium L.

Lamiaceae (Continued)
. . * Mentha spicata L.
b . . Microcorys ericifolia Benth.
b . 2 Microcorys longifolia (Benth.)Benth.
n 1 # Microcorys tenuifolia Benth.
. . Microcorys sp. Coomallo aff. ericifolia L.Haegi 2677
. . * Salvia verbenaca L.
s . . * Stachys arvensis (L.)L.
e . . Westringia cephalantha F.Muell.
. . Westringia dampieri R.Br.

** 315 SOLANACEAE
. . Anthocercis genistoides Miers
. . Anthocercis ilicifolia Labill. ssp. ilicifolia
n 3 . Anthocercis intricata F.Muell.
. . Anthocercis littorea Labill.
e . . Anthotroche pannosa Endl.
e 3 . Anthotroche walcottii F.Muell.
n . . Cyphanthera racemosa (F.Muell.)L.Haegi
. . Lycium australe F.Muell.
. . * Lycium ferocissimum Miers
. . * Nicotiana glauca Graham
. . Nicotiana occidentalis Wheller ssp. hesperis (N.Burb.)P.Horton
. . Nicotiana rotundifolia Lindley
. . Solanum hoplopetalum Bitter & Summerh.
e . . Solanum lasiophyllum Dunal ex Poiret
. . * Solanum nigrum L.
. . Solanum oldfieldii F.Muell.
. . Solanum simile F.Muell.
. . Solanum symonii H.Eichler

** 316 SCROPHULARIACEAE
. . * Bellardia trixago (L.)All.
. . * Dischisma arenarium E.Meyer
. . * Dischisma capitatum (Thunb.)Choisy
2 . Euphrasia scabra R.Br.
. . Glossostigma drummondii Benth.
b . . * Gratiola peruviana L.
s . . * Kickxia elatine (L.)Dumort
. . Limosella australis R.Br.
. . * Parentucellia latifolia (L.)Caruel
s . . * Parentucellia viscosa (L.)Caruel
s . . * Polycarena heterophylla (L.f.)Levyns
. . * Zaluzianskya divaricata (Thunb.)Walp.

** 320 OROBRANCHACEAE
. . * Orobanche minor Smith

** 323 LENTIBULARIACEAE
. . Polypompholyx multifida (R.Br.)F.Muell.
. . Polypompholyx tenellus (R.Br.)Lehm.
s . . Utricularia inaequalis A.DC.
s . . Utricularia menziesii R.Br.
. . Utricularia violacea R.Br.
. . Utricularia volubilis R.Br.

** 326 MYOPORACEAE
e . . Eremophila decipiens Ostenf.
e . . Eremophila exilifolia F.Muell.
. . Eremophila glabra (R.Br.)Ostenf. ssp. Brixton GJ Keighery 6246
. . Eremophila glabra (R.Br.)Ostenf. ssp. West Coast TEH Aplin 3401
. . Eremophila glabra (R.Br.)Ostenf. var. tomentosa Chinnock
e . . Eremophila lehmanniana (Sonder ex.Lehm.) Chinn.
R . Eremophila microtheca (F.Muell.ex Benth.) F.Muell. ssp.
e . . Eremophila oldfieldii F.Muell.
e . . Eremophila scaberula W.Fitzg. nov.
. . Myoporum caprarioides Benth.
. . Myoporum insulare R.Br.

** 329 PLANTAGINACEAE
e . . * Plantago coronopus L.
. . * Plantago coronopus L. ssp. commutata (Guss.) Pilger
. . Plantago debilis R.Br.
. . Plantago exilis Decne.
s . . * Plantago major L.

** 331 RUBIACEAE
. . * Galium divaricatum Pourret ex.Lam.
. . * Galium murale (L.)All.
. . Opercularia spermacocea Labill.
. . Opercularia vaginata Labill.

** 336 DIPSACACEAE
s . . * Scabiosa atropurpurea L.

** 337 CUCURBITACEAE
. . * Citrullus lanatus (Thunb.)Matsumura & Nakai
. . * Cucumis myriocarpus Naudin

** 339 CAMPANULACEAE
. . * Wahlenbergia capensis (L.)A.DC.
. . Wahlenbergia preissii Vreise

** 340 LOBELIACEAE
. . Isotoma hypocrateriformis (R.Br.)Druce
. . Isotoma pusilla Benth.
. . Isotoma scapigera (R.Br.)Don
. . Lobelia alata Labill.
b . . Lobelia gibbosa Labill.
. . Lobelia heterophylla Labill.
. . Lobelia rhombifolia Vriese
b . . Lobelia rhytidosperma Benth.
. . Lobelia tenuior R.Br.
. . Lobelia winfridae Diels
. . * Monopsis simplex (L.)F.Wimmer

** 341 GOODENIACEAE

4 . Anthotium junciforme (Vriese)D.Morrison
. . Brunonia australis Smith
. . Dampiera alata Lindley
. . Dampiera altissima F.Muell.ex Benth.
. . Dampiera angulata Rajput & Carolin
. . Dampiera carinata Benth.
. . Dampiera coronata Lindley
. . Dampiera cuneata R.Br.
e . . Dampiera eriocephala Vriese
n . . Dampiera incana R.Br. var. fuscescens Benth.
. . Dampiera juncea Benth.
n 2 # Dampiera krauseana Rajput & Carolin
. . Dampiera lavandulacea Lindley
. . Dampiera lindleyi Vriese
. . Dampiera linearis R.Br.
. . Dampiera oligophylla Benth.
b . . Dampiera pedunculata Rajput & Carolin
e 1 1 Dampiera restiacea E.Pritzel
n . . Dampiera salahae Rajput & Carolin
. . Dampiera spicigera Benth.
1 1 Dampiera tephrea Rajput & Carolin
. . Dampiera teres Lindley
b . . Dampiera trigona Vriese
e . . Dampiera wellsiana F.Muell.
b 1 1 Goodenia arthrotricha F.Muell.ex Benth.
. . Goodenia berardiana (Gaudich.)Carolin
. . Goodenia caerulea R.Br.
s . . Goodenia claytoniacea F.Muell.ex Benth.
. . Goodenia convexa Carolin
. . Goodenia convexa Carolin
. . Goodenia fasciculata (Benth.)Carolin
. . Goodenia hassallii F.Muell.
b . . Goodenia helmsii (Pritzel)Carolin
. . Goodenia micrantha Hemsley ex Carolin
. . Goodenia mimuloides S.Moore
b . . Goodenia pinifolia Vriese
. . Goodenia pinnatifida Schldl.
. . Goodenia pulchella Benth.
s . . Goodenia pusilla (Vriese)Vriese
b . . Goodenia scapigera R.Br.
1 1 Goodenia xanthotricha Vriese
. # Goodenia sp. aff. hassallii
. . Lechenaultia biloba Lindley
s . . Lechenaultia expansa R.Br.
. . Lechenaultia floribunda Benth.
. . Lechenaultia formosa R.Br.
. . Lechenaultia hirsuta F.Muell.
1 2 Lechenaultia juncea E.Pritzel
. . Lechenaultia linarioides DC.
n 4 . Lechenaultia longiloba F.Muell.
. . Lechenaultia stenosepala E.Pritzel
. . Lechenaultia tubiflora R.Br.
. . Scaevola anchusifolia Benth.
s . . Scaevola calliptera Benth.
. . Scaevola canescens Benth.
. . Scaevola crassifolia Labill.
1 1 Scaevola eneabba Carolin
. . Scaevola glandulifera DC.
3 # Scaevola globosa (Carolin)Carolin
. . Scaevola globulifera Labill.
n . . Scaevola hamiltonii K.Krause
e . . Scaevola humifusa Vriese
. 2 Scaevola lanceolata Benth.
. . Scaevola nitida R.Br.
n 2 # Scaevola oldfieldii F.Muell.
. . Scaevola phlebopetala F.Muell.
. . Scaevola pilosa Benth.
b . 2 Scaevola platyphylla Lindley
. . Scaevola porocarya F.Muell.
n . . Scaevola repens Vriese var. angustifolia Vriese
. # Scaevola repens Vriese var. erecta Carolin ms
. . Scaevola repens Vriese var. repens
. . Scaevola sericophylla F.Muell.ex Benth.
. . Scaevola spinescens R.Br.
. . Scaevola thesioides Benth. ssp. thesioides
. . Scaevola tomentosa Gaudich.
. . Scaevola virgata Carolin
n . # Scaevola sp. aff. humifusa A.C.Burns 18
. . Velleia cycnopotamica F.Muell.
e . . Velleia discophora F.Muell.
n . . Velleia rosea S.Moore
. . Velleia trinervis Labill.
. . Verreauxia reinwardtii (Vriese)Benth.
e . . Verreauxia villosa E.Pritzel

** 343 STYLIDIACEAE

. . Levenhookia dubia Sonder
. . Levenhookia leptantha Benth.
1 . Levenhookia octomaculata R.Erickson & J.H.Willis
. . Levenhookia pauciflora Benth.
. . Levenhookia preissii (Sonder)F.Muell.
. . Levenhookia pusilla R.Br.
. . Levenhookia stipitata (Sonder)F.Muell.
. . Stylidium adpressum Benth. var. adpressum
. . Stylidium adpressum Benth. var. patens R.Erickson & J.H.Willis
2 1 Stylidium aeonioides Carlq.
b . . Stylidium amoenum R.Br.
. . Stylidium breviscapum R.Br.
. . Stylidium brunonianum Benth. ssp. brunonianum
. . Stylidium brunonianum Benth. ssp. minor Carlq.
. . Stylidium bulbiferum Benth. ssp. bulbiferum
n . . Stylidium bulbiferum Benth. ssp. ciliatum
n . . Stylidium burbidgeanum A.J.Lowrie ms
. . Stylidium calcaratum R.Br.
. . Stylidium caricifolium Lindley ssp. affine (Sonder) Carlq.
. . Stylidium caricifolium Lindley ssp. caricifolium
. . Stylidium carlquistii A.J.Lowrie
. . Stylidium carnosum Benth.
. . Stylidium crossocephalum F.Muell.
b 1 . Stylidium cymiferum A.J.Lowrie & Carlq.
. . Stylidium dichotomum DC.
. . Stylidium diuroides Lindley var. albo-lilacinum Erickson & Willis
. . Stylidium diuroides Lindley var. diuroides
2 # Stylidium diuroides Lindley var. paucifoliatum A.J.Lowrie & Carlq.
. . Stylidium divaricatum Sonder
1 . Stylidium drummondianum A.J.Lowrie & Carlq.

Stylidiaceae (Continued)

b . . Stylidium ecorne (F.Muell.ex R.Erickson & J.H.Willis
. . Stylidium elongatum Benth.
2 . Stylidium emarginatum Sonder ssp. emarginatum
s . . Stylidium guttatum R.Br.
. . Stylidium hispidum Lindley
. . Stylidium inundatum R.Br.
4 1 Stylidium inversiflorum Carlq.
. . Stylidium junceum R.Br. var. brevius (E.Pritzel) Carlq.
. . Stylidium junceum R.Br. var. junceum
. . Stylidium leptocalyx Sonder
. . Stylidium leptophyllum DC.
s 1 . Stylidium longitubum Benth.
. . Stylidium macrocarpum (Benth.)R.Erickson & J.H.Willis
. . Stylidium maitlandianum E.Pritzel
. . Stylidium maritima D.Coates ms
s 1 . Stylidium mimeticum Lowrie & Carlq.
. 2 Stylidium miniatum Mildbr.
2 1 Stylidium nonscandens Carlq.
. . Stylidium obtusatum Sonder
. . Stylidium periscelianthum R.Erickson & J.H.Willis
. . Stylidium perpusillum J.D.Hook.
. . Stylidium petiolare Sonder
. . Stylidium piliferum R.Br.
n 1 1 Stylidium pseudocaespitosum Mildbr.
. . Stylidium pubigerum Sonder
b . . Stylidium pulchellum Sonder
. . Stylidium pycnostachyum Lindley
. . Stylidium repens R.Br.
. . Stylidium rhynchocarpum Sonder
n . # Stylidium ricae A.J.Lowrie & Carlquist
. . Stylidium roseo-alatum R.Erickson & J.H.Willis
. . Stylidium schoenoides DC.
b . . Stylidium spathulatum R.Br.
. . Stylidium squamellosum DC.
. . Stylidium striatum Lindley
b . . Stylidium utricularioides Benth.
. 2 Stylidium sp. aff. bulbiferum AH Burbidge 2100
. . Stylidium sp. (Eneabba) aff. repens ASG 2341
. 1 Stylidium sp. Dookanooka EAG 6982
. . Stylidium sp. Hay Flat Rd EAG 6860

** 345 ASTERACEAE

. . Actinobole condensatum (A.Gray)P.S.Short
. . Actinobole uliginosum (A.Gray)H.Eichler
. . Actites megalocarpa (J.D.Hook.)N.S.Lander
. . Angianthus cunninghamii (DC.)Benth.
. . Angianthus preissianus (Steetz)Benth.
. . Angianthus tomentosus Wendl.
. 2 Angianthus sp. aff. milnei GJK 2579
. . * Arctotheca calendula (L.)Levyns
. . * Arctotheca populifolia (P.Bergius)Norlindh
. . * Arctotis stoechadifolia P.Bergius
. . Asteridea asteroides (Turcz.)G.Kroner
. . Asteridea athrixioides (Sonder & F.Muell.)G.Kroner
. . Asteridea nivea (Steetz)G.Kroner
. . Asteridea pulverulenta Lindley
. . Blennospora drummondii A.Gray
. . Brachyscome bellidioides Steetz
. . Brachyscome ciliaris (Labill.)Less.
. . Brachyscome exilis Sonder
. . Brachyscome glandulosa (Steetz)Benth.
. . Brachyscome iberidifolia Benth.
. . Brachyscome perpusilla (Steetz)J.Black
. . Brachyscome pusilla Steetz
. . Bracteantha bracteata (Vent.)A.Anderb. & Haegi
b . . Calocephalus angianthoides (Steetz)Benth.
. . Calocephalus brownii (Cass.)F.Muell.
. . Calocephalus priceanus Domin
. . Calotis hispidula (F.Muell.)F.Muell.
. . * Carduus pycnocephalus L.
. . * Carduus tenuiflorus Curtis
e . . * Carthamus lanatus L.
. . * Centaurea melitensis L.
. . Cephalosorus carpesioides (Turcz.)P.S.Short
. . Ceratogyne obionoides Turcz.
. . * Chondrilla juncea L.
. . * Chrysanthemum coronarium L.
. . * Chrysanthemum segetum L.
. . Chrysocoryne drummondii A.Gray
. . Chthonocephalus pseudevax Steetz
. . * Cirsium vulgare (Savi)Ten.
s . . * Conyza albida Willd.ex Sprengel
. . Cotula australis (Sieber ex Sprengel)J.D.Hook.
. . * Cotula bipinnata Thunb.
. . Cotula coronopifolia L.
. . Cotula cotuloides (Steetz)Druce
. . Craspedia glauca (Labill.)Spreng.
b . . Craspedia sp. A in Perth Flora EAG 5161
. . * Dittrichia graveolens (L.)Greuter
2 . Epitriche demissus (A.Gray)P.S.Short
. . Erymophyllum ramosum (A.Gray)Paul G.Wilson ssp. involucratum (F.Muell.) Paul G.Wilson
. . Erymophyllum tenellum (Turcz.)Paul G.Wilson
. . Gilberta tenuifolia Turcz.
. . Gnaphalium indutum J.D.Hook.
. . Gnaphalium sphaericum Willd.
. . Gnephosis acicularis Benth.
. . Gnephosis angianthoides (Steetz)Anderberg.
. . Gnephosis drummondii (A.Gray)P.S.Short
. . Gnephosis pygmaea (A.Gray)Benth.
. . Gnephosis tenuissima Cass.
. . Gnephosis trifida (P.S.Short)P.S.Short
e . . Gnephosis uniflora ?
b . . * Gorteria personata L.
. . * Hedypnois rhagadioloides (L.)F.W.Schmidt
. . * Helianthus annuus L.
. . Helichrysum leucopsideum DC.
. . Helichrysum macranthum Benth.
. . Hyalochlamys globifera A.Gray
. . Hyalosperma cotula (Benth.)Paul G.Wilson
. . Hyalosperma demissum (A.Gray)Paul G.Wilson
. . Hyalosperma glutinosum Steetz ssp. glutinosum
e . . Hyalosperma glutinosum Steetz ssp. venustum (S.Moore)P.G.Wilson
. . * Hypochaeris glabra L.
. . Isoetopsis graminifolia Turcz.
. . Lagenifera huegelii Benth.
s . . Lagenifera stipitata (Labill.)DC.

Asteraceae (Continued)

	. .		Lawrencella davenportii (F.Muell.)Paul G. Wilson
	. .		Lawrencella rosea Lindley
	. .		Leptorhynchos scabrus (Benth.)Haegi
	. .		Millotia myosotidifolia (Benth.)Steetz
	. .		Millotia tenuifolia Cass.
	3 .		Myriocephalus appendiculatus Benth.
s	. .		Myriocephalus helichrysoides A.Gray
	. .		Myriocephalus rhizocephalus (DC.)Benth.
	1 1		Myriocephalus suffruticosus Benth.
	. .		Olearia axillaris (DC.)F.Muell.ex Benth.
	. .		Olearia ciliata (Benth.)F.Muell.ex Benth.
	. .		Olearia conspicua Lander & Harris ms
	. .		Olearia dampieri (DC.)N.S.Lander ssp. dampieri ms
	. .		Olearia dampieri (DC.)N.S.Lander ssp. eremicola (Diels)N.S.Lander ms
	. .		Olearia elaeophila (DC.)F.Muell.ex Benth.
	. .		Olearia homolepis (F.Muell.)F.Muell.ex Benth.
	. .		Olearia incondita Lander ms
	. .		Olearia paucidentata (Steetz)F.Muell.ex Benth.
n	. .		Olearia revoluta F.Muell.ex Benth.
	. .		Olearia rudis (Benth.)F.Muell.ex Benth.
	. .	*	Onopordum acaulon L.
	. .	*	Osteospermum clandestinum (Less.)Norlindh
	. .	*	Pentzia globifera (Thunb.)Hutch.
	. .		Picris angustifolia DC. ssp. angustifolia
s	2 2		Pithocarpa achilleoides P.Lewis & Summerh.
	. .		Pithocarpa pulchella Lindley
	. .		Podolepis canescens Cunn.ex DC.
	. .		Podolepis capillaris (Steetz)Diels
	. .		Podolepis gracilis (Lehm.)R.A.Graham
	. .		Podolepis lessonii (Cass.)Benth.
s	. .		Podolepis rugata Labill.
	. .		Podolepis tepperi (F.Muell.)D.A.Cooke
	. .		Podotheca angustifolia (Labill.)Less.
	. .		Podotheca chrysantha (Steetz)Benth.
	. .		Podotheca gnaphalioides R.A.Graham
	2 .		Podotheca uniseta P.S.Short ms
	. .		Pogonolepis lanigera (Ewart & J.White)P.S.Short
	. .		Pogonolepis stricta Steetz
	. .	*	Pseudognaphalium luteo-album (L.)Hilliard
	. .		Pterochaeta paniculata Steetz
	. .		Quinetia urvillei Cass.
	. .	*	Reichardia tingitana (L.)Roth
	. .		Rhodanthe chlorocephala (Turcz.)Paul G.Wilson ssp. rosea (Hook.)Wilson
	. .		Rhodanthe citrina (Benth.)Paul G.Wilson
n	1 .		Rhodanthe collina Paul.G.Wilson
s	. .		Rhodanthe corymbosa (A.Gray)Paul G.Wilson
n	. .		Rhodanthe humboldtiana (Gaudich.)Paul G.Wilson
b	. .		Rhodanthe laevis (A.Gray)Paul G.Wilson
	. .		Rhodanthe manglesii Lindley
	. .		Rhodanthe oppositifolia (S.Moore)Paul G.Wilson
	. .		Rhodanthe pygmaea (DC.)Paul G.Wilson
	. .		Rhodanthe polycephala (A.Gray)Paul G.Wilson
	. .		Rhodanthe spicata (Steetz)Paul G.Wilson
	. .		Rhodanthe stricta (Lindley)Paul G.Wilson
	. .		Rutidosis multiflora (Nees)Robinson
n	. .		Schoenia cassiniana ?
n	1 .		Schoenia filifolia (Turcz.)Paul G.Wilson ssp. subulifolia (F.Muell.)Paul.G.Wilson
b	3 2		Senecio gilbertii Turcz.
	. .		Senecio glomeratus Desf.ex Poiret
	. .		Senecio glossanthus (Sonder)Belcher
	. .		Senecio hispidulus A.Rich.
	. .		Senecio lautus G.Forster ex Willd. ssp. dissectifolius Ali
	. .		Senecio lautus G.Forster ex Willd. ssp. maritimus Ali.
	. .		Senecio minimus Poiret
e	. .		Senecio minimus Poiret var. minimus
s	. .		Senecio quadridentatus Labill.
s	. .		Senecio ramosissimus DC.
s	. .	*	Senecio vulgaris L.
b	. .		Senecio sp. aff. quadridentatus RJC 4174
	. .		Siloxerus filifolius (Benth.)Ostenf.
	. .		Siloxerus humifusus Labill.
	. .	*	Sonchus asper Hill
	. .	*	Sonchus oleraceus L.
	. .	*	Sonchus tenerrimus L.
	. .	*	Taraxacum officinale Wigg.
	. .	*	Tolpis barbata (L.)Gaertner
	. .		Trichanthodium exilis (W.Fitzg.)P.S.Short
	. .		Trichocline spathulata (Cunn.ex DC.)J.H.Willis
	. .	*	Urospermum picroides (L.)Scop.ex F.W.Schmidt
	. .	*	Ursinia anthemoides (L.)Poiret
	. .	*	Vellereophyton dealbatum (Thunb.)Hilliard
	. .		Waitzia acuminata Steetz var. acuminata
	. .		Waitzia acuminata Steetz var. albicans Paul G.Wilson
	. .		Waitzia nitida (Lindley)Paul G.Wilson
	. .		Waitzia podolepis (Gaudich.)Benth.
	. .		Waitzia suaveolens (Benth.)Druce var. suaveolens

Appendix 7 Name Changes for Previous Studies

Corrections to spelling, new identifications, taxonomic changes etc.

No attempt has been made to add any additional species which might have been found in the respective study areas unless several taxa have been confused or recently segregated.

Study (area)
Study : Hopkins & Hnatiuk (1980) (Drought & Kwongan)
Study : Hopkins & Hnatiuk (1981) (Eneabba)
Study : Griffin & Hopkins (1981) (Brush Harvesting)
Study : Griffin et. al. (1982) (Mt Adams)
Study : Griffin et. al. (1983) (Eneabba Laterites)
Study : Griffin & Hopkins (1985) (Mt Lesueur)
Study : Wills (1989) (Beekeepers Reserve)
Study : Griffin & Keighery (1989) (Sandplain Survey)
Study : Griffin (1990) (Dandaragan Remnants)
Study : Burbidge et. al. (1990) (Lesueur report Appendix 1)
Study : Burbidge et. al. (1990) (Lesueur report Appendix 2)
Study : Griffin (1991) (Watheroo Bentonite Lakes)
Study : Griffin (1992) (Bindoon Remnants)
Study : Weston et. al. (1992) (Ellenbrook)
Study : Griffin (1993) (Quindalup Dunes)

Correction lists follow the order in which they were originally presented, sorted alphabetically either by genus and species or family, genus and species. Where the former case, the family number is included. A code (1 - 6) indicates the justification for the change.

Study : Hopkins & Hnatiuk (1980) (Drought & Kwongan)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	3	Acacia ? barbinervis	A. barbinervis var. borelis
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
288	5	Astroloma pallidum	A. microdonta
288	5	Astroloma serratifolium	A. microdonta & A. pedicellatis
90	2	Banksia hookerana	B. hookeriana
90	3	Banksia sp. 1. EAG 975	B. chamaephyton
90	3	Banksia sp. 2. RJH 771510	B. grossa
90	3	Banksia sp. 3.	B. incana
273	5	Beaufortia bracteosa	B. aff. bracteosa
273	3	Calytrix flavescens	C. chrysantha
70	3	Casuarina humilis	Allocasuarina humilis
90	3	Conospermum incurvum	C. unilateralis
90	3	Conospermum triplinervium	C. wycherleyi ssp. glabrum
55	3	Conostylis crassinervia	C. crassinerva ssp. absens
55	3	Conostylis sp. 3. aff. crassinervia	C. canteriata
54C6		Dasypogon bromeliifolius	D. obliquifolius
165	3	Daviesia juncea	D. triflora & D. debilis ssp. debilis
165	5	Daviesia sp. aff. nudiflora	D. nudiflora
90	3	Dryandra sessilis	D. sessilis ssp. sessilis
273	3	Eremaea acutifolia	E. ectadioclada
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
90	3	Grevillea didymobotyra	G. didymobotrya ssp. didymobotrya
90	3	Grevillea shuttleworthiana	G. integrifolia ssp. shuttleworthiana
90	3	Grevillea synapheae	G. synapheae ssp. pachyphylla
90	5	Hakea cinerea	H. corymbosa
226	4	Hibbertia sp. aff. furfuracea	Hibbertia aff. hypericoides
90	5	Isopogon sp. aff. tridens	I. tridens
90	3	Lambertia multiflora	L. multiflora ssp. Northern
288	5	Leucopogon ? hispida	L. hispidus
32	5	Mesomelaena stygia ssp. preissii	Mesomelaena stygia ssp. deflexa
32	3	Mesomelaena stygia ssp. pseudostygia	Mesomelaena pseudostygia
313	4	Microcorys sp. RJH 771501	M. sp. Coomallo
90	3	Persoonia angustiflora	P. angustiflora var. angustiflora
90	5	Petrophile media	P. brevifolia
39	3	Restio sphacelatus	R. sinuosus
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
273	3	Verticordia chrysantha	V. laciniata
273	3	Verticordia grandiflora	V. nobilis
273	3	Verticordia sp. aff. nitens RJH 771142	V. aurea
54D5		Xanthorrhoea reflexa	X. aff. preissii

Study : Hopkins & Hnatiuk (1981) (Eneabba)

sorted by genus & species

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	3	Acacia ? barbinervis	A. barbinervis var. borelis
163	3	Acacia latipes	A. latipes var. latipes
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
39	3	Alexgeorgea arenicola	A. nitens
31	5	Amphipogon ? strictus	A. debilis
288	5	Andersonia gracilis	A. aff. heterophylla
345	3	Angianthus humifusus	Siloxerus filifolius
345	3	Angianthus pusillus	Gnephosis tenuissima
55	3	Anigozanthos humilis	A. humilis ssp. humilis
55	3	Anigozanthos manglesii	A. manglesii ssp. quadrans
281	5	Apiaceae indet. 2.	Xanthosia huegelii
288	5	Astroloma ? serratifolium RJH 790073	Astroloma microdonta
288	5	Astroloma cf. microdonta	A. glaucescens
288	5	Astroloma pallidum	A. microdonta
90	2	Banksia hookerana	B. hookeriana
90	3	Banksia sp. 1. EAG 975	B. chamaephyton
90	3	Banksia sp. 2. RJH 771510	B. grossa
90	3	Banksia sp. 3.	B. incana
90	3	Banksia sp. 4. RJH 771569	B. lanata
90	3	Banksia sp. 5. EAG 857	B. leptophylla ssp. melletica
90	3	Banksia sphaerocarpa	B. micrantha
273	5	Beaufortia bracteosa	B. aff. bracteosa
185	3	Beyeria brevifolia	B. brevifolia var. brevipes
175	3	Boronia coerulescens	B. coerulescens ssp. spicata
175	5	Boronia purdieana	B. crassifolia
175	5	Boronia sp. indet. 1. RJH 771378	B. coerulescens ssp. spicata
345	2	Brachycome iberidifolia	Brachyscome iberidifolia
165	3	Burtonia conferta	Gompholobium confertum
54F	5	Caesia rigidifolia	C. occidentalis
66	3	Caladenia flava	C. flava ssp. flava
345	3	Calocephalus priceanus	Gnephosis angianthoides
273	3	Calothamnus sp. cf. villosus RJH 771425	C. hirsutus
273	5	Calytrix empetroides	C. sapphirina
273	3	Calytrix flavescens	C. chrysantha
273	3	Calytrix tenuifolia	C. depressa
131	5	Cassytha pubescens	C. flava
70	3	Casuarina humilis	Allocasuarina humilis
70	3	Casuarina microstachya	Allocasuarina microstachya
90	3	Conospermum acerosum	C. acerosum ssp. acerosum
90	3	Conospermum incurvum	C. unilateralis
90	3	Conospermum triplinervium	C. wycherleyi ssp. glabrum
55	3	Conostylis aculeata	C. aculeata ssp. breviflora
55	3	Conostylis crassinervia	C. crassinerva ssp. absens
55	3	Conostylis sp. 1. RJH 771121	C. canteriata
55	3	Conostylis sp. 2. EAG 961	C. hiemalis
55	3	Conostylis sp. 3. aff. crassinervia	C. canteriata
55	3	Conostylis sp. 4. RJH 771497	C. seminuda
55	3	Conostylis sp. 5. EAG 631	C. neocymosa
55	3	Conostylis teretifolia	C. teretifolia ssp. teretifolia
54F	3	Corynotheca ? micrantha	C. micrantha ssp. micrantha
149	3	Crassula colorata	C. colorata var. colorata
149	5	Crassula sp. RJH 790061	C. helmsii

215	5	Cryptandra glabriflora	C. spyridioides
215	3	Cryptandra humilis	Stenanthemum humile
215	5	Cryptandra tomentosa	C. pungens
341	3	Dampiera oligophylla var. juncea	D. oligophylla
54C	6	Dasypogon bromeliifolius	D. obliquifolius
165	5	Daviesia ? pectinata	D. decurrens
165	5	Daviesia dielsii	D. oxyclada & D. ? physodes
165	2	Daviesia epiphylla	D. epiphyllum
165	3	Daviesia juncea	D. triflora & D. debilis ssp. debilis
165	3	Daviesia quadrilatera	D. podophylla
165	5	Daviesia sp. aff. pectinata	D. decurrens
165	3	Daviesia striata	D. chapmanii
143	3	Drosera drummondii	D. barbigera
143	3	Drosera erythrorhiza	D. erythrorhiza ssp. magna
143	3	Drosera gigantea	D. gigantea ssp. gigantea
143	3	Drosera humilis	D. stolonifera ssp. humilis & D. stolonifera ssp. porrecta
143	5	Drosera leucoblasta	D. spp.
143	3	Drosera menziesii	D. menziesii ssp. menziesii & D. menziesii ssp. thysanosepala
143	3	Drosera paleacea	D. paleacea ssp. paleacea
90	3	Dryandra kippistiana	D. kippistiana var. kippistiana
90	6	Dryandra nivea	D. nivea & D. stenoprion
90	3	Dryandra sp. aff. falcata	D. glauca
273	3	Eremaea acutifolia	E. ectadioclada
273	5	Eucalyptus rhodantha	E. macrocarpa ssp. elachantha
165	3	Gastrolobium obovatum	Nemcia pauciflora
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
39	3	Gen. nov. aff. Ecdeiocolea	Ecdeiocolea georgei
39	3	Genus aff. Ecdeiocolea	Ecdeiocolea georgei
316	5	Glossostigma diandrum	G. drummondii
165	5	Gompholobium aristatum	G. sp. Eneabba
341	5	Goodenia filiformis var. minutiflora	G. micrantha
90	5	Grevillea acrobotrya	G. uniformis
90	3	Grevillea didymobotyra	G. didymobotrya ssp. didymobotrya
90	3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
90	3	Grevillea shuttleworthiana	G. integrifolia ssp. shuttleworthiana
90	3	Grevillea synapheae	G. synapheae ssp. pachyphylla
55	3	Haemodorum paniculatum	H. venosum
55	3	Haemodorum sp. RJH 771355	H. loratum
90	5	Hakea cinerea	H. corymbosa
345	3	Helipterum cotula	Hyalosperma cotula
226	5	Hibbertia polystachya	H. spicata ssp. spicata
226	4	Hibbertia sp. aff. furfuracea	Hibbertia aff. hypericoides
243	5	Hybanthus floribundus	H. floribundus ssp. Hill River
273	5	indet. 1.	C. chrysantha
32	5	indet. 2.	Schoenus curvifolius
90	5	Isopogon sp. aff. tridens	I. tridens
90	3	Lambertia multiflora	L. multiflora ssp. Northern
54F	3	Laxmannia sessiliflora ssp. irwinensis	L. sessiliflora ssp. drummondii
39	3	Lepidobolus sp. AJMH s.n.	L. quadratus
32	5	Lepidosperma sp. 1. RJH 771550	L. scabrum
32	5	Lepidosperma sp. 2. RJH 771377	L. angustatum
288	5	Leucopogon sp. 1.	L. hispidus
54F	5	Liliaceae indet. 1.	Tricoryne robusta
54J	5	Liliaceae indet. 2.	Burchardia umbellata
54C	5	Lomandra sp. 1.	L. sericea
54C	5	Lomandra sp. aff. glauca ssp. collina	L. collina
273	5	Melaleuca hamulosa	M. viminea ssp. viminea
273	4	Melaleuca sp. 1. EAG 1368	M. aff. sclerophylla
273	4	Melaleuca sp. 2. RJH 771339	M. aff. acerosa
32	3	Mesomelaena stygia ssp. pseudostygia	Mesomelaena pseudostygia
313	4	Microcorys sp. RJH 771501	M. sp. Coomallo
165	3	Mirbelia spinosa	M. trichocalyx

276	5	Myriophyllum integrifolium	M. drummondii
95	3	Olax benthamiana	O. scalariformis
95	5	Olax phyllanthi	O. benthamiana
165	3	Oxylobium capitatum	Nemcia capitata
90	3	Persoonia angustiflora	P. angustiflora var. angustiflora
90	5	Persoonia sp. 1. aff. sulcata	P. sp. Eneabba
90	5	Petrophile media	P. brevifolia
50	3	Philydrella pygmaea	P. pygmaea ssp. pygmaea
31	5	Poaceae indet. 3.	Amphipogon debilis
66	3	Prasophyllum macrostachyum	P. macrostachyum ssp. macrostachyum
66	3	Prasophyllum ovale	P. ovale ssp. triglochin
106	3	Ptilotus gaudichaudii	P. gaudichaudii var. gaudichaudii
39	3	Restio sphacelatus	R. sinuosus
341	5	Scaevola humifusa	S. virgata
341	5	Scaevola paludosa	S. repens ssp. erecta
341	5	Scaevola sp. 1.	S. repens ssp. erecta
32	5	Schoenus sp. 1. aff. pleiostemoneus RH 771480	S. pleiostemoneus
32	5	Schoenus sp. 2. aff. pedicellatus RJH 771468	S. pedicellatus
32	5	Schoenus sp. 4.	S. pleiostemoneus
32	4	Schoenus sp. 5. RJH 771108	S. sp. Warradagee
32	5	Schoenus sp. 6. EAG 2145	S. subflavus
32	3	Scirpus marginatus	Isolepis marginata
32	3	Scirpus sp. 1. indet. 771404	Isolepis sp.1. indet RJH 771404
32	3	Scirpus sp. 2.	Isolepis sp. 2
32	3	Scirpus sp. 3.	Isolepis sp. 3
32	3	Scirpus sp. 4. indet. 771540	Isolepis sp.4indet RJH 771540
113	3	Silene gallica	S. gallica var. gallica
165	5	Sphaerolobium scabriusculum	S. macranthum var. macranthum
165	5	Sphaerolobium sp. EAG 1003	S. macranthum var. pulchellum
202	3	Stackhousia brunonis	Tripterococcus brunonis
90	1	Strangea cynanchicarpa	S. cynanchocarpa
343	3	Stylidium brunonianum	S. brunonianum ssp. brunonianum
343	3	Stylidium diuroides	S. diuroides ssp. paucifoliatum
343	3	Stylidium junceum	S. junceum ssp. junceum & S. junceum ssp. brevius
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
273	5	Thryptomene mucronulata	T. hyporhytis
54F	5	Thysanotus ? tenellus EAG 672	T. asper
54F	5	Thysanotus patersonii	T. manglesianus
54F	5	Thysanotus pauciflorus	T. teretifolius
55	5	Tribonanthes uniflora	T. violacea
54F	3	Tricoryne elatior	T. robusta
26	2	Triglochin procera	T. procerum
273	3	Verticordia chrysantha	V. laciniata
273	3	Verticordia chrysostachys	V. argentea
273	3	Verticordia densiflora	V. densiflora var. cespitosa
273	3	Verticordia grandiflora	V. nobilis
273	3	Verticordia sp. 1. RJH 771443	V. fragrans
273	3	Verticordia sp. aff. nitens RJH 771142	V. aurea
273	3	Verticordia stelluligera	V. densiflora var. stelluligera
281	5	Villarsia capitata	Centella asiatica
345	3	Waitzia paniculata	Pterochaeta paniculata
54J	3	Wurmbea dioica	Wurmbea dioica ssp. alba
54D	5	Xanthorrhoea reflexa	X. aff. preissii

Study : Griffin & Hopkins (1981) (Brush Harvesting)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
31	5	Amphipogon ? strictus	A. debilis
55	3	Anigozanthos humilis	A. humilis ssp. humilis
288	5	Astroloma pallidum	A. microdonta
288	5	Astroloma sp. aff. microdonta	A. glaucescens
90	2	Banksia hookerana	B. hookeriana
273	5	Beaufortia bracteosa	B. aff. bracteosa
175	3	Boronia coerulescens	B. coerulescens ssp. spicata
175	3	Boronia ramosa	B. ramosa ssp. anethifolia
165	3	Burtonia conferta	Gompholobium confertum
273	3	Calytrix tenuifolia	C. depressa
131	5	Cassytha ? micrantha	C. glabella forma bicallosa
131	5	Cassytha ? pubescens	C. flava
70	3	Casuarina humilis	Allocasuarina humilis
70	3	Casuarina microstachya	Allocasuarina microstachya
90	3	Conospermum triplinervium	C. wycherleyi ssp. glabrum
55	3	Conostylis aculeata	C. aculeata ssp. breviflora
55	5	Conostylis dielsii	C. teretifolia ssp. teretifolia
55	3	Conostylis sp. 3. aff. crassinervia	C. canteriata
55	3	Conostylis teretifolia	C. teretifolia ssp. teretifolia
341	5	Dampiera juncea	D. oligophylla
54C6		Dasypogon bromeliifolius	D. obliquifolius
165	3	Daviesia juncea	D. triflora & D. debilis ssp. debilis
165	3	Daviesia quadrilatera	D. podophylla
90	3	Dryandra kippistiana	D. kippistiana var. kippistiana
90	3	Dryandra sp.	D. glauca
273	3	Eremaea acutifolia	E. ectadioclada
273	3	Eremaea pauciflora	E. ectadioclada
273	3	Eremaea violaceae	E. violacea ssp. violacea
273	3	Eucalyptus macrocarpa	E. macrocarpa ssp. elachantha
165	3	Gastrolobium obovatum	Nemcia pauciflora
90	3	Grevillea shuttleworthiana	G. integrifolia ssp. shuttleworthiana
55	3	Haemodorum sp. EAG 1564	H. venosum
90	5	Hakea cinerea	H. corymbosa
90	5	Hakea sp EAG 2162	H. circumalata
226	5	Hibbertia glomerosa	H. huegelii
90	5	Isopogon dubius	I. tridens
90	3	Lambertia multiflora	L. multiflora ssp. Northern
54F	3	Laxmannia sessiliflora	L. sessiliflora ssp. drummondii
54F	5	Laxmannia sessilis	L. omnifertilis
39	3	Lepidobolus sp.	L. quadratus
288	5	Leucopogon sp. aff. conostephioides	L. conostephioides
32	5	Mesomelaena stygia	M. pseudostygia
90	4	Persoonia sp. aff. sulcata (EAG 1249)	P. sp. Eneabba
90	5	Petrophile media	P. brevifolia
273	5	Scholtzia capitata	S. laxiflora
343	3	Stylidium brunonianum	S. brunonianum ssp. brunonianum
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
54F	5	Thysanotus multiflorus	T. teretifolius
54D	5	Xanthorrhoea reflexa	X. aff. preissii

Study : Griffin et. al. (1982) (Mt Adams)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	3	Acacia lasiocarpa var. lasiocarpa	
163	5	Acacia tamminensis	A. sphacelata var. sphacelata
54C	3	Acanthocarpus sp.	A. canaliculatus
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
31	5	Amphipogon sp.	A. debilis
31	5	Amphipogon strictus	A. debilis
55	3	Anigozanthos humilis	A. humilis ssp. humilis
288	5	Astroloma microdonta	A. glaucescens
288	5	Astroloma serratifolium	A. microdonta & A. pedicellatis
90	3	Banksia leptophylla	B. leptophylla ssp. melletica
90	3	Banksia sphaerocarpa	B. sphaerocarpa ssp. sphaerocarpa
90	3	Banksia sphaerocarpa	B. sphaerocarpa ssp. sphaerocarpa & B. micrantha
273	3	Calothamnus blepharospermus	C. glaber
273	5	Calytrix empetroides	C. sapphirina
131	6	Cassytha ? pomiformis	C. pomiformis & C. flava
131	5	Cassytha filiformis	C. glabella forma bicallosa
70	3	Casuarina campestris	Allocasuarina campestris
70	3	Casuarina humilis	Allocasuarina humilis
70	3	Casuarina microstachya	Allocasuarina microstachya
70	3	Casuarina microstachya	Allocasuarina microstachya
54F	3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
165	3	Chorizema aciculare	C. aciculare var. laxum
183	6	Comesperma volubile	C. integerrimum & C. volubile
55	3	Conostylis crassinervia	C. crassinervia var. ? absens
215	5	Cryptandra glabriflora	C. spyridioides & C. myriantha ssp. myriantha
54E	3	Dianella revoluta	D. revoluta var. divaricata
143	3	Drosera ? menziesii	D. menziesii ssp. thysanosepala?
143	3	Drosera erythrorrhiza	D. erythrorhiza ssp. magna
143	3	Drosera stolonifera	D. stolonifera ssp. humilis
90	3	Dryandra sessilis	D. sessilis ssp. sessilis
273	3	Eremaea sp. aff. acutifolia	E. ectadioclada
273	3	Eremaea violacea	E. violacea ssp. violacea
273	3	Eucalyptus camaldulensis	E. camaldulensis var. obtusa
273	3	Eucalyptus dongarrensis	E. obtusiflora
273	3	Eucalyptus eudesmioides	E. eudesmioides ssp. eudesmioides
273	3	Eucalyptus macrocarpa	E. macrocarpa ssp. elachantha
165	3	Gastrolobium obovatum	Nemcia pauciflora
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
165	3	Gastrolobium spinosum	G. spinosum ssp. spinosum
341	5	Goodenia hassallii	G. aff. hassallii
90	5	Grevillea ? biternata	G. paniculata
90	3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
55	3	Haemodorum paniculatum	H. loratum
90	5	Hakea ? circumalata	H. circumalata
90	3	Hakea auriculata var. auriculata	H. auriculata
90	3	Hakea auriculata var. spathulata	H. spathulata
90	3	Hakea baxteri	H. brownii
90	3	Hakea sp. aff. falcata	H. cygna ssp. cygna
345	3	Helipterum cotula	Hyalosperma cotula
345	3	Helipterum demissum	Hyalosperma demissa
345	3	Helipterum laeve	Rhodanthe laevis
345	3	Helipterum manglesii	Rhodanthe manglesii

226	4	Hibbertia aff. furfuracea	H. sp. (grey leaf)
226	4	Hibbertia sp. (RJH 800015)	H. aff. aurea
226	3	Hibbertia spicata	H. spicata ssp. spicata
90	5	Isopogon ? tridens	I. tridens
90	3	Lambertia multiflora	L. multiflora ssp. Northern
223	5	Lasiopetalum sp. (RJH 800023)	Guichenotia sarotes
66	3	Lyperanthus nigricans	Burnettia nigricans
273	5	Melaleuca ? holosericea	M. holosericea
273	5	Melaleuca ? sclerophylla	M. pentagona
273	3	Melaleuca cardiophylla	M. coronicarpa ssp. coronicarpa
273	3	Micromyrtus sp. (RJH 800019)	M. rogeri
165	3	Mirbelia spinosa	M. trichocalyx
95	5	Olax sp. aff. phyllanthi	O. benthamiana
60	5	Patersonia graminea	P. drummondii ssp. drummondii
90	5	Petrophile media	P. brevifolia
345	5	Podotheca pygmaea	P. angustifolia
39	3	Restio sp.	R. sinuosus
341	5	Scaevola anchusifolia	S. glanduligera
165	3	Spaerolobium macranthum	Sphaerolobium macranthum var. macranthum
202	3	Stackhousia brunonis	Tripterococcus brunonis & S. dielsii
202	3	Stackhousia brunonis	Tripterococcus brunonis
202	3	Stackhousia pubescens	S. monogyna
343	3	Stylidium sp. (EAG 2794)	S. drummondianum
108	3	Tersonia brevipes	T. cyathiflora
223	5	Thomasia ? cognata	Guichenotia micrantha
54F	5	Thysanotus patersonii	T. patersonii & T. manglesianus
215	3	Trymalium ? wichurae	Cryptandra wichurae
215	3	Trymalium ledifolium	T. ledifolium ssp. ? rosmarinifolium & T. angustifolium
273	3	Verticordia brownii	V. eriocephala
273	3	Verticordia densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
273	3	Verticordia grandiflora	V. ? nobilis
345	3	Waitzia paniculata	Pterochaeta paniculata
54D	5	Xanthorrhoea reflexa	X. aff. preissii

Study : Griffin et. al. (1983) (Eneabba Laterites)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	5	Acacia alata var. alata	A. alata var. tetrantha
163	3	Acacia barbinervis	A. barbinervis var. borelis
163	3	Acacia lasiocarpa	A. lasiocarpa var. lasiocarpa
163	3	Acacia latipes	A. latipes var. latipes
163	3	Acacia sphacelata	A. sphacelata var. sphacelata
163	5	Acacia tamminensis	A. sphacelata var. sphacelata
163	3	Acacia volubilis	A. carens
31	5	Amphipogon strictus	A. debilis
288	5	Astroloma microdonta	A. glaucescens
288	5	Astroloma serratifolium	A. microdonta
288	4	Astroloma sp RH770022A	A. sp. Cataby
90	3	Banksia leptophylla	B. leptophylla ssp. melletica
273	4	Beaufortia aff. bracteosa	B. aff. bracteosa

185	3	Beyeria brevifolia	B. brevifolia var. brevipes
175	3	Boronia coerulescens	B. coerulescens ssp. spicata
175	3	Boronia ramosa	B. ramosa ssp. anethifolia
54F	5	Borya nitida	B. sphaerocephala
345	2	Brachycome pusilla	Brachyscome pusilla
273	5	Calytrix brachyphylla	C. leschenaultii
273	3	Calytrix tenuifolia	C. depressa
70	3	Casuarina campestris	Allocasuarina campestris
70	3	Casuarina humilis	Allocasuarina humilis
70	3	Casuarina microstachya	Allocasuarina microstachya
70	3	Casuarina ramosissima	Allocasuarina ramosissima
54F	3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
54F	3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
165	3	Chorizema aciculare	C. aciculare var. laxum
90	3	Conospermum triplinervium	C. wycherleyi ssp. sericeum
55	3	Conostylis crassinervia	C. crassinerva ssp. absens
55	3	Conostylis teretifolia	C. teretifolia ssp. teretifolia
149	3	Crassula colorata	C. colorata var. colorata
215	3	Cryptandra arbutiflora	C. arbutiflora ssp. intermedia
215	5	Cryptandra glabriflora	C. spyridioides & C. myriantha ssp. myriantha
215	3	Cryptandra leucophracta	Stenanthemum reissekii
341	5	Dampiera juncea	D. oligophylla
273	4	Darwinia sp EAG 2196	D. mollissima
165	5	Daviesia ? quadrilatera	D. quadrilatera
165	2	Daviesia epiphylla	D. epiphyllum
165	3	Daviesia quadrilatera	D. podophylla
143	3	Drosera drummondii	D. barbigera
143	3	Drosera erythrorhiza	D. erythrorhiza ssp. magna
143	5	Drosera leucoblasta	D. spp.
143	3	Drosera macrantha	D. macrantha ssp. macrantha
143	3	Drosera stolonifera	D. stolonifera ssp. humilis
90	3	Dryandra fraseri	D. fraseri var. fraseri
90	3	Dryandra kippistiana	D. kippistiana var. kippistiana
90	3	Dryandra sessilis	D. sessilis ssp. sessilis
90	3	Dryandra sp EAG 1507	D. stricta
90	3	Dryandra sp EAG 1676	D. glauca
90	3	Dryandra sp EAG 1777	D. platycarpa
273	3	Eremaea acutifolia	E. asterocarpa ssp. ? histocarpa
273	3	Eremaea aff. brevifolia	E. asterocarpa ssp. ? histocarpa
331	5	Galium divaricatum	G. murale
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
165	3	Gastrolobium spinosum	G. spinosum ssp. spinosum
341	5	Goodenia sp EAG 1569	G. caerulea
341	4	Goodenia sp EAG 1598	G. aff. hassallii
341	5	Goodenia sp EAG 1631	G. caerulea
341	5	Goodenia sp EAG 1703	G. hassallii
90	3	Grevillea pinaster	G. thelymanniana ssp. pinaster
55	3	Haemodorum sp EAG 1296	H. loratum
55	3	Haemodorum sp EAG 1564	H. venosum
55	4	Haemodorum sp. indet. (EAG 1616)	H. ? laxum
90	3	Hakea auriculata var. spathulata	H. spathulata
90	5	Hakea sp EAG 2162	H. circumalata
226	5	Hibbertia ? hypericoides EAG 1668	H. hypericoides
226	4	Hibbertia aff. hypericoides EAG 2197	H. sp. (grey leaf)
226	5	Hibbertia sp EAG 2711	H. mylnei
226	3	Hibbertia spicata	H. spicata ssp. spicata
243	5	Hybanthus floribundus	H. floribundus ssp. Hill River
165	3	Jacksonia capitata	J. condensata
165	3	Labichea lanceolata	Labichea lanceolata ssp. lanceolata
90	3	Lambertia multiflora	L. multiflora ssp. Northern
39	3	Lepidobolus sp EAG 2092	L. quadratus
32	5	Lepidosperma pubsquameum	L. sp. P1 Small Head (M.D.Tindale 166a)

32	5	Lepidosperma striatum	Gahnia sp. Kulin
288	4	Leucopogon sp EAG 1031	L. sp. (recurved leaf)
39	5	Loxocarya cinerea	L. aspera
39	5	Loxocarya cinerea	L. flexuosa (Tufted)
273	1	Melaleuca raphiophylla	M. rhaphiophylla
273	4	Melaleuca sp EAG 1590	M. aff. sclerophylla
273	4	Melaleuca sp EAG 2359	M. aff. megacephala
32	5	Mesomelaena sp EAG 1736	M. gracilipes
32	5	Mesomelaena stygia	M. pseudostygia
32	3	Mesomelaena stygia var. deflexa	Mesomelaena stygia ssp. deflexa
313	4	Microcorys sp. RJH 771501	M. sp. Coomallo
95	5	Olax phyllanthi	O. benthamiana
165	3	Oxylobium reticulatum var. gracile	Nemcia axillaris
60	3	Patersonia sericea var. rudis	P. argyrea
90	4	Persoonia sp EAG 795	P. sp. Eneabba
90	5	Petrophile media	P. brevifolia
90	4	Petrophile sp EAG 1760	P. aculeata
345	5	Pithocarpa corymbulosa	P. pulchella
39	3	Restio sphacelatus	R. sinuosus
341	5	Scaevola paludosa	S. repens ssp. erecta
32	5	Schoenus sp. 1528	S. pleiostemoneus
165	3	Sphaerolobium macranthum	S. macranthum var. macranthum
202	3	Stackhousia brunonis	Tripterococcus brunonis
343	3	Stylidium brunonianum	S. brunonianum ssp. brunonianum
343	3	Stylidium diuroides	S. diuroides ssp. diuroides
90	3	Synaphea petiolaris	S. sp. 38 & S. lesueurensis
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
54F	5	Thysanotus patersonii	T. patersonii & T. manglesianus
54F	4	Thysanotus sp EAG 2511	T. sp. Badgingarra
281	3	Trachymene caerulea	T. coerulea var. leucopetala
54F	3	Tricoryne elatior	T. robusta
26	2	Triglochin centrocarpa	T. centrocarpum
26	2	Triglochin centrocarpa	T. centrocarpum
215	5	Trymalium ? myrtillis EAG 1950	Cryptandra wichurae
215	3	Trymalium wichurae	Cryptandra wichurae
273	3	Verticordia chrysantha	V. laciniata
273	6	Verticordia grandiflora	V. nobilis & V. laciniata
339	5	Wahlenbergia gracilenta	W. preissii
345	3	Waitzia paniculata	Pterochaeta paniculata
345	3	Waitzia suaveolens	W. acuminata var. albicans
54D	5	Xanthorrhoea reflexa	X. aff. preissii

Study : Griffin & Hopkins (1985) (Mt Lesueur)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	5	Acacia alata	A. alata var. tetrantha
163	3	Acacia sp. aff. celastrifolia	A. clydonophora
163	5	Acacia tamminensis	A. sphacelata var. verticillata
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
39	5	Anarthria gracilis	A. humilis
55	3	Anigozanthos humilis	A. humilis ssp. humilis
288	4	Astroloma aff. pallidum	A. sp. Cataby
288	5	Astroloma microdonta	A. glaucescens
288	5	Astroloma serratifolium	A. microdonta
152	3	Billardiera bicolor	B. bicolor ssp. bicolor
175	6	Boronia ramosa	B. ramosa ssp. anethifolia & B. sp. Mount Lesueur
54F	5	Borya nitida	B. sphaerocephala
66	5	Caladenia patersonii	C. longicauda var. albella and/or C. longicauda var. borealis
131	3	Cassytha glabella	C. glabella forma bicallosa
54F	3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
165	3	Chorizema ilicifolium	C. cordatum
183	5	Comesperma volubile	C. integerrimum
55	3	Conostylis aculeata	C. aculeata ssp. breviflora
55	3	Conostylis crassinervia	C. latens
55	3	Conostylis teretifolia	C. teretifolia ssp. teretifolia
215	3	Cryptandra arbutiflora	C. arbutiflora ssp. intermedia
215	3	Cryptandra leucophracta	Stenanthemum reissekii
165	3	Daviesia aff. striata	D. chapmanii
165	5	Daviesia incrassata	D. aff. hakeoides
165	3	Daviesia juncea	D. triflora
54E	3	Dianella revoluta	D. revoluta var. divaricata
207	3	Diplopeltis huegelii	D. huegelii var. huegelii
143	3	Drosera erythrorrhiza	D. erythrorhiza ssp. magna
143	3	Drosera macrantha	D. macrantha ssp. macrantha
143	3	Drosera stolonifera	D. stolonifera ssp. humilis
273	3	Eremaea acutifolia	E. ectadioclada
273	3	Eremaea sp.	E. asterocarpa ssp. histocarpa
273	3	Eucalyptus marginata	E. marginata ssp. marginata
273	3	Eucalyptus sp. (S.D.Hopper 2231)	E. lateritica
273	3	Eucalyptus sp. (suberea)	E. suberea
165	3	Gastrolobium ilicifolium	Nemcia ilicifolia
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
165	3	Gastrolobium spinosum	G. spinosum ssp. spinosum
165	4	Gompholobium sp.	G. sp. Gairdner Range
55	3	Haemodorum sp. (EAG 1296)	H. loratum
55	3	Haemodorum sp. (EAG 1564)	H. venosum
55	4	Haemodorum sp. indet. (EAG 1616)	H. ? laxum
90	3	Hakea auriculata var. auriculata	H. auriculata
90	3	Hakea auriculata var. spathulata	H. spathulata
90	3	Hakea erinacea (form)	H. longiflora
226	5	Hibbertia ? hypericoides	H. hypericoides
226	5	Hibbertia montana	H. ? montana
226	5	Hibbertia pachyrrhiza	H. desmophylla
226	5	Hibbertia sp. (EAG 2711)	H. mylnei
243	4	Hybanthus aff. floribundus	H. floribundus ssp. Hill River
90	3	Lambertia multiflora	L. multiflora ssp. Northern
54F	5	Laxmannia squarrosa	L. omnifertilis

39	3	Lepidobolus sp	L. quadratus
32	5	Lepidosperma striatum	Gahnia sp. Kulin
39	5	Loxocarya cinerea	L. flexuosa (Tufted)
273	5	Melaleuca ? scabra	M. scabra
32	5	Mesomelaena sp.	M. gracilipes
95	5	Olax sp. aff. phyllanthi	O. benthamiana
60	3	Patersonia drummondii	P. juncea
60	3	Patersonia sericea var. rudis	P. argyrea
55	5	Phlebocarya filifolia	P. pilosissima ssp. teretifolia
345	5	Pithocarpa corymbulosa	P. pulchella
39	3	Restio sphacelatus	R. sinuosus
32	5	Schoenus sp. 1528	S. pleiostemoneus
165	3	Sphaerolobium macranthum	S. macranthum var. macranthum
215	3	Spyridium tridentatum	Stenanthemum limitatum
343	3	Stylidium diuroides	S. diuroides ssp. diuroides
90	6	Synaphea petiolaris	S. lesueurensis & possibly S. sp. 38
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
54F	5	Thysanotus patersonii	T. patersonii & T. manglesianus
54F	4	Thysanotus sp. (EAG 2511)	T. sp. Badgingarra
215	5	Trymalium ledifolium	T. angustifolium
175	3	Urocarpus phebalioides	Asterolasia drummondii
273	3	Verticordia chrysantha	V. amphigia
273	3	Verticordia densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
345	3	Waitzia paniculata	Pterochaeta paniculata
54D	5	Xanthorrhoea reflexa	X. aff. preissii

Study : Wills (1989) (Beekeepers Reserve)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	5	Acacia alata var. alata	A. alata var. tetrantha
163	3	Acacia lasiocarpa	A. lasiocarpa var. lasiocarpa
163	3	Acacia latipes	A. latipes var. latipes
163	3	Acacia sp. nov. (G)	A. cavealis
54C	1	Acanthocarpis preissii	Acanthocarpus preissii
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
70	5	Allocasuarina campestris	A. lehmanniana ssp. lehmanniana
221	3	Alyogyne huegelii	A. huegelii var. huegelii
97	1	Ameyema preissii	Amyema preissii
55	3	Anigozanthos humilis	A. humilis ssp. humilis
288	5	Astroloma prostratum	A. microdonta
288	5	Astroloma serratifolium	A. microdonta
105	1	Atriplex paludosa	A. cinerea
273	5	Baeckea aff. ochropetala	Thryptomene strongylophylla
273	5	Baeckea aff. pachyphylla	B. tenuifolia
90	3	Banksia leptophylla	B. leptophylla ssp. melletica
185	5	Beyeria aff. cinerea	B. cinerea
175	3	Boronia ramosa	B. ramosa ssp. anethifolia
54F	5	Borya nitida	B. sphaerocephala
273	3	Calothamnus blepharospermus	C. glaber
273	3	Calytrix flavescens	C. chrysantha
183	5	Comesperma confertum	C. acerosum
90	3	Conospermum incurvum	C. unilateralis
90	3	Conospermum triplinervium	C. wycherleyi ssp. glabrum
288	1	Conostephium preisii	C. preissii
55	3	Conostylis teretifolia	C. teretifolia ssp. teretifolia
54F	3	Corynotheca micrantha	C. micrantha ssp. micrantha
54F	3	Corynotheca micrantha	C. micrantha ssp. micrantha
341	5	Dampiera haematotricha	D. lavandulacea
165	3	Daviesia gracilis	D. triflora
165	3	Daviesia quadrilatera	D. podophylla
54E	3	Dianella revoluta	D. revoluta var. divaricata
175	3	Diplolaena ferruginea	D. obovata
175	3	Diplolaena microcephala	D. leemaniana
207	3	Diplopeltis huegelii	D. huegelii var. huegelii
143	5	Drosera aff. glanduligera	D. glanduligera
143	3	Drosera erythrorrhiza	D. erythrorhiza ssp. magna
143	3	Drosera macrantha	D. macrantha ssp. macrantha
143	3	Drosera menziesii	D. menziesii ssp. thysanosepala
143	3	Drosera stolonifera	D. stolonifera ssp. humilis
90	3	Dryandra sessilis	D. sessilis ssp. cygnorum
273	3	Eremaea acutifolia	E. asterocarpa ssp. ? histocarpa
273	3	Eremaea aff. fimbriata	E. ectadioclada
326	3	Eremophila glabra	E. glabra ssp. West Coast
92	1	Exocarpus sparteus	Exocarpos sparteus
276	1	Glishrocaryon aureum	Glischrocaryon aureum
90	3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
90	5	Grevillea oligantha	G. olivacea
90	5	Grevillea thelemanniana	G. thelemanniana ssp. preissii
90	1	Hakea candollaena	H. candolleana
105	3	Halosarcia halocnemoides	H. halocnemoides ssp. halocnemoides
226	5	Hibbertia glabberima	H. subvaginata

226	5	Hibbertia polystachya	H. spicata ssp. spicata
165	5	Jacksonia spinosa	J. aff. spinosa
54F	3	Laxmannia sessiliflora	L. sessiliflora ssp. drummondii
39	1	Lepidobolus chaetacephalus	L. chaetocephalus
32	5	Lepidosperma striatum	Gahnia sp. Kulin
273	3	Leptospermum oligandrum	L. erubescens
288	5	Leucopogon marginatus	L. conostephioides
16A	1	Macrozamia reidlii	M. riedlei
273	5	Melaleuca aff. cliffortioides	M. cardiophylla
273	3	Melaleuca huegelii	M. huegelii ssp. huegelii
273	3	Melaleuca lateriflora	M. lateriflora ssp. acutifolia
32	5	Mesomelaena stygia	M. pseudostygia
165	3	Mirbelia spinosa	M. trichocalyx
185	5	Monotaxis megacarpa	Monotaxis ? grandiflora
345	5	Olearia revoluta	O. dampieri ssp. dampieri
60	3	Orthosanthus laxus	Orthrosanthus laxus var. laxus
165	3	Oxylobium capitatum	Nemcia capitata
92	5	Phebalium filifolium	Anthobolus foveolatus
263	5	Pimelea floribunda	P. angustifolia
263	5	Pimelea imbricata var. nana	P. villifera
263	5	Pimelea rosea	P. leucantha
345	5	Pithocarpa corymbulosa	P. pulchella
39	3	Restio sphacelatus	R. sinuosus
105	3	Rhagodia baccata	R. baccata ssp. baccata
185	1	Ricinocarpus glaucus	Ricinocarpos glaucus
223	5	Rulingia craurophylla	Rulingia malvifolia var. borealis
341	5	Scaevola paludosa	S. repens ssp. repens
341	5	Scaevola sp. 1	S. sericophylla
341	5	Scaevola sp. 2	S. repens var. erecta
341	3	Scaevola thesioides	S. thesioides ssp. thesioides
165	5	Sphaerolobium vimineum	S. macranthum var. macranthum
215	3	Spyridium tridentatum	Stenanthemum notiale var. notiale
343	3	Stylidium brunonianum	S. brunonianum ssp. brunonianum
343	5	Stylidium violaceum	S. piliferum
105	1	Suadea australis	Suaeda australis
90	5	Synaphea polymorpha	S. spinulosa ssp. spinulosa
108	1	Tersonia cyathifolia	T. cyathiflora
223	5	Thomasia macrocalyx	T. cognata
54F	5	Tricoryne humilis	Tricoryne sp. aff. tenella
273	3	Verticordia chrysantha	V. chrysanthella
273	3	Verticordia densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
273	3	Verticordia grandiflora	V. rutilastra
273	3	Verticordia nitens	V. aurea

Study : Griffin & Keighery (1989) (Sandplain Survey)

(Sorted on families)

Codes for changes

1 error in spelling
2 change in spelling
3 new name or status
4 consistent tentative name
5 missapplied name
6 includes several names

** 26 JUNCAGINACEAE
- 2 Triglochin minutissima . . . . . T. minutissimum
- 2 Triglochin mucronata . . . . . T. mucronatum
- 2 Triglochin procera . . . . . T. procerum

** 31 POACEAE
- 3 Catapodium rigidum . . . . . Desmazeria rigida
- 1 Neurachne alopecuroides . . . . . N. alopecuroidea

** 32 CYPERACEAE
- 4 Lepidosperma sp indet . . . . . L. ? scabrum
- 5 Mesomelaena stygia . . . . . M. pseudostygia
- 4 Schoenus aff. obtusifolius . . . . . S. sp. Wongan
- 4 Schoenus aff. pleistemoneus . . . . . S. sp. Warradagee
- 4 Schoenus aff. ringens . . . . . S. ringens
- 5 Schoenus aff. rodwayanus . . . . . S. rodwayanus
- 1 Schoenus pleistemoneus . . . . . S. pleiostemoneus
- 3 Tricostularia neesi . . . . . T. neesii ssp. neesii

** 39 RESTIONACEAE
- 1 Alexgeorgia nitens . . . . . Alexgeorgea nitens
- 1 Alexgeorgia subterranea . . . . . Alexgeorgea subterranea
- 5 Anarthria gracilis . . . . . A. humilis
- 3 Lepidobolus sp (EAG 2093) . . . . . L. quadratus
- 1 Lyginea barbata . . . . . Lyginia barbata
- 3 Restio aff. sphacelatus . . . . . R. sinuosus
- 3 Restio sp . . . . . R. microcudon
- 3 Restio sp . . . . . R. sinuosus

** 54CDASYPOGONACEAE
- 6 Dasypogon obliquifolius . . . . . D. obliquifolius & D. bromeliifolius
- 3 Lomandra micrantha . . . . . L. micrantha ssp. micrantha

** 54DXANTHORRHOEACEAE
- 5 Xanthorrhoea drummondii . . . . . X. aff. preissii

** 54FANTHERICACEAE
- 1 Borya sphareocephala . . . . . B. sphaerocephala
- 3 Chamaescilla corymbosa . . . . . C. corymbosa ssp. latifolia
- 3 Corynotheca micrantha . . . . . C. micrantha ssp. micrantha
- 3 Laxmannia ramosa . . . . . L. ramosa ssp. ramosa
- 3 Laxmannia sessiliflora . . . . . L. sessiliflora ssp. drummondii
- 3 Thysanotus aff. multiflorus . . . . . T. multiflorus
- 4 Thysanotus aff. sparteus . . . . . T. sp. Badgingarra
- 6 Thysanotus thyrsoideus . . . . . T. thyrsoideus & T. rectantherus
- 4 Tricoryne aff. humilis . . . . . T. sp. aff. tenella
- 3 Tricoryne sp . . . . . T. robusta
- 4 Tricoryne sp EAG 1451 . . . . . T. sp. aff. tenella

** 60 IRIDACEAE
- 4 Patersonia aff. umbrosa . . . . . P. sp. aff. occidentalis
- 3 Patersonia sp . . . . . P. spirafolia

3	Romulea rosea	R. rosea var. australis
**	66 ORCHIDACEAE	
3	Caladenia gemmata	Cyanicula gemmata
3	Caladenia longicauda	C. longicauda ssp. longicauda
3	Eriochilus dilatatus	E. dilatatus ssp. multiflorus
3	Lyperanthus nigricans	Burnettia nigricans
1	Microtus atrata	Microtis atrata
3	Microtus unifolia	Microtis media ssp. media
3	Pterostylis nana	P. pyramidalis & sp
3	Thelymitra variegata var. apiculata	T. apiculata
**	90 PROTEACEAE	
3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
3	Banksia leptophylla	B. leptophylla ssp. melletica
3	Banksia littoralis	B. littoralis ssp. littoralis
3	Conospermum acerosum	C. acerosum ssp. acerosum
5	Conospermum stoechadis	C. stoechadis & C. canaliculatum ssp. canaliculatum
3	Dryandra aff. conferta	D. platycarpa
3	Dryandra fraseri	D. fraseri var. fraseri
6	Dryandra nivea	D. nivea & D. stenoprion
5	Dryandra patens	D. hewardiana
3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
5	Grevillea pilulifera	G. uncinulata ssp. uncinulata
5	Grevillea thelemanniana ssp. thelemanniana	G. thelemanniana ssp. preissii
3	Grevillea uncinulata	G. uncinulata ssp. ? uncinulata
3	Hakea auriculata var. auriculata	H. auriculata
3	Hakea auriculata var. spathulata	H. spathulata
3	Lambertia multiflora	L. multiflora ssp. Northern
4	Persoonia aff. sulcata	P. sp. Eneabba
3	Persoonia angustiflora	P. angustiflora var. angustiflora
4	Petrophile aff. divaricata	P. rigida
3	Synaphea petiolaris	S. sp. 38
**	101 RAFFLESIACEAE	
1	Pilostylis hamiltonii	Pilostyles hamiltonii
**	105 CHENOPODIACEAE	
4	Halosarcia indica aff. bidens	H. indica ssp. bidens
**	131 LAURACEAE	
3	Cassytha glabella	C. glabella forma bicallosa
**	138 BRASSICACEAE	
1	Heliophila pusille	H. pusilla
**	143 DROSERACEAE	
3	Drosera erythrorrhiza	D. erythrorhiza ssp. erythrorhiza & D. erythrorhiza ssp. magna
3	Drosera gigantea	D. gigantea ssp. gigantea
5	Drosera leucoblasta	D. spp.
3	Drosera macrantha	D. macrantha ssp. macrantha
3	Drosera marchantii ssp.	D. marchantii ssp. prophylla
**	149 CRASSULACEAE	
3	Crassula colorata	C. colorata var. colorata
**	163 MIMOSACEAE	
3	Acacia barbinervis	A. barbinervis var. borelis
3	Acacia latipes	A. latipes var. latipes
3	Acacia quadrisulcata	A. sphacelata var. verticillata
3	Acacia sphacelata	A. sphacelata var. sphacelata
5	Acacia wildenowiana	A. applanata

** 165 PAPILIONACEAE
3 Daviesia hakeoides . . . . . D. hakeoides ssp. subnuda
6 Daviesia preissii . . . . . D. preissii & D. angulata
3 Daviesia quadrilatera . . . . . D. podophylla
3 Gastrolobium pauciflorum . . . . . Nemcia pauciflora
3 Gastrolobium spinosum . . . . . G. spinosum ssp. spinosum
4 Gompholobium aff. polymorphum . . . . . G. sp. Gairdner Range
6 Jacksonia floribunda . . . . . J. floribunda & J. densiflora
3 Medicago polymorpha . . . . . M. polymorpha ssp. polymorpha
3 Oxylobium capitatum . . . . . Nemcia capitata & N. reticulata
3 Oxylobium reticulatum var. gracile . . . . . Nemcia axillaris
3 Oxylobium reticulatum var. reticulatum . . . . . Nemcia reticulata
3 Sphaerolobium macranthum . . . . . S. macranthum var. macranthum

** 175 RUTACEAE
1 Boronia ramosa ssp. anaethifolia . . . . . B. ramosa ssp. anethifolia

** 185 EUPHORBIACEAE
1 Ricinocarpus glaucus . . . . . Ricinocarpos glaucus

** 202 STACKHOUSIACEAE
3 Stackhousia huegelii . . . . . S. monogyna

** 215 RHAMNACEAE
5 Cryptandra glabriflora . . . . . C. spyridioides & C. myriantha ssp. myriantha
3 Cryptandra leucophracta . . . . . Stenanthemum reissekii
3 Trymalium ledifolium . . . . . T. ledifolium ssp. rosmarinifolium
3 Trymalium ledifolium . . . . . T. ledifolium ssp. ledifolium

** 221 MALVACEAE
1 Lawrencia squammata . . . . . L. squamata

** 223 STERCULIACEAE
5 Guichenotia sp . . . . . G. alba

** 226 DILLENIACEAE
5 Hibbertia aff. montana . . . . . H. mylnei
3 Hibbertia spicata . . . . . H. spicata ssp. spicata

** 236 FRANKENIACEAE
3 Frankenia pauciflora . . . . . F. pauciflora ssp. pauciflora

** 273 MYRTACEAE
3 Calythropsis aff. aurea . . . . . Calytrix ecalycata
3 Chamelauceum sp . . . . . Chamelaucium griffinii
3 Eremaea 'ectadioclada' . . . . . E. asterocarpa ssp. asterocarpa
3 Eremaea aff. brevifolia . . . . . E. asterocarpa ssp. asterocarpa
3 Eremaea beaufortioides . . . . . E. beaufortioides ssp. beaufortioides & E. pauciflora ssp. loncophylla
3 Eremaea pauciflora ssp. . . . . E. pauciflora ssp. calyptra
4 Hypocalymma aff. angustifolium . . . . . H. sp. Badgingarra
3 Leptospermum oligandrum . . . . . L. erubescens
4 Malleostemon sp . . . . . M. sp. (Cooljarloo)
5 Melaleuca bracteosa . . . . . M. brevifolia
3 Melaleuca incana . . . . . M. incana ssp. incana
3 Melaleuca lateriflora . . . . . M. lateriflora ssp. acutifolia
1 Melaleuca raphiophylla . . . . . M. rhaphiophylla
3 Melaleuca viminea . . . . . M. viminea ssp. viminea
3 Verticordia densiflora . . . . . V. densiflora var. densiflora & V. densiflora var. caespitosa
3 Verticordia lindleyi . . . . . V. lindleyi ssp. lindleyi
3 Verticordia plumosa . . . . . V. plumosa var. brachyphylla

** 281 APIACEAE
- 1 Apium annum . . . . . A. annuum
- 3 Eryngium pinnatifidum . . . . . E. pinnatifidum ssp. pinnatifidum
- 3 Hydrocotyle pilifera . . . . . H. pilifera ssp. pilifera

** 288 EPACRIDACEAE
- 4 Astroloma aff. pallidum . . . . . A. sp. Cataby
- 5 Astroloma pallidum . . . . . A. microdonta
- 3 Leucopogon kingianus . . . . . Croninia kingiana
- 5 Leucopogon strongylophyllus . . . . . L. crassiflorus

** 323 LENTIBULARIACEAE
- 1 Polypompholyx tenella . . . . . P. tenellus

** 341 GOODENIACEAE
- 5 Goodenia filiformis var. filiformis . . . . . G. pulchella
- 5 Goodenia hassallii . . . . . G. aff. hassallii
- 5 Scaevola lanceolata . . . . . S. virgata
- 5 Scaevola paludosa . . . . . S. repens ssp. repens

** 343 STYLIDIACEAE
- 4 Stylidium aff. repens . . . . . S. sp. (Eneabba)
- 3 Stylidium bulbiferum . . . . . S. bulbiferum ssp. bulbiferum
- 3 Stylidium diuroides . . . . . S. diuroides ssp. diuroides

** 345 ASTERACEAE
- 1 Asteridea asthrixioides . . . . . A. athrixioides
- 2 Brachycome iberidifolia . . . . . Brachyscome iberidifolia
- 3 Helipterum cotula . . . . . Hyalosperma cotula
- 1 Hypochoeris glabra . . . . . Hypochaeris glabra
- 1 Lageinfera huegelii . . . . . Lagenifera huegelii
- 1 Pogonolepis lanifera . . . . . P. lanigera
- 1 Siloxeros humifusus . . . . . Siloxerus humifusus
- 3 Waitzia paniculata . . . . . Pterochaeta paniculata

Study : Griffin (1990) (Dandaragan Remnants)

(Sorted on families)

Codes for changes

1 error in spelling
2 change in spelling
3 new name or status
4 consistent tentative name
5 missapplied name
6 includes several names

**	26 JUNCAGINACEAE	
2	Triglochin centrocarpa	T. centrocarpum
2	Triglochin minutissima	T. minutissimum
2	Triglochin striata	T. striatum
**	31 POACEAE	
1	Neurachne alopecuroides	N. alopecuroidea
**	32 CYPERACEAE	
1	Cyperus tenuifloris	C. tenuiflorus
5	Lepidosperma pubsquameum	L. sp. P1 Small Head (M.D.Tindale 166a)
4	Lepidosperma sp indet	L. ? scabrum
5	Mesomelaena stygia	M. pseudostygia
4	Schoenus aff. brevisetis (EAG 1911)	S. sp. aff. brevisetis
4	Schoenus aff. indutus (EAG 3842)	S. sp. Warradagee
4	Schoenus aff. obtusifolius (EAG 3841)	S. sp. Wongan
5	Schoenus aff. rodwayanus	S. rodwayanus
5	Schoenus grandiflorus	Cyathochaeta avenacea
1	Schoenus pleistemoneus	S. pleiostemoneus
3	Tricostularia neesi	T. neesii ssp. neesii
**	39 RESTIONACEAE	
1	Alexgeorgia nitens	Alexgeorgea nitens
1	Alexgeorgia subterranea	Alexgeorgea subterranea
5	Anarthria gracilis	A. humilis
3	Lepidobolus sp (EAG 2093)	L. quadratus
3	Loxocarya aff. fasciculata	L. elongata
3	Loxocarya sp	L. parthenica
3	Loxocarya sp	L. semiplana
1	Lyginea barbata	Lyginia barbata
3	Restio aff. sphacelatus	R. sinuosus
3	Restio sp (B Briggs 6308)	R. sinuosus
3	Restio sp (B Briggs 850)	R. microcudon
**	40 CENTROLEPIDACEAE	
5	Centrolepis aff. drummondiana	C. drummondiana
**	54CDASYPOGONACEAE	
1	Acanthocarpus caniculatus	A. canaliculatus
**	54DXANTHORRHOEACEAE	
5	Xanthorrhoea drummondii	X. aff. preissii
**	54FANTHERICACEAE	
1	Borya sphareocephala	B. sphaerocephala
3	Caesia aff. micrantha	C. alfordii
3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
3	Corynotheca micrantha	C. micrantha ssp. micrantha
5	Laxmannia grandiflora	L. omnifertilis
3	Laxmannia ramosa	L. ramosa ssp. ramosa
3	Thysanotus aff. multiflorus	T. multiflorus
4	Thysanotus aff. sparteus	T. sp. Badgingarra

** 54JCOLCHICACEAE		
6	Wurmbea dioica ssp. alba	W. dioica ssp. alba & W. dilatata & W. monantha
** 60 IRIDACEAE		
4	Patersonia aff. umbrosa	P. sp. aff. occidentalis
6	Patersonia juncea	P. juncea & P. drummondii ssp. drummondii
** 66 ORCHIDACEAE		
3	Caladenia gemmata	Cyanicula gemmata
3	Caladenia longicauda	C. longicauda ssp. longicauda
3	Caladenia sp C. footeana	
1	Drakea elastica	Drakaea livida
3	Eriochilus dilatatus	E. dilatatus ssp. multiflorus
1	Leporella menziesii	Leptoceras menziesii
3	Microtus unifolia	Microtis media ssp. media
3	Pterostylis nana	P. spp
3	Thelymitra variegata var. apiculata	T. apiculata
** 70 CASUARINEACEAE		
1	Allocasuarina grevillioides	A. grevilleoides
** 90 PROTEACEAE		
3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
3	Banksia leptophylla	B. leptophylla ssp. leptophylla & B. leptophylla ssp. melletica
3	Banksia littoralis	B. littoralis ssp. littoralis
3	Conospermum acerosum	C. acerosum ssp. acerosum
3	Conospermum densiflorum	C. densiflorum ssp. densiflorum
3	Conospermum incurvum	C. brachyphyllum
3	Dryandra aff. conferta	D. platycarpa
3	Dryandra aff. falcata	D. glauca
3	Dryandra aff. patens	D. stricta
3	Dryandra aff. polycephala	D. echinata
3	Dryandra aff. pteridifolia	D. pteridifolia ssp. vernalis
5	Dryandra cuneata	D. fuscobreatea
3	Dryandra fraseri	D. fraseri var. fraseri
3	Dryandra kippistiana	D. kippistiana var. kippistiana
6	Dryandra nivea	D. nivea & D. stenoprion
5	Dryandra patens	D. hewardiana
6	Dryandra sclerophylla	D. sclerophylla & D. kippistiana var. paenepeccta
3	Dryandra serratuloides	D. serratuloides ssp. perissa
3	Dryandra sessilis	D. sessilis ssp. sessilis
5	Grevillea acerosa	G. umbellulata
4	Grevillea aff. flexuosa	G. synaphea ssp. pachyphylla
4	Grevillea aff. hookeriana	G. calliantha
6	Grevillea amplexans	G. amplexans & G. vestita ssp. vestita
5	Grevillea brachystachya	G. hakeoides ssp. stenophylla
3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
5	Grevillea integrifolia	G. integrifolia ssp. biformis
5	Grevillea integrifolia ssp. integrifolia	G. integrifolia ssp. biformis
5	Grevillea pilulifera	G. uncinulata ssp. uncinulata
3	Grevillea synaphea	G. synaphea ssp. pachyphylla
3	Grevillea thysoides	G. thysoides ssp. thysoides
3	Grevillea vestita	G. vestita ssp. vestita
3	Hakea aff. falcata	H. cygna ssp. cygna
5	Hakea aff. obliqua	H. circumalata
3	Hakea auriculata var. auriculata	H. auriculata
3	Hakea auriculata var. spathulata	H. spathulata
3	Hakea baxteri	H. brownii
3	Hakea erinacea var. erinacea	H. erinacea
3	Hakea erinacea var. longiflora	H. longiflora
3	Isopogon teretifolius	I. teretifolius var. teretifolius
3	Lambertia multiflora	L. multiflora ssp. Northern

Proteaceae (Continued)

4	Persoonia aff. sulcata	P. sp. Eneabba
5	Persoonia quinquinervis	P. aff. trinervis
5	Persoonia striata	P. rufiflora
4	Petrophile aff. divaricata	P. rigida
3	Synaphea petiolaris	S. sp. 38
3	Synaphea spinulosa	S. spinulosa ssp. spinulosa

** 92 SANTALACEAE

6	Exocarpus aphyllus	Exocarpos aphyllus & Leptomeria spinosa
5	Santalum spicatum	S. acuminatum

** 95 OLACACEAE

5	Olax scalariformis	O. benthamiana

** 105 CHENOPODIACEAE

5	Rhagodia baccata	R. preissii ssp. preissii

** 106 AMARANTHACEAE

3	Ptilotus gaudichaudii	P. gaudichaudii var. gaudichaudii

** 108 GYROSTEMONACEAE

1	Tersoonia cyathiflora	Tersonia cyathiflora

** 111 PORTULACACEAE

5	Calandrinia decumbens	Crassula decumbens ssp. decumbens

** 131 LAURACEAE

3	Cassytha glabella	C. glabella forma bicallosa

** 143 DROSERACEAE

3	Drosera bulbosa	D. bulbosa ssp. bulbosa
3	Drosera erythrorrhiza	D. erythrorhiza ssp. magna
3	Drosera gigantea	D. gigantea ssp. gigantea
5	Drosera leucoblasta	D. spp.
3	Drosera macrantha	D. macrantha ssp. macrantha
3	Drosera stolonifera ssp. stolonifera	D. stolonifera ssp. porrecta

** 149 CRASSULACEAE

3	Crassula colorata	C. colorata var. colorata

** 152 PITTOSPORACEAE

3	Billardiera bicolor	B. bicolor ssp. bicolor
5	Sollya heterophylla	Cheiranthera preissiana ssp. preissiana

** 163 MIMOSACEAE

3	Acacia aff. microbotrya	A. brumalis
3	Acacia aff. myrtifolia	A. clydonophora
5	Acacia alata var. alata	A. alata var. tetrantha
3	Acacia barbinervis	A. barbinervis var. borelis
3	Acacia latipes	A. latipes var. latipes
3	Acacia sphacelata	A. sphacelata var. verticillata
3	Acacia volubilis	A. cummingiana

** 165 PAPILIONACEAE

3	Chorizema aciculare	C. aciculare var. laxum
5	Daviesia aff. quadrilatera	D. quadrilatera
3	Daviesia aff. striata	D. chapmanii
3	Daviesia hakeoides	D. hakeoides ssp. hakeoides & D. hakeoides ssp. subnuda
3	Daviesia incrassata	D. incrassata ssp. incrassata
5	Daviesia quadrilatera	D. podophylla
5	Daviesii dielsii	D. oxyclada

Papilionaceae (Continued)

3	Gastrolobium ilicifolium	Nemcia ilicifolia
3	Gastrolobium ilicifolium var. lobatum	Nemcia ilicifolia ssp. lobatum
3	Gastrolobium pauciflorum	Nemcia pauciflora
3	Gastrolobium plicatum	Nemcia plicata
3	Gastrolobium spinosum	G. spinosum ssp. spinosum
3	Jacksonia capitata	J. condensata
6	Jacksonia floribunda	J. floribunda & J. densiflora
6	Jacksonia macrocalyx	J. macrocalyx & J. angulata
5	Jacksonia stricta	J. fasciculata
3	Mirbelia spinosa	M. trichocalyx
3	Oxylobium capitatum	Nemcia capitata & N. reticulata
3	Oxylobium reticulatum var. gracile	Nemcia axillaris
3	Sphaerolobium macranthum	S. macranthum var. macranthum

** 175 RUTACEAE

3	Boronia coerulescens	B. coerulescens ssp. spicata
5	Boronia ovata	B. scabra
1	Boronia ramosa ssp. anaethifolia	B. ramosa ssp. anethifolia
3	Diplolaena microcephala var. drummondii	D. cinerea
3	Diplolaena microcephala var. velutina	D. velutina

** 185 EUPHORBIACEAE

3	Beyeria brevifolia	B. brevifolia var. brevipes
1	Ricinocarpus glaucus	Ricinocarpos glaucus

** 207 SAPINDACEAE

3	Diplopeltis huegelii	D. huegelii var. huegelii

** 215 RHAMNACEAE

3	Cryptandra aff. leucophracta	Stenanthemum notiale var. notiale
3	Cryptandra arbutiflora	C. arbutiflora ssp. intermedia
5	Cryptandra glabriflora	C. spyridioides & C. myriantha ssp. myriantha
3	Cryptandra humilis	Stenanthemum humile
3	Cryptandra leucophracta	Stenanthemum reissekii
3	Spyridium tridentatum	Stenanthemum notiale var. notiale
3	Trymalium aff. wichurae	Cryptandra wichurae
3	Trymalium ledifolium	T. ledifolium ssp. rosmarinifolium & T. angustifolium
3	Trymalium wichurae	Cryptandra wichurae

** 223 STERCULIACEAE

4	Lasiopetalum aff. membranaceum	L. sp. Hill River
5	Lasiopetalum lineare	Guichenotia alba
5	Hibbertia aff. montana	H. mylnei
3	Hibbertia spicata	H. spicata ssp. spicata

** 243 VIOLACEAE

4	Hybanthus aff. floribundus	H. floribundus ssp. Hill River

** 263 THYMELAEACEAE

5	Pimelea sp indet	P. floribunda

** 273 MYRTACEAE

4	Beaufortia aff. bracteosa	B. aff. bracteosa
3	Chamelauceum sp	Chamelaucium griffinii
3	Chamelauceum sp	Chamelaucium hamatum
1	Chamelauceum uncinatum	Chamelaucium uncinatum
3	Eremaea aff. brevifolia	E. ectadioclada & E. asterocarpa ssp. histocarpa
3	Eremaea aff. violacea (EA Griffin 1557)	E. hadra
3	Eremaea beaufortioides	E. beaufortioides ssp. loncophylla
3	Eremaea pauciflora ssp.	E. pauciflora ssp. calyptra
3	Eucalyptus aff. drummondii	E. annuliformis

Myrtaceae (Continued)

3	Eucalyptus aff. petrea	E. absita
3	Eucalyptus camaldulensis	E. camaldulensis var. obtusa
6	Eucalyptus gittinsii	E. gittinsii & E. incrassata
3	Eucalyptus loxophleba	E. loxophleba ssp. loxophleba
3	Eucalyptus macrocarpa ssp.	E. macrocarpa ssp. elachantha
3	Eucalyptus sp. (CA Gardner 9088)	E. pluricaulis ssp. pluricaulis
3	Eucalyptus sp. (MIH Brooker 9740)	E. abdita
3	Eucalyptus sp. (MIH Brooker 9744)	E. dolorosa
3	Eucalyptus wandoo	E. wandoo ssp. pulverea
4	Kunzea aff. micrantha	K. limnicola
4	Kunzea sp	K. incognita
3	Leptospermum oligandrum	L. erubescens
5	Melaleuca aff. tricophylla	M. psammophylla
5	Melaleuca hamulosa	M. viminea ssp. viminea
1	Melaleuca raphiophylla	M. rhaphiophylla
3	Melaleuca undulata	M. coronicarpa ssp. coronicarpa
3	Melaleuca viminea	M. viminea ssp. viminea
3	Verticordia acerosa	V. chrysanthella
3	Verticordia aff. brownii	V. eriocephala
4	Verticordia aff. chrysantha	V. ? chrysanthella
3	Verticordia chrysantha	V. chrysanthella
3	Verticordia densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
3	Verticordia huegelii	V. huegelii var. huegelii
3	Verticordia insignis	V. insignis ssp. eomagis
6	Verticordia pennigera	V. pennigera & V. blepharophylla
3	Verticordia plumosa	V. plumosa var. brachyphylla
5	Verticordia preissii	V. endlicheriana var. maniculata

** 281 APIACEAE

3	Eryngium pinnatifidum	E. pinnatifidum ssp. pinnatifidum

** 288 EPACRIDACEAE

3	Astroloma aff. serratifolium	A. pedicellatis
5	Astroloma pallidum	A. microdonta
5	Astroloma serratifolium var. horidulum	A. pedicellatis
5	Astroloma serratifolium var. serratifolium	A. ? microdonta
4	Astroloma sp.	A. sp. Cataby
5	Conostephium minus	C. aff. minus& ? C. minus
3	Leucopogon aff. elegans	L. cochlearifolius
6	Leucopogon elegans	L. elegans & L. oliganthus
5	Leucopogon polymorphus	L. sprengelioides

** 302 LOGANIACEAE

6	Logania spermacocea	L. spermacocea & L. flaviflora

** 310 BORAGINACEAE

5	Halgania littoralis	H. aff. littoralis

** 311ACHLOANTHACEAE

1	Lachnostachys eryiobotrya	L. eriobotrya

** 313 LAMIACEAE

4	Microcorys sp	M. sp. Coomallo

** 323 LENTIBULARIACEAE

1	Polypompholyx tenella	P. tenellus

** 341 GOODENIACEAE		
5	Dampiera alata	D. alata & D. coronata
3	Dampiera oligophylla var. juncea	D. oligophylla
3	Goodenia affinis	G. convexa
5	Goodenia filiformis var. minutiflora	G. micrantha
5	Goodenia hassallii	G. aff. hassallii
5	Scaevola lanceolata	S. virgata
5	Scaevola paludosa	S. repens ssp. repens & S. repens ssp. errecta
5	Scaevola sp indet	S. sericophylla
** 343 STYLIDIACEAE		
4	Stylidium aff. repens	S. sp. (Eneabba)
3	Stylidium bulbiferum	S. bulbiferum ssp. bulbiferum
3	Stylidium caricifolium	S. caricifolium ssp. caricifolium
6	Stylidium diuroides	S. diuroides ssp. diuroides & S. diuroides ssp. albo-lilacinum
** 345 ASTERACEAE		
2	Brachycome pusilla	Brachyscome pusilla
3	Chrysocoryne pusilla	Gnephosis trifida
4	Craspedia sp	C. sp. A in Perth Flora
1	Gnapalium sphaericum	Gnaphalium sphaericum
3	Helichrysum lindleyi	Lawrencella rosea
5	Helipterum corymbosum	Rhodanthe polycephalum
3	Helipterum cotula	Hyalosperma cotula
3	Helipterum hyalospermum	Hyalosperma glutinosum var. glutinosum
3	Helipterum manglesii	Rhodanthe manglesii
3	Helipterum spicatum	Rhodanthe spicata
3	Helipterum strictum	Rhodanthe stricta
3	Helipterum tenellum	Erymophyllum tenellum
1	Hypochoeris glabra	Hypochaeris glabra
1	Lageinfera huegelii	Lagenifera huegelii
3	Olearia strigosa	O. incondita
1	Siloxeros humifusus	Siloxerus humifusus
3	Waitzia aurea	W. nitida
3	Waitzia paniculata	Pterochaeta paniculata

Study : Burbidge et. al. (1990) (Lesueur report Appendix 1)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	3	Acacia aff. myrtifolia	A. clydonophora
163	5	Acacia alata var. alata	A. alata var. tetrantha
163	3	Acacia drummondii	A. drummondii ssp. drummondii (large leaf variant)
163	6	Acacia lasiocarpa var. lasiocarpa	A. lasiocarpa var. lasiocarpa (two variants)
163	3	Acacia latipes	A. latipes var. latipes
163	3	Acacia quadrisulcata	A. sphacelata var. verticellata
163	3	Acacia sphacelata	A. sphacelata var. sphacelata
163	3	Acacia volubilis	A. carens
90	3	Adenanthos cygnorum	A. cygnorum ssp. cygnorum
39	5	Anarthria gracilis	A. humilis
288	4	Astroloma aff. pallidum	A. sp. Cataby
288	4	Astroloma aff. serratifolium	A. pedicellatis
288	5	Astroloma pallidum	A. microdonta
288	5	Astroloma serratifolium var. horridulum	A. pedicellatis
90	3	Banksia leptophylla	B. leptophylla ssp. melletica
90	3	Banksia littoralis	B. littoralis ssp. littoralis
273	4	Beaufortia aff. bracteosa	B. aff. bracteosa
185	3	Beyeria brevifolia	B. brevifolia var. brevipes
152	3	Billardiera bicolor	B. bicolor ssp. bicolor
175	6	Boronia ramosa ssp. anaethifolia	B. ramosa ssp. anethifolia & B. sp. Mount Lesueur
165	5	Bossiaea peduncularis	B. spinescens
165	3	Burtonia conferta	Gompholobium confertum
66	3	Caladenia gemmata	Cyanicula gemmata
66	5	Caladenia longicauda ssp. elassa	C. longicauda var. albella and/or C. longicauda var. borealis
273	5	Calothamnus hirsutus	C. aff. hirsutus
273	3	Calythropsis sp. indet.	Calytrix ecalycata
273	3	Calytrix aff. tenuifolia	C. depressa
131	3	Cassytha glabella	C. glabella forma bicallosa
32	3	Caustis sp.	C. gigas
54F	3	Chamaescilla corymbosa	C. corymbosa ssp. latifolia
165	3	Chorizema ilicifolium	C. cordatum
90	5	Conospermum stoechadis	C. stoechadis & C. canaliculatum ssp. canaliculatum
55	3	Conostylis candicans	C. candicans ssp. candicans & C. candicans ssp. calcicola
55	3	Conostylis candicans ssp. candicans	C. candicans ssp. candicans & C. candicans ssp. calcicola
54F	3	Corynotheca micrantha	C. micrantha ssp. micrantha
149	3	Crassula colorata	C. colorata var. colorata
215	3	Cryptandra arbutiflora	C. arbutiflora ssp. intermedia
215	5	Cryptandra glabriflora	C. spyridioides & C. myriantha ssp. myriantha
215	3	Cryptandra humilis	Stenanthemum humile
215	3	Cryptandra leucophracta	Stenanthemum reissekii
341	5	Dampiera alata	D. alata & D. coronata
341	3	Dampiera oligophylla var. juncea	D. oligophylla
165	3	Daviesia aff. striata	D. chapmanii
165	5	Daviesia incrassata	D. aff. hakeoides
165	3	Daviesia quadrilatera	D. podophylla
165	3	Daviesia sp. (5429)	D. pteroclada
165	6	Daviesia triflora	D. triflora & D. debilior ssp. debilior
54E	3	Dianella revoluta	D. revoluta var. divaricata
175	3	Diplolaena microcephala var. microcephala	D. cinerea & D. obovata
207	3	Diplopeltis huegelii	D. huegelii var. huegelii
143	3	Drosera erythrorrhiza	D. erythrorhiza ssp. magna
143	3	Drosera gigantea	D. gigantea ssp. gigantea

143	5	Drosera leucoblasta	D. spp.
143	3	Drosera macrantha	D. macrantha ssp. macrantha
90	3	Dryandra aff. falcata	D. glauca
90	3	Dryandra aff. patens	D. stricta
90	3	Dryandra fraseri	D. fraseri var. fraseri
90	6	Dryandra nivea	D. nivea & D. stenoprion
90	6	Dryandra sclerophylla	D. sclerophylla & D. kippistiana var. paenepeccta
90	6	Dryandra sessilis	D. sessilis ssp. sessilis & D. sessilis ssp. cygnorum
105	3	Enchylaena tomentosa	E. tomentosa ssp. tomentosa
273	3	Eremaea acutifolia	E. ectadioclada
273	3	Eremaea aff. brevifolia	E. asterocarpa ssp. ? histocarpa
273	3	Eremaea aff. brevifolia	E. ectadioclada
273	3	Eremaea pauciflora ssp.	E. pauciflora ssp. calyptra
273	3	Eremaea violacea	E. violacea ssp. rhaphiophylla
66	3	Eriochilus scaber	E. scaber ssp. scaber
281	5	Eryngium rostratum	E. pinnatifidum ssp. pinnatifidum
273	3	Eucalyptus marginata	E. marginata ssp. marginata
273	3	Eucalyptus pluricaulis	E. pluricaulis ssp. pluricaulis
273	3	Eucalyptus wandoo ssp.	E. wandoo ssp. pulverea
165	3	Gastrolobium ilicifolium	Nemcia ilicifolia
165	3	Gastrolobium pauciflorum	Nemcia pauciflora
165	3	Gastrolobium plicatum	Nemcia plicata
165	3	Gastrolobium spinosum	G. spinosum ssp. spinosum
165	4	Gompholobium aff. polymorphum	G. sp. Gairdner Range
341	5	Goodenia filiformis var. filiformis	G. pulchella
341	5	Goodenia filiformis var. minutiflora	G. micrantha
341	5	Goodenia hassalii	G. aff. hassallii
90	5	Grevillea acerosa	G. umbellulata
90	3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
90	3	Grevillea integrifolia ssp.	G. integrifolia ssp. shuttleworthiana
90	5	Grevillea pilulifera	G. uncinulata ssp. ? uncinulata
90	5	Grevillea thelemanniana ssp. thelemanniana	G. thelemanniana ssp. preissii
90	3	Hakea auriculata var. auriculata	H. auriculata
90	3	Hakea auriculata var. spathulata	H. spathulata
90	3	Hakea erinacea var. erinacea	H. erinacea
90	3	Hakea erinacea var. longiflora	H. longiflora
345	3	Helipterum corymbosum	Rhodanthe corymbosa
345	3	Helipterum cotula	Hyalosperma cotula
345	3	Helipterum gracile	Erymophyllum tenellum
345	3	Helipterum manglesii	Rhodanthe manglesii
345	3	Helipterum oppositifolium	Rhodanthe oppositifolia
313	5	Hemigenia saligna	H. barbata
226	4	Hibbertia aff. hypericoides	H. sp. (grey leaf)
226	5	Hibbertia aff. montana	H. mylnei
226	5	Hibbertia montana	H. ? montana
226	5	Hibbertia rupicola	H. rupicola & H. enervia
226	3	Hibbertia spicata	H. spicata ssp. spicata
243	4	Hybanthus aff. floribundus	H. floribundus ssp. Hill River
273	4	Hypocalymma aff. ericifolium	H. Lesueur
273	4	Hypocalymma xanthopetalum var.	H. xanthopetalum var. linearifolia
345	1	Hypochoeris glabra	Hypochaeris glabra
90	3	Isopogon teretifolius	I. teretifolius var. teretifolius
165	3	Jacksonia capitata	J. condensata
165	5	Jacksonia spinosa	J. aff. spinosa
90	3	Lambertia multiflora	L. multiflora ssp. Northern
223	5	Lasiopetalum lineare	Guichenotia alba
54F	5	Laxmannia squarrosa	L. omnifertilis
32	6	Lepidisperma angustatum	L. angustatum & L. squamatum
39	3	Lepidobolus sp	L. quadratus
273	3	Leptospermum oligandrum	L. erubescens
32	5	Lomandra sp.	Cyathochaeta avenacea
39	3	Loxocarya sp.	L. elongata

66	3	Lyperanthus nigricans	Burnettia nigricans
273	5	Melaleuca aff. tricophylla	M. psammophylla
273	5	Melaleuca bracteosa	M. brevifolia
273	3	Melaleuca cardiophylla	M. cardiophylla & M. undulata ssp. Wongan
273	3	Melaleuca huegelii	M. huegelii ssp. huegelii
273	3	Melaleuca undulata	M. coronicarpa ssp. coronicarpa
32	5	Mesomelaena stygia	M. pseudostygia
313	4	Microcorys sp	M. sp. Coomallo
165	3	Mirbelia spinosa	M. trichocalyx
31	1	Neurachne alopecuroides	N. alopecuroidea
95	5	Olax scalariformis	O. benthamiana
345	6	Olearia axillaris	O. axillaris & O. dampieri ssp. dampieri
165	3	Oxylobium capitatum	Nemcia capitata & N. reticulata
165	3	Oxylobium reticulatum var. gracile	Nemcia axillaris
66	3	Paracaleana nigrita	P. dixonii
60	3	Patersonia drummondii	P. juncea
60	6	Patersonia occidentalis	P. occidentalis & P. sp. aff. occidentalis
90	4	Persoonia aff. sulcata	P. sp. Eneabba
263	3	Pimelea suaveolens	P. suaveolens ssp. suaveolens
66	3	Pterostylis nana	P. spp
165	6	Pultenaea ericifolia	P. ericifolia & P. verruculosa
39	3	Restio aff. sphacelatus	R. sinuosus
185	1	Ricinocarpus glaucus	Ricinocarpos glaucus
60	3	Romulea rosea	R. rosea var. australis
293	3	Samolus repens	S. repens ssp. floribundus
341	5	Scaevola lanceolata	S. virgata
341	5	Scaevola longiflora	S. lanceolata
341	5	Scaevola paludosa	S. repens ssp. repens & S. repens ssp. errecta
341	3	Scaevola thesioides	S. thesioides ssp. thesioides
32	4	Schoenus aff. brevisetis	S. sp. aff. brevisetis
32	4	Schoenus aff. pleistemoneus	S. sp. Warradagee
32	5	Schoenus sp	Tetraria capillaris
32	5	Schoenus sp.	S. ringens
113	3	Silene gallica	S. gallica var. gallica
165	3	Sphaerolobium macranthum	S. macranthum var. macranthum
215	3	Spyridium tridentatum	Stenanthemum limitatum
343	3	Stylidium diuroides	S. diuroides ssp. diuroides
90	6	Synaphea petiolaris	S. lesueurensis & possibly S. sp. 38
66	3	Thelymitra variegata var. apiculata	T. apiculata
66	3	Thelymitra variegata var. variegata	T. variegata
54F	4	Thysanotus aff. sparteus	T. sp. Badgingarra
54F	3	Tricoryne elatior	T. robusta
26	2	Triglochin centrocarpa	T. centrocarpum
26	2	Triglochin mucronata	T. mucronatum
215	3	Trymalium aff. wichurae	Cryptandra wichurae
215	5	Trymalium ledifolium	T. angustifolium
215	3	Trymalium wichurae	Cryptandra wichurae
273	3	Verticordia aff. brownii	V. eriocephala
273	3	Verticordia chrysantha	V. amphigia
273	3	Verticordia densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
273	3	Verticordia huegelii	V. huegelii var. huegelii
273	3	Verticordia insignis ssp.	V. insignis ssp. eomagis
273	6	Verticordia nobilis	V. nobilis & V. laciniata
345	3	Waitzia aurea	W. nitida
345	3	Waitzia paniculata	Pterochaeta paniculata
345	3	Waitzia suaveolens	W. suaveolens var. suaveolens
54D	6	Xanthorrhoea drummondii	X. aff. preissii, X. aff. acanthostachya, X. preissii, X. aff. drummondii

Study : Burbidge et. al. (1990) (Lesueur report Appendix 2)

(sorted by genus & species)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

163	3	Acacia aff. bidentata	A. aristulata
163	3	Acacia aff. microbotrya	A. brumalis
163	3	Acacia aff. myrtifolia	A. clydonophora
163	3	Acacia aff. xanthina	A. telmica
163	3	Acacia cliftoniana ssp. cliftoniana	A. congesta ssp. cliftoniana
163	3	Acacia volubilis	A. carens & A. cummingiana
55	3	Anigozanthos humilis ssp. (SD Hopper 6730)	A. humilis ssp. grandis
288	4	Astroloma aff. pallidum	A. sp. Cataby
288	3	Astroloma aff. serratifolium	A. pedicellatis
32	3	Caustis sp.	C. gigas
273	3	Chamelauceum sp	Chamelaucium griffinii
215	3	Cryptandra humilis	Stenanthemum humile
165	3	Daviesia aff. striata	D. chapmanii
165	3	Daviesia sp. (4829)	D. speciosa
165	3	Daviesia sp. (5429)	D. pteroclada
165	3	Daviesia sp. (6480)	D. bursarifolia
90	3	Dryandra aff. armata	D. borealis ssp. elatior
90	3	Dryandra aff. conferta	D. platycarpa
90	3	Dryandra aff. falcata	D. glauca
90	3	Dryandra aff. hewardiana	D. trifontinalis
90	3	Dryandra aff. patens	D. stricta
90	3	Dryandra aff. polycephala	D. echinata
90	3	Dryandra aff. pteridifolia	D. pteridifolia ssp. vernalis
90	3	Dryandra aff. sclerophylla	D. kippistiana var. paenepeccta
90	3	Dryandra kippistiana	D. kippistiana var. kippistiana
90	3	Dryandra serratuloides	D. serratuloides ssp. serratuloides & ssp. perissa
273	3	Eremaea aff. violacea (D Coates WI 3/4/88)	E. atala
273	4	Eucalyptus foecunda ssp. MIH Brooker 9556)	E. foecunda ssp. Coolimba
273	3	Eucalyptus macrocarpa ssp.	E. macrocarpa ssp. elachantha
273	3	Eucalyptus sp. (MIH Brooker 8634)	E. zopherophloia
273	3	Eucalyptus sp. (MIH Brooker 8734)	E. pruiniramis
273	3	Eucalyptus sp. (MIH Brooker 9025)	E. balanites
273	3	Eucalyptus sp. (MIH Brooker 9026)	E. petrea
273	3	Eucalyptus sp. (MIH Brooker 9736)	E. impensa
273	3	Eucalyptus sp. (MIH Brooker 9740)	E. abdita
273	3	Eucalyptus sp. (MIH Brooker 9744)	E. dolorosa
273	3	Eucalyptus sp. (MIH Brooker s.n.)	E. absita
273	3	Eucalyptus sp. (SD Hopper 2764)	E. diminuta
273	3	Eucalyptus wandoo ssp.	E. wandoo ssp. pulverea
165	5	Gompholobium aff. aristatum	G. sp. Marchagee
165	4	Gompholobium aff. polymorphum	G. sp. Gairdner Range
90	4	Grevillea aff. hookeriana	G. calliantha
90	3	Grevillea thysoides	G. thysoides ssp. thysoides
223	5	Guichenotia sp	G. alba
243	4	Hybanthus aff. floribundus	H. floribundus ssp. Hill River
273	4	Hypocalymma aff. angustifolium	H. sp. Badgingarra
273	4	Hypocalymma aff. ericifolium	H. Lesueur
273	4	Hypocalymma aff. tetrapterum	H. Cataby
273	4	Hypocalymma xanthopetalum var.	H. xanthopetalum var. linearifolia
273	4	Kunzea sp	K. incognita
223	4	Lasiopetalum aff. membranaceum	L. sp. Hill River
223	4	Lasiopetalum aff. oldfieldii	L. sp. Coorow

39	3	Lepidobolus sp (B Briggs 7770)	L. densus
39	3	Lepidobolus sp (EAG 2093)	L. quadratus
39	3	Loxocarya aff. fasciculata	L. elongata
39	3	Loxocarya sp (B.Briggs 7481)	L. elongata
39	3	Loxocarya sp (B.Briggs 7498)	L. semiplana
165	3	Oxylobium reticulatum var. gracile	Nemcia axillaris
66	3	Paracaleana sp. (EAG 2625)	P. dixonii
90	4	Petrophile sp. (EAG 5464)	P. rigida
32	3	Restio sp. (B Briggs 6308)	R. sinuosus
32	3	Restio sp. (B Briggs 7473)	R. stenandra
32	3	Restio sp. (B Briggs 7738)	R. gigas
32	3	Restio sp. (B Briggs 850)	R. microcudon
39	3	Restionaceae Genus aff. Ecdeiocolea	Ecdeiocolea georgei
341	5	Scaevola sp. (H Demarz)	S. eneabba
32	4	Schoenus aff. indutus (EAG 3842)	S. sp. Warradagee
32	4	Schoenus aff. obtusifolius (EAG 3841)	S. sp. Wongan
343	4	Stylidium aff. repens	S. sp. (Eneabba)
66	3	Thelymitra variegata var. variegata	T. variegata
54F	4	Thysanotus aff. sparteus	T. sp. Badgingarra
54F	4	Tricoryne aff. humilis (sp EAG 1451)	T. sp. aff. tenella
215	3	Trymalium aff. wichurae	Cryptandra wichurae
273	3	Verticordia aff. acerosa	V. endlicheriana var. maculata
273	3	Verticordia aff. chrysantha	V. amphigia
273	3	Verticordia aff. chrysantha	V. laciniata
273	3	Verticordia aff. chrysostachys	V. albida
273	3	Verticordia aff. grandiflora	V. rutilastra
273	3	Verticordia aff. muelleriana.	V. argentea
273	3	Verticordia aff. nitens	V. aurea
273	3	Verticordia aff. pennicellaris	V. dasystylis ssp. oestopia
273	3	Verticordia aff. pennigera	V. blepharophylla
273	3	Verticordia insignis ssp.	V. insignis ssp. eomagis
273	3	Verticordia sp. (AS George 16361)	V. fragrans
273	3	Verticordia sp. (AS George 3219)	V. luteola
273	3	Verticordia spicata ssp.	Verticordia spicata ssp. squamosa

Study : Griffin (1991) (Watheroo Bentonite Lakes)

(Sorted on families)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

** 26 JUNCAGINACEAE		
2	Triglochin calcitrapa	T. calcitrapum
2	Triglochin mucronata	T. mucronatum
** 31 POACEAE		
1	Neurachne alopecuroides	N. alopecuroidea
** 106 AMARANTHACEAE		
3	Ptilotus gaudichaudii	P. gaudichaudii var. gaudichaudii
** 149 CRASSULACEAE		
3	Crassula colorata	C. colorata var. colorata
** 273 MYRTACEAE		
3	Eucalyptus loxophleba	E. loxophleba ssp. loxophleba
5	Melaleuca acuminata	M. acuminata ssp. websteri
3	Melaleuca lateriflora ssp. lateriflora	M. lateriflora ssp. acutifolia
** 281 APIACEAE		
4	Hydrocotyle 'coorowensis'	Hydrocotyle coorowensis
** 307 CONVOLVULACEAE		
3	Wilsonia humilis	W. humilis var. humilis
** 345 ASTERACEAE		
2	Brachycome exilis	Brachyscome exilis
2	Brachycome glandulosa	Brachyscome glandulosa
2	Brachycome iberidifolia	Brachyscome iberidifolia
2	Brachycome perpusilla	Brachyscome perpusilla
3	Helipterum pygmaeum	Rhodanthe pygmaea
1	Hypochoeris glabra	Hypochaeris glabra
4	Podotheca 'uniseta'	P. uniseta
3	Waitzia paniculata	Pterochaeta paniculata

Study : Griffin (1992) (Bindoon Remnants)

(Sorted on families)

Codes for changes

1 error in spelling
2 change in spelling
3 new name or status
4 consistent tentative name
5 missapplied name
6 includes several names

** 26 JUNCAGINACEAE		
2	Triglochin calcitrapa	T. calcitrapum
2	Triglochin minutissima	T. minutissimum
2	Triglochin mucronata	T. mucronatum
2	Triglochin procera	T. procerum
** 31 POACEAE		
1	Neurachne alopecuroides	N. alopecuroidea
3	Sporobolus virginicus	S. virginicus var. australis
** 32 CYPERACEAE		
5	Lepidosperma pubsquameum	sp. P1 Small Head (M.D.Tindale 166a)
5	Mesomelaena stygia	M. preissii
5	Schoenus fluitans	S. aff. fluitans
1	Schoenus pleistemoneus	S. pleiostemoneus
3	Tricostularia neesi	T. neesii ssp. neesii
** 39 RESTIONACEAE		
1	Alexgeorgia nitens	Alexgeorgea nitens
4	Loxocarya 'aspera'	L. aspera
4	Loxocarya 'parthenica'	L. parthenica
1	Lyginea barbata	Lyginia barbata
3	Restio aff. sphacelatus	R. sinuosus
5	Restio megalotheca	Leptocarpus coangustatus
** 54CDASYPOGONACEAE		
1	Acanthocarpus caniculatus	A. canaliculatus
54D XANTHORRHOEACEAE		
3	Xanthorrhoea drummondii	X. drummondii & X. aff. preissii
** 54FANTHERICACEAE		
5	Borya ? sphaerocephala	B. sphaerocephala
3	Corynotheca micrantha	C. micrantha ssp. micrantha
5	Thysanotus teretifolius	T. multiflorus
** 60 IRIDACEAE		
4	Patersonia aff. umbrosa	P. sp. aff. occidentalis
3	Patersonia drummondii	P. drummondii ssp. drummondii
3	Romulea rosea	R. rosea var. australis
** 66 ORCHIDACEAE		
4	Caladenia 'arrecta'	C. arrecta
4	Caladenia 'footeana'	C. footeana
4	Caladenia 'speciosa'	C. speciosa
4	Caladenia 'xantha'	C. xantha
3	Caladenia deformis	Cyanicula deformis
3	Caladenia denticulata ssp. denticulata	Caladenia denticulata
3	Caladenia gemmata	Cyanicula gemmata
3	Caladenia ixioides	Cyanicula ixioides ssp. ixioides & C. ixioides ssp. candida
4	Caladenia menziesii	Leptoceras menziesii
1	Drakea glyptodon	Drakaea glyptodon

Orchidaceae (Continued)

3	Eriochilus dilatatus	E. dilatatus ssp. multiflorus
3	Lyperanthus nigricans	Burnettia nigricans
3	Pterostylis nana	P. spp
3	Pterostylis rufa	P. sphathulata

** 70 CASUARINEACEAE

1	Allocasuarina grevillioides	A. grevilleoides

** 90 PROTEACEAE

3	Banksia leptophylla	B. leptophylla ssp. leptophylla
3	Banksia littoralis	B. littoralis ssp. littoralis
3	Conospermum acerosum	C. acerosum ssp. acerosum
3	Conospermum densiflorum	C. densiflorum ssp. densiflorum
3	Dryandra aff. polycephala	D. echinata
5	Dryandra armata	D. purdieana
5	Dryandra carduacea	D. squarrosa
3	Dryandra fraseri	D. fraseri var. fraseri
3	Dryandra kippistiana	D. kippistiana var. kippistiana
3	Dryandra nobilis	D. nobilis ssp. nobilis
5	Dryandra patens	D. hewardiana
3	Dryandra serratuloides	D. serratuloides ssp. serratuloides
3	Dryandra sessilis	D. sessilis ssp. sessilis
5	Grevillea acerosa	G. umbellulata
3	Grevillea eriostachya	G. eriostachya ssp. eriostachya
3	Grevillea synapheae	G. synapheae ssp. synapheae
3	Grevillea vestita	G. vestita ssp. vestita
3	Hakea auriculata var. auriculata	H. auriculata
3	Hakea erinacea var. erinacea	H. erinacea
3	Lambertia multiflora	L. multiflora ssp. multiflora
5	Persoonia hakeiformis	P. scabrella
5	Persoonia trinervis	P. aff. trinervis
4	Petrophile aff. divaricata	P. rigida
5	Synaphea petiolaris	S. gracillima

** 105 CHENOPODIACEAE

3	Enchylaena tomentosa	E. tomentosa ssp. tomentosa

** 106 AMARANTHACEAE

3	Ptilotus gaudichaudii	P. gaudichaudii var. gaudichaudii

** 143 DROSERACEAE

3	Drosera bulbosa	D. bulbosa ssp. bulbosa
3	Drosera erythrorrhiza	D. erythrorhiza ssp. collina & possibly ssp. magna
3	Drosera gigantea	D. gigantea ssp. gigantea
5	Drosera leucoblasta	D. spp.
3	Drosera macrantha	D. macrantha ssp. macrantha
3	Drosera stolonifera ssp. humilis	D. stolonifera ssp. porrecta

** 149 CRASSULACEAE

3	Crassula colorata	C. colorata var. colorata

** 163 MIMOSACEAE

2	Acacia 'aculiformis'	A. aculiformis
2	Acacia 'applanata'	A. applanata
2	Acacia 'aristulata'	A. aristulata
2	Acacia aff. bidentata	A. aristulata
5	Acacia alata var. alata	A. alata var. platyptera
3	Acacia latipes	A. latipes var. latipes

** 165 PAPILIONACEAE

3	Chorizema aciculare	C. aciculare var. laxum
3	Chorizema ilicifolium	C. cordatum
5	Daviesia ? quadrilatera	D. quadrilatera
5	Daviesia physodes	D. brachyphylla
3	Daviesia quadrilatera	D. podophylla
5	Daviesia tomentella	D. dielsii
4	Jacksonia aff. eremodendron	J. sp. Boyagin
3	Medicago polymorpha	M. polymorpha ssp. polymorpha
3	Mirbelia spinosa	M. trichocalyx
5	Nemcia 'sparsa'	M. sparsa
3	Sphaerolobium macranthum	S. macranthum var. macranthum

** 175 RUTACEAE

5	Boronia tenuis	B. busselliana
3	Diplolaena ? microcephala var. drummondii	D. drummondii

** 202 STACKHOUSIACEAE

3	Stackhousia huegelii	S. monogyna

** 207 SAPINDACEAE

3	Diplopeltis huegelii	D. huegelii var. huegelii
5	Dodonaea aptera	D. bursariifolia
5	Dodonaea viscosa ssp. angustissima	D. pinifolia

** 215 RHAMNACEAE

3	Cryptandra arbutiflora	C. arbutiflora ssp. arbutiflora
5	Cryptandra glabriflora	C. spyridioides & C. myriantha ssp. myriantha
3	Cryptandra humilis	Stenanthemum humile
3	Spyridium tridentatum	Stenanthemum notiale var. notiale
3	Trymalium ledifolium	T. ledifolium ssp. rosmarinifolium

** 236 FRANKENIACEAE

3	Frankenia pauciflora	F. pauciflora ssp. pauciflora

** 263 THYMELAEACEAE

5	Pimelea lehmanniana ssp. nervosa	P. leucantha

** 273 MYRTACEAE

4	Chamelaucium 'conostigmum'	C. conostigmum
4	Eucalyptus 'pruiniramis'	E. pruiniramis
3	Eucalyptus arachnaea	E. arachnaea ssp. arachnaea
3	Eucalyptus loxophleba	E. loxophleba ssp. loxophleba
3	Eucalyptus marginata	E. marginata ssp. thalassica
4	Kunzea 'incognita'	K. incognita
4	Kunzea 'limnicola'	K. limnicola
3	Leptospermum oligandrum	L. erubescens
6	Melaleuca adnata	M. adnata & M. acuminata ssp. websteri
5	Melaleuca aff. sclerophylla	M. pentagona
5	Melaleuca huegelii	? (not in area)
3	Melaleuca incana	M. incana ssp. incana
1	Melaleuca psalmophylla	M. psammophila
1	Melaleuca raphiophylla	M. rhaphiophylla
3	Melaleuca viminea	M. viminea ssp. viminea
3	Micromyrtus sp	M. ? rogeri
6	Verticordia acerosa	V. acerosa var. acerosa & V. chrysanthella
6	Verticordia densiflora Lindley var. densiflora	V. densiflora var. densiflora & V. densiflora var. caespitosa
3	Verticordia drummondii	V. drummondii & V. auriculata
6	Verticordia preissii	V. acerosa var. preissii & V. endlicheriana var. maniculata

** 281 APIACEAE		
3	Eryngium pinnatifidum	E. pinnatifidum ssp. pinnatifidum
5	Platysace maxwellii	P. cirrosa
** 288 EPACRIDACEAE		
4	Astroloma aff. pallidum	A. sp. Cataby
5	Astroloma pallidum	A. microdonta
5	Astroloma serratifolium var. serratifolium	A. ? microdonta
5	Astroloma sp. (Nannup)	not present
** 307 CONVOLVULACEAE		
3	Wilsonia humilis	W. humilis var. humilis
** 323 LENTIBULARIACEAE		
1	Polypompholyx tenella	P. tenellus
** 326 MYOPORACEAE		
3	Eremophila glabra	E. glabra ssp. Brixton
** 341 GOODENIACEAE		
3	Dampiera oligophylla var. juncea	D. oligophylla
3	Goodenia affinis	G. convexa
5	Goodenia filiformis var. filiformis	G. pulchella
5	Goodenia filiformis var. minutiflora	G. micrantha
5	Goodenia tricophylla	G. caerulea
** 343 STYLIDIACEAE		
3	Stylidium aff. lineatum	S. cymbiferum
3	Stylidium bulbiferum	S. bulbiferum ssp. bulbiferum
6	Stylidium diuroides	S. diuroides ssp. diuroides & S. diuroides ssp. albo-lilacinum
** 345 ASTERACEAE		
2	Brachycome bellidioides	Brachyscome bellidioides
2	Brachycome perpusilla	Brachyscome perpusilla
2	Brachycome pusilla	Brachyscome pusilla
3	Helichrysum ambiguum	Chrysocephalum semicalvum
3	Helichrysum bracteatum	Bracteantha bracteatum
3	Helichrysum lindleyi	Lawrencella rosea
3	Helipterum laeve	Rhodanthe laevis
3	Helipterum manglesii	Rhodanthe manglesii
3	Helipterum roseum	Rhodanthe chlorocephala ssp. rosea
3	Helipterum spicatum	Rhodanthe spicata
3	Helipterum strictum	Rhodanthe stricta
3	Helipterum tenellum	Erymophyllum tenellum
1	Hypochoeris glabra	Hypochaeris glabra
1	Lageinfera huegelii	Lagenifera huegelii
1	Siloxeros humifusus	Siloxerus humifusus
3	Waitzia acuminata	W. acuminata var. acuminata
3	Waitzia aurea	W. nitida
3	Waitzia citrina	Rhodanthe citrina
3	Waitzia paniculata	Pterochaeta paniculata
3	Waitzia suaveolens	W. suaveolens var. suaveolens

Study : Weston et. al. (1992) (Ellenbrook)

(Sorted on families)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

** 26 JUNCAGINACEAE		
2	Triglochin calcitrapa	T. calcitrapum
2	Triglochin procera	T. procerum
** 39 RESTIONACEAE		
3	Restio sp. EAG 6792	R. microcudon
** 54FANTHERICACEAE		
3	Corynotheca micrantha	C. micrantha ssp. micrantha
** 60 IRIDACEAE		
3	Romulea rosea	R. rosea var. australis
** 90 PROTEACEAE		
3	Banksia littoralis	B. littoralis ssp. littoralis
3	Conospermum acerosum	C. acerosum ssp. acerosum
3	Grevillea curviloba	G. curviloba ssp. curviloba
3	Synaphea spinulosa	S. spinulosa ssp. spinulosa
** 106 AMARANTHACEAE		
3	Ptilotus drummondii	P. drummondii var. drummondii
** 113 CARYOPHYLLACEAE		
3	Silene gallica	S. gallica var. gallica
** 143 DROSERACEAE		
3	Drosera erythrorrhiza	D. erythrorhiza ssp. erythrorhiza
3	Drosera gigantea	D. gigantea ssp. gigantea
5	Drosera leucoblasta	D. spp.
3	Drosera paleacea	D. paleacea ssp. paleacea
** 273 MYRTACEAE		
5	Eremaea 'ectadioclada'	E. asterocarpa ssp. asterocarpa
1	Melaleuca raphiophylla	M. rhaphiophylla
** 288 EPACRIDACEAE		
5	Astroloma pallidum	A. microdonta
3	Leucopogon kingianus	Croninia kingiana
** 341 GOODENIACEAE		
5	Goodenia filiformis var. filiformis	G. pulchella
5	Goodenia filiformis var. minutiflora	G. micrantha
5	Scaevola paludosa	S. repens ssp. repens
** 345 ASTERACEAE		
2	Brachycome iberidifolia	Brachyscome iberidifolia

Study : Griffin (1993) (Quindalup Dunes)

(Sorted on families)

Codes for changes

1 error in spelling	4 consistent tentative name
2 change in spelling	5 missapplied name
3 new name or status	6 includes several names

** 26 JUNCAGINACEAE		
2	Triglochin calcitrapa	T. calcitrapum
2	Triglochin mucronata	T. mucronatum
2	Triglochin trichophora	T. trichophorum
** 31 POACEAE		
1	Laguris ovatus	Lagurus ovatus
1	Neurachne alopecuroides	N. alopecuroidea
3	Sporobolus virginicus	S. virginicus var. australis
** 32 CYPERACEAE		
1	Schoenus pleistemoneus	S. pleiostemoneus
** 66 ORCHIDACEAE		
4	Caladenia longicauda ssp. 'calcigena'	C. longicauda ssp. calcigena
** 90 PROTEACEAE		
3	Banksia leptophylla	B. leptophylla ssp. melletica
3	Dryandra sessilis	D. sessilis ssp. cygnorum
** 105 CHENOPODIACEAE		
1	Suadea australis	Suaeda australis
** 108 GYROSTEMONACEAE		
1	Tersoonia cyathiflora	Tersonia cyathiflora
** 139 RESEDACEAE		
1	Resida alba	Reseda alba
** 165 PAPILIONACEAE		
6	Jacksonia stricta	J. stricta & J. aff. stricta
** 175 RUTACEAE		
3	Diplolaena sp. Kalbarri	D. leemaniensis
3	Diplolaena sp. Lancelin	D. obovata
** 215 RHAMNACEAE		
5	Trymalium albicans	T. ledifolium ssp. ledifolium
** 273 MYRTACEAE		
3	Eucalyptus 'petrensis'	E. petraea
3	Eucalyptus 'zopherophloia'	E. zopherophloia
4	Eucalyptus foecunda (Coolimba)	E. foecunda ssp. Coolimba
3	Melaleuca lanceolata	M. lanceolata ssp. occidentalis
** 276 HALORAGACEAE		
1	Halorogis foliosa	Haloragis foliosa
** 315 SOLANACEAE		
1	Nicotinia occidentalis ssp. hesperis	Nicotiana occidentalis ssp. hesperis

** 326 MYOPORACEAE	
3 Eremophila glabra	E. glabra ssp. West Coast
** 341 GOODENIACEAE	
5 Goodenia filiformis ssp. filiformis	G. berardiana
** 343 STYLIDIACEAE	
4 Stylidium 'maritima'	S. maritima
** 345 ASTERACEAE	
2 Brachycome iberidifolia	Brachyscome iberidifolia
1 Hypochoeris glabra	Hypochaeris glabra

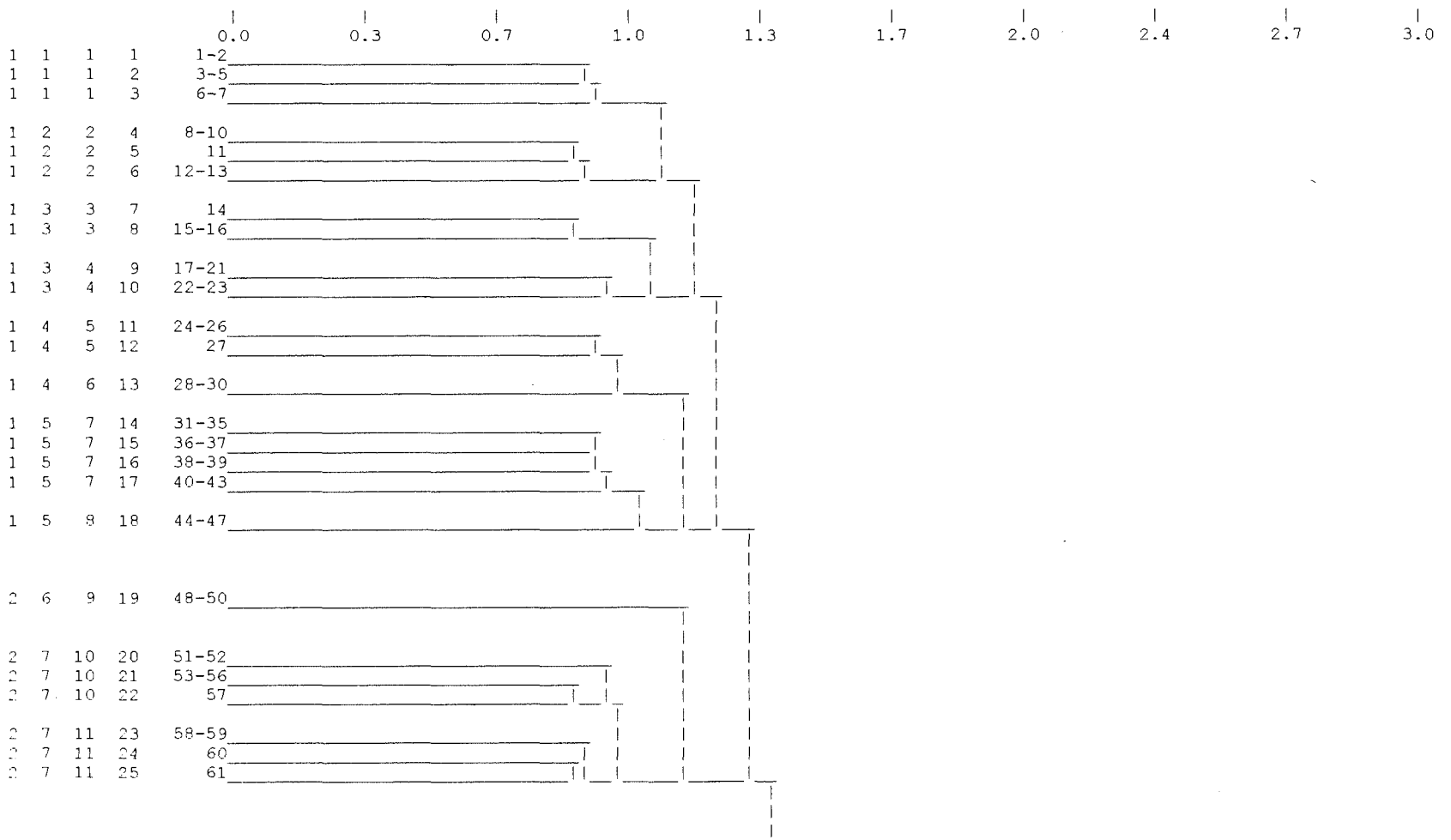
Appendix 8 Dendrogram Displaying Fusion of Sites from 200 Group level

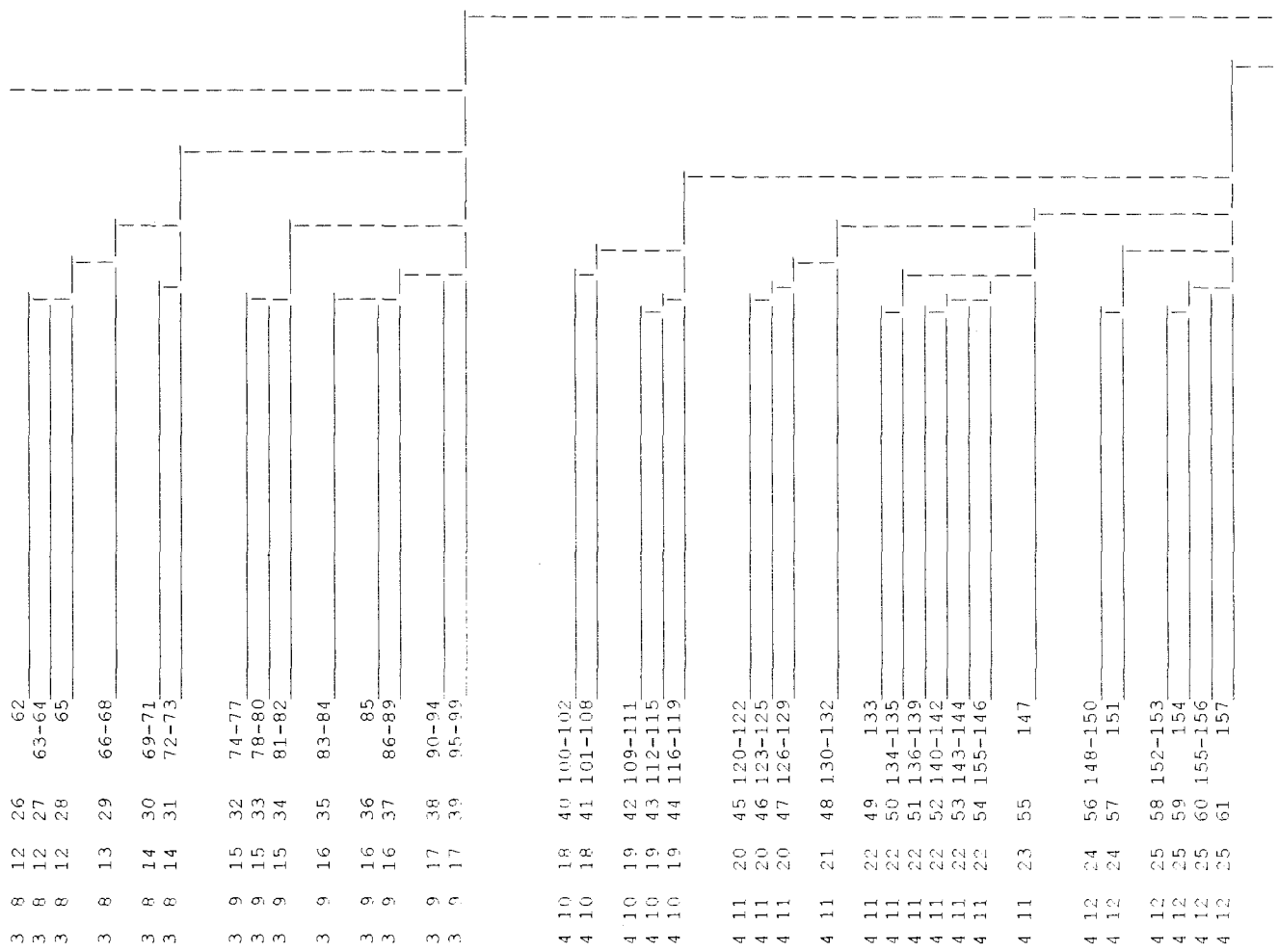
The lower groups joins in the dendrogram, the more similar they area to each other.

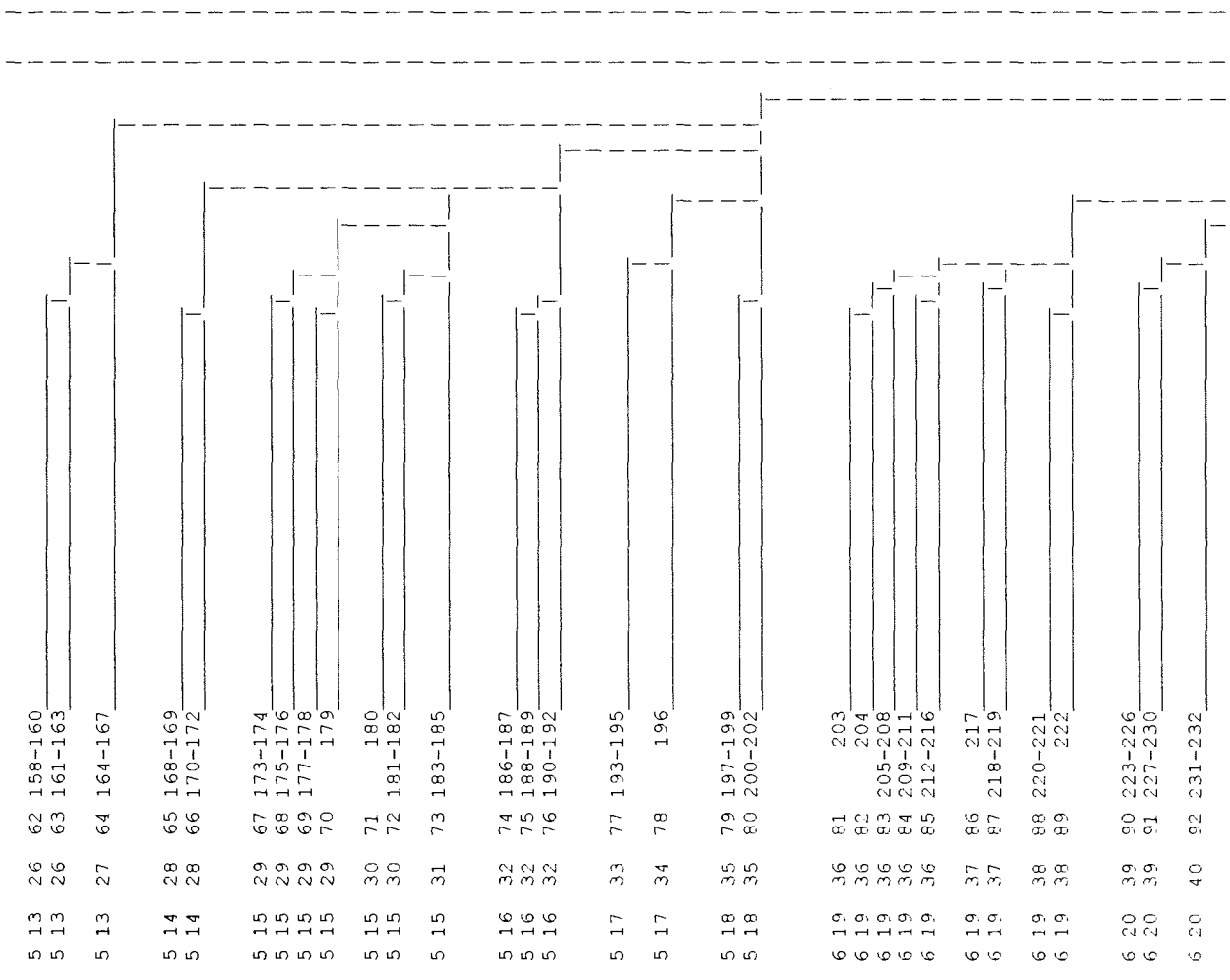
The horizontal scale is a measure of Dissimilarity.

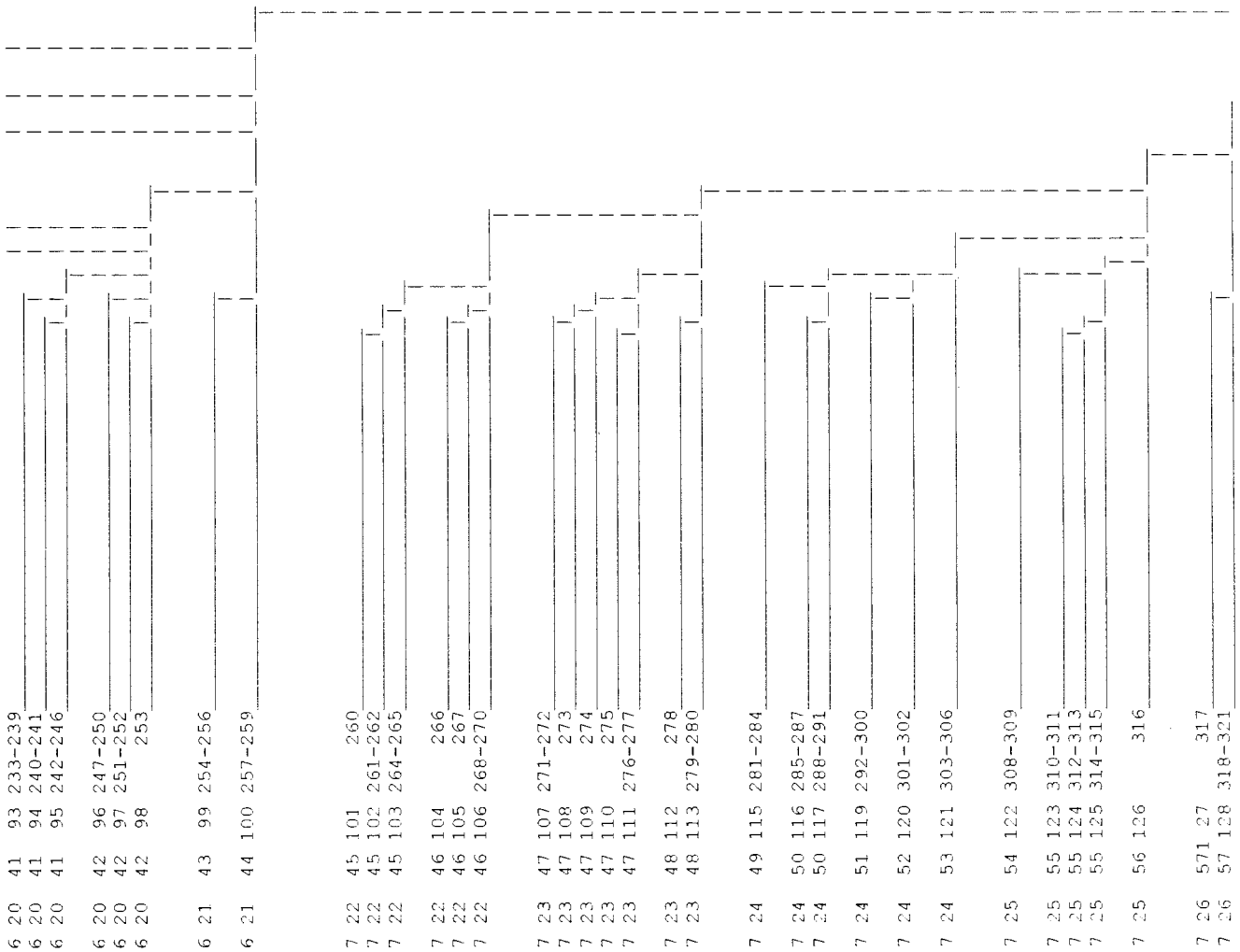
Numbers on the left are the numbers for Group 20, Group 50, Group 100, Group 500 respectively. A range of Group 500 groups combine to form each Group 200 group. These fusions are not shown here.

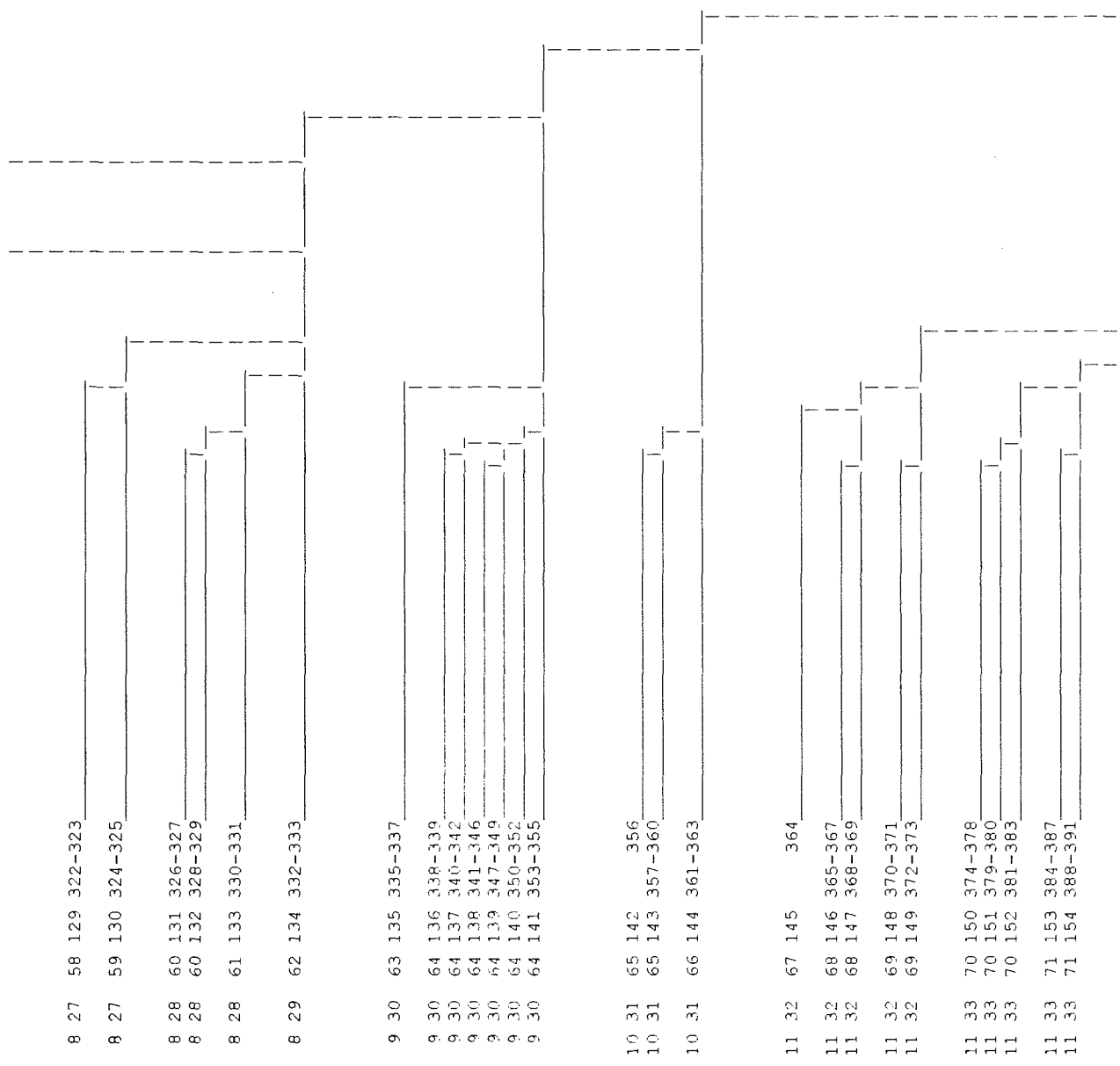
The gaps between lines are intended to emphasise the groupings at higher levels.

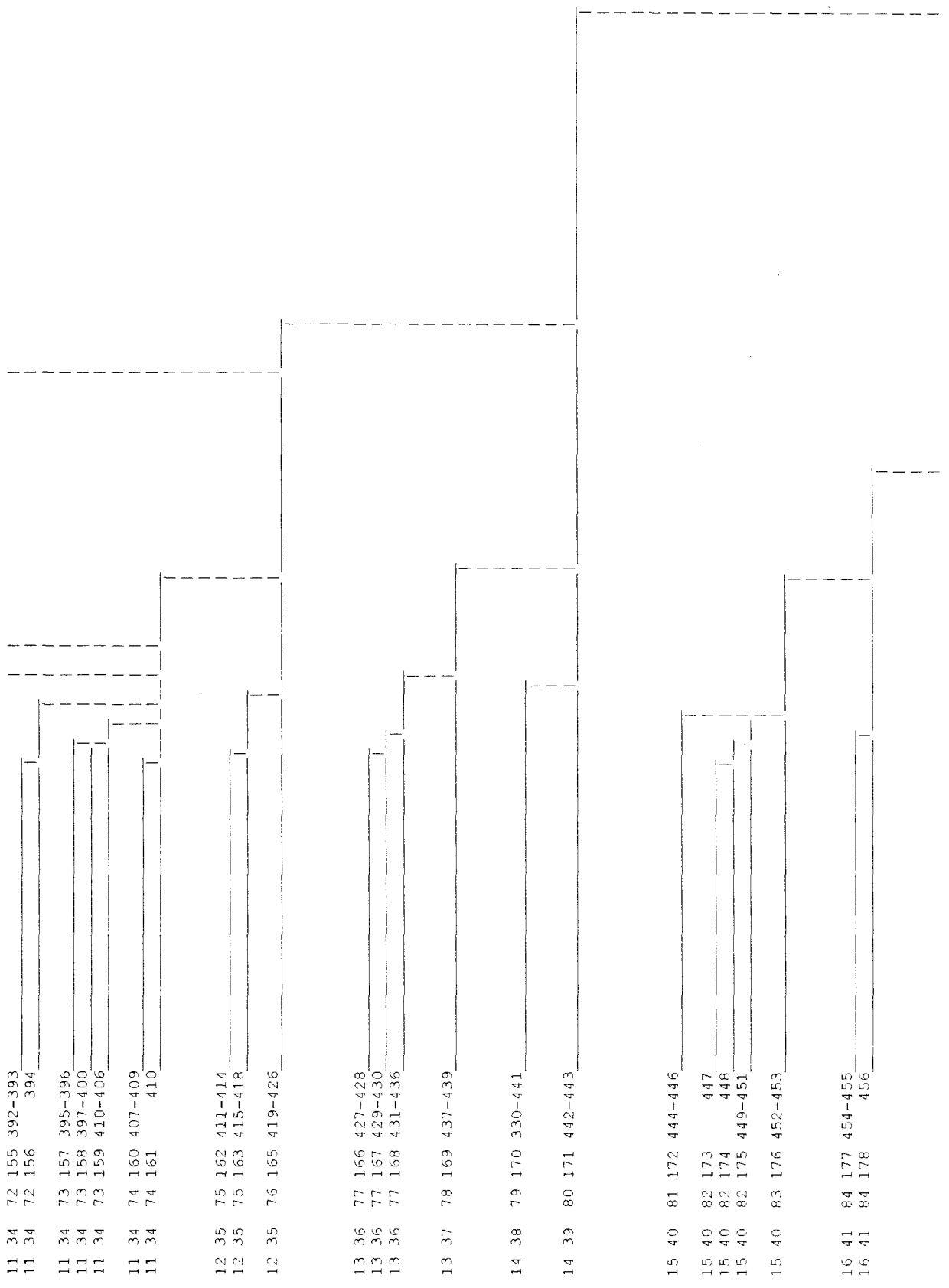


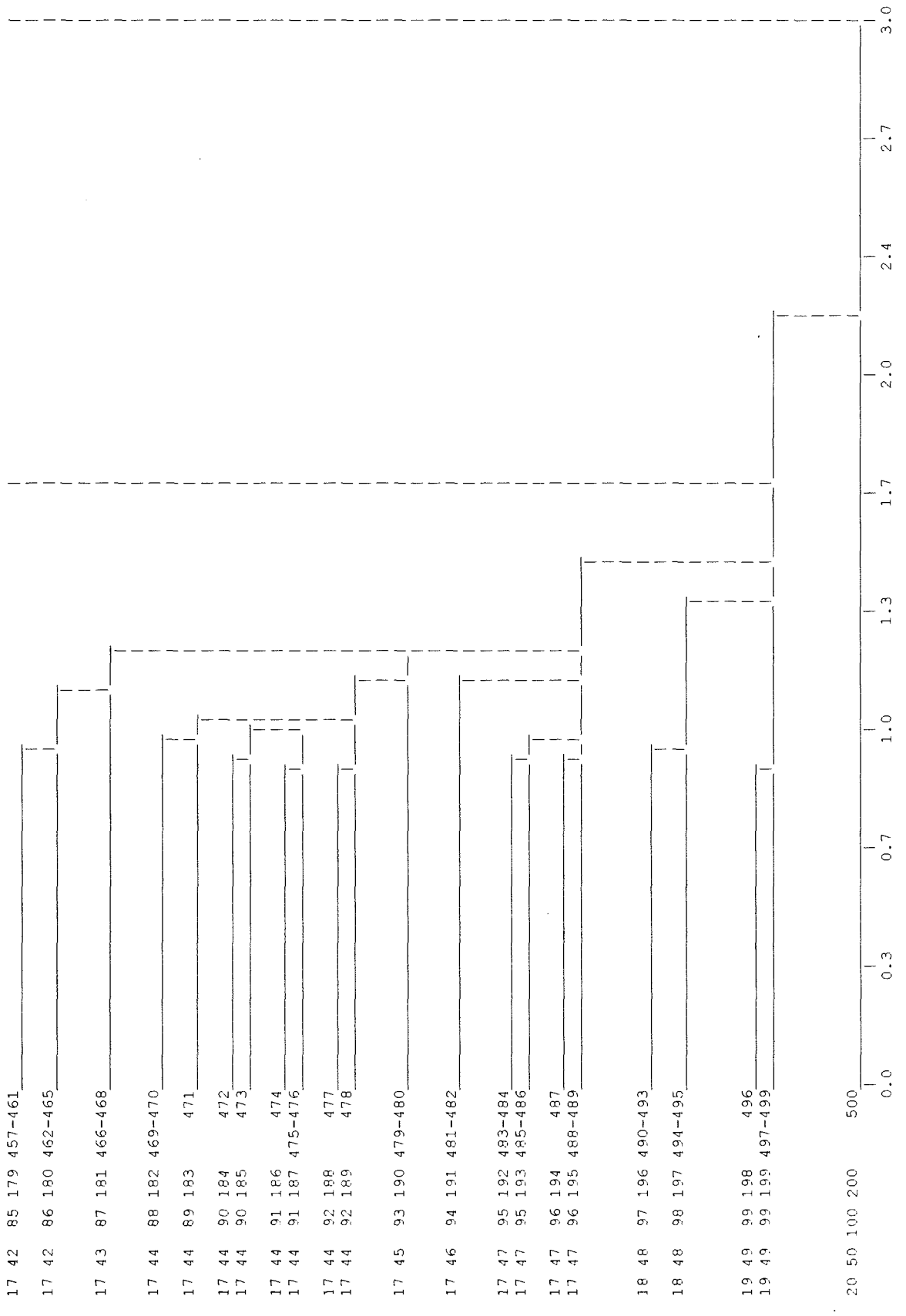

62
63-64
65
66-68
69-71
72-73
74-77
78-80
81-82
83-84
85
86-89
90-94
95-99
100-102
101-108
109-111
112-115
116-119
120-122
123-125
126-129
130-132
133
134-135
136-139
140-142
143-144
155-146
147
148-150
151
152-153
154
155-156
157


5 13 26 62 158-160
5 13 26 63 161-163
5 13 27 64 164-167
5 14 28 65 168-169
5 14 28 66 170-172
5 15 29 67 173-174
5 15 29 68 175-176
5 15 29 69 177-178
5 15 29 70 179
5 15 30 71 180
5 15 30 72 181-182
5 15 31 73 183-185
5 16 32 74 186-187
5 16 32 75 188-189
5 16 32 76 190-192
5 17 33 77 193-195
5 17 34 78 196
5 18 35 79 197-199
5 18 35 80 200-202
6 19 36 81 203
6 19 36 82 204
6 19 36 83 205-208
6 19 36 84 209-211
6 19 36 85 212-216
6 19 37 86 217
6 19 37 87 218-219
6 19 38 88 220-221
6 19 38 89 222
6 20 39 90 223-226
6 20 39 91 227-230
6 20 40 92 231-232


6 20 41 93 233-239
6 20 41 94 240-241
6 20 41 95 242-246
6 20 42 96 247-250
6 20 42 97 251-252
6 20 42 98 253
6 21 43 99 254-256
6 21 44 100 257-259
7 22 45 101 260
7 22 45 102 261-262
7 22 45 103 264-265
7 22 46 104 266
7 22 46 105 267
7 22 46 106 268-270
7 23 47 107 271-272
7 23 47 108 273
7 23 47 109 274
7 23 47 110 275
7 23 47 111 276-277
7 23 48 112 278
7 23 48 113 279-280
7 24 49 115 281-284
7 24 50 116 285-287
7 24 50 117 288-291
7 24 51 119 292-300
7 24 52 120 301-302
7 24 53 121 303-306
7 25 54 122 308-309
7 25 55 123 310-311
7 25 55 124 312-313
7 25 55 125 314-315
7 25 56 126 316
7 26 571 27 317
7 26 57 128 318-321


8 27 58 129 322-323
8 27 59 130 324-325
8 28 60 131 326-327
8 28 60 132 328-329
8 28 61 133 330-331
8 29 62 134 332-333
9 30 63 135 335-337
9 30 64 136 338-339
9 30 64 137 340-342
9 30 64 138 341-346
9 30 64 139 347-349
9 30 64 140 350-352
9 30 64 141 353-355
10 31 65 142 356
10 31 65 143 357-360
10 31 66 144 361-363
11 32 67 145 364
11 32 68 146 365-367
11 32 68 147 368-369
11 32 69 148 370-371
11 32 69 149 372-373
11 33 70 150 374-378
11 33 70 151 379-380
11 33 70 152 381-383
11 33 71 153 384-387
11 33 71 154 388-391


11 34 72 155 392-393
11 34 72 156 394
11 34 73 157 395-396
11 34 73 158 397-400
11 34 73 159 410-406
11 34 74 160 407-409
11 34 74 161 410
12 35 75 162 411-414
12 35 75 163 415-418
12 35 76 165 419-426
13 36 77 166 427-428
13 36 77 167 429-430
13 36 77 168 431-436
13 37 78 169 437-439
14 38 79 170 330-441
14 39 80 171 442-443
15 40 81 172 444-446
15 40 82 173 447
15 40 82 174 448
15 40 82 175 449-451
15 40 83 176 452-453
16 41 84 177 454-455
16 41 84 178 456


17 42 85 179 457-461
17 42 86 180 462-465
17 43 87 181 466-468
17 44 88 182 469-470
17 44 89 183 471
17 44 90 184 472
17 44 90 185 473
17 44 91 186 474
17 44 91 187 475-476
17 44 92 188 477
17 44 92 189 478
17 45 93 190 479-480
17 46 94 191 481-482
17 47 95 192 483-484
17 47 95 193 485-486
17 47 96 194 487
17 47 96 195 488-489
18 48 97 196 490-493
18 48 98 197 494-495
19 49 99 198 496
19 49 99 199 497-499
20 50 100 200 500
0.0
0.3
0.7
1.0
1.3
1.7
2.0
2.4
2.7
3.0

Appendix 9 Landform by Group 100 Summary

Each vertical column represents one Group 100 group. Numbers are # sites in respective combination. For numbers over 9 the following code applies:

```
10-a  11-A  12-b  13-B  14-c  15-C  16-d  17-D  18-e  19-E  20-f  21-F  22-g  23-G  24-h  25-H  26-i  27-I  28-j  29-J  30-k  31-K  32-l  33-L
34-m  35-M  36-n  37-N  38-o  39-O  40-p  41-P  42-q  43-Q  44-r  45-R  46-s  47-S  48-t  49-T  50-u  51-U  52-v  53-V  54-w  55-W  56-x  57-X
58-y  59-Y  60-z  61-Z  62-:  65-+  72-;  75-|
                                                                11111111111111111111111111111111111112   20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111122334455567777777777778890
                                                                                                   1
         1111111111222222222233333333334444444444555555555566666666667777777777888888888899999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890

     1                      1                1                                 1                     channel bank
                            2                1                                                       channel margin
    1                                                                                                channel bed
                                            1 1 2   1                                     1          closed depression
         2              1                     51 221 412                   2                         open depression
                                                        1                                            lake margin
1         1                 1               132 1242537 1   3         1   12                  2      depression
                                            3            142                                         playa floor
                                            1    1       224 7                                       playa margin
                                                                                                  3F incipient foredune
                                                                                 2    1         77 4 beach ridge
                                                                                      2         36 2 truncated foredune
 7                                                                                            22     dune
 2      1                                                                 1      81 173     1 2 21   dune toe
   1                                                                      2         1 3         62   swale
 3    1 7      3  1                                               42 13 A c1    e31 Ac      2   132  dune crest
 2      4        1     1                                          8   1 292    1S82287        13E8 1 dune slope
5414  b6a 2  116BDG 23 2                       1        1       1 2B5JE b E1    b:5;E38 2125b 1b76E  plain
3111    24    131351 3                         1      1 1         3133423 N9                         flat
1 1 75a3 42   52  4  61 4     12  1     33  228346d13123c  2   11 111 272 27   6                     valley flat
   1    53    113 1  2 1  1      1             1        1      11 17587 8 7                          vale (upper drainage line)
 3 1            1                1                             5cA  75  42  1   1            3       hollow in upland
     31    63v 8932221  2  232     F6 76   2                  EY  1245  Ac2 |1                       upland plain
            3      2 1   21 112   11                           3            452                      scarp
1    1 1   123 13    1   411311 1   311 4111                  4a    63  2 2 4g9              1       scarp footslope
121 3 BA1 1526Efb542251  1 211 711912751A9 2  1               5B  48+N86G1f A596                     pediment
 1  1         1    1        2A    11    6111                   53   1   1    36A         1    21     lower slope
              1  1 6 2   43 33 1 171 2  F233                   7    1       1363     1 1             mid slope
  2           11   5  221                     1                2M       1    47      1 3  1  5.  1   rise
 11    1           6 1   112   221 2  213  3                   11      1            1                local rise
                                                                             121                     hill crest
                             1      4                                                                elongated hill crest
                   1                1    1                                                           localised hill crest
                         1   1          1                                                            elongated rise
                             1  11 11   312                          1       34                      upper slope
            1                      1    4 2                                   6 3                    bench
                                        1 1                                                          tor

                                                                                                   1
         1111111111222222222233333333334444444444555555555566666666667777777777888888888899999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890

                                                                11111111111111111111111111111111111112   20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111122334455567777777777778890
```

Appendix 10 Summary description of the 500 groups.

Ho = Homotoneity measure (see Table 2)

Dominant = Species with greatest cover, those dominant more commonly mentioned first

Constant = Species present in greatest number of sites in particular group.

Sites from = Most common study or subset of study of which the sites in group were a part.
Below is a key describing the general location of each set of sites with the same prefix.

Prefix	Study	Location
1A	NSP	Wotto NR, Eneabba-Three Springs Rd
1B	NSP	Eneabba-Three Springs Rd, SW of Kangaroo Rd
1C	NSP	Eneabba-Three Springs Rd, SW of Three Springs
1D	NSP	Wilton Well Rd, SW of Three Springs
1E	NSP	Lucas Rokich Rd, W of Carnamah
1F	NSP	Eneabba-Carnamah Rd, at cnr of Winchester South Rd
1G	NSP	Winchester South Rd, just S of Eneabba-Carnamah Rd
1H	NSP	Carger Rd, S of Coorow-Green Head Rd, SW of Coorow
1I	NSP	N side Marchagee Track, E of Pinjarrega NR
1J	NSP	Just W of Gunyidi Townsite
2A	NSP	Midlands Rd, N of Marchagee
2B	NSP	Yandanooka West Rd, S of Mingenew
2B	NSP	Yandanooka West Rd, S of Mingenew
2C	NSP	Allanooka Springs Rd, E of Burma Rd, NW of Mingenew
2D	NSP	Walkaway-Nangetty Rd, N of Mingenew
2E	NSP	Ardlingly South Rd, N of Mingenew-Mullewa Rd
2F	NSP	Eves Rd, W of Ardlingly South Rd, SW of Mullewa
2G	NSP	Indarra South Rd, S of Geraldton-Mullewa Rd
2H	NSP	Ambania South Rd, S of Geraldton-Mullewa Rd
2I	NSP	Walkaway-Nangetty Rd, W of Casuarinas Rd
2J	NSP	Connolly Rd, S of Burma Rd, SE of Walkaway
2K	NSP	Table Top Rd, N of Allanooka Springs Rd, SE of Walkaway
2L	NSP	Marchagee-Buntine Rd, E of Marchagee
2M	NSP	Gunyidi-Wubin Rd, E of Gunyidi
2N	NSP	Masons Rd, NE of Watheroo
3A	NSP	Beekeepers NR, SE of Leeman
3B	NSP	NE of Illawong (N of Leeman)
3C	NSP	Beekeepers NR and vCl, adjacent to railway, NW of Eneabba
3D	NSP	Erindoon Rd, SSE of Eneabba
3E	NSP	Woolmulla Rd, SSE of Eneabba
3F	NSP	Cockleshell Gully Rd, just N of Coorow-Green Head
3G	NSP	Coorow-Green Head Rd, east of Cockleshell Gully Rd
3H	NSP	Cockleshell Gully Rd, S of Cockleshell Gully
3I	NSP	Cervantes Rd, just W of Mubinea Rd
3J	NSP	Nambung Rd, SSE of Cervantes
4A	NSP	Brand Hwy, between Bibby and McNamara Rds, S of Badgingarra
4B	NSP	Brand Hwy, just N of Watheroo West Rd, N of Badgingarra
4C	NSP	Brand Hwy, just S of Dandaragan/Coorow Shire
4D	NSP	Crown land S of South Eneabba NR
4E	NSP	Beekeepers Rd, NW of Eneabba
4F	NSP	Beekeepers Rd, N of Eneabba
4G	NSP	Eneabba-Mingenew Rd
4H	NSP	Nebru Rd, NE of Eneabba
4I	NSP	Eneabba-Carnamah Rd
4J	NSP	Mudge Rd, W of Coorow
4K	NSP	Coorow-Green Head Rd, E of Brand Hwy
4L	NSP	W of Mimegarra Rd, SW of Cataby
4M	NSP	Sappers rd, E of Lancelin
5A	NSP	Wandena Rd, N of Bullsbrook
5B	NSP	E of Reserve road, N of Bullsbrook
5C	NSP	Reserve road, N of Great Northern Hwy, N of Bullsbrook
5D	NSP	Brand Hwy, SW of Gingin
5E	NSP	Brand Hwy, S of Wannamal West Rd
5F	NSP	Wannamal West Rd, N of Gingin
5G	NSP	Brand Hwy, s of Moore River NP
AH	RJH	Coomallo NR (e of Brand Hwy)
ALL	NSP	N of Allanooka Springs Rd, SE of Walkaway
APR	NSP	Aboriginal Purposes Res, SW of Three Springs
ARI	NSP	Richardson Rd, S of Mingenew
ARO	NSP	Brand Hwy, NW of Arrowsmith River N of Eneabba
B	DAN	Badgingarra 1:50,000 map sheet
BAD	NSP	Badgingarra NP, N of Waddi Rd
BAR	NSP	Barracca NR, Great Northern Hwy, N of Bullsbrook
BB	QUI	Breton Bay, n of Seabird
BC	BOO	Boonanarring NR, n of Gingin
BE	BEE	Beekeepers NR, w & nw of Eneabba
BEE	NSP	Southern Beekeepers NR, NE of Cervantes
BEER	SAN	Beermulla rd, NW of Gingin
BIB	NSP	Bibby road, W of Badgingarra NP
BNP	NSP	Badgingarra NP, W of Badgingarra
BNR	NSP	Boonanarring NR, N of Gingin
BOD	NSP	Farm NE of Yandanooka
BPU	EFI	Lake Indoon, w of Eneabba
BU	QUI	Burns Beach

Prefix	Study	Location
BUL	NSP	Bullsbrook
BUR	NSP	Burma Road NR, SE of Walkaway
BW	NSP	Bartletts Well N Reserve E of Brand Hwy, N of Wannamal West road NW of Gingin
C	DAN	Capitella 1:50,000 map sheet
CAD	NSP	Cadda road, W of Badgingarra
CAN	NSP	Canover Rd, E of Jurien
CARO	SAN	Caro Rd, SW of Cataby
CAS	NSP	Cnr of Casuarinas and Walkaway-Nangetty Rds
CE	QUI	Cervantes
CH	BIN	Chittering 1:50,000 map sheet
CL	QUI	Cliff Head
COM	COM	Coomallo NR
COOL	SAN	Cooljarloo Rd, NW of Cataby
D	DAN	Dandaragan 1:50,000 map sheet
DAL	NSP	Martinjinni NR, Dalwallinu West Rd
DD	QUI	Defence Land, n of Lancelin
DEP	NSP	SE cnr W of Mingenew
DO	QUI	Dongara
DOL	NSP	SSE of Coorow
DOO	NSP	Dookanooka NR, Eneabba-Three Springs Rd
EGA	NSP	Pinjarrega NR, SW of Coorow
EGR	NSP	White Gums NR, Eneabba-Three Springs Rd
EJU	EFI	South Eneabba NR, se of Eneabba
ELE	ELE	Ellenbrook area, sw of Bullsbrook
FOR	NSP	The Fourty Four Mile NR, N of Geraldton-Mullewa Rd
FYR	NSP	Fynes Road, N of Red Gully Rd, W of Mogumber
GE	QUI	Greenough river
GH	QUI	Green Hean
GT	QUI	Gum Tree Bay, n of Coolimba
GUN	NSP	Gunyidi NR, SW of Gunyidi
HH	ENE	8 km S of Eneabba
IND	NSP	Lake Logue NR, W of Eneabba
JIN	NSP	Watheroo NP, Near Jingemia Hill
JURI	SAN	Badgingarra to Cockleshell Gully
L	DAN	Lake Dalaroo 1:50,000 map sheet
LAT	LAT	e & S of Eneabba
Le	LES	Lesueur NP (and some Coomallo NR)
LE	QUI	Leeman
LES	NSP	Lesueur NP, W of creek crossing Cockleshell Gully Rd
LP	QUI	se of Ledge Point
MAC	NSP	E of Midlands Rd, NE of Arrino
MAR	NSP	Marchagee NR, S of Coorow
MAZ	NSP	Mazza rd, just N of Marchagee Track. N of Badgingarra
MHR	NSP	Marri Heights road, W of Mogumber
MI	BIN	Mogumber (w)
MI	QUI	Mindarrie (n of Burns Beach)
MIME	SAN	Mimegarra Rd, SW of Cataby
MIN	NSP	S of Mingenew
MNP	NSP	Moore River NP, SE cnr
MOOR	SAN	Moore River NP
MP	ELE	Melaleuca Park
MR	NSP	Moore River NP, NW of Gingin
MSF	NSP	Moore River State Forest, W of Moore River
MTR	NSP	Marchagee Track, E of Brand Hwy, N of Badgingarra
MUK	NSP	Public Utility Res, S of Lake Mukunburra, W of Gingin
MUL	NSP	Mullering Brook Res, N of Cataby
MWR	NSP	Mogumber West Rd
NA	QUI	Nambing NP
NAM	NSP	Nambung NP, W of Wongonderrah Rd
NAMM	SAN	Namming NR, NW of Regans Ford
NAN	NSP	Nanekine South Rd, NE of Mingenew
NH	QUI	North Head, n of Jurien
NI	QUI	Nilgen NR, n of Lancelin
NN	BIN	New Norcia 1:50,000 map sheet
NNR	NSP	Namming NR, NW of Regans Ford
OYR	NSP	Military Rd, W of Gingin
P	DAN	Watheroo NP
PAR	YAN	Parrot Ridge, Yanchep NP
PI	BIN	Waddington, S of Walebing
RGR	NSP	Red Gully road, W of Mogumber
ROC	NSP	Rocky Springs NR, S of Eneabba
SEE	SEE	Reserve 35499, se 0f Eneabba
SER	NSP	South Eneabba NR
SF	ELE	State Forest 65
SW	QUI	n of Swanbourne
THO	NSP	Thomkins Rd, SW of Mt Adams (SE of Dongara)
TOO	NSP	Tootbardi Rd, N of Badgingarra
TR	QUI	Trigg Open Space
TWA	NSP	Twyata NR, S of Hill River, N of Badgingarra
VC	QUI	vCl, E of Wanagarran NR
W	DAN	W of Coomberdale
WA	BIN	Walebing 1:50,000 map sheet
WAD	NSP	Waddi Rd, E of Brand Hwy, S of Badgingarra
WB	WLA	ne Cnr Watheroo NP & SE cnr Pinjarrega NR
WG	QUI	Wanagarran NR, S of Cervantes
WIC	NSP	Wicherrina water Res, Geraldton-Mullewa Rd
WIL	NSP	N of Tootbardi Rd, N of Badgingarra
WIN	NSP	Winja Rd, NE of Cervantes
WN	BIN	Wannamal 1:50,000 map sheet
WNP	NSP	Watheroo NP,
WON	NSP	Wongonderrah Rd, W of Brand Highway
WONG	SAN	Wongonderra Rd, NW of Cataby
WP	QUI	White Point, s of Dongara
Y	DAN	Yatheroo 1:50,000 map sheet
YAD	NSP	Yardanargo NR, and near, SE of Dongara
YAN	YAN	Yanchep NP
YAT	NSP	E of Lake Guraga, S of Cataby
YEA	NSP	E of Yeal Swamp NE of Yanchep
YNR	NSP	Yandanooka NR, W of Three Springs
YTS	NSP	W side Midlands Rd, Yandanooka
YUR	NSP	Yurine Swamp NR, Beermulla rd, NW of Gingin
YWR	NSP	Water Res, Bunney Rd, W of Three Springs

Each group is defined by 5 numbers: Group 20 #, Group 50 #, Group 100 #, Group 200 #, Group 500 #,

GROUP: 1 1 1 1 1 3 sites, Ho = 2.22
Dominant: *Banksia leptophylla ssp. melletica, Eucalyptus todtiana*
Constant: *B. leptophylla ssp. melletica, E. todtiana*
flat, pale grey sand / yellow, v well drained, occ damp
Sites from HH

GROUP: 1 1 1 1 2 2 sites, Ho = 0.39
Dominant: *Banksia leptophylla ssp. melletica*
Constant: *B. leptophylla ssp. melletica, Eucalyptus todtiana*
plain, orange sand / gravel, well drained
Sites from ROC

GROUP: 1 1 1 2 3 2 sites, Ho = 0.42
Dominant: *Acacia blakelyi*
Constant: *A. blakelyi, Banksia attenuata*
plain, sand, v well drained
Sites from 3C,4E

GROUP: 1 1 1 2 4 1 site
Dominant: *Banksia leptophylla ssp. melletica, Acacia blakelyi*
Constant: *B. leptophylla ssp. melletica, A. blakelyi*
valley flat, grey sand, v well drained
Sites from IND

GROUP: 1 1 1 2 5 2 sites, Ho = 0.31
Dominant: *Banksia attenuata*
Constant: *B. attenuata, B. menziesii*
pediment or scarp footslope, grey sand /? yellow, v well drained
Sites from COM

GROUP: 1 1 1 3 6 1 site
Dominant: *Banksia leptophylla ssp. melletica*
Constant: *B. leptophylla ssp. melletica, Acacia blakelyi*
plain, grey sand / lateritic, v well drained
Sites from 2I

GROUP: 1 1 1 3 7 1 site
Dominant: *Melaleuca uncinata, Banksia leptophylla ssp. melletica*
Constant: *M. uncinata, B. leptophylla ssp. melletica*
depression, yellow sand / ferrugineous sand, well drained, winter damp
Sites from 3C

GROUP: 1 2 2 4 8 8 sites, Ho = 0.47
Dominant: *Banksia attenuata, B. leptophylla ssp. melletica*
Constant: *Mesomelaena pseudostygia, Ecdeiocolea monostachya*
dune or plain, grey sand / yellow sand, v well drained
Sites from BE,IND,3C

GROUP: 1 2 2 4 9 7 sites, Ho = 0.27
Dominant: *Banksia attenuata, B. prionotes*
Constant: *Mesomelaena pseudostygia, Hibbertia hypericoides*
dune, pale yellow sand, v well drained
Sites from BE,YAD,IND,3G,3J

GROUP: 1 2 2 4 10 5 sites, Ho = 0.41
Dominant: *Banksia attenuata, B. leptophylla ssp. melletica*
Constant: *B. attenuata, Allocasuarina humilis*
dune, grey sand / yellow sand, v well drained
Sites from BE,IND

GROUP: 1 2 2 5 11 4 sites, Ho = 0.30
Dominant: *Banksia prionotes*
Constant: *B. prionotes, Mesomelaena pseudostygia*
pediment or plain, pale yellow sand, v well drained
Sites from LES,NAM

GROUP: 1 2 2 6 12 2 sites, Ho = 0.62
Dominant: *Hibbertia hypericoides*
Constant: *Banksia attenuata, Eucalyptus todtiana*
hollow in upland or rise, grey sand, v well drained
Sites from 4M

GROUP: 1 2 2 6 13 1 site
Dominant: *Hibbertia hypericoides*
Constant: *H. hypericoides, Dryandra sessilis cygnorum*
rise, yellow sand, v well drained
Sites from OYR

GROUP: 1 3 3 7 14 3 sites, Ho = 0.36
Dominant: *Banksia prionotes*
Constant: *B. prionotes, Muehlenbeckia adpressa*
pediment or valley flat, yellow sand, v well drained
Sites from WNP,BOD

GROUP: 1 3 3 8 15 1 site
Dominant: *Eucalyptus accedens*
Constant: *E. accedens, Trachymene pilosa*
rise, grey sandy loam / clay, well drained
Sites from L

GROUP: 1 3 3 8 16 1 site
Dominant: *Melaleuca lanceolata*
Constant: *M. lanceolata, Trachymene pilosa*
plain, calcareous pale grey sand, v well drained
Sites from NH

GROUP: 1 3 4 9 17 5 sites, Ho = 0.50
Dominant: *Banksia prionotes, B. attenuata*
Constant: *B. prionotes, B. attenuata*
plain or valley flat, grey sand / yellow, v well drained
Sites from WNP,C,L,YAD

GROUP: 1 3 4 9 18 4 sites, Ho = 0.26
Dominant: *Eucalyptus todtiana, Banksia prionotes*
Constant: *E. todtiana, Banksia attenuata*
plain or valley flat, grey sand / yellow, v well drained
Sites from D,C,L

GROUP: 1 3 4 9 19 1 site
Dominant: *Banksia attenuata*
Constant: *B. attenuata, Melaleuca viminea ssp. viminea*
vale (upper drainage line), grey sand / orange, v well drained
Sites from C

GROUP: 1 3 4 9 20 1 site
Dominant: *Banksia prionotes, Scholtzia parviflora*
Constant: *B. prionotes, S. parviflora*
valley flat, grey sand / orange, well drained
Sites from C

GROUP: 1 3 4 9 21 2 sites, Ho = 0.33
Dominant: *Scholtzia parviflora*
Constant: *S. parviflora, Calothamnus quadrifidus*
valley flat, grey sand / yellow, well drained
Sites from C,NN(w)

GROUP: 1 3 4 10 22 1 site
Dominant: *Banksia attenuata, Eremaea pauciflora ssp. pauciflora*
Constant: *B. attenuata, Eucalyptus todtiana*
hollow in upland, pale yellow sand / yellow, v well drained
Sites from B

GROUP: 1 3 4 10 23 1 site
Dominant: *Banksia attenuata, Eucalyptus todtiana*
Constant: *B. attenuata, E. todtiana*
valley flat, grey sand, v well drained
Sites from C

GROUP: 1 4 5 11 24 2 sites, Ho = 0.20
Dominant: none consistently
Constant: *Acacia saligna, Hakea trifurcata*
slope or valley flat, grey sand, well drained
Sites from C,ARI

GROUP: 1 4 5 11 25 4 sites, Ho = 0.16
Dominant: *Calothamnus quadrifidus*
Constant: *Acacia saligna, C. quadrifidus*
valley flat, grey loamey sand / clay, mod drained, occ damp
Sites from COM,B

GROUP: 1 4 5 11 26 1 site
Dominant: *Calothamnus quadrifidus*
Constant: *C. quadrifidus, Eucalyptus calophylla*
pediment, brown loamey sand / clay, well drained, occ damp
Sites from COM

GROUP: 1 4 5 12 27 3 sites, Ho = 0.36
Dominant: *Calothamnus quadrifidus*
Constant: *C. quadrifidus, Petrophile seminuda*
pediment or valley flat, brown loam / clay, mod drained, occ damp
Sites from B

GROUP: 1 4 6 13 28 2 sites, Ho = 0.25
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Dryandra sessilis ssp. sessilis*
upland plain, lateritic sand G, v well drained
Sites from B

GROUP: 1 4 6 13 29 1 site
Dominant: *Hypocalymma angustifolium, Eucalyptus calophylla*
Constant: *H. angustifolium, E. calophylla*
valley flat, grey-brown sand / clay, mod drained, occ damp
Sites from C

GROUP: 1 4 6 13 30 3 sites, Ho = 0.35
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Hibbertia racemosa*
scarp, lateritic red gravelly loam, well drained
Sites from D,C

GROUP: 1 5 7 14 31 3 sites, Ho = 0.66
Dominant: *Calothamnus quadrifidus*
Constant: *C. quadrifidus, Baeckea crispiflora*
plain or pediment, yellow sand, well drained
Sites from L,JIN

GROUP: 1 5 7 14 32 5 sites, Ho = 0.41
Dominant: *Calothamnus quadrifidus, Hibbertia hypericoides*
Constant: *C. quadrifidus, Allocasuarina humilis*
pediment or valley flat, grey sand / yellow, well drained, occ damp
Sites from D,Y,C

GROUP: 1 5 7 14 33 1 site
Dominant: *Dryandra fraseri*
Constant: *D. fraseri, Allocasuarina campestris*
upland plain, grey sand / lateritic, v well drained
Sites from MAC

GROUP: 1 5 7 14 34 2 sites, Ho = 0.29
Dominant: none consistently
Constant: *Allocasuarina campestris, Calothamnus quadrifidus*
pediment or valley flat,, v well drained
Sites from NN(w)

GROUP: 1 5 7 14 35 2 sites, Ho = 0.42
Dominant: *Calothamnus quadrifidus*
Constant: *Allocasuarina campestris, C. quadrifidus*
valley flat, orange loamey sand, well drained
Sites from NN(w),WN(w)

GROUP: 1 5 7 15 36 5 sites, Ho = 0.48
Dominant: *Petrophile scabrluscula var. recurva, ?*
Constant: *Verticordia densiflora, Mesomelaena pseudostygia*
plain or valley flat, pale yellow sand / yellow, v well drained
Sites from WN(w),NN(w),MI(w)

GROUP: 1 5 7 15 37 6 sites, Ho = 0.86
Dominant: none consistently
Constant: *Verticordia densiflora, Opercularia vaginata*
plain or pediment, grey sand / yellow, v well drained
Sites from WN(w)

GROUP: 1 5 7 16 38 5 sites, Ho = 0.37
Dominant: none consistently
Constant: *Leptocarpus chaetocephalus or preissii, Neurachne alopecuroidea*
plain or pediment, grey sand / yellow, v well drained
Sites from NN

GROUP: 1 5 7 16 39 2 sites, Ho = 0.35
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Hakea lissocarpha*
pediment, grey sand / yellow, v well drained
Sites from NN

GROUP: 1 5 7 17 40 1 site
Dominant: *Melaleuca scabra*
Constant: *M. scabra, Hakea prostrata*
pediment, grey sand / yellow, well drained
Sites from C

GROUP: 1 5 7 17 41 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Verticordia densiflora, Calothamnus quadrifidus*
valley flat, sand / lateritic, well drained
Sites from C,NN(w)

GROUP: 1 5 7 17 42 2 sites, Ho = 0.27
Dominant: none consistently
Constant: *Verticordia densiflora, Melaleuca seriata*
valley flat, yellow sand, well drained, occ damp
Sites from C

GROUP: 1 5 7 17 43 1 site
Dominant: *Jacksonia ulicina*
Constant: *J. ulicina, Verticordia densiflora*
valley flat, pale yellow sand / clay, well drained
Sites from L

GROUP: 1 5 8 18 44 2 sites, Ho = 0.37
Dominant: none consistently
Constant: *Calothamnus quadrifidus, Eucalyptus todtiana*
valley flat, pale yellow sand / yellow, v well drained
Sites from COM

GROUP: 1 5 8 18 45 11 sites, Ho = 0.53
Dominant: *Eucalyptus todtiana*
Constant: *Dryandra nivea, Calothamnus quadrifidus*
plain or pediment, pale yellow sand / yellow, v well drained
Sites from D,L,+

GROUP: 1 5 8 18 46 7 sites, Ho = 0.42
Dominant: *Eucalyptus calophylla*
Constant: *Dryandra nivea, E. calophylla*
pediment, sand / gravel, well drained
Sites from D,Y

GROUP: 1 5 8 18 47 2 sites, Ho = 0.35
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Dryandra nivea*
„ well drained
Sites from C,Y

GROUP: 2 6 9 19 48 5 sites, Ho = 0.63
Dominant: *Banksia prionotes*
Constant: *Eremaea beaufortioides, Beaufortia elegans*
vale (upper drainage line) or dune, grey sand, v well drained
Sites from 1D,APR,4I

GROUP: 2 6 9 19 49 7 sites, Ho = 0.41
Dominant: *Banksia leptophylla ssp. leptophylla*
Constant: *Leptospermum erubescens, Eremaea beaufortioides var. microphylla*
plain or +, grey sand / gravel, v well drained
Sites from 4J,MTR,4I,4K

GROUP: 2 6 9 19 50 18 sites, Ho = 0.44
Dominant: *Banksia prionotes, Xylomelum angustifolium*
Constant: *B. prionotes, X. angustifolium*
plain or dune, yellow sand, v well drained
Sites from 1G,EGA,PIN,WNP

GROUP: 2 7 10 20 51 2 sites, Ho = 0.36
Dominant: *Melaleuca seriata*
Constant: *M. seriata, M. brevifolia*
vale (upper drainage line) or depression, yellow sand, v well drained, occ damp
Sites from 1F

GROUP: 2 7 10 20 52 2 sites, Ho = 0.20
Dominant: *Hakea brachyptera*
Constant: *H. brachyptera, Melaleuca seriata*
depression or valley flat, sand, well drained, occ damp
Sites from IF,W

GROUP: 2 7 10 21 53 4 sites, Ho = 0.33
Dominant: *Eremaea beaufortioides var. microphylla, Actinostrobus arenarius*
Constant: *E. beaufortioides var. microphylla, Hakea brachyptera*
vale (upper drainage line) or flat, yellow sand, v well drained
Sites from EGA,1G

GROUP: 2 7 10 21 54 2 sites, Ho = 0.29
Dominant: *Hakea brachyptera*
Constant: *H. brachyptera, Actinostrobus arenarius*
flat, grey sand / yellow, v well drained, occ damp
Sites from WNP

GROUP: 2 7 10 21 55 1 site
Dominant: *Melaleuca seriata*
Constant: *M. seriata, Hakea brachyptera*
valley flat, sand, well drained, winter damp
Sites from 2L

GROUP: 2 7 10 21 56 1 site
Dominant: *Actinostrobus arenarius*
Constant: *Melaleuca seriata, Verticordia densiflora*
valley flat, pale yellow sand / yellow, v well drained
Sites from DAL

GROUP: 2 7 10 22 57 1 site
Dominant: *Verticordia densiflora, Actinostrobus arenarius*
Constant: *V. densiflora, A. arenarius*
valley flat, pale orange sand / orange, well drained
Sites from C

GROUP: 2 7 11 23 58 2 sites, Ho = 0.30
Dominant: *Banksia leptophylla ssp. leptophylla*
Constant: *B. leptophylla ssp. leptophylla, Verticordia densiflora*
valley flat or pediment, grey loamey sand, well drained, occ damp
Sites from 4I,YNR

GROUP: 2 7 11 23 59 1 site
Dominant: *Hakea marginata, Melaleuca uncinata*
Constant: *Verticordia densiflora, Hakea brachyptera*
valley flat, orange sand, well drained, occ damp
Sites from L

GROUP: 2 7 11 24 60 1 site
Dominant: *Melaleuca uncinata, M. seriata*
Constant: *M. uncinata, Hakea brachyptera*
depression, brown sand / clay, mod drained, occ damp
Sites from L

GROUP: 2 7 11 25 61 2 sites, Ho = 0.26
Dominant: *Ecdeiocolea monostachya*
Constant: *Hakea brachyptera, E. monostachya*
plain, orange sand, v well drained
Sites from L

GROUP: 3 8 12 26 62 4 sites, Ho = 0.20
Dominant: *Hakea gilbertii, Melaleuca acerosa*
Constant: *Dryandra kippistiana var. kippistiana, Xanthorrhoea drummondii*
pediment or upland plain, lateritic orange loamey gravel, v well drained
Sites from B,MTR,SEE

GROUP: 3 8 12 27 63 3 sites, Ho = 0.70
Dominant: *Xanthorrhoea drummondii, Calothamnus sanguineus*
Constant: *X. drummondii, Allocasuarina humilis*
pediment or upland plain, lateritic orange sandy gravel, v well drained
Sites from BNR

GROUP: 3 8 12 27 64 2 sites, Ho = 0.60
Dominant: none consistently
Constant: *Allocasuarina humilis, Calothamnus sanguineus*
pediment, orange sand, well drained
Sites from Y

GROUP: 3 8 12 28 65 3 sites, Ho = 0.62
Dominant: *Gastrolobium spinosum, Dryandra carlinoides*
Constant: *D. carlinoides, Hibbertia hypericoides*
upland plain, lateritic grey sandy gravel, well drained
Sites from L,C

GROUP: 3 8 13 29 66 5 sites, Ho = 0.43
Dominant: *Melaleuca psalmophila, M. radula*
Constant: *M. psalmophila, M. radula*
scarp, brown loamey gravel, well drained
Sites from D,Y

GROUP: 3 8 13 29 67 1 site
Dominant: *Melaleuca psalmophila*
Constant: *M. psalmophila, M. uncinata*
scarp, lateritic grey gravelly loam, well drained
Sites from Y

GROUP: 3 8 13 29 68 5 sites, Ho = 0.27
Dominant: *Gastrolobium spinosum, Dryandra carlinoides*
Constant: *Calothamnus quadrifidus, Hibbertia hypericoides*
upland plain or scarp, lateritic brown loamey gravel, well drained
Sites from D,Y

GROUP: 3 8 14 30 69 13 sites, Ho = 0.43
Dominant: *Hibbertia hypericoides, Calothamnus sanguineus*
Constant: *Lambertia multiflora ssp. Northern, H. hypericoides*
upland plain, lateritic grey sandy gravel, well drained
Sites from C,MWR,+

GROUP: 3 8 14 30 70 9 sites, Ho = 0.28
Dominant: *Hibbertia hypericoides, Calothamnus sanguineus*
Constant: *Xanthorrhoea drummondii, H. hypericoides*
upland plain or pediment, lateritic grey sandy gravel, well drained
Sites from C,D,+

GROUP: 3 8 14 30 71 22 sites, Ho = 0.27
Dominant: *Hibbertia hypericoides, Dryandra carlinoides*
Constant: *H. hypericoides, Allocasuarina humilis*
upland plain, lateritic grey sandy gravel, well drained
Sites from C,L

GROUP: 3 8 14 31 72 13 sites, Ho = 0.40
Dominant: *Dryandra hewardiana, D. carlinoides*
Constant: *Calothamnus sanguineus, Hibbertia hypericoides*
upland plain or scarp, lateritic grey sandy gravel, well drained
Sites from Y,C,+

GROUP: 3 8 14 31 73 5 sites, Ho = 0.62
Dominant: *Hibbertia hypericoides, Dryandra hewardiana*
Constant: *Calothamnus sanguineus, H. hypericoides*
upland plain, lateritic grey sandy gravel, well drained
Sites from C,+

GROUP: 3 9 15 32 74 4 sites, Ho = 0.27
Dominant: *Petrophile chrysantha, Allocasuarina ramosissima*
Constant: *P. chrysantha, Xanthorrhoea drummondii*
upland plain, lateritic grey loamey gravel, well drained
Sites from SEE,3D,COM,CAD

GROUP: 3 9 15 32 75 5 sites, Ho = 0.43
Dominant: *Calothamnus longissimus, Allocasuarina ramosissima*
Constant: *C. longissimus, A. ramosissima*
pediment, lateritic cream loamey gravel, well drained
Sites from EGR,4K,4I,TOO,B

GROUP: 3 9 15 32 76 3 sites, Ho = 0.42
Dominant: *Hakea gilbertii*
Constant: *H. gilbertii, Dryandra carlinoides*
upland plain or +, lateritic grey loamey sandy gravel, v well drained
Sites from COM,SER,Le

GROUP: 3 9 15 32 77 5 sites, Ho = 0.32
Dominant: *Allocasuarina ramosissima, Hakea gilbertii*
Constant: *A. ramosissima, Calothamnus sanguineus*
pediment or +, grey gravelly sand / lateritic gravel, well drained, occ damp
Sites from B,D

GROUP: 3 9 15 33 78 6 sites, Ho = 0.33
Dominant: *Ecdeiocolea monostachya, Calothamnus quadrifidus*
Constant: *C. quadrifidus, Hakea incrassata*
pediment or +, grey sand / lateritic gravel, well drained, occ damp
Sites from EGR,+

GROUP: 3 9 15 33 79 5 sites, Ho = 0.62
Dominant: *Ecdeiocolea monostachya*
Constant: *Calothamnus quadrifidus, Hakea incrassata*
valley flat or +, grey loamey sand / lateritic gravel, well drained, occ damp
Sites from TWA,+

GROUP: 3 9 15 33 80 2 sites, Ho = 0.32
Dominant: none consistently
Constant: *Hakea incrassata, Allocasuarina ramosissima*
pediment or vale (upper drainage line), sand / gravel, mod drained
Sites from B,C

GROUP: 3 9 15 34 81 5 sites, Ho = 0.37
Dominant: *Eucalyptus gittinsii, Ecdeiocolea monostachya*
Constant: *Allocasuarina campestris, E. monostachya*
pediment or +, orange loamey sand / lateritic gravel, well drained, occ damp
Sites from B,MTR

GROUP: 3 9 15 34 82 3 sites, Ho = 0.61
Dominant: *Allocasuarina campestris, Ecdeiocolea monostachya*
Constant: *Melaleuca holosericea, E. monostachya*
upland plain or pediment, lateritic grey sandy gravel, well drained
Sites from YNR,LAT

GROUP: 3 9 16 35 83 11 sites, Ho = 0.50
Dominant: *Lambertia multiflora ssp. Northern*
Constant: *Calothamnus sanguineus, Dryandra shuttleworthiana*
pediment, grey sand / lateritic gravel, v well drained
Sites from 4F,1A,+

GROUP: 3 9 16 35 84 11 sites, Ho = 0.49
Dominant: *Ecdeiocolea monostachya, Melaleuca trichophylla*
Constant: *E. monostachya, Allocasuarina microstachya*
pediment or valley flat, grey sand / lateritic gravel, well drained, occ damp
Sites from 4K,3C,+

GROUP: 3 9 16 36 85 10 sites, Ho = 0.36
Dominant: *Ecdeiocolea monostachya*
Constant: *E. monostachya, Leptospermum erubescens*
plain or pediment, grey sand, v well drained
Sites from APR,YNR,1D,+

GROUP: 3 9 16 37 86 4 sites, Ho = 0.16
Dominant: *Banksia leptophylla ssp. leptophylla*
Constant: *B. leptophylla ssp. leptophylla, Eremaea beaufortioides*
pediment or +, grey sand, v well drained
Sites from 1A,B

GROUP: 3 9 16 37 87 1 site
Dominant: *Banksia telmatiaea*
Constant: *B. telmatiaea, Eremaea beaufortioides*
valley flat, grey sand, well drained, occ damp
Sites from COM

GROUP: 3 9 16 37 88 2 sites, Ho = 0.26
Dominant: none consistently
Constant: *Dryandra sessilis ssp. sessilis, Petrophile scabrluscula var. recurva*
pediment, grey sand / loamey sand, v well drained
Sites from MTR,WIL

GROUP: 3 9 16 37 89 2 sites, Ho = 0.20
Dominant: none consistently
Constant: *Dryandra sessilis ssp. sessilis, Banksia leptophylla ssp. leptophylla*
plain or scarp, grey sand / gravel, v well drained, occ damp
Sites from WNP,B

GROUP: 3 9 17 38 90 4 sites, Ho = 0.30
Dominant: *Hibbertia hypericoides, Leptospermum erubescens*
Constant: *H. hypericoides, L. erubescens*
pediment or +, grey sand ?, well drained
Sites from MIN,ARI,2B

GROUP: 3 9 17 38 91 7 sites, Ho = 0.44
Dominant: *Hibbertia hypericoides, Banksia attenuata*
Constant: *H. hypericoides, Mesomelaena pseudostygia*
pediment or vale (upper drainage line), grey sand / yellow sand, v well drained
Sites from BUR

GROUP: 3 9 17 38 92 2 sites, Ho = 0.33
Dominant: none consistently
Constant: *Hibbertia hypericoides, Allocasuarina humilis*
pediment, grey sand ?, v well drained
Sites from WIC

GROUP: 3 9 17 38 93 4 sites, Ho = 0.23
Dominant: *Ecdeiocolea monostachya*
Constant: *E. monostachya, Calothamnus quadrifidus*
plain, yellow sand / loamey sand, v well drained
Sites from 2B,4H,MIN,THO

GROUP: 3 9 17 38 94 5 sites, Ho = 0.42
Dominant: *Ecdeiocolea monostachya, Banksia prionotes*
Constant: *E. monostachya, Hakea brachyptera*
plain, grey sand / yellow sand, v well drained
Sites from ARO,THO,+

GROUP: 3 9 17 39 95 6 sites, Ho = 0.46
Dominant: *Melaleuca holosericea, Hibbertia hypericoides*
Constant: *H. hypericoides, Dryandra shuttleworthiana*
upland plain or +, grey loamey gravel / lateritic gravel, well drained
Sites from THO,2B,2C,BUR,2J

GROUP: 3 9 17 39 96 2 sites, Ho = 0.44
Dominant: *Melaleuca psalmophila*
Constant: *M. psalmophila, Hibbertia hypericoides*
scarp, lateritic grey loamey gravel, well drained
Sites from 2K

GROUP: 3 9 17 39 97 3 sites, Ho = 0.49
Dominant: *Melaleuca ciliosa, Dryandra fraseri*
Constant: *M. ciliosa, D. fraseri*
upland plain or +, lateritic grey sandy gravel, v well drained
Sites from BUR,2K

GROUP: 3 9 17 39 98 6 sites, Ho = 0.42
Dominant: *Calothamnus sanguineus, Ecdeiocolea monostachya*
Constant: *Allocasuarina humilis, Hibbertia hypericoides*
upland plain or plain, grey sand / lateritic gravel, v well drained
Sites from 2I,+

GROUP: 3 9 17 39 99 3 sites, Ho = 0.53
Dominant: *Calothamnus quadrifidus*
Constant: *Ecdeiocolea monostachya, Hakea trifurcata*
pediment or +, grey sand / lateritic gravel, v well drained
Sites from 4K,L

GROUP: 4 10 18 40 100 1 site
Dominant: *Banksia prionotes, Ecdeiocolea monostachya*
Constant: *B. prionotes, E. monostachya*
slope, pale yellow sand, v well drained
Sites from BPU

GROUP: 4 10 18 40 101 1 site
Dominant: *Acacia blakelyi, Ecdeiocolea monostachya*
Constant: *A. blakelyi, E. monostachya*
pediment, grey sand / yellow sand, v well drained
Sites from ALL

GROUP: 4 10 18 40 102 3 sites, Ho = 0.41
Dominant: *Banksia attenuata, Grevillea dielsiana*
Constant: *Acacia blakelyi, Grevillea dielsiana*
plain or pediment, yellow sand, v well drained
Sites from 2C,2D,DEP

GROUP: 4 10 18 41 103 3 sites, Ho = 0.70
Dominant: *Ecdeiocolea monostachya, Hakea circumalata*
Constant: *H. circumalata, Jacksonia sp. Kalbarri*
plain, yellow sand, v well drained
Sites from 2C,DEP

GROUP: 4 10 18 41 104 4 sites, Ho = 0.20
Dominant: *Ecdeiocolea monostachya, Allocasuarina campestris*
Constant: *E. monostachya, A. campestris*
upland plain or pediment, pale yellow sand / lateritic gravel, well drained
Sites from DEP,MIN

GROUP: 4 10 18 41 105 3 sites, Ho = 0.42
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Ecdeiocolea monostachya*
flat or plain, pale yellow sand / lateritic gravel, v well drained
Sites from 2H

GROUP: 4 10 18 41 106 6 sites, Ho = 0.74
Dominant: *Grevillea dielsiana, Banksia prionotes*
Constant: *Ecdeiocolea monostachya, Allocasuarina campestris*
plain or +, yellow sand, v well drained
Sites from 2D,2E,2F,2G,BOD

GROUP: 4 10 18 41 107 6 sites, Ho = 0.56
Dominant: *Ecdeiocolea monostachya, Allocasuarina campestris*
Constant: *E. monostachya, Hibbertia conspicua*
plain or +, yellow sand, v well drained
Sites from 2H,CAS,WIC

GROUP: 4 10 18 41 108 3 sites, Ho = 0.79
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Hibbertia conspicua*
plain, yellow sand / loam S, v well drained
Sites from FOR,2G

GROUP: 4 10 19 42 109 3 sites, Ho = 0.39
Dominant: *Actinostrobus arenarius, Ecdeiocolea monostachya*
Constant: *E. monostachya, Allocasuarina campestris*
plain or pediment, pale yellow sand / lateritic gravel, v well drained
Sites from 1E,PIN,2M

GROUP: 4 10 19 42 110 2 sites, Ho = 0.32
Dominant: *Melaleuca scabra*
Constant: *M. scabra, Ecdeiocolea monostachya*
upland plain, grey sand ?, well drained, occ damp
Sites from L

GROUP: 4 10 19 42 111 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Ecdeiocolea monostachya, Allocasuarina campestris*
plain or flat, yellow sand ?, v well drained
Sites from 1G,4K

GROUP: 4 10 19 43 112 4 sites, Ho = 0.34
Dominant: *Xylomelum angustifolium, Ecdeiocolea monostachya*
Constant: *X. angustifolium, E. monostachya*
plain or flat, yellow sand, v well drained
Sites from 1G,4J,4K,PIN

GROUP: 4 10 19 43 113 8 sites, Ho = 0.50
Dominant: *Ecdeiocolea monostachya, Actinostrobus arenarius*
Constant: *E. monostachya, Baeckea crispiflora*
plain or +, yellow sand / loamey sand, v well drained
Sites from GUN,2A,2M,2N,DOL

GROUP: 4 10 19 43 114 2 sites, Ho = 0.65
Dominant: *Allocasuarina campestris, Ecdeiocolea monostachya*
Constant: *A. campestris, E. monostachya*
plain, yellow sand, v well drained
Sites from MAC

GROUP: 4 10 19 43 115 2 sites, Ho = 0.31
Dominant: *Ecdeiocolea monostachya*
Constant: *E. monostachya, Allocasuarina campestris*
plain or pediment, yellow sand, v well drained
Sites from MAC

GROUP: 4 10 19 44 116 3 sites, Ho = 0.36
Dominant: none consistently
Constant: *Ecdeiocolea monostachya, Grevillea eriostachya ssp.eriostachya*
plain or dune, yellow sand, v well drained
Sites from 2A,L,MAR

GROUP: 4 10 19 44 117 2 sites, Ho = 0.38
Dominant: *Xylomelum angustifolium*
Constant: *X. angustifolium, Grevillea eriostachya ssp.eriostachya*
plain or vale (upper drainage line), yellow sand, v well drained
Sites from 2M,GUN

GROUP: 4 10 19 44 118 3 sites, Ho = 0.44
Dominant: *Actinostrobus arenarius*
Constant: *A. arenarius, Plectrachne danthonioides*
plain or valley flat, yellow sand, v well drained
Sites from PIN,P,WNP

GROUP: 4 10 19 44 119 9 sites, Ho = 0.24
Dominant: *Banksia prionotes, Ecdeiocolea monostachya*
Constant: *B. prionotes, Actinostrobus arenarius*
plain or valley flat, yellow sand, v well drained
Sites from L,WNP,+

GROUP: 4 11 20 45 120 2 sites, Ho = 0.68
Dominant: *Ecdeiocolea monostachya, Allocasuarina campestris*
Constant: *E. monostachya, A. campestris*
pediment or rise, grey gravelly sand / lateritic gravel, v well drained
Sites from 1D

GROUP: 4 11 20 45 121 2 sites, Ho = 0.47
Dominant: none consistently
Constant: *Allocasuarina campestris, Ecdeiocolea monostachya*
rise, grey sand, v well drained
Sites from APR

GROUP: 4 11 20 45 122 4 sites, Ho = 0.19
Dominant: *Allocasuarina campestris, Melaleuca uncinata*
Constant: *A. campestris, Stylidium leptophyllum*
rise or +, chert grey sandy gravel, v well drained
Sites from PIN,JIN

GROUP: 4 11 20 46 123 3 sites, Ho = 0.58
Dominant: *Allocasuarina campestris, Borya sphaerocephala*
Constant: *A. campestris, B. sphaerocephala*
slope or rise, grey gravelly loam, well drained
Sites from JIN,1J

GROUP: 4 11 20 46 124 3 sites, Ho = 0.46
Dominant: *Allocasuarina campestris, Borya sphaerocephala*
Constant: *A. campestris, B. sphaerocephala*
upland plain or rise, grey sandy gravel / lateritic gravel, v well drained
Sites from GUN,JIN

GROUP: 4 11 20 46 125 2 sites, Ho = 0.35
Dominant: none consistently
Constant: *Melaleuca uncinata, Borya sphaerocephala*
slope orM, chert grey sandy gravel, v well drained
Sites from 1J,GUN

GROUP: 4 11 20 47 126 2 sites, Ho = 0.39
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Ecdeiocolea monostachya*
rise or flat, lateritic sand G, well drained, occ damp
Sites from 2B,ARI

GROUP: 4 11 20 47 127 2 sites, Ho = 0.32
Dominant: *Ecdeiocolea monostachya*
Constant: *E. monostachya, Melaleuca radula*
rise, brown loam / lateritic gravel, well drained, occ damp
Sites from MAC,B

GROUP: 4 11 20 47 128 4 sites, Ho = 0.28
Dominant: none consistently
Constant: *Melaleuca radula, Borya sphaerocephala*
slope or +, grey gravelly loam / clay, well drained, occ damp
Sites from EGR,4F,Le

GROUP: 4 11 20 47 129 2 sites, Ho = 0.24
Dominant: *Melaleuca psalmophila*
Constant: *M. psalmophila, Allocasuarina campestris*
rise or scarp, gravel L, well drained
Sites from DOO,YNR

GROUP: 4 11 21 48 130 2 sites, Ho = 0.22
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Ecdeiocolea monostachya*
pediment or plain, yellow loamey sand / lateritic, well drained
Sites from 2L

GROUP: 4 11 21 48 131 2 sites, Ho = 0.29
Dominant: *Actinostrobus arenarius*
Constant: *A. arenarius, Calothamnus quadrifidus*
plain or pediment, yellow sand / yellow loamey sand, v well drained
Sites from 2N,DAL

GROUP: 4 11 21 48 132 2 sites, Ho = 0.24
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Ecdeiocolea monostachya*
upland plain, cream gravelly sand / lateritic gravel, v well drained
Sites from 2N,DAL

GROUP: 4 11 22 49 133 3 sites, Ho = 0.37
Dominant: *Allocasuarina campestris, Ecdeiocolea monostachya*
Constant: *A. campestris, E. monostachya*
pediment or +, yellow sand / lateritic gravel, v well drained
Sites from 1D,PIN,WIC

GROUP: 4 11 22 50 134 1 site
Dominant: *Eucalyptus ebbonoensis ssp. photina, Allocasuarina campestris*
Constant: *E. ebbonoensis ssp. photina, A. campestris*
upland plain, lateritic orange sandy gravel, well drained
Sites from 2H

GROUP: 4 11 22 50 135 1 site
Dominant: *Baeckea megaflora, Allocasuarina campestris*
Constant: *Baeckea megaflora, A. campestris*
pediment, pale yellow sand / loamey gravel, well drained
Sites from DEP

GROUP: 4 11 22 51 136 1 site
Dominant: *Acacia ligustrina, Ecdeiocolea monostachya*
Constant: *A. ligustrina, E. monostachya*
valley flat, yellow sand orange clay, v well drained
Sites from 2E

GROUP: 4 11 22 51 137 3 sites, Ho = 0.39
Dominant: *Melaleuca uncinata, Allocasuarina campestris*
Constant: *M. uncinata, A. campestris*
pediment or vale (upper drainage line), loam S, v well drained, occ damp
Sites from 2L,DOL,BOD

GROUP: 4 11 22 51 138 1 site
Dominant: *Melaleuca uncinata*
Constant: *M. uncinata, Allocasuarina campestris*
pediment, quartz pale brown loamey gravel, v well drained, occ damp
Sites from BOD

GROUP: 4 11 22 51 139 2 sites, Ho = 0.24
Dominant: *Allocasuarina campestris, Melaleuca uncinata*
Constant: *A. campestris, M. uncinata*
scarp or pediment, grey sandy gravel, well drained, occ damp
Sites from MIN,WIC

GROUP: 4 11 22 52 140 2 sites, Ho = 0.33
Dominant: *Melaleuca uncinata*
Constant: *M. uncinata, Allocasuarina campestris*
valley flat, grey sand / sand C, well drained, occ damp
Sites from 2E,2H

GROUP: 4 11 22 52 141 3 sites, Ho = 0.41
Dominant: none consistently
Constant: *Acacia stereophylla, Jacksonia N.Hoyle 579*
plain or valley flat, yellow sand, v well drained, occ damp
Sites from 2F,NAN

GROUP: 4 11 22 52 142 1 site
Dominant: *Eucalyptus obtusiflora, Melaleuca uncinata*
Constant: *E. obtusiflora, M. uncinata*
flat, orange sand / gravel, v well drained
Sites from 2E

GROUP: 4 11 22 53 143 2 sites, Ho = 0.25
Dominant: *Eucalyptus loxophleba*
Constant: *E. loxophleba, Melaleuca uncinata*
flat or valley flat, loam / gravel, well drained, occ damp
Sites from WNP,4K

GROUP: 4 11 22 53 144 1 site
Dominant: *Melaleuca lateriflora var. acutifolia, Eucalyptus dolichocera*
Constant: *M. lateriflora var. acutifolia, Allocasuarina campestris*
flat,2 brown sandy loam
Sites from 2 GUN

GROUP: 4 11 22 54 145 2 sites, Ho = 0.28
Dominant: none consistently
Constant: *Allocasuarina campestris, Hakea scoparia*
slope or rise, brown gravelly loam, well drained
Sites from DOL,WA

GROUP: 4 11 22 54 146 2 sites, Ho = 0.48
Dominant: *Eucalyptus loxophleba ssp. loxophleba, Acacia acuminata*
Constant: *E. loxophleba ssp. loxophleba, A. acuminata*
valley flat or slope, red loam, mod drained, occ damp
Sites from MAC,YTS

GROUP: 4 11 23 55 147 4 sites, Ho = 0.19
Dominant: *Melaleuca uncinata*
Constant: *Trachymene cyanopetala, Velleia trinervis*
rise or +, brown gravelly loam, mod drained, occ damp
Sites from DOO

GROUP: 4 12 24 56 148 2 sites, Ho = 0.39
Dominant: none consistently
Constant: *Hakea circumalata, Baeckea camphorosmae*
rise or dune, sand / lateritic gravel, v well drained
Sites from 1D,1F

GROUP: 4 12 24 56 149 2 sites, Ho = 0.29
Dominant: none consistently
Constant: *Hakea circumalata, Allocasuarina campestris*
vale (upper drainage line) or plain, sand / ?, v well drained
Sites from 1D,2H

GROUP: 4 12 24 56 150 1 site
Dominant: *Actinostrobus arenarius, Grevillea integrifolia ssp. biformis*
Constant: *A. arenarius, G. integrifolia ssp. biformis*
plain, yellow loamey sand / lateritic gravel, v well drained
Sites from MAC

GROUP: 4 12 24 57 151 1 site
Dominant: *Dryandra borealis ssp. elatior, Hakea scoparia*
Constant: *D. borealis ssp. elatior, H. scoparia*
rise, lateritic yellow loamey gravel, v well drained
Sites from MAC

GROUP: 4 12 25 58 152 1 site
Dominant: *Melaleuca uncinata*
Constant: *M. uncinata, Allocasuarina campestris*
valley flat, grey loamey clay, mod drained, winter damp
Sites from 4E

GROUP: 4 12 25 58 153 1 site
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Scholtzia parviflora*
valley flat, brown loam / clay, poorly drained, occ damp
Sites from B

GROUP: 4 12 25 59 154 2 sites, Ho = 0.27
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Dryandra stricta*
valley flat or rise, orange gravelly loam / ferrugineous gravel, well drained, occ damp
Sites from MTR,YWR

GROUP: 4 12 25 60 155 1 site
Dominant: *Melaleuca rhaphiophylla*
Constant: *M. rhaphiophylla, Calothamnus quadrifidus*
depression, grey sand / ferrugineous gravel, well drained, occ damp
Sites from IND

GROUP: 4 12 25 60 156 1 site
Dominant: *Casuarina obesa, Jacksonia ulicina*
Constant: *C. obesa, J. ulicina*
valley flat, yellow sand / ferrugineous gravel, v well drained, occ damp
Sites from PIN

GROUP: 4 12 25 61 157 2 sites, Ho = 0.46
Dominant: none consistently
Constant: *Allocasuarina campestris, Jacksonia ulicina*
plain, ferrugineous grey sandy gravel / ferrugineous gravel, v well drained
Sites from LAT(rocky S)

GROUP: 5 13 26 62 158 1 site
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, M. radula*
Constant: *M. coronicarpa ssp. coronicarpa, M. radula*
scarp, grey sandy loamey gravel, well drained
Sites from 2K

GROUP: 5 13 26 62 159 1 site
Dominant: *Melaleuca psalmophila, Eucalyptus arachnaea*
Constant: *M. psalmophila, M. coronicarpa ssp. coronicarpa*
slope, loam gravel / clay, well drained, occ damp
Sites from MAC

GROUP: 5 13 26 62 160 1 site
Dominant: *Eucalyptus pileata, E. loxophleba ssp. loxophleba*
Constant: *E. loxophleba ssp. loxophleba, Melaleuca uncinata*
pediment, chert grey gravelly loam, well drained
Sites from WA

GROUP: 5 13 26 63 161 6 sites, Ho = 0.50
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, M. uncinata*
Constant: *M. coronicarpa ssp. coronicarpa, Eucalyptus wandoo ssp. wandoo*
scarp or slope, brown gravelly loam / clay, well drained
Sites from NN

GROUP: 5 13 26 63 162 3 sites, Ho = 1.38
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, M. uncinata*
Constant: *M. coronicarpa ssp. coronicarpa, M. uncinata*
scarp or rise, orange gravelly loam / clay, well drained
Sites from NN

GROUP: 5 13 26 63 163 1 site
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, M. uncinata*
Constant: *M. coronicarpa ssp. coronicarpa, M. uncinata*
slope, quartz brown gravelly loam, well drained, occ damp
Sites from WA

GROUP: 5 13 27 64 164 1 site
Dominant: *Eucalyptus pluricaulis pluricaulis, Regelia aff. inops*
Constant: *E. pluricaulis pluricaulis, Petrophile divaricata*
slope, quartz cream gravelly loam, well drained
Sites from NN

GROUP: 5 13 27 64 165 4 sites, Ho = 0.29
Dominant: *Eucalyptus arachnaea*
Constant: *E. arachnaea, Melaleuca uncinata*
slope or +, quartz cream gravelly loam / clay, v well drained
Sites from NN,WN,WA

GROUP: 5 13 27 64 166 1 site
Dominant: *Eucalyptus accedens, Hypocalymma angustifolium*
Constant: *Melaleuca coronicarpa ssp. coronicarpa, M. uncinata*
vale (upper drainage line), lateritic brown loamey gravel, well drained
Sites from WN

GROUP: 5 13 27 64 167 1 site
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, Eucalyptus accedens*
Constant: *M. coronicarpa ssp. coronicarpa, E. accedens*
scarp, quartz cream gravelly clay, well drained
Sites from WN

GROUP: 5 14 28 65 168 2 sites, Ho = 0.41
Dominant: none consistently
Constant: *Dryandra armata, Hakea gilbertii*
upland plain or pediment, sandy gravel / lateritic, v well drained
Sites from MTR

GROUP: 5 14 28 65 169 1 site
Dominant: *Eucalyptus gittinsii, Nemcia pauciflora*
Constant: *Dryandra armata, Hakea gilbertii*
upland plain, grey gravelly sand / gravel, v well drained
Sites from WNP

GROUP: 5 14 28 66 170 1 site
Dominant: *Eucalyptus accedens, Melaleuca ? pungens*
Constant: *Dryandra armata, Melaleuca aff. acerosa*
pediment, grey sandy gravel / lateritic, well drained
Sites from MTR

GROUP: 5 14 28 66 171 2 sites, Ho = 1.18
Dominant: *Eucalyptus accedens*
Constant: *E. accedens, Bossiaea eriocarpa*
scarp or rise, lateritic grey sandy gravel, well drained
Sites from B

GROUP: 5 14 28 66 172 1 site
Dominant: *Eucalyptus accedens, Hypocalymma angustifolium*
Constant: *E. accedens, Hakea lissocarpha*
rise, grey sand / lateritic gravel, well drained
Sites from B

GROUP: 5 15 29 67 173 2 sites, Ho = 0.20
Dominant: none consistently
Constant: *Eucalyptus accedens, Hakea lissocarpha*
depression or scarp, well drained, occ damp
Sites from C

GROUP: 5 15 29 67 174 1 site
Dominant: *Eucalyptus wandoo ssp. wandoo, Beaufortia eriocephala*
Constant: *Hakea lissocarpha, Bossiaea eriocarpa*
scarp, lateritic grey sandy gravel, v well drained
Sites from WN

GROUP: 5 15 29 68 175 4 sites, Ho = 0.25
Dominant: *Eucalyptus wandoo ssp. wandoo, Trymalium floribundum*
Constant: *E. wandoo ssp. wandoo, Trymalium floribundum*
channel or slope, brown loamey clay, mod drained, occ damp
Sites from CH

GROUP: 5 15 29 68 176 6 sites, Ho = 0.36
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Bossiaea eriocarpa*
slope or upland plain, ? brown gravelly loam, well drained
Sites from CH,NN

GROUP: 5 15 29 69 177 1 site
Dominant: *Eucalyptus wandoo ssp. wandoo, Macrozamia riedlei*
Constant: *E. wandoo ssp. wandoo, Macrozamia riedlei*
scarp, lateritic brown loamey gravel, well drained
Sites from CH

GROUP: 5 15 29 69 178 1 site
Dominant: *Hypocalymma angustifolium*
Constant: *H. angustifolium, Phyllanthus calycinus*
channel, brown loamey sand, well drained, occ damp
Sites from WN

GROUP: 5 15 29 70 179 2 sites, Ho = 0.29
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Macrozamia riedlei*
pediment, lateritic brown loamey gravel, v well drained
Sites from CH

GROUP: 5 15 30 71 180 6 sites, Ho = 0.67
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *Nemcia spathulata, Danthonia spp.*
slope or +, lateritic brown gravelly loam, well drained. occ damp
Sites from CH,WN

GROUP: 5 15 30 72 181 2 sites, Ho = 0.32
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Trymalium ledifolium var. rosmarinifolium*
upland plain, lateritic brown loamey gravel, v well drained
Sites from NN

GROUP: 5 15 30 72 182 3 sites, Ho = 0.79
Dominant: *Eucalyptus wandoo ssp. wandoo, Gastrolobium trilobum*
Constant: *E. wandoo ssp. wandoo, Hibbertia commutata*
scarp or slope, brown gravelly loam, well drained
Sites from NN,WN

GROUP: 5 15 31 73 183 1 site
Dominant: *Melaleuca coronicarpa ssp. coronicarpa, Eucalyptus wandoo ssp. wandoo*
Constant: *M. coronicarpa ssp. coronicarpa, E. wandoo ssp. wandoo*
scarp, orange gravelly loam, well drained
Sites from CH

GROUP: 5 15 31 73 184 4 sites, Ho = 0.18
Dominant: *Melaleuca coronicarpa ssp. coronicarpa*
Constant: *M. coronicarpa ssp. coronicarpa, Acacia lasiocarpa var. sedifolia*
scarp or rise, brown gravelly loam, well drained
Sites from NN,WN

GROUP: 5 15 31 73 185 1 site
Dominant: *Hakea erinacea, Borya sphaerocephala*
Constant: *Eucalyptus wandoo ssp. wandoo, Acacia lasiocarpa var. sedifolia*
valley flat, grey gravelly clay / clay, poorly drained, occ damp
Sites from WN

GROUP: 5 16 32 74 186 3 sites, Ho = 0.29
Dominant: *Eucalyptus wandoo ssp. pulverea*
Constant: *E. wandoo ssp. pulverea, Thomasia foliosa*
slope or valley flat, brown loam / ? clay, mod drained, occ damp
Sites from Le

GROUP: 5 16 32 74 187 4 sites, Ho = 0.31
Dominant: *Eucalyptus wandoo ssp. pulverea, Trymalium floribundum*
Constant: *Acacia lasiocarpa var. lasiocarpa, Hakea lissocarpha*
slope, grey-brown gravelly loam, mod drained, occ damp
Sites from Le

GROUP: 5 16 32 75 188 2 sites, Ho = 0.23
Dominant: *Eucalyptus wandoo ssp. pulverea*
Constant: *E. wandoo ssp. pulverea, Acacia lasiocarpa var. lasiocarpa*
pediment or slope, brown gravelly loam, mod drained, occ damp
Sites from B,L

GROUP: 5 16 32 75 189 3 sites, Ho = 0.65
Dominant: *Eucalyptus wandoo ssp. pulverea, Stylidium bulbiferum ssp. bulbiferum*
Constant: *E. wandoo ssp. pulverea, Myriocephalus suffruticosus*
rise or pediment, brown gravelly loam, poorly drained, occ damp
Sites from B

GROUP: 5 16 32 76 190 3 sites, Ho = 0.64
Dominant: *Eucalyptus wandoo ssp. pulverea*
Constant: *Acacia lasiocarpa var. lasiocarpa, Hakea lissocarpha*
pediment or slope, grey gravelly loam / clay, poorly drained, occ damp
Sites from Le

GROUP: 5 16 32 76 191 2 sites, Ho = 0.43
Dominant: *Eucalyptus wandoo ssp. pulverea, Hypocalymma linifolium*
Constant: *E. wandoo ssp. pulverea, H. linifolium*
pediment, brown gravelly loam / clay, well drained, occ damp
Sites from D

GROUP: 5 16 32 76 192 2 sites, Ho = 0.28
Dominant: none consistently
Constant: *Hakea lissocarpha, Conostylis androstemma*
pediment, brown gravelly loam, mod drained, occ damp
Sites from D,B

GROUP: 5 17 33 77 193 2 sites, Ho = 0.30
Dominant: *Eucalyptus loxophleba ssp. loxophleba*
Constant: *E. loxophleba ssp. loxophleba, Rhodanthe polycephala*
rise or slope, brown / clay
Sites from D,B

GROUP: 5 17 33 77 194 1 site
Dominant: *Eucalyptus loxophleba ssp. loxophleba, Gastrolobium calycinum*
Constant: *E. loxophleba ssp. loxophleba, G. calycinum*
scarp, brown gravelly loam, well drained
Sites from C

GROUP: 5 17 33 77 195 1 site
Dominant: *Eucalyptus wandoo ssp. pulverea, E. loxophleba ssp. loxophleba*
Constant: *E. wandoo ssp. pulverea, E. loxophleba ssp. loxophleba*
pediment, brown loamey clay, mod drained, occ damp
Sites from D

GROUP: 5 17 34 78 196 5 sites, Ho = 0.80
Dominant: *Eucalyptus loxophleba ssp. loxophleba*
Constant: *Stipa spp., Acacia acuminata*
hollow in upland, granite red-brown sandy loam, well drained
Sites from NN

GROUP: 5 18 35 79 197 4 sites, Ho = 0.24
Dominant: *Eucalyptus salmonophloia, Acacia erinacea*
Constant: *E. salmonophloia, A. erinacea*
pediment, brown gravelly loam, well drained
Sites from NN,PI

GROUP: 5 18 35 79 198 1 site
Dominant: *Eucalyptus wandoo ssp. wandoo, Nemcia capitata*
Constant: *E. wandoo ssp. wandoo, N. capitata*
slope, brown sandy loam, well drained
Sites from NN

GROUP: 5 18 35 79 199 1 site
Dominant: *Eucalyptus wandoo ssp. wandoo, E. salmonophloia*
Constant: *E. wandoo ssp. wandoo, Acacia erinacea*
scarp, red-brown loamey gravel, v well drained, occ damp
Sites from NN

GROUP: 5 18 35 80 200 4 sites, Ho = 0.39
Dominant: *Eucalyptus salmonophloia, E. loxophleba ssp. loxophleba*
Constant: *E. salmonophloia, E. loxophleba ssp. loxophleba*
pediment or valley flat, brown sandy loam, mod drained, occ damp
Sites from WA

GROUP: 5 18 35 80 201 1 site
Dominant: *Allocasuarina campestris, Melaleuca lateriflora var. acutifolia*
Constant: *Eucalyptus loxophleba ssp. loxophleba, Melaleuca uncinata*
pediment, brown sand / clay, mod drained, occ damp
Sites from WA

GROUP: 5 18 35 80 202 1 site
Dominant: *Eucalyptus salmonophloia, Dodonaea inaequifolia*
Constant: *E. salmonophloia, Acacia aestivalis*
pediment, chert brown gravelly loamy sand, well drained, occ damp
Sites from WA

GROUP: 6 19 36 81 203 3 sites, Ho = 0.38
Dominant: *Dryandra purdieana*
Constant: *Hibbertia hypericoides, Hakea lissocarpha*
rise or pediment, gravel LS, well drained, occ damp
Sites from WN,NN,YNR

GROUP: 6 19 36 82 204 2 sites, Ho = 0.24
Dominant: *Calothamnus quadrifidus*
Constant: *C. quadrifidus, Hakea lissocarpha*
BE or pediment, brown gravelly loam, poorly drained, occ damp
Sites from Le,Y

GROUP: 6 19 36 83 205 3 sites, Ho = 0.81
Dominant: *Melaleuca radula, Hibbertia acerosa*
Constant: *Melaleuca trichophylla, Trymalium ledifolium var. rosmarinifolium*
slope, grey gravelly loam, well drained, occ damp
Sites from CH

GROUP: 6 19 36 83 206 6 sites, Ho = 0.79
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Hibbertia hypericoides*
slope or pediment, lateritic grey loamey gravel, well drained
Sites from NN,WN

GROUP: 6 19 36 83 207 3 sites, Ho = 0.58
Dominant: *Hakea erinacea, Gastrolobium calycinum*
Constant: *H. erinacea, Hibbertia hypericoides*
slope or pediment, grey gravelly loam, well drained
Sites from WN

GROUP: 6 19 36 83 208 2 sites, Ho = 0.47
Dominant: *Eucalyptus wandoo ssp. wandoo, Dryandra purdieana*
Constant: *E. wandoo ssp. wandoo, Hibbertia hypericoides*
slope or pediment, brown sandy gravel, well drained
Sites from NN,WN

GROUP: 6 19 36 84 209 5 sites, Ho = 0.37
Dominant: *Calothamnus sanguineus*
Constant: *C. sanguineus, Borya sphaerocephala*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from NN

GROUP: 6 19 36 84 210 3 sites, Ho = 0.42
Dominant: none consistently
Constant: *Hibbertia hypericoides, Calothamnus sanguineus*
upland plain, lateritic grey sandy gravel, v well drained
Sites from WN,NN

GROUP: 6 19 36 84 211 7 sites, Ho = 0.33
Dominant: *Hakea gilbertii, Dryandra kippistiana var. kippistiana*
Constant: *Calytrix leschenaultii, Calothamnus pachystachyus*
pediment or upland plain, lateritic brown sandy gravel, well drained
Sites from NN,WN

GROUP: 6 19 36 85 212 4 sites, Ho = 0.22
Dominant: *Dryandra polycephala*
Constant: *Hibbertia ? enervia, Xanthorrhoea drummondii*
upland plain or scarp, lateritic yellow-orange loamey gravel, v well drained
Sites from NN

GROUP: 6 19 36 85 213 4 sites, Ho = 0.27
Dominant: *Dryandra echinata, Eucalyptus accedens*
Constant: *Hibbertia hypericoides, Schoenus subflavus*
upland plain, lateritic orange loamey gravel, v well drained
Sites from WN,NN

GROUP: 6 19 36 85 214 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Calothamnus quadrifidus, Xanthorrhoea drummondii*
upland plain, lateritic orange loamey gravel, v well drained
Sites from NN

GROUP: 6 19 36 85 215 1 site
Dominant: *Dryandra purdieana, Hakea gilbertii*
Constant: *Hibbertia hypericoides, Calothamnus sanguineus*
upland plain, lateritic orange-brown loamey gravel, well drained
Sites from NN

GROUP: 6 19 36 85 216 2 sites, Ho = 0.47
Dominant: none consistently
Constant: *Hakea gilbertii, Lambertia multiflora ssp. multiflora*
upland plain, lateritic yellow sandy gravel, v well drained
Sites from NN

GROUP: 6 19 37 86 217 7 sites, Ho = 0.28
Dominant: *Hakea undulata, Calothamnus sanguineus*
Constant: *H. undulata, Hibbertia hypericoides*
hill crest or slope, grey-brown loamey gravel / schist, v well drained, occ damp
Sites from CH

GROUP: 6 19 37 87 218 5 sites, Ho = 0.43
Dominant: *Eucalyptus accedens*
Constant: *Hibbertia ? enervia, H. hypericoides*
upland plain or scarp, lateritic orange loamey gravel, v well drained
Sites from WN,NN

GROUP: 6 19 37 87 219 4 sites, Ho = 0.20
Dominant: none consistently
Constant: *Hibbertia ? enervia, H. hypericoides*
upland plain or scarp, lateritic brown loamey gravel, well drained
Sites from WN

GROUP: 6 19 38 88 220 3 sites, Ho = 0.55
Dominant: *Eucalyptus calophylla, Dryandra carlinoides*
Constant: *E. calophylla, Conostylis androstemma*
pediment, lateritic orange loamey gravel, v well drained
Sites from CH,WN

GROUP: 6 19 38 88 221 4 sites, Ho = 0.18
Dominant: *Hakea undulata, H. incrassata*
Constant: *H. incrassata, H. stenocarpa*
pediment, lateritic orange loamey gravel, well drained
Sites from CH

GROUP: 6 19 38 89 222 1 site
Dominant: *Regelia aff. inops, Hibbertia hypericoides*
Constant: *Eucalyptus wandoo ssp. wandoo, Hakea lissocarpha*
scarp, lateritic grey sandy gravel, v well drained
Sites from WN

GROUP: 6 20 39 90 223 4 sites, Ho = 0.21
Dominant: *Allocasuarina campestris, Melaleuca radula*
Constant: *M. radula, Dryandra fraseri*
pediment or upland plain, lateritic orange-brown loamey gravel, well drained
Sites from NN,WA,B

GROUP: 6 20 39 90 224 2 sites, Ho = 0.26
Dominant: *Dryandra hewardiana, Melaleuca radula*
Constant: *D. hewardiana, M. radula*
slope or upland plain, lateritic sand G, well drained
Sites from L,NN

GROUP: 6 20 39 90 225 4 sites, Ho = 0.24
Dominant: *Dryandra hewardiana, Melaleuca radula*
Constant: *Gastrolobium spinosum, Baeckea crispiflora*
upland plain or pediment, lateritic orange loamey gravel, v well drained
Sites from NN,WA

GROUP: 6 20 39 90 226 2 sites, Ho = 0.35
Dominant: *Dryandra hewardiana*
Constant: *D. hewardiana, Eucalyptus wandoo ssp. wandoo*
upland plain or rise, lateritic orange loamey gravel, v well drained
Sites from NN,WA

GROUP: 6 20 39 91 227 1 site
Dominant: *Melaleuca radula, Hyalosperma cotula*
Constant: *M. radula, H. cotula*
scarp, brown gravelly loam, well drained
Sites from C

GROUP: 6 20 39 91 228 2 sites, Ho = 0.44
Dominant: *Melaleuca radula, Hibbertia hypericoides*
Constant: *M. radula, Hakea lissocarpha*
rise or slope, lateritic brown gravelly loam, well drained
Sites from C,L

GROUP: 6 20 39 91 229 2 sites, Ho = 0.26
Dominant: none consistently
Constant: *Phyllanthus calycinus, Hyalosperma cotula*
pediment, brown loamey gravel, well drained
Sites from WN,NN

GROUP: 6 20 39 91 230 1 site
Dominant: *Acacia huegelii, Darwinia citriodora*
Constant: *A. huegelii, Phyllanthus calycinus*
BE, granite grey gravelly loamy sand, well drained
Sites from WN

GROUP: 6 20 40 92 231 4 sites, Ho = 0.16
Dominant: *Dryandra hewardiana, Eucalyptus eudesmioides ssp. eudesmioides*
Constant: *Hakea gilbertii, Opercularia vaginata*
upland plain or pediment, lateritic orange loamey gravel, v well drained
Sites from NN

GROUP: 6 20 40 92 232 3 sites, Ho = 0.35
Dominant: *Eucalyptus wandoo ssp. wandoo, Dryandra hewardiana*
Constant: *D. hewardiana, Hibbertia ? enervia*
upland plain or rise, lateritic brown-orange loamey gravel, v well drained
Sites from NN

GROUP: 6 20 41 93 233 6 sites, Ho = 0.70
Dominant: *Eucalyptus wandoo ssp. wandoo, Melaleuca radula*
Constant: *Dryandra fraseri, Neurachne alopecuroidea*
slope, brown gravelly loam, well drained, occ damp
Sites from CH

GROUP: 6 20 41 93 234 7 sites, Ho = 0.28
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *Dryandra fraseri, Neurachne alopecuroidea*
slope, schist brown loamey gravel, well drained, occ damp
Sites from CH

GROUP: 6 20 41 93 235 5 sites, Ho = 0.64
Dominant: *Eucalyptus wandoo ssp. wandoo, Hakea erinacea*
Constant: *E. wandoo ssp. wandoo, H. erinacea*
slope, grey-brown loamey gravel, well drained. occ damp
Sites from NN,WN,CH

GROUP: 6 20 41 93 236 3 sites, Ho = 0.64
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Melaleuca radula*
slope, brown gravelly loam, well drained, occ damp
Sites from CH

GROUP: 6 20 41 93 237 4 sites, Ho = 0.33
Dominant: *Hibbertia acerosa*
Constant: *Eucalyptus wandoo ssp. wandoo, Phyllanthus calycinus*
scarp or slope, brown gravelly loam, well drained, occ damp
Sites from CH

GROUP: 6 20 41 93 238 2 sites, Ho = 0.76
Dominant: *Acacia huegelii, Hibbertia ? enervia*
Constant: *A. huegelii, H. ? enervia*
BE, granite brown loamey sand, well drained, occ damp
Sites from CH

GROUP: 6 20 41 93 239 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Borya sphaerocephala, Neurachne alopecuroidea*
valley flat or TO, granite sand L, well drained, occ damp
Sites from CH

GROUP: 6 20 41 94 240 2 sites, Ho = 0.27
Dominant: *Borya sphaerocephala*
Constant: *B. sphaerocephala, Hakea erinacea*
BE, granite gravel S, well drained, occ damp
Sites from CH,WN

GROUP: 6 20 41 94 241 2 sites, Ho = 0.26
Dominant: none consistently
Constant: *Gastrolobium calycinum, Borya sphaerocephala*
valley flat or BE, gravelly loam / clay, mod drained, occ damp
Sites from CH,WN

GROUP: 6 20 41 95 242 6 sites, Ho = 0.56
Dominant: none consistently
Constant: *Borya sphaerocephala, Melaleuca radula*
pediment or slope, grey-brown loamey gravel, well drained
Sites from WN

GROUP: 6 20 41 95 243 4 sites, Ho = 0.29
Dominant: *Calothamnus pachystachyus, Borya sphaerocephala*
Constant: *C. pachystachyus, B. sphaerocephala*
rise or +, schist brown loamey gravel, well drained
Sites from NN

GROUP: 6 20 41 95 244 3 sites, Ho = 0.51
Dominant: *Melaleuca radula*
Constant: *M. radula, Grevillea endlicheriana*
slope or pediment, brown gravelly loam, well drained, occ damp
Sites from WN

GROUP: 6 20 41 95 245 3 sites, Ho = 0.57
Dominant: *Allocasuarina campestris, Melaleuca radula*
Constant: *A. campestris, M. radula*
pediment, grey-brown loamey gravel, well drained
Sites from NN

GROUP: 6 20 41 95 246 9 sites, Ho = 0.29
Dominant: *Allocasuarina campestris, Melaleuca radula*
Constant: *Neurachne alopecuroidea, Borya sphaerocephala*
slope or rise, brown gravelly loam, well drained
Sites from WN,NN,PI

GROUP: 6 20 42 96 247 3 sites, Ho = 0.38
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Dryandra fraseri*
pediment or slope, brown gravelly loam, well drained, occ damp
Sites from NN,PI,WA

GROUP: 6 20 42 96 248 5 sites, Ho = 0.53
Dominant: *Eucalyptus wandoo ssp. wandoo, Hakea lissocarpha*
Constant: *E. wandoo ssp. wandoo, Neurachne alopecuroidea*
pediment or +, lateritic brown loamey gravel, well drained
Sites from NN,PI

GROUP: 6 20 42 96 249 2 sites, Ho = 0.47
Dominant: none consistently
Constant: *Allocasuarina campestris, Dryandra fraseri*
pediment, lateritic brown gravelly loam, well drained
Sites from WN

GROUP: 6 20 42 96 250 2 sites, Ho = 0.45
Dominant: *Allocasuarina campestris*
Constant: *A. campestris, Dryandra fraseri*
slope or slope, brown gravel, well drained
Sites from WA

GROUP: 6 20 42 97 251 2 sites, Ho = 0.33
Dominant: *Eucalyptus loxophleba ssp. loxophleba, E. wandoo ssp. wandoo*
Constant: *E. loxophleba ssp. loxophleba, E. wandoo ssp. wandoo*
pediment or valley flat, brown loam, well drained, occ damp
Sites from NN

GROUP: 6 20 42 97 252 1 site
Dominant: *Eucalyptus wandoo ssp. wandoo, Acacia ericifolia*
Constant: *E. wandoo ssp. wandoo, E. loxophleba ssp. loxophleba*
slope, brown gravelly loam, well drained
Sites from NN,WN

GROUP: 6 20 42 98 253 3 sites, Ho = 0.30
Dominant: *Melaleuca uncinata, M. lateriflora var. acutifolia*
Constant: *M. uncinata, M. acuminata ssp.websteri*
valley flat or pediment, grey clayey loam, well drained, occ damp
Sites from NN

GROUP: 6 21 43 99 254 5 sites, Ho = 1.00
Dominant: *Acacia huegelii, Trymalium floribundum*
Constant: *Allocasuarina huegeliana, Dioscorea hastifolia*
slope or BE, brown gravelly loam / granite, well drained, occ damp
Sites from WN,CH

GROUP: 6 21 43 99 255 3 sites, Ho = 2.43
Dominant: *Acacia huegelii, Allocasuarina campestris*
Constant: *A. campestris, Eucalyptus wandoo ssp. wandoo*
slope or scarp, chert brown gravelly loam / chert, well drained, occ damp
Sites from WA

GROUP: 6 21 43 99 256 3 sites, Ho = 0.57
Dominant: *Acacia huegelii*
Constant: *A. huegelii, Cheilanthes austrotenuifolia*
slope or hill crest, chert grey loamey gravel / chert, well drained
Sites from WA,WN

GROUP: 6 21 44 100 257 7 sites, Ho = 0.27
Dominant: *Allocasuarina campestris, Acacia huegelii*
Constant: *Calytrix leschenaultii, Baeckea sp. Moora*
slope or upland plain, chert grey sandy gravel / chert, v well drained
Sites from WA

GROUP: 6 21 44 100 258 2 sites, Ho = 0.35
Dominant: none consistently
Constant: *Allocasuarina campestris, Borya sphaerocephala*
pediment or rise, gravel LS, v well drained
Sites from WA

GROUP: 6 21 44 100 259 3 sites, Ho = 0.73
Dominant: *Allocasuarina campestris, Acacia huegelii*
Constant: *A. campestris, Cheilanthes austrotenuifolia*
slope or +, chert grey loamey gravel, v well drained
Sites from WA

GROUP: 7 22 45 101 260 1 site
Dominant: *Melaleuca viminea ssp. viminea, Tribonanthes spp.*
Constant: *M. viminea ssp. viminea, T. spp.*
depression, pale grey sand / lateritic ?, poorly drained, winter wet
Sites from HH

GROUP: 7 22 45 102 261 2 sites, Ho = 0.33
Dominant: *Isolepis nodosa*
Constant: *Melaleuca viminea ssp. viminea, I. nodosa*
depression or valley flat, grey loam / clay, v poorly drained, winter inundated
Sites from Le,WN

GROUP: 7 22 45 102 262 1 site
Dominant: *Melaleuca rhaphiophylla, Leptocarpus canus*
Constant: *M. rhaphiophylla, L. canus*
valley flat, grey clay, poorly drained, winter inundated
Sites from WN

GROUP: 7 22 45 103 263 1 site
Dominant: *Melaleuca viminea ssp. viminea, Eleocharis acuta*
Constant: *M. viminea ssp. viminea, E. acuta*
playa, cream clay, mod drained, winter damp
Sites from CH

GROUP: 7 22 45 103 264 2 sites, Ho = 0.38
Dominant: *Melaleuca viminea ssp. viminea, Isolepis nodosa*
Constant: *M. viminea ssp. viminea, I. nodosa*
playa, ? / clay, mod drained, winter damp
Sites from CH

GROUP: 7 22 45 103 265 1 site
Dominant: *Cotula coronopifolia, Villarsia capitata*
Constant: *C. coronopifolia, V. capitata*
playa, brown clayey loam / clay, mod drained, winter damp
Sites from CH

GROUP: 7 22 46 104 266 1 site
Dominant: *Eucalyptus hypochlamydea ssp. hypochlamydea, Melaleuca uncinata*
Constant: *M. uncinata, M. viminea ssp. viminea*
valley flat, brown sand, well drained
Sites from EGA

GROUP: 7 22 46 105 267 2 sites, Ho = 0.22
Dominant: *Eucalyptus rudis*
Constant: *E. rudis, Melaleuca viminea ssp. viminea*
channel, brown sand / clay, well drained, winter damp
Sites from CH,WN

GROUP: 7 22 46 106 268 2 sites, Ho = 0.33
Dominant: *Melaleuca viminea ssp. viminea*
Constant: *M. viminea ssp. viminea, Calothamnus hirsutus*
depression, grey loamey sand / clay, v poorly drained, winter wet
Sites from L,WONG

GROUP: 7 22 46 106 269 1 site
Dominant: *Thryptomene prolifera, Melaleuca viminea ssp. viminea*
Constant: *M. viminea ssp. viminea, Calothamnus hirsutus*
valley flat, brown clayey loam, poorly drained, winter damp
Sites from L

GROUP: 7 22 46 106 270 1 site
Dominant: *Casuarina obesa, Melaleuca viminea ssp. viminea*
Constant: *C. obesa, M. viminea ssp. viminea*
depression, grey loamey sand, v poorly drained, winter inundated
Sites from L

GROUP: 7 23 47 107 271 3 sites, Ho = 0.35
Dominant: *Melaleuca uncinata, Thryptomene prolifera*
Constant: *M. uncinata, T. prolifera*
depression, brown loamey sand / clay, poorly drained, winter wet
Sites from L

GROUP: 7 23 47 107 272 5 sites, Ho = 0.36
Dominant: *Thryptomene prolifera, Borya sphaerocephala*
Constant: *T. prolifera, B. sphaerocephala*
depression or valley flat, grey loamey sand / clay, poorly drained, winter damp
Sites from 1A,MR,1D,ROC,TWA,COM,D,L

GROUP: 7 23 47 108 273 2 sites, Ho = 0.25
Dominant: none consistently
Constant: *Calothamnus hirsutus, Borya sphaerocephala*
rise or valley flat, loam ?/ clay, mod drained, winter damp
Sites from Le,B

GROUP: 7 23 47 109 274 2 sites, Ho = 0.45
Dominant: *Verticordia acerosa var. acerosa, Borya sphaerocephala*
Constant: *V. acerosa var. acerosa, B. sphaerocephala*
valley flat, brown loam / clay, mod drained, winter damp
Sites from CH

GROUP: 7 23 47 110 275 4 sites, Ho = 0.20
Dominant: none consistently
Constant: *Melaleuca uncinata, Borya sphaerocephala*
valley flat or pediment, cream sandy loam / gravelly clay, well drained, occ damp
Sites from 4G,YWR,YNR,ROC

GROUP: 7 23 47 111 276 1 site
Dominant: *Melaleuca uncinata, M. lateriflora var. acutifolia*
Constant: *M. uncinata, M. lateriflora var. acutifolia*
ED, grey loamey sand / loamey sand, mod drained, occ damp
Sites from YWR

GROUP: 7 23 47 111 277 1 site
Dominant: *Melaleuca viminea ssp. viminea, M. lateriflora var. acutifolia*
Constant: *M. viminea ssp. viminea, M. lateriflora var. acutifolia*
depression,, v poorly drained, winter wet
Sites from JURI

GROUP: 7 23 48 112 278 4 sites, Ho = 0.20
Dominant: *Melaleuca uncinata, Podotheca uniseta*
Constant: *M. uncinata, P. uniseta*
depression or valley flat, brown-orange sand, well drained, occ damp
Sites from EGA,APR

GROUP: 7 23 48 113 279 2 sites, Ho = 0.23
Dominant: *Scholtzia umbellifera*
Constant: *S. umbellifera, Harperia lateriflora*
flat or vale (upper drainage line), yellow sand, v well drained, occ damp
Sites from EGA

GROUP: 7 23 48 113 280 3 sites, Ho = 0.63
Dominant: *Melaleuca pentagona, Harperia lateriflora*
Constant: *M. pentagona, H. lateriflora*
valley flat or plain, yellow sand, well drained, occ damp
Sites from MAR,PIN

GROUP: 7 24 49 114 281 1 site
Dominant: *Melaleuca aff. leptospermoides, Actinostrobus pyramidalis*
Constant: *M. aff. leptospermoides, A. pyramidalis*
valley flat, grey sand / sandy clay, mod drained, occ damp
Sites from 3E04

GROUP: 7 24 49 114 282 1 site
Dominant: *Banksia telmatiaea, Dryandra nivea var. mound*
Constant: *B. telmatiaea, D. nivea var. mound*
valley flat, sand, v poorly drained, winter wet
Sites from JURI

GROUP: 7 24 49 115 283 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Actinostrobus pyramidalis, Acacia saligna*
valley flat, grey sand / clay, mod drained, winter damp
Sites from ROC,COM

GROUP: 7 24 49 115 284 1 site
Dominant: *Eucalyptus rudis, Banksia attenuata*
Constant: *E. rudis, Hypocalymma angustifolium*
depression, grey sand / clay, well drained, occ damp
Sites from C

GROUP: 7 24 50 116 285 3 sites, Ho = 0.29
Dominant: *Calothamnus hirsutus, Verticordia densiflora*
Constant: *C. hirsutus, Melaleuca viminea ssp. viminea*
valley flat or depression, grey sand / clay, poorly drained, winter damp
Sites from 4G,WON,COM

GROUP: 7 24 50 116 286 1 site
Dominant: *Hakea varia, Verticordia densiflora*
Constant: *H. varia, V. densiflora*
playa, brown sandy loam / clay, well drained, winter damp
Sites from CH

GROUP: 7 24 50 116 287 2 sites, Ho = 0.31
Dominant: none consistently
Constant: *Verticordia densiflora, Melaleuca pentagona*
depression or valley flat, yellow sand / clay, mod drained, winter damp
Sites from MR

GROUP: 7 24 50 117 288 1 site
Dominant: *Calothamnus quadrifidus, C. hirsutus*
Constant: *C. hirsutus, Verticordia densiflora*
depression, pale grey sand / clay, mod drained, winter wet
Sites from MOOR

GROUP: 7 24 50 117 289 2 sites, Ho = 0.59
Dominant: *Calothamnus hirsutus, Actinostrobus pyramidalis*
Constant: *Beaufortia squarrosa, Drosera heterophylla*
depression or valley flat, grey sand, v poorly drained, winter damp
Sites from NAMM

GROUP: 7 24 50 117 290 1 site
Dominant: *Melaleuca uncinata, Kunzea limnicola*
Constant: *M. uncinata, K. limnicola*
valley flat, brown loamey sand / clay, mod drained, occ damp
Sites from C

GROUP: 7 24 50 117 291 1 site
Dominant: *Eucalyptus rudis, Hypocalymma angustifolium*
Constant: *E. rudis, H. angustifolium*
depression, grey loamey sand / clay, poorly drained, winter wet
Sites from C

GROUP: 7 24 51 118 292 2 sites, Ho = 0.30
Dominant: *Pericalymma ellipticum, Melaleuca seriata*
Constant: *P. ellipticum, M. seriata*
depression or valley flat, pale grey sand / sand, poorly drained, winter wet
Sites from 4L,ELE

GROUP: 7 24 51 118 293 7 sites, Ho = 0.31
Dominant: *Verticordia densiflora*
Constant: *V. densiflora, Dryandra nivea*
valley flat or depression, grey sand / clay, mod drained, winter damp
Sites from MR,ELE,4L,BNR,BAR

GROUP: 7 24 51 118 294 3 sites, Ho = 0.35
Dominant: none consistently
Constant: *Verticordia densiflora, Baumea preissii*
valley flat, grey sand / sandy clay, mod drained, winter wet
Sites from 4L,BNR

GROUP: 7 24 51 118 295 1 site
Dominant: *Eucalyptus calophylla, Conostylis prolifera*
Constant: *E. calophylla, Baumea juncea*
valley flat, grey sand, well drained, occ damp
Sites from CH

GROUP: 7 24 51 119 296 2 sites, Ho = 0.28
Dominant: *Verticordia densiflora, Calothamnus quadrifidus*
Constant: *V. densiflora, C. quadrifidus*
depression,, mod drained, winter damp
Sites from MUL,JURI

GROUP: 7 24 51 119 297 2 sites, Ho = 0.47
Dominant: none consistently
Constant: *Verticordia densiflora, Leptocarpus canus*
depression or valley flat, brown sand, v poorly drained, winter damp
Sites from CARO

GROUP: 7 24 51 119 298 2 sites, Ho = 0.45
Dominant: *Verticordia densiflora*
Constant: *V. densiflora, Hakea varia*
valley flat, sand, v poorly drained, winter damp
Sites from JURI

GROUP: 7 24 51 119 299 1 site
Dominant: *Banksia telmatiaea, Verticordia densiflora*
Constant: *B. telmatiaea, V. densiflora*
depression, sand, v poorly drained, winter damp
Sites from JURI

GROUP: 7 24 51 119 300 2 sites, Ho = 0.23
Dominant: *Banksia telmatiaea*
Constant: *B. telmatiaea, Verticordia densiflora*
valley flat or depression, sand / gravel, poorly drained, winter damp
Sites from COOL

GROUP: 7 24 52 120 301 1 site
Dominant: *Melaleuca aff. sclerophylla, Calothamnus hirsutus*
Constant: *C. hirsutus, Verticordia densiflora*
valley flat, pale orange sand, well drained, occ damp
Sites from MI(w)

GROUP: 7 24 52 120 302 2 sites, Ho = 0.32
Dominant: *Verticordia densiflora*
Constant: *Calothamnus hirsutus, V. densiflora*
depression, ? / clay, poorly drained, winter wet
Sites from WN(w)

GROUP: 7 24 53 121 303 3 sites, Ho = 0.58
Dominant: *Astartea fascicularis*
Constant: *A. fascicularis, Verticordia densiflora*
depression, sand C / ?, v poorly drained, winter wet
Sites from COOL,4L

GROUP: 7 24 53 121 304 2 sites, Ho = 0.50
Dominant: *Regelia ciliata*
Constant: *R. ciliata, Verticordia densiflora*
depression or valley flat, grey sand, well drained, occ damp
Sites from WIN,WON

GROUP: 7 24 53 121 305 3 sites, Ho = 0.49
Dominant: *Banksia telmatiaea, Hakea brachyptera*
Constant: *B. telmatiaea, Regelia ciliata*
valley flat or depression, sand / sandy clay, poorly drained, winter damp
Sites from COOL,WONG

GROUP: 7 24 53 121 306 2 sites, Ho = 0.27
Dominant: *Calothamnus hirsutus*
Constant: *C. hirsutus, Verticordia densiflora*
depression, sand C, poorly drained, winter wet
Sites from COOL

GROUP: 7 25 54 122 307 1 site
Dominant: *Regelia ciliata, Hakea brachyptera*
Constant: *R. ciliata, H. brachyptera*
valley flat, grey sand, well drained, occ damp
Sites from 3J

GROUP: 7 25 54 122 308 2 sites, Ho = 0.28
Dominant: *Regelia ciliata*
Constant: *R. ciliata, Tricostularia neesii ssp. neesii*
depression, sand, v well drained, occ damp
Sites from CH(w),WN(w)

GROUP: 7 25 54 122 309 1 site
Dominant: *Regelia ciliata, Banksia littoralis ssp. littoralis*
Constant: *R. ciliata, B. littoralis ssp. littoralis*
depression, grey sand / clay, well drained, winter damp
Sites from WN(w)

GROUP: 7 25 55 123 310 2 sites, Ho = 0.33
Dominant: *Actinostrobus pyramidalis*
Constant: *A. pyramidalis, Melaleuca rhaphiophylla*
flat or valley flat, grey sand / sandy clay, well drained, winter damp
Sites from 4G,4K

GROUP: 7 25 55 123 311 3 sites, Ho = 0.25
Dominant: *Kunzea recurva*
Constant: *K. recurva, Baumea preissii*
depression or valley flat, grey sand / clay, poorly drained, winter wet
Sites from MR,ELE

GROUP: 7 25 55 124 312 1 site
Dominant: *Calothamnus hirsutus, Melaleuca sp. Eneabba*
Constant: *C. hirsutus, M. sp. Eneabba*
depression, grey sand, mod drained, occ damp
Sites from IND

GROUP: 7 25 55 124 313 2 sites, Ho = 0.41
Dominant: *Melaleuca viminea ssp. viminea*
Constant: *M. viminea ssp. viminea, Dryandra nivea var. mound*
depression, grey sand / clay, poorly drained, winter inundated
Sites from MR

GROUP: 7 25 55 125 314 3 sites, Ho = 0.89
Dominant: *Regelia ciliata, Kunzea recurva*
Constant: *Gahnia trifida, Dryandra nivea var. mound*
depression, clay / clay, poorly drained, winter wet
Sites from COOL,WONG

GROUP: 7 25 55 125 315 3 sites, Ho = 1.38
Dominant: *Melaleuca incana ssp. incana, Baumea preissii*
Constant: *B. preissii, Hakea varia*
depression, grey sandy loam / clay, mod drained, winter damp
Sites from WN(w)

GROUP: 7 25 56 126 316 4 sites, Ho = 0.53
Dominant: *Baumea preissii, Acacia saligna*
Constant: *B. preissii, A. saligna*
valley flat or depression, grey sand, poorly drained, winter wet
Sites from ELE

GROUP: 7 26 57 127 317 14 sites, Ho = 0.26
Dominant: *Pericalymma ellipticum, Melaleuca preissiana*
Constant: *Hypocalymma angustifolium, Xanthorrhoea preissii*
valley flat or +, dark grey sand, poorly drained, winter damp
Sites from ELE,MP,MR

GROUP: 7 26 57 128 318 2 sites, Ho = 0.33
Dominant: none consistently
Constant: *Melaleuca preissiana, Baumea preissii*
depression or lake,, mod drained, winter damp
Sites from YEA,ELE

GROUP: 7 26 57 128 319 2 sites, Ho = 0.29
Dominant: *Pericalymma ellipticum*
Constant: *P. ellipticum, Astartea fascicularis*
valley flat, grey sand, mod drained, winter damp
Sites from BEER,SF

GROUP: 7 26 57 128 320 2 sites, Ho = 0.24
Dominant: none consistently
Constant: *Astartea fascicularis, Baumea juncea*
depression or valley flat, dark grey sand, poorly drained, winter wet
Sites from BEER,ELE

GROUP: 7 26 57 128 321 1 site
Dominant: *Pericalymma ellipticum, Baumea juncea*
Constant: *P. ellipticum, B. juncea*
valley flat, grey sand, mod drained, winter damp
Sites from ELE

GROUP: 8 27 58 129 322 2 sites, Ho = 0.50
Dominant: *Halosarcia halocnemoides ssp. halocnemoides*
Constant: *H. halocnemoides ssp. halocnemoides, H. indica ssp. bidens*
playa, grey sandy loam / calcareous, well drained, winter damp
Sites from 3A

GROUP: 8 27 58 129 323 1 site
Dominant: *Halosarcia halocnemoides ssp. halocnemoides, H. syncarpa*
Constant: *H. halocnemoides ssp. halocnemoides, H. syncarpa*
playa, grey sandy loam, mod drained, winter inundated
Sites from BE

GROUP: 8 27 59 130 324 4 sites, Ho = 0.50
Dominant: *Trichanthodium exilis, Triglochin mucronatum*
Constant: *T. mucronatum, T. exilis*
playa, grey clay, v poorly drained, winter inundated
Sites from WB

GROUP: 8 27 59 130 325 2 sites, Ho = 0.22
Dominant: *Pogonolepis stricta*
Constant: *P. stricta, Puccinellia stricta*
playa, grey clay, poorly drained, winter wet
Sites from WB

GROUP: 8 28 60 131 326 2 sites, Ho = 0.40
Dominant: *Melaleuca brevifolia*
Constant: *M. brevifolia, Casuarina obesa*
valley flat, grey sand / sandy loam, mod drained, winter damp
Sites from 3A,WNP

GROUP: 8 28 60 131 327 2 sites, Ho = 0.38
Dominant: *Asteridea athrixioides*
Constant: *A. athrixioides, Casuarina obesa*
playa, clay, poorly drained, winter wet
Sites from WB

GROUP: 8 28 60 132 328 3 sites, Ho = 0.67
Dominant: *Angianthus tomentosus, Hydrocotyle coorowensis*
Constant: *A. tomentosus, Casuarina obesa*
playa, pale grey clay, poorly drained, winter wet
Sites from WB

GROUP: 8 28 60 132 329 1 site
Dominant: *Angianthus tomentosus, Galium murale*
Constant: *A. tomentosus, Casuarina obesa*
playa, dark grey-brown loam, mod drained, winter damp
Sites from WB

GROUP: 8 28 61 133 330 2 sites, Ho = 0.38
Dominant: *Casuarina obesa*
Constant: *C. obesa, Sowerbaea laxiflora*
depression, organic dark brown sand / sandy clay, v poorly drained, winter wet
Sites from C

GROUP: 8 28 61 133 331 1 site
Dominant: *Casuarina obesa, Melaleuca teretifolia*
Constant: *C. obesa, M. teretifolia*
depression, dark grey sand / sandy loam, v poorly drained, winter inundated
Sites from L

GROUP: 8 29 62 134 332 4 sites, Ho = 0.21
Dominant: *Puccinellia stricta, Crassula colorata var. colorata*
Constant: *P. stricta, Atriplex vesicaria var. appendiculata*
playa, brown loamey sand, mod drained, winter damp
Sites from WB

GROUP: 8 29 62 134 333 3 sites, Ho = 0.64
Dominant: *Pogonolepis stricta, Melaleuca lateriflora var. acutifolia*
Constant: *M. lateriflora var. acutifolia, Rhagodia drummondii*
playa, dark grey-brown loamey sand, mod drained, winter damp
Sites from WB

GROUP: 9 30 63 135 334 6 sites, Ho = 0.54
Dominant: *Eucalyptus marginata, E. calophylla*
Constant: *E. calophylla, Hibbertia hypericoides*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from CH,5C,5B

GROUP: 9 30 63 135 335 3 sites, Ho = 0.61
Dominant: *Eucalyptus marginata ssp. thalassica*
Constant: *E. marginata ssp. thalassica, Hibbertia hypericoides*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from CH(w)

GROUP: 9 30 63 135 336 14 sites, Ho = 0.36
Dominant: *Eucalyptus marginata ssp. thalassica, Dryandra sessilis ssp. sessilis*
Constant: *E. marginata ssp. thalassica, Hibbertia hypericoides*
upland plain or scarp, lateritic grey sandy gravel, v well drained
Sites from CH(w)

GROUP: 9 30 63 135 337 5 sites, Ho = 0.69
Dominant: *Eucalyptus marginata ssp. marginata, Hibbertia hypericoides*
Constant: *E. marginata ssp. marginata, H. hypericoides*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from BNR

GROUP: 9 30 64 136 338 3 sites, Ho = 0.58
Dominant: *Eucalyptus calophylla, E. marginata ssp. marginata*
Constant: *E. calophylla, Hibbertia hypericoides*
upland plain or +, lateritic grey sandy gravel, v well drained
Sites from BND,BW

GROUP: 9 30 64 136 339 2 sites, Ho = 0.37
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Hibbertia hypericoides*
upland plain or hollow in upland, lateritic grey loamey sandy gravel, v well drained
Sites from BUL

GROUP: 9 30 64 137 340 12 sites, Ho = 0.24
Dominant: *Eucalyptus calophylla, Dryandra squarrosa*
Constant: *Dryandra nivea, E. calophylla*
upland plain or +, lateritic orange-brown loamey gravel, v well drained
Sites from CH,WN

GROUP: 9 30 64 137 341 6 sites, Ho = 0.35
Dominant: *Eucalyptus calophylla, Beaufortia eriocephala*
Constant: *Dryandra polycephala, Hibbertia hypericoides*
upland plain, lateritic orange-brown loamey gravel, v well drained
Sites from WN,CH

GROUP: 9 30 64 137 342 3 sites, Ho = 0.67
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Hibbertia hypericoides*
upland plain or pediment, grey sand / yellow sand, v well drained
Sites from WN,CH

GROUP: 9 30 64 138 343 3 sites, Ho = 0.75
Dominant: *Eucalyptus accedens*
Constant: *E. accedens, Hibbertia hypericoides*
pediment or +, lateritic grey loamey gravel, well drained
Sites from CH

GROUP: 9 30 64 138 344 3 sites, Ho = 0.55
Dominant: *Eucalyptus accedens*
Constant: *E. accedens, Nemcia spathulata*
scarp or +, lateritic brown loamey gravel, well drained
Sites from CH

GROUP: 9 30 64 138 345 10 sites, Ho = 0.45
Dominant: *Eucalyptus wandoo ssp. wandoo, Hibbertia hypericoides*
Constant: *Hakea lissocarpha, H. hypericoides*
upland plain or scarp, lateritic grey loamey gravel, well drained
Sites from WN,CH

GROUP: 9 30 64 138 346 8 sites, Ho = 0.29
Dominant: *Eucalyptus wandoo ssp. wandoo*
Constant: *E. wandoo ssp. wandoo, Hibbertia hypericoides*
pediment or rise, lateritic brown gravelly loam, well drained
Sites from WN,CH

GROUP: 9 30 64 139 347 7 sites, Ho = 0.35
Dominant: *Eucalyptus calophylla*
Constant: *E. calophylla, Hakea lissocarpha*
upland plain or slope, lateritic grey gravelly loam, v well drained
Sites from CH

GROUP: 9 30 64 139 348 7 sites, Ho = 0.33
Dominant: *Eucalyptus marginata ssp. thalassica*
Constant: *Hibbertia hypericoides, Xanthorrhoea preissii*
upland plain or slope, lateritic grey sandy gravel, v well drained
Sites from CH

GROUP: 9 30 64 139 349 16 sites, Ho = 0.47
Dominant: *Eucalyptus marginata ssp. thalassica, E. calophylla*
Constant: *Dryandra nivea, E. marginata ssp. thalassica*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from CH,WN

GROUP: 9 30 64 140 350 3 sites, Ho = 0.71
Dominant: *Eucalyptus marginata ssp. thalassica, Dryandra sessilis ssp. sessilis*
Constant: *E. marginata ssp. thalassica, Adenanthos cygnorum ssp. cygnorum*
upland plain, lateritic loam G, v well drained
Sites from CH

GROUP: 9 30 64 140 351 2 sites, Ho = 0.28
Dominant: *Eucalyptus marginata ssp. thalassica, E. calophylla*
Constant: *E. marginata ssp. thalassica, E. calophylla*
upland plain or pediment, lateritic loam G, v well drained
Sites from CH

GROUP: 9 30 64 140 352 3 sites, Ho = 0.44
Dominant: *Dryandra sessilis ssp. sessilis, Hibbertia hypericoides*
Constant: *D. sessilis ssp. sessilis, Eucalyptus marginata ssp. thalassica*
upland plain or +, grey sand / lateritic gravel, v well drained
Sites from CH

GROUP: 9 30 64 141 353 6 sites, Ho = 0.50
Dominant: *Eucalyptus wandoo ssp. wandoo, E. calophylla*
Constant: *E. wandoo ssp. wandoo, Hakea lissocarpha*
upland plain or slope, lateritic loam G, v well drained
Sites from CH

GROUP: 9 30 64 141 354 9 sites, Ho = 0.29
Dominant: *Eucalyptus accedens, Dryandra sessilis ssp. sessilis*
Constant: *Hakea lissocarpha, Hibbertia lasiopus*
upland plain or scarp, lateritic grey loamey gravel, v well drained
Sites from CH

GROUP: 9 30 64 141 355 4 sites, Ho = 0.44
Dominant: *Eucalyptus marginata ssp. thalassica, E. accedens*
Constant: *E. marginata ssp. thalassica, Hibbertia hypericoides*
upland plain or scarp, lateritic brown loamey gravel, v well drained
Sites from WN

GROUP: 10 31 65 142 356 13 sites, Ho = 0.40
Dominant: *Eucalyptus erythrocorys, Dryandra sessilis cygnorum*
Constant: *D. sessilis cygnorum, Melaleuca acerosa*
rise or hollow in upland, brown sand / Tamala limestone, v well drained
Sites from BE,3C

GROUP: 10 31 65 143 357 5 sites, Ho = 0.39
Dominant: *Dryandra sessilis cygnorum, Banksia leptophylla ssp. melletica*
Constant: *B. leptophylla ssp. melletica, Acacia spathulifolia*
rise or slope, yellow sand / Tamala limestone, v well drained
Sites from 3C

GROUP: 10 31 65 143 358 6 sites, Ho = 0.57
Dominant: *Jacksonia aff. spinosa*
Constant: *Calothamnus quadrifidus, Mesomelaena pseudostygia*
rise or +, yellow sand / Tamala limestone, v well drained
Sites from 4L,BEE,LES,NH

GROUP: 10 31 65 143 359 1 site
Dominant: *Banksia telmatiaea, Calothamnus quadrifidus*
Constant: *C. quadrifidus, Acacia spathulifolia*
valley flat, grey sand / sandy clay, v well drained, occ damp
Sites from NAM

GROUP: 10 31 65 143 360 31 sites, Ho = 0.67
Dominant: *Banksia leptophylla ssp. melletica, Acacia spathulifolia*
Constant: *Melaleuca acerosa, B. leptophylla ssp. melletica*
rise or hollow in upland, brown sand / yellow sand / Tamala limestone, v well drained
Sites from BE

GROUP: 10 31 66 144 361 5 sites, Ho = 1.14
Dominant: *Jacksonia stricta*
Constant: *J. stricta, Acacia spathulifolia*
hollow in upland, brown sand / yellow sand, v well drained
Sites from BE

GROUP: 10 31 66 144 362 6 sites, Ho = 1.00
Dominant: *Banksia prionotes, Jacksonia stricta*
Constant: *J. stricta, Melaleuca acerosa*
hollow in upland, brown sand / yellow sand, v well drained
Sites from BE

GROUP: 10 31 66 144 363 1 site
Dominant: *Banksia leptophylla ssp. melletica, Allocasuarina humilis*
Constant: *B. leptophylla ssp. melletica, Melaleuca acerosa*
hollow in upland, brown sand / yellow sand, v well drained
Sites from BE

GROUP: 11 32 67 145 364 24 sites, Ho = 0.40
Dominant: *Banksia attenuata*
Constant: *Melaleuca acerosa, Conospermum aff. triplinervium*
dune or pediment, pale grey sand / yellow sand, v well drained
Sites from HH,1A,3E,3C,IND,SER,WIL

GROUP: 11 32 68 146 365 4 sites, Ho = 0.41
Dominant: *Adenanthos cygnorum ssp. cygnorum*
Constant: *Lambertia multiflora ssp. Northern, Eucalyptus todtiana*
pediment or plain, grey sand, v well drained
Sites from 1A,TH

GROUP: 11 32 68 146 366 11 sites, Ho = 0.46
Dominant: *Banksia leptophylla ssp. leptophylla, Adenanthos cygnorum ssp. cygnorum*
Constant: *Adenanthos cygnorum ssp. cygnorum, Dryandra platycarpa*
plain or pediment, grey sand / ?lateritic gravel, v well drained
Sites from 4K,4I,WNP

GROUP: 11 32 68 146 367 5 sites, Ho = 0.48
Dominant: *Eucalyptus todtiana, Adenanthos cygnorum ssp. cygnorum*
Constant: *E. todtiana, Banksia attenuata*
upland plain or pediment, grey sand / pale yellow sand, v well drained
Sites from B

GROUP: 11 32 68 147 368 11 sites, Ho = 0.42
Dominant: *Banksia attenuata*
Constant: *Eremaea beaufortioides, E. ectadioclada*
plain or dune, grey sand / yellow sand, v well drained
Sites from ROC,3C,YAD,4E,4G,IND,SER

GROUP: 11 32 68 147 369 3 sites, Ho = 0.35
Dominant: *Banksia attenuata, B. leptophylla ssp. leptophylla*
Constant: *Stirlingia latifolia, Conospermum aff. triplinervium*
vale (upper drainage line) or valley flat, grey sand / pale yellow sand, v well drained
Sites from 3D,4I,MTR

GROUP: 11 32 69 148 370 26 sites, Ho = 0.40
Dominant: *Banksia grossa, Adenanthos cygnorum ssp. cygnorum*
Constant: *Banksia attenuata, Hibbertia hypericoides*
pediment or hollow in upland, grey sand / yellow sand, v well drained
Sites from BNP,EJU,4D,4C,B,Le,+

GROUP: 11 32 69 148 371 23 sites, Ho = 0.41
Dominant: *Banksia attenuata, Adenanthos cygnorum ssp. cygnorum*
Constant: *Mesomelaena pseudostygia, B. attenuata*
pediment or plain, grey sand / yellow sand, v well drained
Sites from MOOR,WONG,BIB,Le,Y,+

GROUP: 11 32 69 149 372 19 sites, Ho = 0.23
Dominant: *Allocasuarina humilis*
Constant: *Hibbertia hypericoides, Dryandra shuttleworthiana*
pediment or +, grey sand / lateritic gravel, v well drained
Sites from COOL,B,MUL,JUIR,COM,+

GROUP: 11 32 69 149 373 30 sites, Ho = 0.35
Dominant: *Allocasuarina humilis*
Constant: *A. humilis, Hypocalymma xanthopetalum*
pediment, grey sand, v well drained
Sites from Le

GROUP: 11 33 70 150 374 22 sites, Ho = 0.37
Dominant: *sandy spp*
Constant: *Mesomelaena pseudostygia, Allocasuarina humilis*
pediment or plain, grey sand / yellow sand, v well drained
Sites from Y,D,B,MWR,NN(w),+

GROUP: 11 33 70 150 375 2 sites, Ho = 0.65
Dominant: none consistently
Constant: *Hibbertia hypericoides, Eucalyptus todtiana*
pediment, loam S, v well drained
Sites from BW

GROUP: 11 33 70 150 376 4 sites, Ho = 0.22
Dominant: *Calothamnus sanguineus, Hibbertia hypericoides*
Constant: *C. sanguineus, H. hypericoides*
pediment or scarp, ?S, v well drained
Sites from BNR,Y

GROUP: 11 33 70 150 377 9 sites, Ho = 0.32
Dominant: *Banksia attenuata*
Constant: *Leptospermum erubescens, Conospermum aff. triplinervium*
flat or +, grey sand / yellow sand, v well drained
Sites from B,ARO,COM

GROUP: 11 33 70 150 378 3 sites, Ho = 0.57
Dominant: *Eucalyptus todtiana, Eremaea pauciflora ssp. pauciflora*
Constant: *E. pauciflora ssp. pauciflora, Banksia attenuata*
pediment or +, pale yellow sand / yellow sand, v well drained
Sites from B

GROUP: 11 33 70 151 379 16 sites, Ho = 0.41
Dominant: *Banksia prionotes, B. attenuata*
Constant: *Leptospermum erubescens, Mesomelaena pseudostygia*
plain or +, pale yellow sand / yellow sand, v well drained
Sites from L,C,B,WNP

GROUP: 11 33 70 151 380 8 sites, Ho = 0.31
Dominant: *Banksia prionotes, Ecdeiocolea monostachya*
Constant: *Mesomelaena pseudostygia, B. prionotes*
plain or pediment, pale yellow sand / yellow sand, v well drained
Sites from L,C

GROUP: 11 33 70 152 381 10 sites, Ho = 0.41
Dominant: *Banksia leptophylla ssp. leptophylla, Adenanthos cygnorum ssp. cygnorum*
Constant: *Hibbertia ? pachyrrhiza, Lambertia multiflora ssp. Northern*
plain or pediment, grey sand / pale yellow sand, v well drained
Sites from C

GROUP: 11 33 70 152 382 12 sites, Ho = 0.36
Dominant: *Banksia leptophylla ssp. leptophylla, Eremaea pauciflora ssp. pauciflora*
Constant: *B. leptophylla ssp. leptophylla, Leptospermum erubescens*
pediment or plain, pale yellow sand / yellow sand, v well drained
Sites from C,L

GROUP: 11 33 70 152 383 6 sites, Ho = 0.49
Dominant: *Adenanthos cygnorum ssp. cygnorum, Eremaea pauciflora ssp. pauciflora*
Constant: *Adenanthos cygnorum ssp. cygnorum, Allocasuarina humilis*
plain or +, grey sand / pale yellow sand, v well drained
Sites from C

GROUP: 11 33 71 153 384 3 sites, Ho = 0.58
Dominant: *Banksia prionotes*
Constant: *B. prionotes, Conospermum stoechadis*
dune or plain, pale yellow sand / yellow sand, v well drained
Sites from WNP,EGA

GROUP: 11 33 71 153 385 6 sites, Ho = 0.41
Dominant: *sandy spp*
Constant: *Leptospermum erubescens, Melaleuca seriata*
plain or +, grey sand / yellow sand, v well drained
Sites from WNP,B,WN(w),MTR

GROUP: 11 33 71 153 386 4 sites, Ho = 0.26
Dominant: *Banksia leptophylla ssp. leptophylla, Eremaea pauciflora ssp. pauciflora*
Constant: *E. pauciflora ssp. pauciflora, Verticordia densiflora*
plain or +, grey sand / yellow sand, v well drained
Sites from B,WN(w)

GROUP: 11 33 71 153 387 5 sites, Ho = 0.59
Dominant: *Eremaea pauciflora ssp. pauciflora*
Constant: *E. pauciflora ssp. pauciflora, Banksia attenuata*
plain, grey sand / yellow sand, v well drained
Sites from P(watheroo)

GROUP: 11 33 71 154 388 10 sites, Ho = 0.33
Dominant: *Banksia prionotes, B. burdettii*
Constant: *Banksia attenuata, Leptospermum erubescens*
plain or +, pale yellow sand / yellow sand, v well drained
Sites from NN(w),C,L,+

GROUP: 11 33 71 154 389 12 sites, Ho = 0.38
Dominant: *Banksia attenuata, Melaleuca seriata*
Constant: *B. attenuata, M. seriata*
plain or +, grey sand / pale yellow sand, v well drained
Sites from C,L

GROUP: 11 33 71 154 390 2 sites, Ho = 0.39
Dominant: *Banksia attenuata*
Constant: *B. attenuata, Melaleuca scabra*
valley flat or dune, grey sand, v well drained
Sites from C

GROUP: 11 33 71 154 391 3 sites, Ho = 0.41
Dominant: *Banksia attenuata, Melaleuca seriata*
Constant: *B. attenuata, Stirlingia latifolia*
pediment or depression, grey sand, v well drained
Sites from L,WN(w)

GROUP: 11 34 72 155 392 6 sites, Ho = 0.66
Dominant: *sandy spp*
Constant: *Allocasuarina humilis, Melaleuca scabra*
valley flat or flat, grey sand / ?, v well drained, occ damp
Sites from 4L,CARO

GROUP: 11 34 72 155 393 2 sites, Ho = 0.28
Dominant: *Banksia telmatiaea*
Constant: *Eremaea beaufortioides, Verticordia densiflora*
valley flat, sand / ?, well drained, winter damp
Sites from WON,JURI

GROUP: 11 34 72 156 394 8 sites, Ho = 0.54
Dominant: *sandy spp*
Constant: *Dryandra nivea, Verticordia densiflora*
pediment or valley flat, grey sand / ?, well drained, occ damp
Sites from Le

GROUP: 11 34 73 157 395 25 sites, Ho = 0.28
Dominant: *Banksia attenuata, B. menziesii*
Constant: *B. attenuata, Eremaea pauciflora ssp. pauciflora*
pediment or flat, pale yellow sand / yellow sand, v well drained
Sites from 4L,BNR,MSF,+

GROUP: 11 34 73 157 396 8 sites, Ho = 0.54
Dominant: *Adenanthos cygnorum ssp. cygnorum, Calothamnus sanguineus*
Constant: *Adenanthos cygnorum ssp. cygnorum, Synaphea spinulosa ssp. spinulosa*
pediment or upland plain, grey sand / lateritic gravel, v well drained
Sites from BNR,MWR,MHR,RGR

GROUP: 11 34 73 158 397 8 sites, Ho = 0.32
Dominant: *Eucalyptus marginata ssp. marginata, E. calophylla*
Constant: *Bossiaea eriocarpa, Stirlingia latifolia*
pediment or upland plain, grey sand / yellow sand, v well drained
Sites from BUP,5C,+

GROUP: 11 34 73 158 398 5 sites, Ho = 0.59
Dominant: *Eucalyptus marginata ssp. thalassica, Xanthorrhoea preissii*
Constant: *Hibbertia hypericoides, Bossiaea eriocarpa*
pediment or +, grey sand / lateritic gravel, v well drained
Sites from CH(w)

GROUP: 11 34 73 158 399 6 sites, Ho = 0.41
Dominant: *Eucalyptus marginata ssp. thalassica, Hibbertia hypericoides*
Constant: *Tetraria octandra, H. hypericoides*
pediment or +, grey sand / yellow sand, v well drained
Sites from CH(w)

GROUP: 11 34 73 158 400 1 site
Dominant: *Allocasuarina humilis, Xanthorrhoea preissii*
Constant: *A. humilis, X. preissii*
plain, grey sand / lateritic gravel, v well drained
Sites from CH(w)

GROUP: 11 34 73 159 401 4 sites, Ho = 0.20
Dominant: *Banksia attenuata*
Constant: *Bossiaea eriocarpa, Alexgeorgea nitens*
depression or +, grey sand, v well drained
Sites from YAN,BNR,COOL

GROUP: 11 34 73 159 402 5 sites, Ho = 0.26
Dominant: *Banksia attenuata*
Constant: *B. attenuata, Hibbertia hypericoides*
plain or dune, pale yellow sand / yellow sand, v well drained
Sites from MR,BEER,BW,WN(w)

GROUP: 11 34 73 159 403 3 sites, Ho = 0.49
Dominant: *Banksia prionotes*
Constant: *Banksia attenuata, Alexgeorgea nitens*
plain or pediment, pale yellow sand / yellow loamey sand, v well drained
Sites from YAT,YUR,D

GROUP: 11 34 73 159 404 2 sites, Ho = 0.31
Dominant: *Banksia attenuata*
Constant: *B. attenuata, Allocasuarina humilis*
valley flat or hollow in upland, grey sand, v well drained
Sites from YEA,CH

GROUP: 11 34 73 159 405 8 sites, Ho = 0.39
Dominant: *sandy spp*
Constant: *Hibbertia hypericoides, Mesomelaena pseudostygia*
pediment or +, grey sand / yellow sand, v well drained
Sites from C,D,Y

GROUP: 11 34 73 159 406 5 sites, Ho = 0.24
Dominant: *Hibbertia hypericoides, Eucalyptus calophylla*
Constant: *H. hypericoides, Allocasuarina humilis*
pediment or +, grey sand / yellow sand, v well drained
Sites from Y,L,D

GROUP: 11 34 74 160 407 5 sites, Ho = 0.36
Dominant: *Eucalyptus calophylla*
Constant: *Dryandra echinata, Calothamnus sanguineus*
upland plain, lateritic grey sandy gravel, v well drained
Sites from WN(w),FYR

GROUP: 11 34 74 160 408 1 site
Dominant: *Eucalyptus calophylla, Allocasuarina humilis*
Constant: *A. humilis, Mesomelaena tetragona*
upland plain, grey sandy gravel / lateritic gravel, v well drained
Sites from WN(w)

GROUP: 11 34 74 160 409 2 sites, Ho = 0.49
Dominant: *Allocasuarina humilis*
Constant: *A. humilis, Calothamnus sanguineus*
upland plain or pediment, grey sand / lateritic gravel, v well drained
Sites from CH(w)

GROUP: 11 34 74 161 410 7 sites, Ho = 0. 38
Dominant: *sandy spp*
Constant: *Hibbertia hypericoides, Xanthorrhoea drummondii*
upland plain, sand / lateritic gravel, v well drained
Sites from BC

GROUP: 12 35 75 162 411 1 site
Dominant: *Banksia attenuata, Melaleuca acerosa*
Constant: *B. attenuata, M. acerosa*
plain, grey sand / white sand, v well drained
Sites from 4L

GROUP: 12 35 75 162 412 2 sites, Ho = 0.32
Dominant: *Melaleuca scabra*
Constant: *Banksia attenuata, M. scabra*
plain or dune, grey sand / yellow sand, v well drained
Sites from 4L,CAN

GROUP: 12 35 75 162 413 14 sites, Ho = 0.32
Dominant: *Banksia attenuata, B. menziesii*
Constant: *B. attenuata, Hypocalymma xanthopetalum*
flat or pediment, grey sand / yellow sand, v well drained
Sites from WONG,JURI,MIME,CARO

GROUP: 12 35 75 162 414 17 sites, Ho = 0.46
Dominant: *Banksia attenuata, B. menziesii*
Constant: *B. attenuata, Blancoa canescens*
pediment or flat, grey sand, v well drained
Sites from BNP,JURI,CAD,Le,WONG,+

GROUP: 12 35 75 163 415 38 sites, Ho = 0.34
Dominant: *Banksia attenuata, Eremaea pauciflora ssp. pauciflora*
Constant: *B. attenuata, E. pauciflora ssp. pauciflora*
flat or dune, grey sand / yellow sand, v well drained
Sites from NAMM,NNR,BNR,MOOR,YEA,BNR,YATW,

GROUP: 12 35 75 163 416 26 sites, Ho = 0.33
Dominant: *Banksia attenuata, B. menziesii*
Constant: *B. attenuata, Hibbertia subvaginata*
plain or dune, grey sand, v well drained
Sites from ELE,MP,SF,YEA,+

GROUP: 12 35 75 163 417 10 sites, Ho = 0.37
Dominant: *Banksia attenuata, Adenanthos cygnorum ssp. cygnorum*
Constant: *B. attenuata, Stirlingia latifolia*
flat or +, grey sand / yellow sand, v well drained
Sites from CH(w),Y,OYR

GROUP: 12 35 75 163 418 10 sites, Ho = 0.30
Dominant: *Banksia attenuata, Eremaea pauciflora ssp. pauciflora*
Constant: *E. pauciflora ssp. pauciflora, Scholtzia laxiflora*
vale (upper drainage line) or +, grey sand / yellow sand, v well drained
Sites from WN(w),CH(w)

GROUP: 12 35 76 164 419 4 sites, Ho = 0.31
Dominant: *Banksia attenuata, Melaleuca seriata*
Constant: *Adenanthos cygnorum ssp. cygnorum, Banksia ilicifolia*
valley flat or plain, grey sand, well drained, occ damp
Sites from BNR,5F

GROUP: 12 35 76 164 420 3 sites, Ho = 0.68
Dominant: *Banksia attenuata, B. ilicifolia*
Constant: *B. attenuata, B. ilicifolia*
valley flat or plain, grey sand, v well drained
Sites from ELE,MR

GROUP: 12 35 76 164 421 1 site
Dominant: *Banksia attenuata, Xanthorrhoea preissii*
Constant: *B. attenuata, Banksia ilicifolia*
flat, grey sand / white sand, v well drained
Sites from YEA

GROUP: 12 35 76 164 422 2 sites, Ho = 0.82
Dominant: *wet species*
Constant: *Melaleuca preissiana, Hypocalymma angustifolium*
depression, grey, v poorly drained, winter damp
Sites from NAMM

GROUP: 12 35 76 165 423 1 site
Dominant: *Kunzea micrantha, Melaleuca seriata*
Constant: *M. seriata, M. preissiana*
depression, grey loam / clay, mod drained, winter damp
Sites from BAD

GROUP: 12 35 76 165 424 4 sites, Ho = 0.25
Dominant: *Regelia ciliata, Hypocalymma angustifolium*
Constant: *Hypolaena exsulca, Xanthorrhoea preissii*
valley flat or flat, grey sand / white sand, well drained, occ damp
Sites from ELE

GROUP: 12 35 76 165 425 1 site
Dominant: *Regelia ciliata, Banksia leptophylla ssp. leptophylla*
Constant: *R. ciliata, B. leptophylla ssp. leptophylla*
depression, grey, mod drained, winter damp
Sites from RGR

GROUP: 12 35 76 165 426 8 sites, Ho = 0.49
Dominant: *Banksia attenuata, Xanthorrhoea preissii*
Constant: *B. attenuata, Hibbertia hypericoides*
flat or dune, grey sand, v well drained, occ damp
Sites from ELE

GROUP: 13 36 77 166 427 15 sites, Ho = 0.28
Dominant: *Dryandra glauca*
Constant: *Lambertia multiflora ssp. Northern, Hibbertia hypericoides*
upland plain or pediment, lateritic grey gravelly sand, v well drained
Sites from SEE,SER,3E,3D,+

GROUP: 13 36 77 166 428 30 sites, Ho = 0.39
Dominant: *laterite spp*
Constant: *Lambertia multiflora ssp. Northern, Hibbertia hypericoides*
upland plain or pediment, lateritic grey gravelly sand, v well drained
Sites from D,Le,B,BNP,BIB,WIL,Y

GROUP: 13 36 77 167 429 22 sites, Ho = 0.35
Dominant: *laterite spp*
Constant: *Calothamnus sanguineus, Petrophile shuttleworthiana*
upland plain, lateritic grey sandy gravel, v well drained
Sites from LAT,4I,4K,1A

GROUP: 13 36 77 167 430 8 sites, Ho = 0.63
Dominant: *Dryandra armata*
Constant: *Hakea incrassata, Calothamnus sanguineus*
upland plain, lateritic grey sandy gravel, well drained
Sites from B,MTR,WNP

GROUP: 13 36 77 168 431 2 sites, Ho = 0.35
Dominant: none consistently
Constant: *Hakea undulata, Petrophile chrysantha*
scarp or hill crest, sand G, v well drained
Sites from 4K,Le

GROUP: 13 36 77 168 432 2 sites, Ho = 0.23
Dominant: none consistently
Constant: *Petrophile chrysantha, Calothamnus sanguineus*
slope or pediment, gravel L, well drained, occ damp
Sites from Le,D

GROUP: 13 36 77 168 433 4 sites, Ho = 0.38
Dominant: *Calothamnus quadrifidus, C. sanguineus*
Constant: *C. quadrifidus, C. sanguineus*
scarp, lateritic grey sandy gravel, well drained
Sites from Le

GROUP: 13 36 77 168 434 3 sites, Ho = 0.72
Dominant: *Petrophile shuttleworthiana, Calothamnus torulosus*
Constant: *Dryandra carlinoides, C. torulosus*
upland plain, lateritic grey sandy gravel, v well drained
Sites from BNP,B,WON

GROUP: 13 36 77 168 435 5 sites, Ho = 0.31
Dominant: *laterite spp*
Constant: *Calothamnus sanguineus, Hakea stenocarpa*
upland plain, lateritic sand G, v well drained
Sites from Le,LAT

GROUP: 13 36 77 168 436 6 sites, Ho = 1.05
Dominant: *Dryandra carlinoides, Xanthorrhoea aff. preissii*
Constant: *Calothamnus torulosus, Dryandra kippistiana var. kippistiana*
upland plain or pediment, lateritic grey sandy gravel, v well drained
Sites from AH

GROUP: 13 37 78 169 437 59 sites, Ho = 0.56
Dominant: *laterite spp*
Constant: *Hypocalymma xanthopetalum, Calothamnus sanguineus*
upland plain or scarp, lateritic grey sandy gravel, v well drained
Sites from Le,3F

GROUP: 13 37 78 169 438 11 sites, Ho = 0.54
Dominant: *Calothamnus sanguineus*
Constant: *C. sanguineus, C. torulosus*
scarp or upland plain, lateritic grey sandy gravel, well drained
Sites from Le,JURI,BNP

GROUP: 13 37 78 169 439 8 sites, Ho = 0.46
Dominant: *Hakea neurophylla*
Constant: *Lambertia multiflora ssp. Northern, Hakea longiflora*
slope or hill crest, sandstone grey sandy gravel, v well drained
Sites from Le,COM

GROUP: 14 38 79 170 440 40 sites, Ho = 0.34
Dominant: *Petrophile chrysantha, Hakea undulata*
Constant: *P. chrysantha, Dryandra armata*
slope or scarp, brown gravelly sandy loam, well drained, occ damp
Sites from Le,COM

GROUP: 14 38 79 170 441 6 sites, Ho = 0.74
Dominant: *Petrophile chrysantha*
Constant: *Dryandra armata, Hakea undulata*
scarp or BE, grey-brown sandy loamey gravel, mod drained, occ damp
Sites from Le

GROUP: 14 39 80 171 442 17 sites, Ho = 0.35
Dominant: *Calothamnus quadrifidus, Melaleuca platycalyx*
Constant: *C. quadrifidus, Borya sphaerocephala*
slope or pediment, grey-brown loamey sand, mod drained, winter damp
Sites from Le

GROUP: 14 39 80 171 443 8 sites, Ho = 0.34
Dominant: *Calothamnus quadrifidus, Melaleuca viminea ssp. viminea*
Constant: *C. quadrifidus, Pimelea imbricata var. piligera*
valley flat or slope, grey-brown clayey loam, poorly drained, winter damp
Sites from Le

GROUP: 15 40 81 172 444 1 site
Dominant: *Hibbertia racemosa, Acacia xanthina*
Constant: *H. racemosa, A. xanthina*
hollow in upland, dark grey loamey sand / Tamala limestone, v well drained
Sites from 3B

GROUP: 15 40 81 172 445 11 sites, Ho = 0.64
Dominant: *Melaleuca acerosa, Gahnia lanigera*
Constant: *G. lanigera, Pimelea ferruginea*
plain, calcareous grey sand, v well drained
Sites from CL,BE

GROUP: 15 40 81 172 446 2 sites, Ho = 0.53
Dominant: *Thryptomene baeckeacea*
Constant: *T. baeckeacea, Acacia xanthina*
plain, calcareous grey sand, v well drained
Sites from LE,CL

GROUP: 15 40 82 173 447 13 sites, Ho = 0.35
Dominant: *Melaleuca acerosa*
Constant: *Acacia lasiocarpa var. lasiocarpa, M. acerosa*
dune or plain, calcareous grey sand, v well drained
Sites from SW,MI,CE,+

GROUP: 15 40 82 174 448 59 sites, Ho = 0.39
Dominant: *Melaleuca acerosa, Lomandra maritima*
Constant: *M. acerosa, Stipa flavescens*
dune or plain, calcareous grey sand, v well drained
Sites from CE,NA,NH,NI,WG,VC

GROUP: 15 40 82 175 449 37 sites, Ho = 0.67
Dominant: *Melaleuca acerosa, Loxocarya aspera*
Constant: *M. acerosa, Acacia lasiocarpa var. lasiocarpa*
dune or plain, calcareous grey sand / limestone, v well drained
Sites from WP,LE,CL,NH

GROUP: 15 40 82 175 450 5 sites, Ho = 1.29
Dominant: *Melaleuca acerosa*
Constant: *Rhagodia baccata ssp. baccata, Loxocarya "flexuosa"*
dune or plain, calcareous grey sand, v well drained
Sites from DO,WP,CL

GROUP: 15 40 82 175 451 22 sites, Ho = 0.61
Dominant: *Melaleuca acerosa, M. huegelii ssp. huegelii*
Constant: *M. acerosa, Acacia lasiocarpa var. lasiocarpa*
plain, calcareous grey sand / Holocene limestone, v well drained
Sites from WP,DO,NH,+

GROUP: 15 40 83 176 452 13 sites, Ho = 0.48
Dominant: *Lomandra maritima, Melaleuca acerosa*
Constant: *L. maritima, Stipa flavescens*
dune, calcareous grey sand, v well drained
Sites from BB,LP,NI

GROUP: 15 40 83 176 453 4 sites, Ho = 0.25
Dominant: *Allocasuarina humilis, Dryandra sessilis cygnorum*
Constant: *Melaleuca acerosa, Grevillea thelemanniana ssp. preissii*
plain, quartz yellow sand / Tamala limestone, v well drained
Sites from BB

GROUP: 16 41 84 177 454 12 sites, Ho = 0.47
Dominant: *Allocasuarina lehmanniana ssp. lehmanniana, Melaleuca huegelii ssp. huegelii*
Constant: *A. lehmanniana ssp. lehmanniana, Melaleuca acerosa*
plain, calcareous grey sand / Tamala limestone, v well drained
Sites from WP,CE,CL

GROUP: 16 41 84 177 455 37 sites, Ho = 0.58
Dominant: *Allocasuarina lehmanniana ssp. lehmanniana, Melaleuca acerosa*
Constant: *Opercularia vaginata, A. lehmanniana ssp. lehmanniana*
plain, calcareous grey sand / limestone, v well drained
Sites from NA,GH,WG,NI,DD,LE,+

GROUP: 16 41 84 178 456 26 sites, Ho = 0.59
Dominant: *Spyridium globulosum*
Constant: *S. globulosum, Conostylis candicans ssp. calcicola*
plain, calcareous grey sand / limestone, v well drained
Sites from NA,CE,DD,GH,+

GROUP: 17 42 85 179 457 3 sites, Ho = 0.76
Dominant: *Melaleuca cardiophylla*
Constant: *M. cardiophylla, M. huegelii ssp. huegelii*
plain or rise, calcareous grey sand / Tamala limestone, v well drained
Sites from 3B,CL,NI

GROUP: 17 42 85 179 458 10 sites, Ho = 0.32
Dominant: *Melaleuca cardiophylla, M. huegelii ssp. huegelii*
Constant: *M. cardiophylla, M. acerosa*
plain or swale, calcareous grey sand / Tamala limestone, v well drained
Sites from WG,LE,GH,NH,NA,NI,CE

GROUP: 17 42 85 179 459 5 sites, Ho = 0.46
Dominant: *Melaleuca cardiophylla*
Constant: *M. cardiophylla, Daucus glochidiatus*
dune or plain, calcareous grey sand / limestone, v well drained
Sites from NI,NA,MI

GROUP: 17 42 85 179 460 4 sites, Ho = 0.44
Dominant: *Melaleuca cardiophylla, M. huegelii ssp. huegelii*
Constant: *Rhagodia baccata ssp. baccata, M. cardiophylla*
plain, calcareous grey sand / Tamala limestone, v well drained
Sites from BB,BU

GROUP: 17 42 85 179 461 2 sites, Ho = 0.32
Dominant: *Melaleuca huegelii ssp. huegelii*
Constant: *M. huegelii ssp. huegelii, Gahnia trifida*
plain, calcareous grey sand / limestone, v well drained
Sites from NA

GROUP: 17 42 86 180 462 4 sites, Ho = 0.20
Dominant: *Melaleuca cardiophylla, Acacia rostellifera*
Constant: *M. cardiophylla, A. rostellifera*
dune or plain, calcareous grey sand / quartz sand, v well drained
Sites from CE,3C

GROUP: 17 42 86 180 463 2 sites, Ho = 0.36
Dominant: *Acacia rostellifera, Melaleuca acerosa*
Constant: *A. rostellifera, M. acerosa*
rise or dune, sand, v well drained
Sites from IND,SW

GROUP: 17 42 86 180 464 12 sites, Ho = 0.48
Dominant: *Acacia rostellifera, Melaleuca acerosa*
Constant: *A. rostellifera, M. acerosa*
dune, calcareous grey sand, v well drained
Sites from MI,BB,NI

GROUP: 17 42 86 180 465 13 sites, Ho = 1.00
Dominant: *Acacia rostellifera, Acanthocarpus preissii*
Constant: *Melaleuca acerosa, Spyridium globulosum*
dune, calcareous grey sand, v well drained
Sites from NA,CE,CL,WG,NI,DD

GROUP: 17 43 87 181 466 14 sites, Ho = 0.39
Dominant: *Melaleuca huegelii ssp. huegelii, M. cardiophylla*
Constant: *M. huegelii ssp. huegelii, Senecio lautus*
plain or dune, calcareous grey sand, v well drained
Sites from DO,WP,+

GROUP: 17 43 87 181 467 9 sites, Ho = 0.50
Dominant: *Acacia rostellifera*
Constant: *A. rostellifera, Podotheca angustifolia*
dune or plain, calcareous grey sand, v well drained
Sites from DO,WP

GROUP: 17 43 87 181 468 15 sites, Ho = 0.55
Dominant: *Acacia rostellifera, Scaevola crassifolia*
Constant: *A. rostellifera, Senecio lautus*
dune or foredune, calcareous grey sand, v well drained
Sites from GE,DO,WP,CL

GROUP: 17 44 88 182 469 1 site
Dominant: *Thryptomene baeckeacea, Melaleuca acerosa*
Constant: *T. baeckeacea, M. acerosa*
rise, quartz pale yellow sand / Tamala limestone, v well drained
Sites from 4L

GROUP: 17 44 88 182 470 3 sites, Ho = 0.67
Dominant: *Dryandra sessilis cygnorum*
Constant: *Melaleuca acerosa, Thomasia cognata*
rise or slope, quartz grey sand / Tamala limestone, v well drained
Sites from YAN,PAR

GROUP: 17 44 89 183 471 2 sites, Ho = 0.20
Dominant: *Dryandra sessilis cygnorum, Acacia truncata*
Constant: *D. sessilis cygnorum, A. truncata*
plain, siliceous-calcareous yellow sand / Tamala limestone, v well drained
Sites from NA

GROUP: 17 44 90 184 472 1 site
Dominant: *Melaleuca radula, Acacia congesta ssp. congesta*
Constant: *M. radula, A. congesta ssp. congesta*
slope, ferrugineous red gravelly clayey loam, well drained
Sites from NN (odd combination)

GROUP: 17 44 90 185 473 1 site
Dominant: *Melaleuca cardiophylla, Beyeria viscosa*
Constant: *M. cardiophylla, B. viscosa*
plain, calcareous grey sand / Tamala limestone, v well drained
Sites from LE

GROUP: 17 44 91 186 474 1 site
Dominant: *Schoenus nitens, Baumea juncea*
Constant: *S. nitens, Samolus repens*
depression, calcareous grey sand, mod drained, winter damp
Sites from CE

GROUP: 17 44 91 187 475 2 sites, Ho = 0.31
Dominant: *Melaleuca cardiophylla*
Constant: *M. cardiophylla, Samolus repens*
plain, calcareous grey sand, well drained, occ damp
Sites from LE

GROUP: 17 44 91 187 476 1 site
Dominant: *Frankenia pauciflora, Wilsonia backhousei*
Constant: *F. pauciflora, Samolus repens*
rise, calcareous grey sand / Tamala limestone, v well drained
Sites from WG

GROUP: 17 44 92 188 477 3 sites, Ho = 1.20
Dominant: *Melaleuca huegelii ssp. huegelii, M. acerosa*
Constant: *M. huegelii ssp. huegelii, Allocasuarina lehmanniana ssp. lehmanniana*
plain, calcareous grey sand / Holocene limestone, v well drained
Sites from LE

GROUP: 17 44 92 189 478 2 sites, Ho = 0.25
Dominant: *Callitris preissii ssp. preissii, Spyridium globulosum*
Constant: *C. preissii ssp. preissii, S. globulosum*
plain, calcareous grey sand / yellow sand, v well drained
Sites from TR

GROUP: 17 45 93 190 479 6 sites, Ho = 0.60
Dominant: *Acacia rostellifera*
Constant: *A. rostellifera, Isolepis nodosa*
plain or dune, calcareous grey sand / yellow sand, v well drained
Sites from GE,CE

GROUP: 17 45 93 190 480 9 sites, Ho = 0.45
Dominant: *Spyridium globulosum, Allocasuarina lehmanniana ssp. lehmanniana*
Constant: *S. globulosum, Isolepis nodosa*
plain, calcareous grey sand / limestone, v well drained
Sites from WP,CL,CE

GROUP: 17 46 94 191 481 3 sites, Ho = 0.56
Dominant: *Eucalyptus erythrocorys*
Constant: *E. erythrocorys, Diplolaena leemaniana*
hollow in upland or scarp, quartz brown sand / yellow sand / Tamala limestone, v well drained
Sites from BE,3C

GROUP: 17 46 94 191 482 6 sites, Ho = 0.27
Dominant: *limestone spp*
Constant: *Eucalyptus zopherophloia, Beyeria viscosa*
rise or hollow in upland, quartz brown sand / yellow sand / Tamala limestone, v well drained
Sites from BE

GROUP: 17 47 95 192 483 4 sites, Ho = 0.43
Dominant: *Eucalyptus obtusiflora, Melaleuca huegelii ssp. huegelii*
Constant: *M. huegelii ssp. huegelii, Comesperma integerrimum*
slope or plain, calcareous grey sand, v well drained
Sites from WP,DO,CL

GROUP: 17 47 95 192 484 3 sites, Ho = 0.40
Dominant: *Melaleuca cardiophylla*
Constant: *M. cardiophylla, Cassytha racemosa*
dune or depression, calcareous grey sand, v well drained
Sites from BE,DO

GROUP: 17 47 95 193 485 1 site
Dominant: *Eucalyptus obtusiflora, Melaleuca huegelii ssp. huegelii*
Constant: *E. obtusiflora, M. huegelii ssp. huegelii*
depression, calcareous grey sand / Holocene limestone, well drained, winter damp
Sites from BE

GROUP: 17 47 95 193 486 2 sites, Ho = 0.50
Dominant: *Eucalyptus obtusiflora, E. oraria*
Constant: *E. obtusiflora, E. oraria*
dune, grey sand / yellow sand, v well drained
Sites from BE

GROUP: 17 47 96 194 487 2 sites, Ho = 0.27
Dominant: *Acacia rostellifera*
Constant: *A. rostellifera, Melaleuca acerosa*
dune, calcareous grey sand, v well drained
Sites from TR

GROUP: 17 47 96 195 488 9 sites, Ho = 0.64
Dominant: *Melaleuca acerosa, M. huegelii ssp. huegelii*
Constant: *Lepidosperma angustatum, M. acerosa*
plain or slope, calcareous grey sand / Holocene limestone, v well drained
Sites from BE,WP

GROUP: 17 47 96 195 489 6 sites, Ho = 0.40
Dominant: *Melaleuca huegelii ssp. huegelii, M. acerosa*
Constant: *M. huegelii ssp. huegelii, M. acerosa*
plain or dune, calcareous grey sand, v well drained
Sites from BE,WP

GROUP: 18 48 97 196 490 10 sites, Ho = 0.85
Dominant: *Scaevola crassifolia, Spyridium globulosum*
Constant: *Acanthocarpus preissii, S. crassifolia*
dune or foredune, calcareous grey sand, v well drained
Sites from BB,MI,SW

GROUP: 18 48 97 196 491 27 sites, Ho = 0.67
Dominant: *Scaevola crassifolia, Spyridium globulosum*
Constant: *S. crassifolia, Olearia axillaris*
dune or foredune, calcareous grey sand, v well drained
Sites from NA,NH,GH,WG,NI,DD,CE,+

GROUP: 18 48 97 196 492 4 sites, Ho = 0.24
Dominant: *Scaevola crassifolia*
Constant: *S. crassifolia, Olearia axillaris*
plain or dune, calcareous grey sand / Tamala limestone, v well drained
Sites from BU,WG

GROUP: 18 48 97 196 493 5 sites, Ho = 0.77
Dominant: *Scaevola crassifolia*
Constant: *Acanthocarpus preissii, Conostylis candicans ssp. calcicola*
dune or plain, calcareous grey sand, v well drained
Sites from GH,CE,NH

GROUP: 18 48 98 197 494 19 sites, Ho = 0.50
Dominant: *Scaevola crassifolia, Olearia axillaris*
Constant: *O. axillaris, S. crassifolia*
dune or foredune, calcareous grey sand, v well drained
Sites from WG,NI,CL,+

GROUP: 18 48 98 197 495 15 sites, Ho = 0.67
Dominant: *Scaevola crassifolia, Olearia axillaris*
Constant: *S. crassifolia, O. axillaris*
foredune or plain, calcareous grey sand, v well drained
Sites from NI,MI,CE,GT,+CE40

GROUP: 19 49 99 198 496 9 sites, Ho = 0.43
Dominant: *Spinifex longifolius, Calocephalus brownii*
Constant: *S. longifolius, C. brownii*
foredune or plain, calcareous grey sand, v well drained
Sites from MI,NI,+

GROUP: 19 49 99 199 497 7 sites, Ho = 1.00
Dominant: *Calocephalus brownii, Senecio lautus*
Constant: *C. brownii, Senecio lautus*
plain, calcareous grey sand / limestone, v well drained
Sites from NA,CE,+

GROUP: 19 49 99 199 498 7 sites, Ho = 0.36
Dominant: *Scaevola crassifolia*
Constant: *Calocephalus brownii, S. crassifolia*
plain, calcareous grey sand / limestone, v well drained
Sites from DO,GT,MI,NI,WG

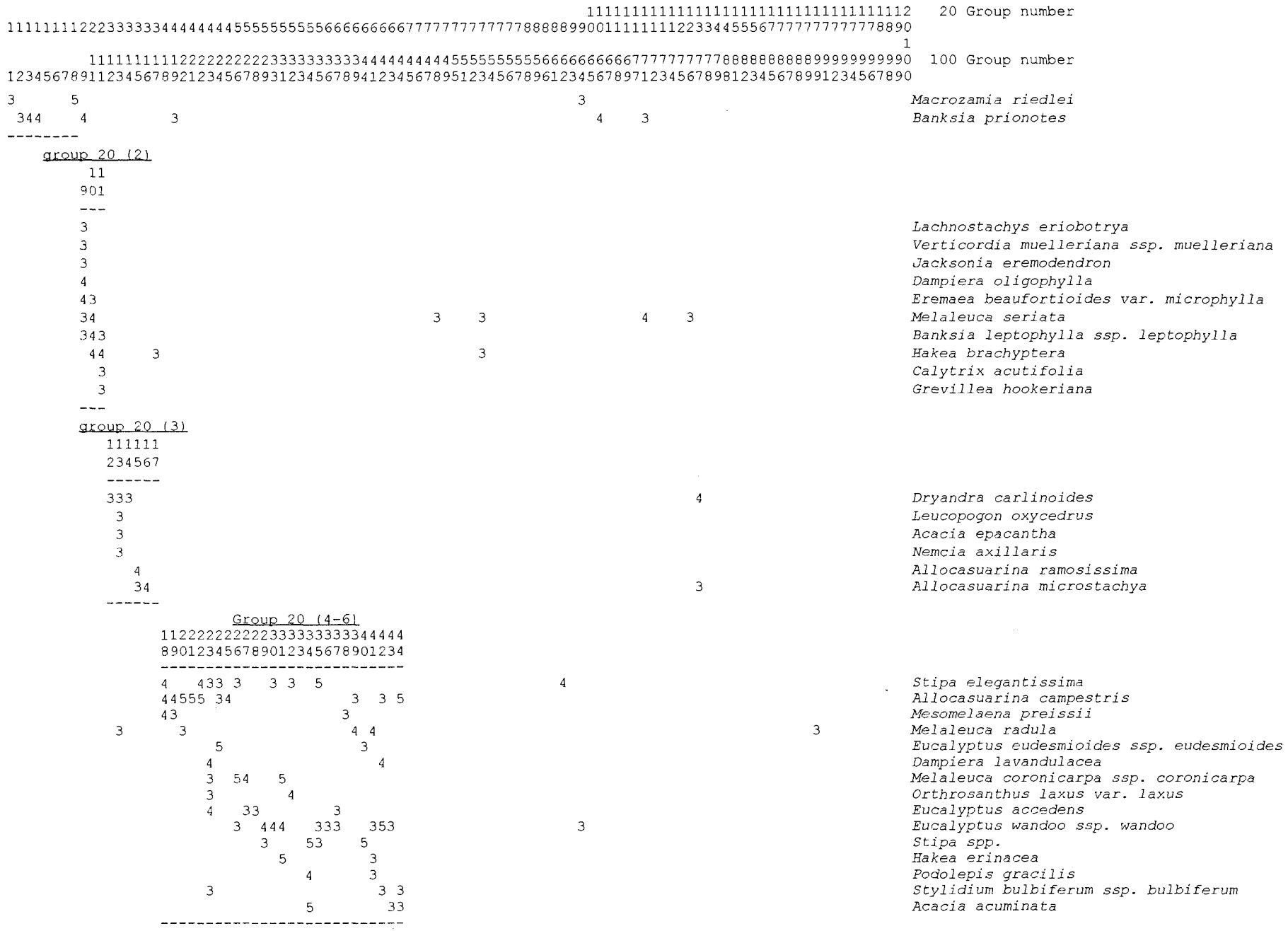
GROUP: 19 49 99 199 499 1 site
Dominant: *Opercularia vaginata, Calocephalus brownii*
Constant: *O. vaginata, C. brownii*
plain, calcareous grey sand / Holocene limestone, v well drained
Sites from GH

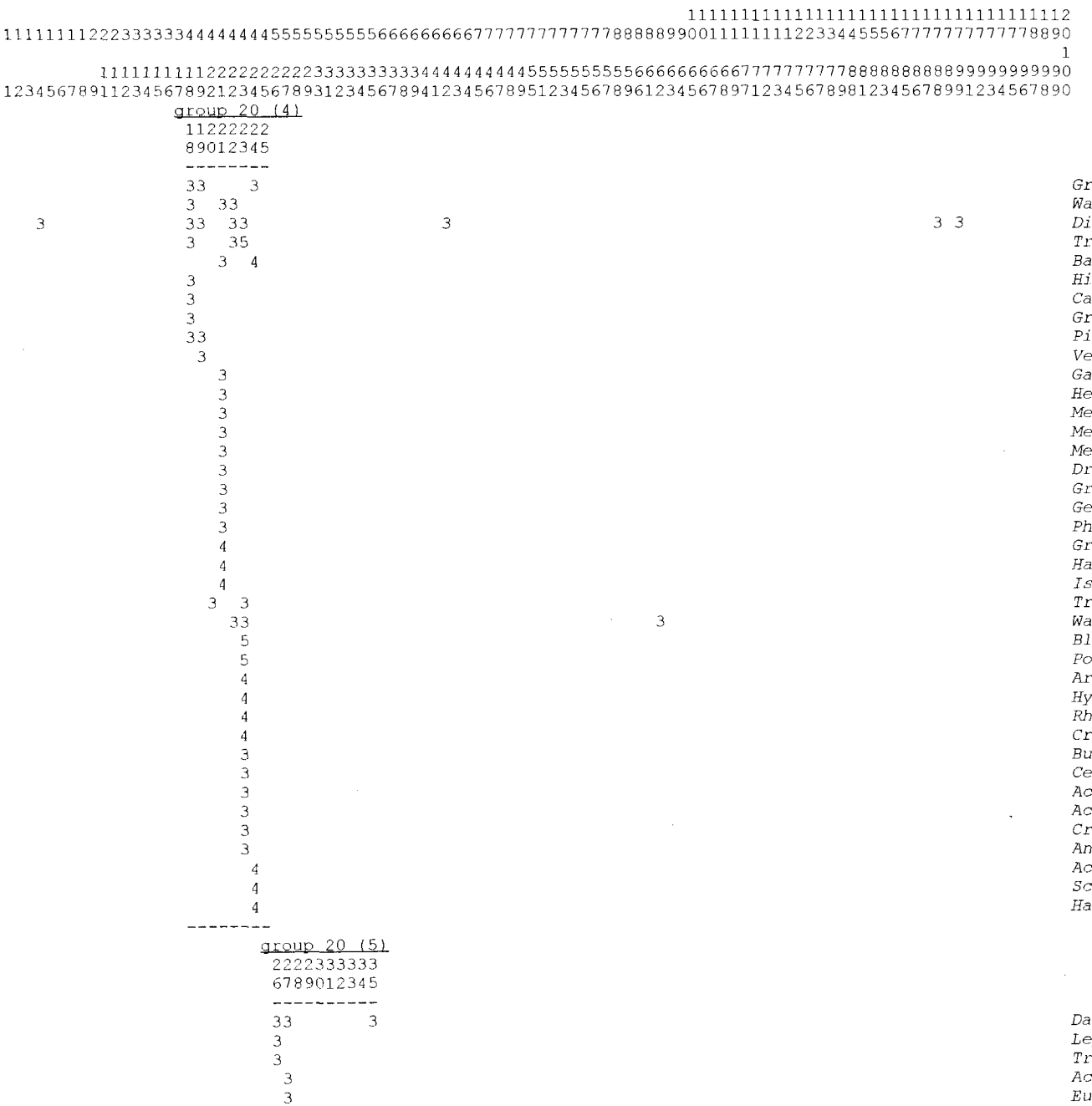
GROUP: 20 50 100 200 500 27 sites, Ho = 1.25
Dominant: *Spinifex longifolius, Tetragonia decumbens*
Constant: *Tetragonia decumbens, S. longifolius*
foredune orI, calcareous grey sand, v well drained
Sites from CE,NI,MI,WG,DO,+

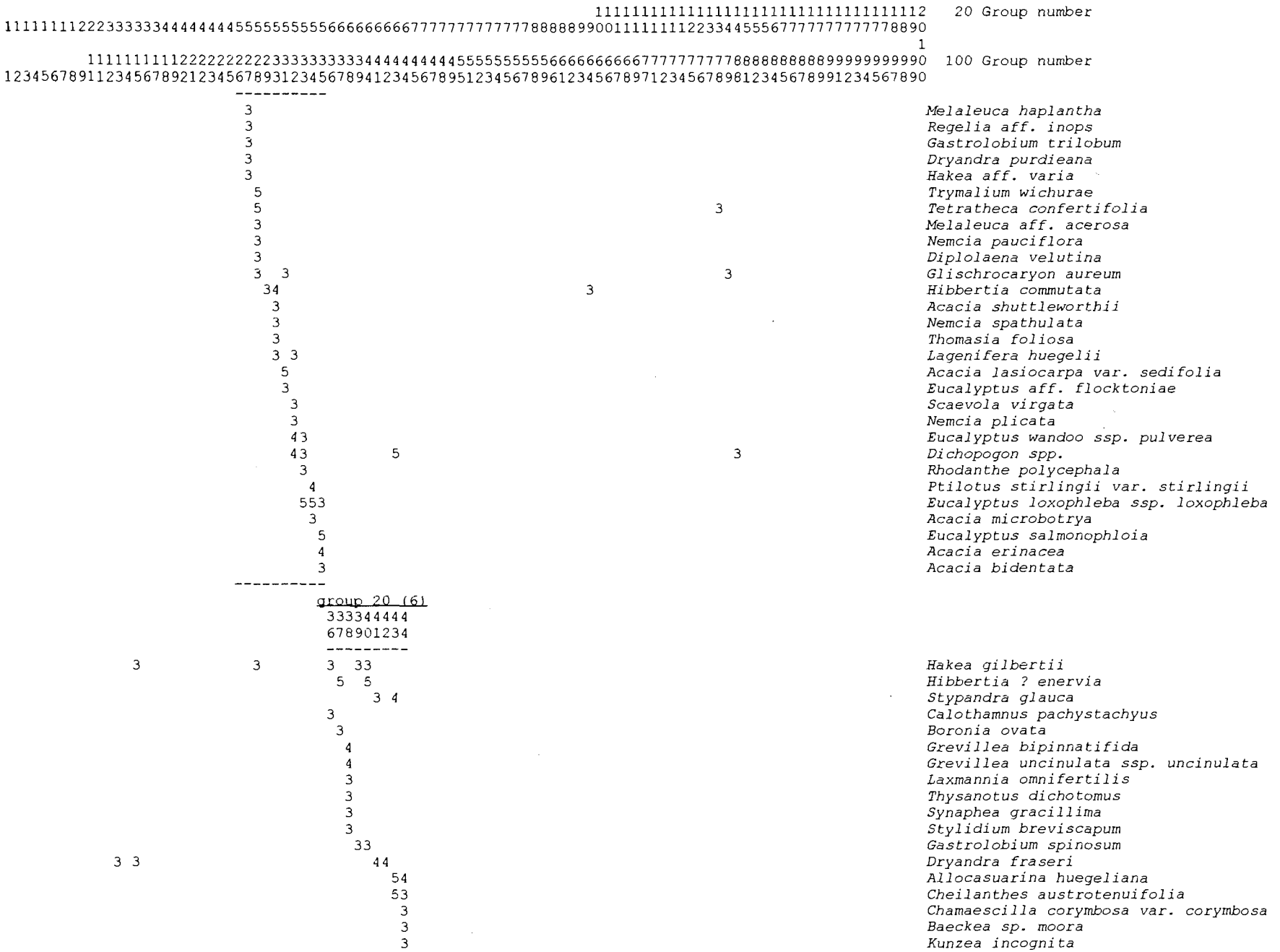
Appendix 11 Species by Group 100 Summary

Each vertical line represents one Group 100 group. Numbers are # sites in respective combination. For numbers over 9 the code in Appendix 9 applies.

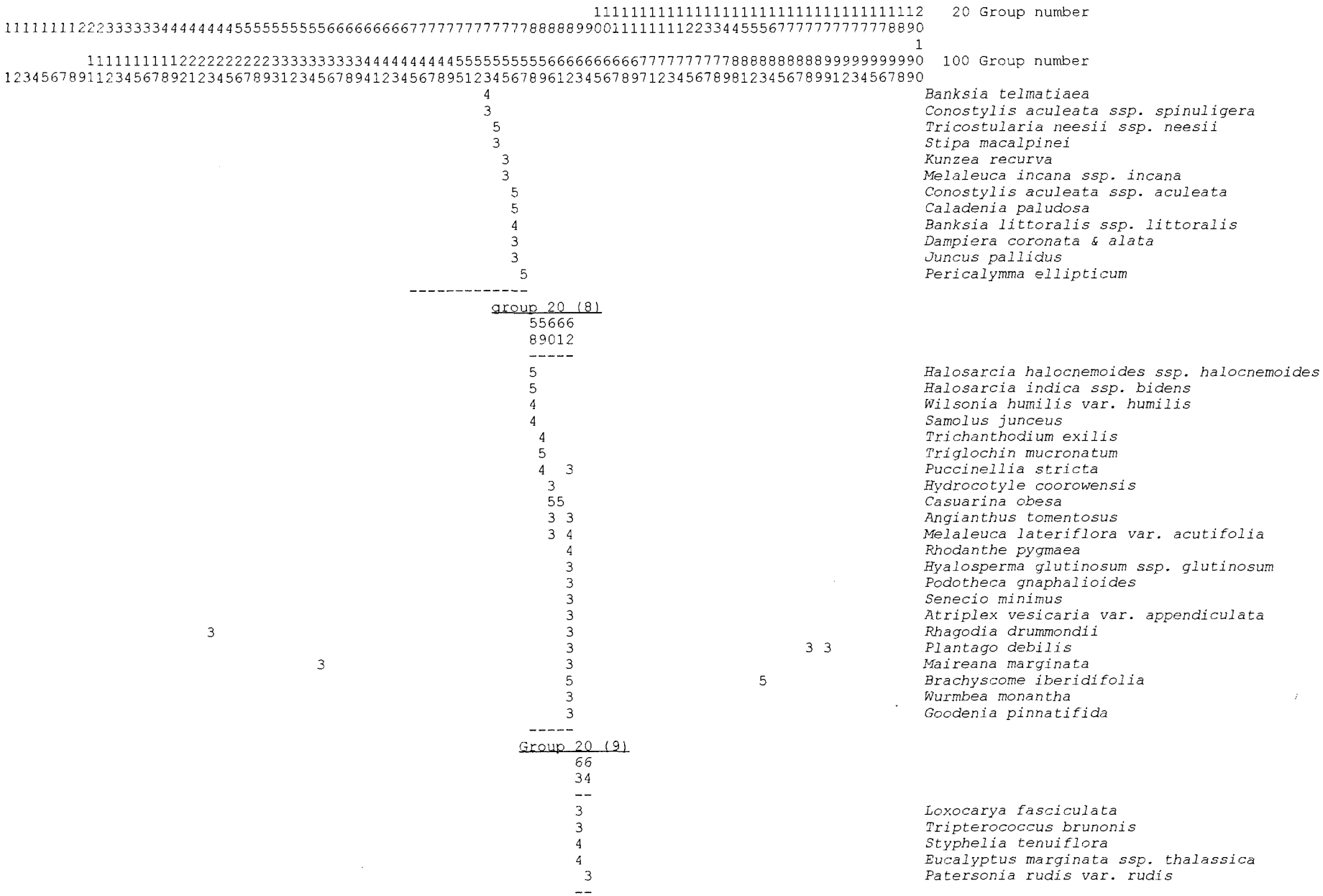
```
                                                                111111111111111111111111111111111112   20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111122334455567777777777778890
                                                                                                   1
         1111111111222222222233333333334444444444555555555566666666667777777777888888888899999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890


Species apparently faithful to groups or combinations of groups

                GROUP 20 (1-6)
         11111111112222222222333333333344444
12345678901234567890123456789012345678901234
--------------------------------------------
 4    4353    33354 4                5                           3   3                               Leptocarpus chaetocephalus or preissii
 3  5 34    5 3 3 3     5                                       3             35  4    4             Calothamnus quadrifidus
    4 3   3 444 3          5 3 4   33  4 3                    443            3 5                     Hakea lissocarpha
        333       4 4                                                                                Actinostrobus arenarius
        4 3   4455535                           4                 4                                  Ecdeiocolea monostachya
            3 3                         44                                                           Dryandra fraseri
           33  3       3   4                                             3                           Baeckea camphorosmae
           4 4                       3                                   3  3                        Hakea stenocarpa
              3    5  3            3 3  4  3  54                               45                    Borya sphaerocephala
      4      4433  34 3            333 53  3                           3       4   4   3   3         Opercularia vaginata
            3 3   333                 4                                                              Baeckea crispiflora
            3                              3                                                         Melaleuca psalmophila
             3                             4                                                         Calytrix leschenaultii
             3                       33                                                              Jacksonia restioides
            3                         45                                                             Dryandra hewardiana
              3            3       3  33                                                             Hakea gilbertii
                      4       3                                                                      Dodonaea divaricata

                   3                    3                                                            Stylidium leptophyllum
--------------------------------------------
Groups 20 (1-3)
         11111111
12345678901234567
-----------------
33  4     3                                                                                          Jacksonia ulicina
        3       3                                                                                    Calytrix strigosa
        4      33                                                                                    Dampiera spicigera
3   3 4 443    3  3                              4555          3  35                                 Verticordia densiflora
-----------------
group 20 (1)
12345678
--------
4                                                                                                    Acacia blakelyi
  4                                                                                                  Muehlenbeckia adpressa
  34                                                                                                 Scholtzia parviflora
   3                                                                                                 Corynotheca micrantha var. micrantha
       3                                                                                             Stackhousia monogyna
```

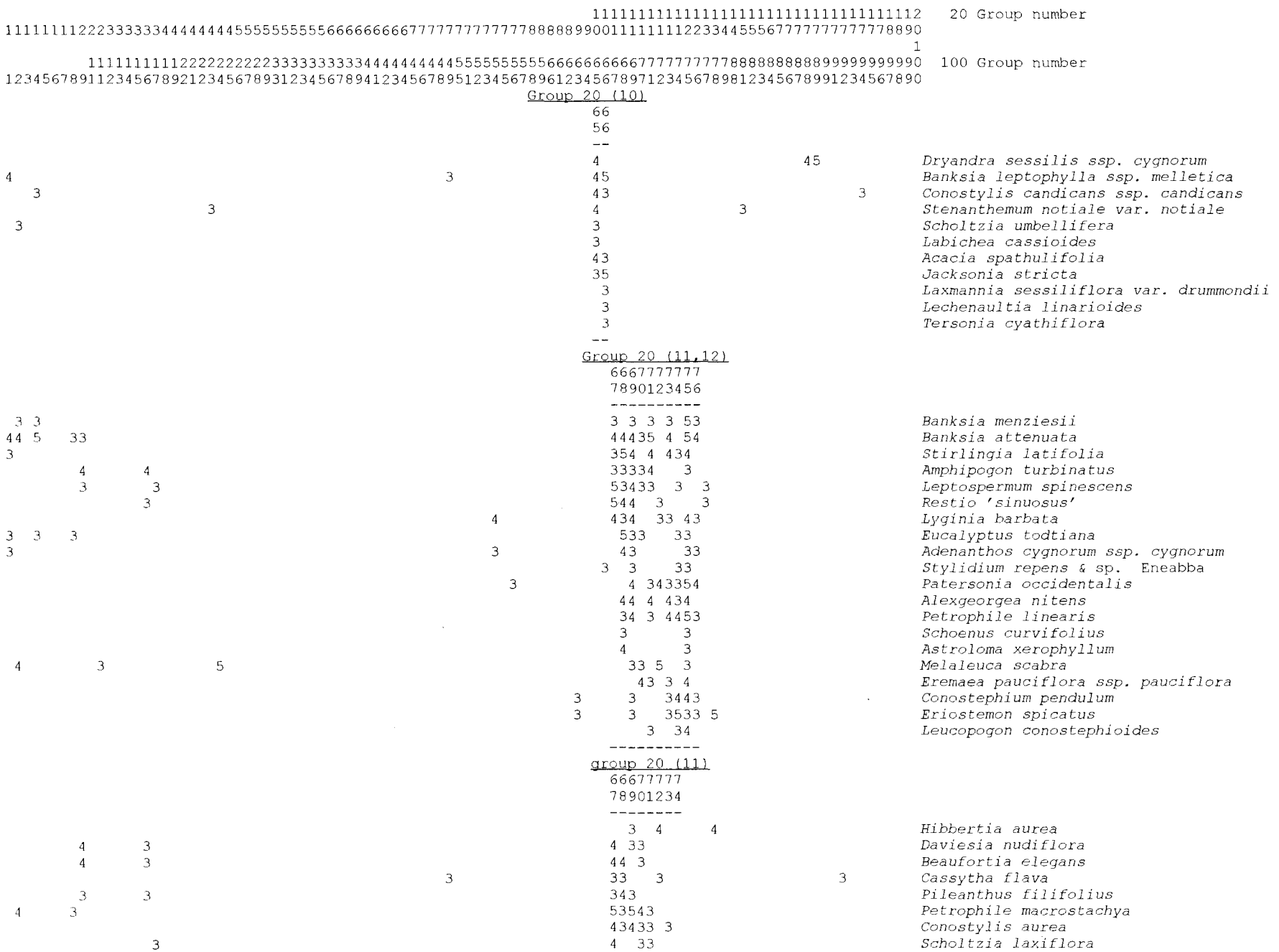

20 Group number
100 Group number
Macrozamia riedlei
Banksia prionotes
group 20 (2)
Lachnostachys eriobotrya
Verticordia muelleriana ssp. muelleriana
Jacksonia eremodendron
Dampiera oligophylla
Eremaea beaufortioides var. microphylla
Melaleuca seriata
Banksia leptophylla ssp. leptophylla
Hakea brachyptera
Calytrix acutifolia
Grevillea hookeriana
group 20 (3)
Dryandra carlinoides
Leucopogon oxycedrus
Acacia epacantha
Nemcia axillaris
Allocasuarina ramosissima
Allocasuarina microstachya
Group 20 (4-6)
Stipa elegantissima
Allocasuarina campestris
Mesomelaena preissii
Melaleuca radula
Eucalyptus eudesmioides ssp. eudesmioides
Dampiera lavandulacea
Melaleuca coronicarpa ssp. coronicarpa
Orthrosanthus laxus var. laxus
Eucalyptus accedens
Eucalyptus wandoo ssp. wandoo
Stipa spp.
Hakea erinacea
Podolepis gracilis
Stylidium bulbiferum ssp. bulbiferum
Acacia acuminata

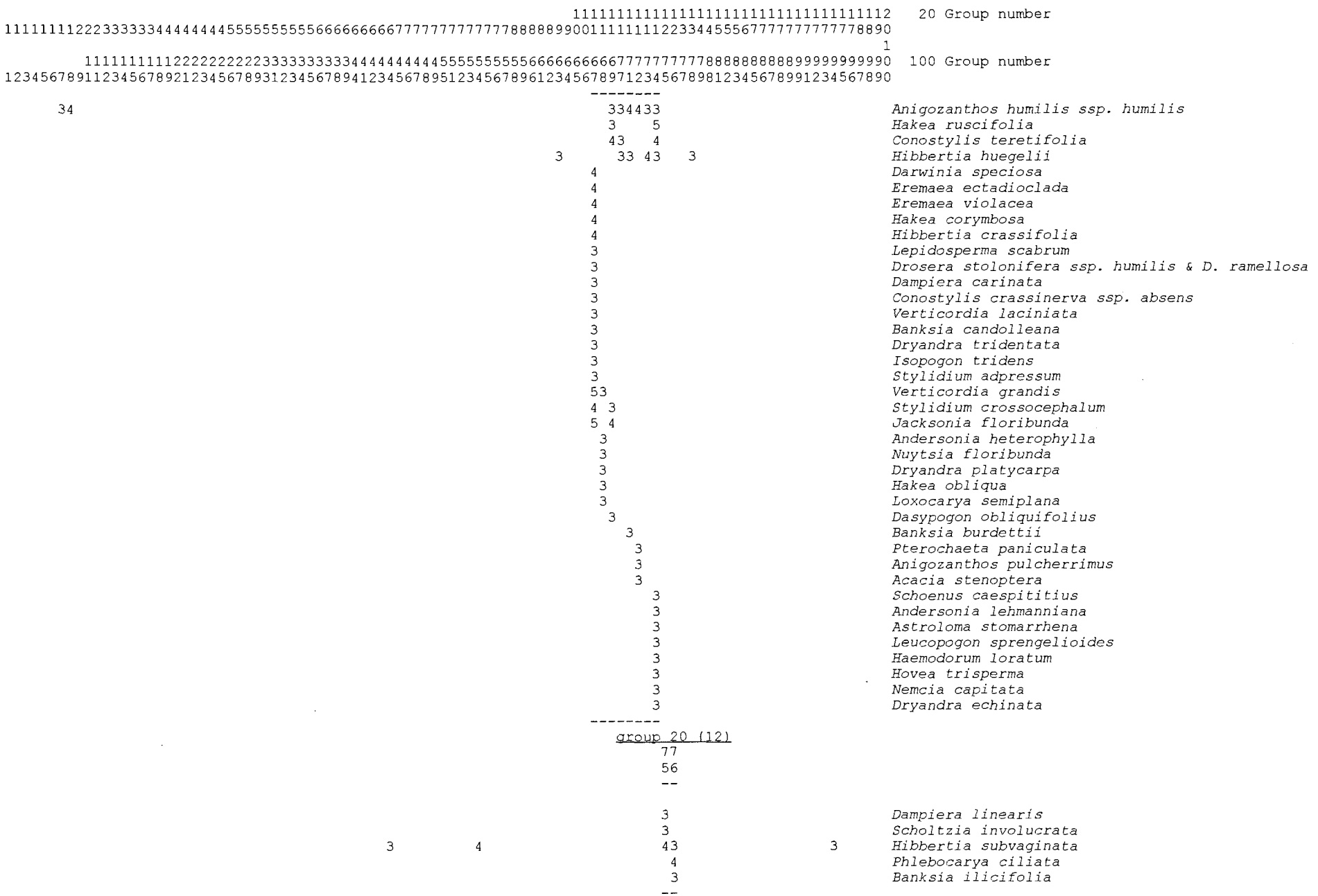

20 Group number
100 Group number
group 20 (4)
group 20 (5)
Grevillea eriostachya ssp. eriostachya
Waitzia acuminata var. acuminata
Dianella revoluta var. divaricata
Trachymene cyanopetala
Baeckea megaflora
Hibbertia conspicua
Calothamnus homalophyllus
Grevillea didymobotrya ssp. didymobotrya
Pileanthus peduncularis
Verticordia eriocephala
Gahnia drummondii
Hemigenia westringioides
Melaleuca aff. leptospermoides
Melaleuca cordata
Melaleuca holosericea
Dryandra conferta
Grevillea paniculata
Geleznowia verrucosa
Phebalium tuberculosum var. tuberculosum
Grevillea integrifolia ssp. biformis
Hakea scoparia
Isopogon scabriusculus
Trachymene ornata
Wahlenbergia preissii
Blennospora drummondii
Podolepis lessonii
Arthropodium preissii
Hydrocotyle pilifera var. glabrata
Rhodanthe laevis
Crassula peduncularis
Bulbine semibarbata
Centrolepis humillima
Acanthocarpus canaliculatus
Acacia ericksonii
Cryptandra arbutiflora var. arbutiflora
Anthocercis genistoides
Acacia scirpifolia
Scholtzia enigma
Hakea circumalata
Daviesia hakeoides ssp. hakeoides
Lepidosperma drummondii
Trymalium daphnifolium
Acacia heteroclita ssp. heteroclita
Eucalyptus arachnaea


20 Group number
100 Group number
Melaleuca haplantha
Regelia aff. inops
Gastrolobium trilobum
Dryandra purdieana
Hakea aff. varia
Trymalium wichurae
Tetratheca confertifolia
Melaleuca aff. acerosa
Nemcia pauciflora
Diplolaena velutina
Glischrocaryon aureum
Hibbertia commutata
Acacia shuttleworthii
Nemcia spathulata
Thomasia foliosa
Lagenifera huegelii
Acacia lasiocarpa var. sedifolia
Eucalyptus aff. flocktoniae
Scaevola virgata
Nemcia plicata
Eucalyptus wandoo ssp. pulverea
Dichopogon spp.
Rhodanthe polycephala
Ptilotus stirlingii var. stirlingii
Eucalyptus loxophleba ssp. loxophleba
Acacia microbotrya
Eucalyptus salmonophloia
Acacia erinacea
Acacia bidentata
group 20 (6)
Hakea gilbertii
Hibbertia ? enervia
Stypandra glauca
Calothamnus pachystachyus
Boronia ovata
Grevillea bipinnatifida
Grevillea uncinulata ssp. uncinulata
Laxmannia omnifertilis
Thysanotus dichotomus
Synaphea gracillima
Stylidium breviscapum
Gastrolobium spinosum
Dryandra fraseri
Allocasuarina huegeliana
Cheilanthes austrotenuifolia
Chamaescilla corymbosa var. corymbosa
Baeckea sp. moora
Kunzea incognita


20 Group number
100 Group number
Group 20 (7,8)
group 20 (7)
Isopogon divergens
Drosera heterophylla
Sowerbaea laxiflora
Melaleuca rhaphiophylla
Pogonolepis stricta
Calothamnus hirsutus
Melaleuca viminea ssp. viminea
Acacia saligna
Melaleuca pentagona
Drosera gigantea ssp. gigantea
Patersonia aff. occidentalis
Regelia ciliata
Dryandra nivea var. mound
Eucalyptus rudis
Hakea varia
Baumea preissii
Astartea fascicularis
Stylidium calcaratum
Drosera menziesii menziesii
Harperia lateriflora
Drosera glanduligera
Melaleuca brevifolia
Philydrella pygmaea ssp. pygmaea
Petrophile seminuda
Centrolepis aristata
Tribonanthes spp.
Siloxerus humifusus
Hypolaena exsulca
Baumea juncea
Melaleuca preissiana
Leptocarpus aristatus
Thryptomene prolifera
Gnephosis angianthoides
Podotheca uniseta
Centrolepis pilosa
Schoenus rigens
Viminaria juncea
Actinostrobus pyramidalis
Stylidium petiolare
Cyathochaeta avenacea
Melaleuca teretifolia
Melaleuca aff. sclerophylla
Hibbertia stellaris

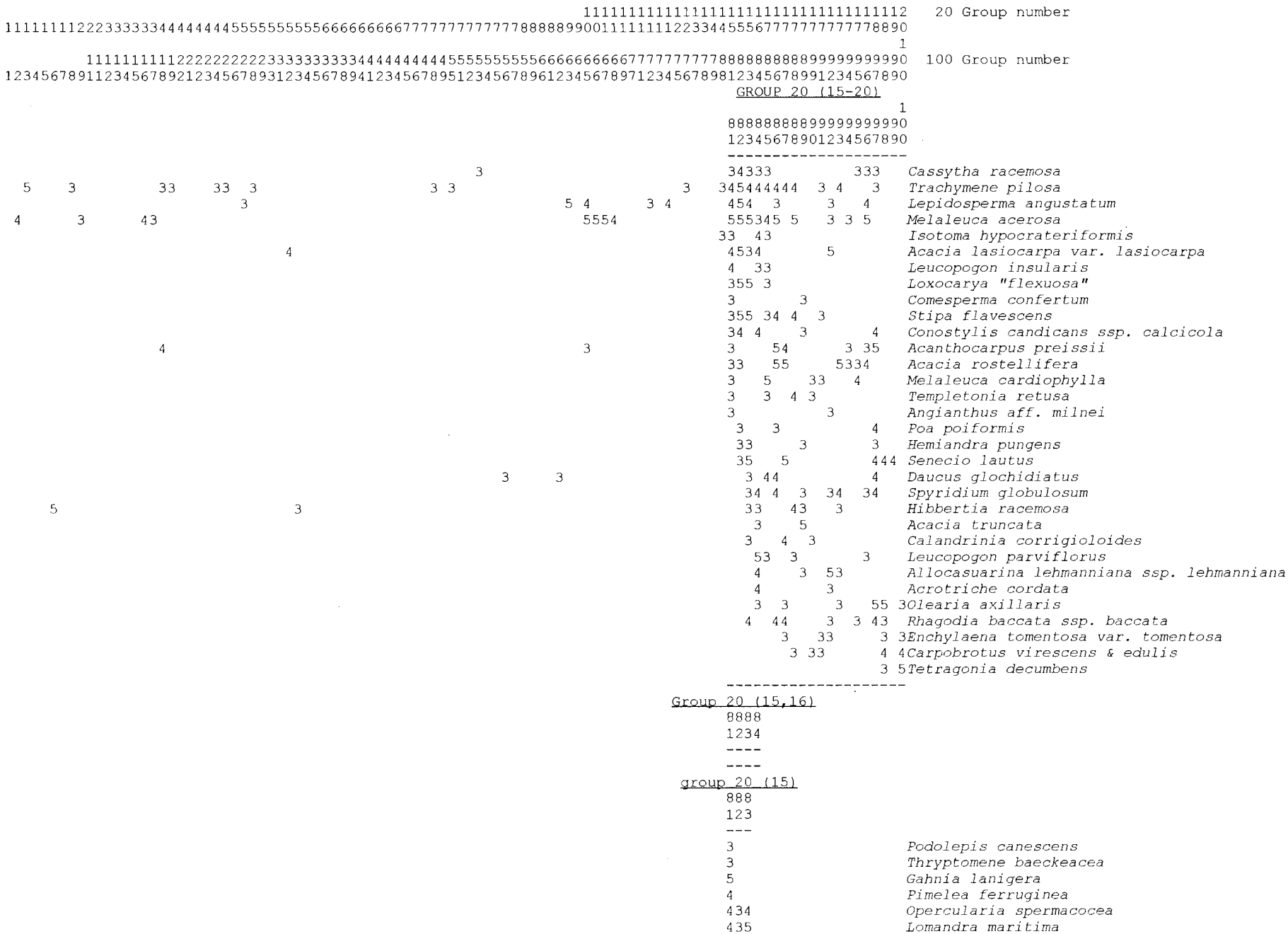

20 Group number
100 Group number
Banksia telmatiaea
Conostylis aculeata ssp. spinuligera
Tricostularia neesii ssp. neesii
Stipa macalpinei
Kunzea recurva
Melaleuca incana ssp. incana
Conostylis aculeata ssp. aculeata
Caladenia paludosa
Banksia littoralis ssp. littoralis
Dampiera coronata & alata
Juncus pallidus
Pericalymma ellipticum
group 20 (8)
Halosarcia halocnemoides ssp. halocnemoides
Halosarcia indica ssp. bidens
Wilsonia humilis var. humilis
Samolus junceus
Trichanthodium exilis
Triglochin mucronatum
Puccinellia stricta
Hydrocotyle coorowensis
Casuarina obesa
Angianthus tomentosus
Melaleuca lateriflora var. acutifolia
Rhodanthe pygmaea
Hyalosperma glutinosum ssp. glutinosum
Podotheca gnaphalioides
Senecio minimus
Atriplex vesicaria var. appendiculata
Rhagodia drummondii
Plantago debilis
Maireana marginata
Brachyscome iberidifolia
Wurmbea monantha
Goodenia pinnatifida
Group 20 (9)
Loxocarya fasciculata
Tripterococcus brunonis
Styphelia tenuiflora
Eucalyptus marginata ssp. thalassica
Patersonia rudis var. rudis

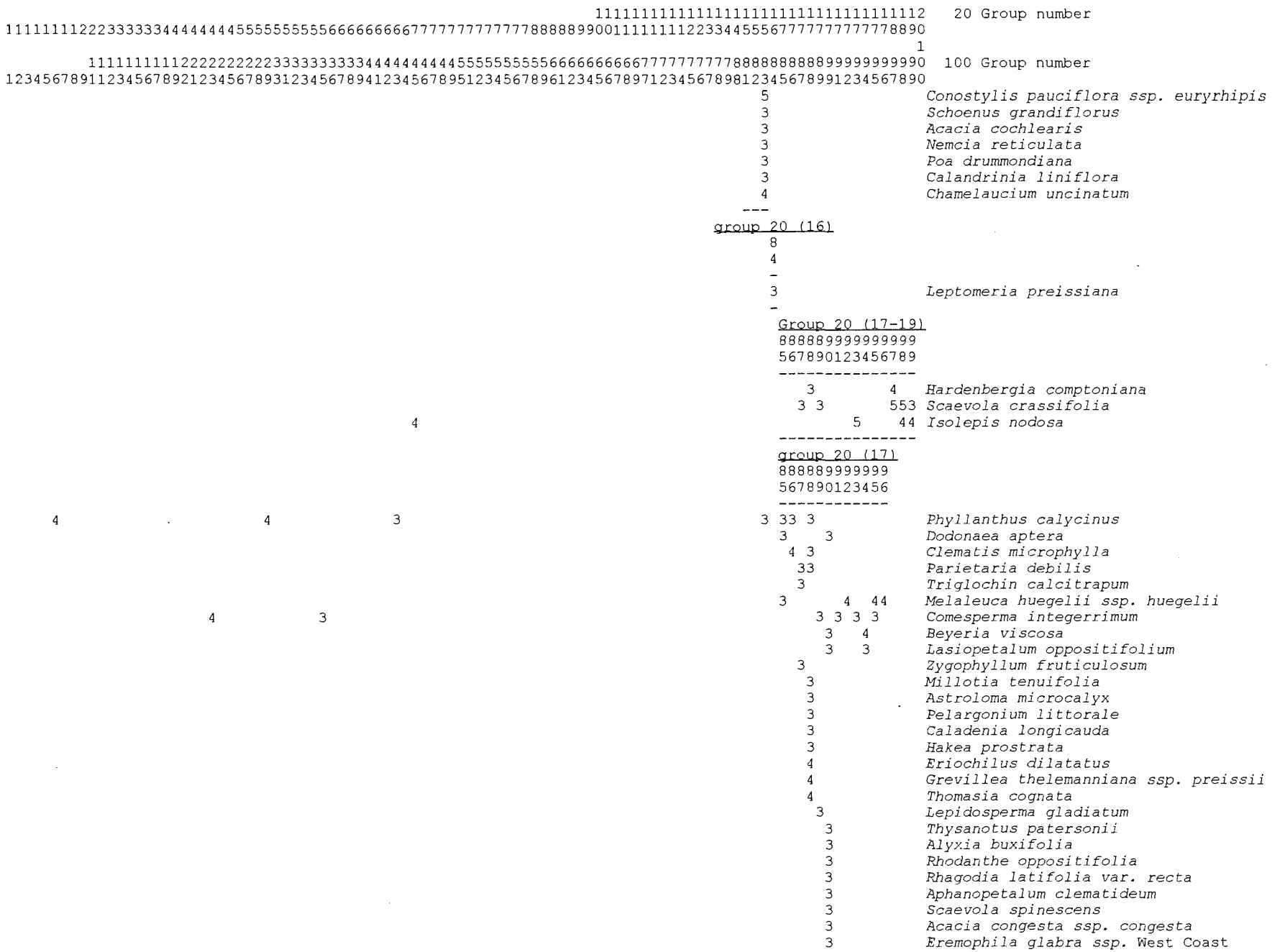

1111111111111111111111111111111111112 20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111223344555677777777777788890
1
11111111112222222222333333333344444444445555555555666666666677777777778888888888999999999990 100 Group number
12345678911234567892123456789312345678941234567895123456789612345678971234567898123456789912345678901
Group 20 (10)
66
56
--
4 45 Dryandra sessilis ssp. cygnorum
4 3 45 Banksia leptophylla ssp. melletica
3 43 3 Conostylis candicans ssp. candicans
3 4 3 Stenanthemum notiale var. notiale
3 3 Scholtzia umbellifera
3 Labichea cassioides
43 Acacia spathulifolia
35 Jacksonia stricta
3 Laxmannia sessiliflora var. drummondii
3 Lechenaultia linarioides
3 Tersonia cyathiflora
--
Group 20 (11,12)
6667777777
7890123456
----
3 3 3 3 3 53 Banksia menziesii
44 5 33 44435 4 54 Banksia attenuata
3 354 4 434 Stirlingia latifolia
4 4 33334 3 Amphipogon turbinatus
3 3 53433 3 3 Leptospermum spinescens
3 544 3 3 Restio 'sinuosus'
4 434 33 43 Lyginia barbata
3 3 3 533 33 Eucalyptus todtiana
3 3 43 33 Adenanthos cygnorum ssp. cygnorum
3 3 33 Stylidium repens & sp. Eneabba
3 4 343354 Patersonia occidentalis
44 4 434 Alexgeorgea nitens
34 3 4453 Petrophile linearis
3 3 Schoenus curvifolius
4 3 Astroloma xerophyllum
4 3 5 33 5 3 Melaleuca scabra
43 3 4 Eremaea pauciflora ssp. pauciflora
3 3 3443 Conostephium pendulum
3 3 3533 5 Eriostemon spicatus
3 34 Leucopogon conostephioides
----
group 20 (11)
66677777
78901234
----
3 4 4 Hibbertia aurea
4 3 4 33 Daviesia nudiflora
4 3 44 3 Beaufortia elegans
3 33 3 3 Cassytha flava
3 3 343 Pileanthus filifolius
4 3 53543 Petrophile macrostachya
43433 3 Conostylis aurea
3 4 33 Scholtzia laxiflora


20 Group number
100 Group number
Anigozanthos humilis ssp. humilis
Hakea ruscifolia
Conostylis teretifolia
Hibbertia huegelii
Darwinia speciosa
Eremaea ectadioclada
Eremaea violacea
Hakea corymbosa
Hibbertia crassifolia
Lepidosperma scabrum
Drosera stolonifera ssp. humilis & D. ramellosa
Dampiera carinata
Conostylis crassinerva ssp. absens
Verticordia laciniata
Banksia candolleana
Dryandra tridentata
Isopogon tridens
Stylidium adpressum
Verticordia grandis
Stylidium crossocephalum
Jacksonia floribunda
Andersonia heterophylla
Nuytsia floribunda
Dryandra platycarpa
Hakea obliqua
Loxocarya semiplana
Dasypogon obliquifolius
Banksia burdettii
Pterochaeta paniculata
Anigozanthos pulcherrimus
Acacia stenoptera
Schoenus caespititius
Andersonia lehmanniana
Astroloma stomarrhena
Leucopogon sprengelioides
Haemodorum loratum
Hovea trisperma
Nemcia capitata
Dryandra echinata
group 20 (12)
Dampiera linearis
Scholtzia involucrata
Hibbertia subvaginata
Phlebocarya ciliata
Banksia ilicifolia

```
                                                                111111111111111111111111111111111112   20 Group number
1111111122233333334444444555555555556666666666777777777777888899001111111122334455567777777777778890
                                                                                                   1
         111111111122222222223333333333444444444455555555556666666666777777777788888888889999999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890
                                                                    Group 20 (13,14)
                                                                            7778
                                                                            7890
                                                                            ----
             333                    3                               3       443                       Goodenia caerulea
                                   33                                    3  345                       Melaleuca trichophylla
                                                                    5  4 3  455                       Hypocalymma xanthopetalum
             4                                                      3       444                       Baeckea grandiflora
                                                                            353                       Calothamnus torulosus
                                                                            343                       Schoenus brevisetis
                                                                            344                       Gastrolobium bidens
                                     3                                      3343                      Conostylis androstemma
                           3                                                 554                      Dryandra armata
          3           3              4   3 3                             4   454                      Lepidosperma tenue
            3                                                3               333                      Daviesia preissii
                      34          3                                    3     334                      Thysanotus manglesianus
                                                                             443                      Amphipogon debilis
                                                                            ----
                                                                     group 20 (13)
                                                                            77
                                                                            78
                                                                            --
            3 3                                                             4                         Petrophile shuttleworthiana
                                                                            3                         Dryandra glauca
                                                                            3                         Isopogon adenanthoides
                                                                            4                         Hakea auriculata
                                                                         3  33                        Calectasia cyanea
             3                      3  3                     4           4  35                        Petrophile striata
             3                                                     3        45                        Lambertia multiflora ssp. Northern
             3                                                              35                        Haemodorum venosum
             3                       3                       4           4  45                        Tetraria octandra
                                                             3           4  44                        Mesomelaena tetragona
                                                                            34                        Conothamnus trinervis
                                                                            34                        Dryandra bipinnatifida
                                                                            34                        Hakea conchifolia
                                                                            34                        Pimelea sulphurea
                                                                             4                        Xanthosia tomentosa
                                                                             4                        Kingia australis
                                                                             4                        Hibbertia mylnei
                                                                             4                        Astroloma sp. Cataby
                                                                             4                        Leucopogon sp. (recurved leaf)
                                                                             4                        Melaleuca aff. megacephala
                                                                             4                        Sphaerolobium macranthum var. macranthum
                                                                             4                        Comesperma acerosum
                                                                             4                        Isopogon asper
                                                                             3                        Labichea punctata
                                                                             3                        Lomandra preissii
                                                                             3                        Macropidia fuliginosa
                                                                             3                        Darwinia helichrysoides
                                                                             3                        Synaphea sp. 38 & lesueurensis
                                                                             3                        Anarthria humilis
                                                                             3                        Stylidium diuroides
                                                                            --
```

```
                                                                111111111111111111111111111111111112   20 Group number
1111111122233333334444444455555555555666666666677777777777778888899001111111223344555677777777777778890
                                                                                                   1
         1111111111222222222233333333334444444444555555555566666666667777777777888888888899999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890
                                                                       group 20 (14)
                                                                              78
                                                                              90
                                                                              --
                                                                              5                     Stylidium pycnostachyum
                                                                              3                     Thysanotus sp. Badgingarra
                                                                              3                     Patersonia argyrea
                                                                              3                     Diplolaena ferruginea
                                                                              3                     Thomasia grandiflora
                                                                              4                     Hakea longiflora
                                                                              4                     Dodonaea ericoides
                      3                                                       4                     Calytrix flavescens
              3                                                               43                    Hakea spathulata
                                                              3          3    44                    Haemodorum laxum
                                                                              54                    Petrophile chrysantha
                                                                              34                    Melaleuca platycalyx
                                                                              43                    Cryptandra pungens
                                                                              33                    Jacksonia condensata
                                                                              33                    Tetratheca paucifolia
                                                                               4                    Pimelea imbricata var. piligera
                                                                               3                    Chamaescilla corymbosa var. latifolia
                                                                               3                    Thysanotus thyrsoideus
                                                                               3                    Homalosciadium homalocarpum
                                                                               3                    Hydrocotyle diantha
                                                                               3                    Dampiera teres
                                                                               3                    Haemodorum simplex
                                                                               3                    Gonocarpus nodulosus
                                                                               3                    Acacia retrorsa
                                                                               3                    Gastrolobium oxylobioides
                                                                               3                    Stylidium leptocalyx
                                                                              --
```


20 Group number
100 Group number
GROUP 20 (15-20)
Cassytha racemosa
Trachymene pilosa
Lepidosperma angustatum
Melaleuca acerosa
Isotoma hypocrateriformis
Acacia lasiocarpa var. lasiocarpa
Leucopogon insularis
Loxocarya "flexuosa"
Comesperma confertum
Stipa flavescens
Conostylis candicans ssp. calcicola
Acanthocarpus preissii
Acacia rostellifera
Melaleuca cardiophylla
Templetonia retusa
Angianthus aff. milnei
Poa poiformis
Hemiandra pungens
Senecio lautus
Daucus glochidiatus
Spyridium globulosum
Hibbertia racemosa
Acacia truncata
Calandrinia corrigioloides
Leucopogon parviflorus
Allocasuarina lehmanniana ssp. lehmanniana
Acrotriche cordata
Olearia axillaris
Rhagodia baccata ssp. baccata
Enchylaena tomentosa var. tomentosa
Carpobrotus virescens & edulis
Tetragonia decumbens
Group 20 (15,16)
group 20 (15)
Podolepis canescens
Thryptomene baeckeacea
Gahnia lanigera
Pimelea ferruginea
Opercularia spermacocea
Lomandra maritima


20 Group number
100 Group number
Conostylis pauciflora ssp. euryrhipis
Schoenus grandiflorus
Acacia cochlearis
Nemcia reticulata
Poa drummondiana
Calandrinia liniflora
Chamelaucium uncinatum
group 20 (16)
Leptomeria preissiana
Group 20 (17-19)
Hardenbergia comptoniana
Scaevola crassifolia
Isolepis nodosa
group 20 (17)
Phyllanthus calycinus
Dodonaea aptera
Clematis microphylla
Parietaria debilis
Triglochin calcitrapum
Melaleuca huegelii ssp. huegelii
Comesperma integerrimum
Beyeria viscosa
Lasiopetalum oppositifolium
Zygophyllum fruticulosum
Millotia tenuifolia
Astroloma microcalyx
Pelargonium littorale
Caladenia longicauda
Hakea prostrata
Eriochilus dilatatus
Grevillea thelemanniana ssp. preissii
Thomasia cognata
Lepidosperma gladiatum
Thysanotus patersonii
Alyxia buxifolia
Rhodanthe oppositifolia
Rhagodia latifolia var. recta
Aphanopetalum clematideum
Scaevola spinescens
Acacia congesta ssp. congesta
Eremophila glabra ssp. West Coast

```
                                                                111111111111111111111111111111111112   20 Group number
1111111122233333334444444555555555556666666666777777777777788888990011111112233445556777777777777778890
                                                                                                   1
         1111111111222222222233333333334444444444555555555566666666667777777777888888888899999999990  100 Group number
1234567891123456789212345678931234567894123456789512345678961234567897123456789812345678991234567890
                                                                                         3           Pittosporum phylliraeoides ssp. phylliraeoides
                                                                                         3           Grevillea olivacea
                                                                                         3           Rulingia malvifolia var.borealis
                                                                                          5          Samolus repens
                                                                                           5         Santalum acuminatum
                                                                                           3         Callitris preissii ssp. preissii
                                                                                           3         Gahnia trifida
                                                                                           3         Schoenus pleiostemoneus
                                                                                           3         Cassytha aurea var. hirta
                                                                                             4       Alyogyne hakeifolia
                                                                                             4       Acacia xanthina
                                                                                             4       Eucalyptus zopherophloia
                                                                                             4       Diplolaena leemaniana
                                                                                             4       Guichenotia ledifolia
                                                                                             3       Acacia idiomorpha
                                                                                             3       Eucalyptus erythrocorys
                                                                                             3       Anthobolus foveolatus
                                                                                             3       Pimelea angustifolia
                                                                                             3       Pimelea argentea
                                                                                              43     Eucalyptus obtusiflora
                                                                                    ------------

                                                                                           group 20 (18)
                                                                                                99
                                                                                                78
                                                                                                --
                                                                                                33 Myoporum insulare
                                                                                                 3 Acacia cyclops
                                                                                                --
                                                                                          group 20 (19)
                                                                                                 9
                                                                                                 9
                                                                                                 -
                                                                                                 5 Calocephalus brownii
                                                                                                 -
                                                                                          Group 20 (20)
                                                                                                  1
                                                                                                  0
                                                                                                  0
                                                                                                  -
                                                                                                  5Spinifex longifolius
                                                                                                  4Cakile maritima
                                                                                                  4Atriplex isatidea
```


20 Group number
100 Group number
Possibly differential of a range of groups
Neurachne alopecuroidea
Schoenus subflavus
Xanthorrhoea drummondii
Hibbertia hypericoides
Conospermum stoechadis
Cassytha pomiformis
Melaleuca uncinata
COnostylis aculeata ssp. brevifolia
Hakea costata
Hakea trifurcata
Eucalyptus calophylla
Daviesia divaricata
Eremaea beaufortioides
Conospermum aff. triplinervium
Dryandra shuttleworthiana
Leptospermum erubescens
Burchardia umbellata
Allocasuarina humilis
Mesomelaena pseudostygia
Petrophile brevifolia
Dryandra nivea
Synaphea spinulosa ssp. spinulosa
Calothamnus sanguineus
Stylidium brunonianum
Drosery erythrorhiza ssp. erythrorhiza
Caustia dioica
Hakea incrassata
Cassytha glabella
Petrophile drumondii
Hibbertia acerosa
Bossiaea eriocarpa
Scaevola repens var. repens
Darwinea neildiana
Lomandra sericea
Gompholobium knightianum
Lechenaultia biloba
Grevillea synaphea ssp. pachyphylla
Lysinema ciliatum
Daviesia decurrens
Isopogon linearis
Petrophile inconspicua
Loxocarya lateritica
Actinostrobus acuminatus
Gompholobium tomentosum
Xanthosia huegelii
Petrophile serruriae
Crassula colorata var. colorata


1111111111111111111111111111111111112 20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111122334455567777777777778890
1
11111111112222222222333333333344444444445555555555666666666677777777778888888888999999999990 100 Group number
12345678911234567892123456789312345678941234567895123456789612345678971234567898123456789912345678 90
Apparently not differntial
Velleia trinervis
Dioscorea hastifolia
Hibbertia lasiopus
Cryptandra arbutiflora var. intermedia
Drosera macrantha ssp. macrantha
Calytrix aurea
Stylidium piliferum
Trymalium ledifolium var. rosmarinifolium
Hibbertia ? pachyrrhiza
Astroloma glauca
Dryandra sessilis ssp. sessilis
Isolepis marginata
Rhagodia preissii var. preissii
Plectrachne danthonioides
Hakea undulata
Astrtoloma microphylla
Goodenia micrantha
Dasypogon bromeliifolius
Drosera spp.
Ptilotus manglesii
Xanthorrhoea preissii
Acacia pulchella var. glaberrima
Cryptandra mutilla
Petrophile scabrluscula var. recurva
Melaleuca ciliosa
Hyalosperma cotula
Loxocarya aspera
Hypocalymma angustifolium
Levenhookia spp.
Xylomelum angustifolium
Danthonia spp.
Leucopogon striatus
1
11111111112222222222333333333344444444445555555555666666666677777777778888888888999999999990 100 Group number
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678 90
1111111111111111111111111111111111112 20 Group number
1111111122233333344444444555555555566666666677777777777778888899001111111122334455567777777777778890

Appendix 12 Geographic Ranges of Floristic Groups

Each line represents a combination of closely related Floristic groups which appeared to have similar geographic ranges which have characterised by the locations named.
Each of these lines (combinations) were sorted into 20 sets on the basis of the location names.
This is a preliminary attempt to identify biogeographic regions. It will prove that some require further assessment.

The distribution of sites from these set are plotted in Figure 10.

(Groups 15 - 20 from 20 group level have not been summarised in this way at this stage.
Sites from these groups are almost entirely from the coastal Holocene dunes and plains.
Detailed assessment of regional patterns of these areas has recently been prepared (Griffin, 1993).)

-- Group level --					Approximate distribution range
20	50	100	200	500	
SET 1					
4	10	18			Wicherrina - Mingenew n *
3	9	17	38	90	Wicherrina - Arrino *
3	9	17	38	91	Wicherrina - Arrino *
3	9	17	38	92	Wicherrina - Arrino *
4	12	24	56		Casuarina - w of Yarra Yarra
4	11	22			Wicherrina - Gunyidi +
3	9	17	39		Burma rd - Carnamah w
5	13	26	62		Burma rd - Arrino - Walebing area
4	12	24	57		Arrino
SET 2					
4	11	23			Dookanooka
3	9	17	38	93	Eneabba n - Mingenew n
3	9	17	38	94	Eneabba n - Mingenew n
SET 3					
3	9	16	35	83	Eneabba n & e
11	32	68	147		Eneabba n & e
7	25	55	123	310	Eneabba ne
3	9	16	36		Eneabba ne & e
13	36	77	167	429	Eneabba e
SET 4					
4	11	20	47		Arrino w - Badgingarra
11	33	70	150	377	Arrowsmith riv w - Badgingarra N
11	32	68	146		Arrowsmith riv nw - Boothendarra
7	23	47			Eneabba w & ne - Badgingarra
3	9	16	37		Eneabba e - Badgingarra n
3	9	15			Eneabba w & e - Badgingarra
SET 5					
11	32	67			Eneabba - Coomallo
13	36	77	166	427	Eneabba - Coomallo
7	24	50	116	285	Eneabba ne - Wongonderra
3	9	16	35	84	Eneabba n - Coomallo
3	8	12	26		Eneabba se - Badgingarra n
11	32	69	148	370	Eneabba s - Badgingarra n
13	36	77	166	428	Coomallo - Mullering *
SET 6					
1	1				Eneabba plain
7	25	55	123	312	Eneabba w

SET 7					
10	31	66			Eneabba w (Spearwood dunes)
10	31	65			Eneabba w - Cataby w (Spearwood dunes)
1	2				Spearwood e side *
SET 8					
7	24	49			Eneabba w - Cockleshell Gully, Coomallo +
8	27	58			Leeman
SET 9					
11	32	69	149	373	Lesueur
11	34	72	156		Lesueur
14	38	79	170		Lesueur
14	39	80	171		Lesueur
13	37	78	169		Lesueur +
13	36	77	168		Lesueur +
SET 10					
5	16	32			Lesueur, Badgingarra, Dandaragan
12	35	75	162	414	Lesueur - Cataby (Gingin Scarp)
11	32	69	148	371	Cockleshell Gully - Moore riv (Gingin Scarp)
11	32	69	149	372	Cockleshell Gully - Wongonderra *
11	34	72	155		Cockleshell Gully - Cataby
12	35	75	162	411	Cockleshell Gully - Cataby sw
12	35	75	162	412	Cockleshell Gully - Cataby sw
12	35	75	162	413	Cockleshell Gully - Cataby sw
7	24	51	119		Cockleshell Gully - Cataby
7	24	53	121		Cervantes E - Namming NR *
11	33	70	150	374	Coomallo - Moore riv +
7	25	55	123	314	Wongonderra - Cooljarloo
1	4	5			Coomallo - Dandaragan s
1	4	6			Coomallo - Dandaragan s
SET 11					
5	14	28			Badgingarra n
11	33	70	150	378	Boothendarra
13	36	77	167	430	Badgingarra ne
5	17	33			Badgingarra, Dandaragan
1	5	8			Badgingarra - Dandaragan *
SET 12					
3	8	14	31		Cataby e - Dandaragan se, Moore riv
3	8	13			Cataby e - Dandaragan s
11	34	73	159	405	Cataby e - Dandaragan se
11	34	73	159	406	Cataby e - Dandaragan se
3	8	12	28		Dandaragan e
11	33	70	152	381	Dandaragan se
11	33	70	152	383	Dandaragan se
11	33	70	152	382	Dandaragan e & se
SET 13					
1	3				Watheroo NP - Dandaragan e, Koojan w
1	5	7	14		Jingemia - Dandaragan - Mogumber w *
5	15	29	67		Dandaragan se - Wannamal w
1	5	7	15		Koojan w - Mogumber w
1	5	7	17		Moora w - Gillingarra w
3	8	14	30		Dandaragan ne - Boonanarring NR
3	8	12	27		Dandaragan s - Boonanarring NR
7	22	46			Eganu - Julimar +
11	33	70	151	379	Watheroo NP
11	33	70	151	380	Moora w
8	28	61			Moora w

Set 13 (Continued)

2	7	11			Eneabba ne - Moora w
7	23	48			Eneabba ne - Marchagee
6	19	36	81		Eneabba ne - New Norcia
6	19	36	82		Eneabba ne - New Norcia
4	12	25			Eneabba w & ne - Watheroo

SET 14

4	10	19	43	113	Arrino - Dalwallinu w
4	10	19	43	114	Arrino - Dalwallinu w
4	10	19	43	115	Arrino - Dalwallinu w
4	10	19	43	112	Yarra Yarra w -Pinjarrega
4	11	20	45		Yarra Yarra w - Watheroo
4	11	20	46		Yarra Yarra w - Watheroo
2	6	9	19	48	Yarra Yarra w
2	6	9	19	49	Yarra Yarra w
4	10	19	42		Yarra Yarra w - Moora w - Dalwallinu w
2	6	9	19	50	Eganu - Marchagee e *
2	7	10			Eganu n - Watheroo NP
4	10	19	44		Marchagee - Watheroo NP
11	33	71	153		Eganu - Watheroo NP - Mogumber w
4	11	21	48		Dalwallinu w
8	27	59			Watheroo Bentonite lakes
8	28	60			Watheroo Bentonite lakes
8	29	62			Watheroo Bentonite lakes

SET 15

11	34	73	157		Cataby w - Boonanarring NR *
7	24	51	118		Cataby w - Melaleuca Park
12	35	75	163	415	Moore riv - Boonanarring NR, Ellen Brook area
12	35	75	163	416	Moore riv - Boonanarring NR, Ellen Brook area
7	24	50	116	287	Moore River NP
7	24	50	116	288	Namming NR - Moore River NP
7	24	50	116	289	Namming NR - Moore River NP
7	25	55	123	313	Moore River NP
11	33	70	150	376	Cataby s - Boonanarring NR
12	35	75	163	417	Cataby se - Bindoon w
11	33	70	150	375	Bartlett's Well NR
12	35	76	164		Namming NR - Ellen Brook area, Boonanarring NR
12	35	76	165		Namming NR - Ellen Brook area, Boonanarring NR
7	25	56			Ellen Brook area
7	25	55	123	311	Moore River NP - Ellen Brook area
7	26	57			Moore River NP - Ellen Brook area
11	34	73	159	401	Cataby - Yeal Swamp+
11	34	73	159	402	Cataby - Yeal Swamp+
11	34	73	159	403	Cataby - Yeal Swamp+
11	34	73	159	404	Cataby - Yeal Swamp+

SET 16

12	35	75	163	418	Wannamal w, Bindoon w areas
11	34	73	158		Mooliabeenee - Bullsbrook
7	24	52	120		Mogumber w
7	25	54			Wannamal w, Cervantes e
11	34	74			Wannamal w - Boonanarring NR
7	25	55	123	315	Wannamal w
9	30	64	136		Boonanarring NR, Bullsbrook
9	30	63	135	334	Bindoon s, Bullsbrook e
9	30	63	135	335	Bindoon area w
9	30	63	135	336	Bindoon area w
9	30	63	135	337	Boonanarring NR

SET 17					
6	21	44			Walebing area
5	18	35	79		Walebing area
6	20	42			Walebing, New Norcia, Wannamal areas
6	20	39			Walebing, New Norcia & Wannamal areas, Dandaragan e *
6	21	43			Walebing, Wannamal, Bindoon areas *
5	15	30			New Norcia, Wannamal, Bindoon areas
5	17	34			New Norcia area
1	5	7	16		New Norcia area
5	18	35	80		New Norcia area
6	20	40			New Norcia area
5	13	26	63		Walebing, New Norcia areas
SET 18					
5	13	27			Walebing, New Norcia, Wannamal areas
5	15	29	68		New Norcia, Wannamal, Bindoon areas
5	15	31			New Norcia, Wannamal, Bindoon areas
6	20	41			New Norcia, Wannamal, Bindoon areas *
6	19	36	83		New Norcia, Wannamal areas
6	19	36	84		New Norcia, Wannamal areas
6	19	36	85		New Norcia, Wannamal areas
6	19	37	86	218	Wannamal area
6	19	37	86	219	Wannamal area
9	30	64	137		Wannamal, Bindoon areas
9	30	64	138		Wannamal, Bindoon areas
5	15	29	69		Bindoon, Wannamal areas
5	15	29	70		Bindoon, Wannamal areas
9	30	64	139		Bindoon, Wannamal areas
9	30	64	141		Bindoon, Wannamal areas
SET 19					
6	19	38			Bindoon area
6	19	37	86	217	Bindoon area
9	30	64	140		Bindoon area
7	24	50	116	286	Julimar
SET 20					
7	22	45			Eneabba - Julimar +

\+ an occasional site from other areas
* further geographic patterns are obvious

DIVISION OF RESOURCE MANAGEMENT TECHNICAL REPORTS, ISSN 0729-3135

	TITLE	AUTHOR
1.*	LAND DEGRADATION IN THE FITZROY VALLEY	RANGELAND MANAGEMENT BRANCH
2.*	REPORT ON THE CONDITION OF THE GASCOYNE CATCHMENT	D.G. WILCOX, E.A. MCKINNON B.J.GODDARD, M.G. HUMPHREY
3.*	WIND EROSION IN THE JERRAMUNGUP REGION 1980-81	D. CARTER
4.*	AGRICULTURAL DEVELOPMENT IN THE NORTH KIMBERLEY	D.G. WILCOX, J. RIPLEY, R.F. JOHNSON
5.*	VISIT OF WORKING PARTY ON NORTH KIMBERLEY AGRICULTURE DEVELOPMENT 1977	D.G. WILCOX, J. RIPLEY, R.F. JOHNSON
6.*	PROBLEMS & PROSPECTS OF KIMBERLEY PASTORAL INDUSTRY	R.B. HACKER
7.	QUOBBA CHALET DEVELOPMENT, LAND CAPABILITY STUDY AND ENVIRONMENTAL CONSIDERATION	J. RICHES
8.*	REVIEW OF CURRENT DRAINAGE INVESTIGATIONS IN WA	R.A NULSEN
9.	PRELIMINARY GROUNDWATER INVESTIGATIONS IN RELATION TO SOIL SALINITY AT FITZGERALD	C. HENSCHKE
11.	PROGRESS REPORT ON EFFECTS OF CONTOUR BANKING ON SURFACE RUNOFF BERKSHIRE VALLEY EXP. VALLEY	K. BLIGH
12.*	SHIRE OF MANJIMUP BRIEF ASSESSMENT OF PHYSICAL LAND RESOURCES WITH RESPECT TO HORTICULTURAL LAND USE	M. WELLS
13.	LAND RESOURCE SURVEY REPORT ON THE BRIGADOON DEVELOPMENT	M. WELLS
14.	BRIEF STUDY OF LAND CAPABILITY IN COASTAL REGION SHIRE OF HARVEY	M. WELLS, P. HESP
17.*	AN ASSESSMENT OF INTERCEPTOR BANKS AT DANGIN	C. HENSCHKE
18.*	SOIL FACTORS AFFECTING FLOOD RUNOFF ON AGRICULTURAL CATCHMENTS IN WESTERN AUSTRALIA	D.J. McFARLANE
19.*	HYDROLOGICAL STUDIES IN SOIL SALINITY	C. HENSCHKE
21.*	SOILS & GEOLOGY OF THE BERKSHIRE VALLEY EXP. CATCHMENT	M. WELLS & D. McFARLANE
22.*	SUMMARY OF BROOME AND DERBY PINDANA STUDIES	P. DOLLING
24.	VLAMING HEAD - TANTABIDDI WELL - COASTAL RESOURCE SURVEY	P. HESP, J.G. MORRISSEY

	TITLE	AUTHOR
25.	RURAL (NON IRRIGATION) WATER SUPPLIES IN W.A. A PERSPECTIVE TO THE YEAR 2000	I. LAING
26.	WATER EROSION ON POTATO LAND DURING THE 1983 GROWING SEASON DONNYBROOK	D. McFARLANE
29.*	STUDY TOUR REPORT SOIL CONSERVATION RESEARCH IN NEW SOUTH WALES AND ITS SIGNIFICANCE TO RESEARCH ON WATER EROSION IN WESTERN AUSTRALIA	D. McFARLANE
30.	AGRICULTURAL WATER QUALITY CRITERIA	R. GEORGE
32.*	WATER USE BY SOME CROPS IN THE SOUTHERN AGRICULTURAL AREAS OF W.A.	R.A. NULSEN I.N. BAXTER
33.	A STUDY OF ALTERNATIVE SITES FOR EQUESTRIAN/HOBBY FARM DEVELOPMENT IN THE KARRATHA AREA	B. KOK
34.	SOIL SURVEY KINGS PARK BOARD - WUNGONG ANNEX	M. WELLS
38.	LAND RESOURCE SURVEY, FALL POINT, BROOME WA	P. CURRY, P. HESP
40.	STUDY TOUR, RESEARCH ON SOIL STRUCTURE AND ITS RELATIONSHIP WITH CULTIVATION PRACTICES IN SE QUEENSLAND	C.W.L. HENDERSON
41.	IMPACT OF PETROLEUM EXPLORATION ACTIVITY ON RANGE RESOURCES AND PASTORAL PURSUITS IN THE WEST KIMBERLEY	N. KLEPACKI, S. BLACK
42.	THROUGH FLOW TROUGHS FOR THE MEASUREMENT OF SHALLOW SEEPAGE ON HILLSLOPES	C.J. HENSCHKE J.A. BESSELL-BROWNE
43.*	ESTIMATION OF RUNOFF FOR UNGAUGED CATCHMENTS IN THE AGRICULTURAL AREAS OF WESTERN AUSTRALIA	D. McFARLANE J.R. DAVIES
44.	SHIRE OF ROCKINGHAM, A STUDY OF LAND RESOURCES AND PLANNING CONSIDERATIONS	M. WELLS, R. OMA N. RICHARDS
45.	THE ROLE OF MINIMUM TILLAGE CONSIDERATIONS SOILS	B. CRABTREE
46.	CAMBALLIN IRRIGATION AREA, A SUMMARY OF CROPPING AND PASTURE STUDIES 1958-1970	PHONGSAK YUHUN
47.*	SHIRE OF WANNEROO, A STUDY OF LAND RESOURCES AND PLANNING CONSIDERATIONS	M.R. WELLS, N.L.B. RICHARDS A.J. CLARKE
48.	JANDAKOT GROUNDWATER SCHEME - A STUDY OF LAND RESOURCES AND PLANNING CONSIDERATIONS	M.R. WELLS, N.L.B. RICHARDS A.J. CLARKE
49.*	REPORT ON LAND DEGRADATION INVESTIGATIONS: KENT RIVER SOIL CONSERVATION DISTRICT	R. COLMAN D. MIERS

	TITLE	AUTHOR
51.*	WATER SPREADING AND WATERPONDING IN NEW SOUTH WALES AND THEIR RELEVANCE TO WESTERN AUSTRALIA	J. QUILTY
52.*	EVALUATION OF RISK FACTORS LEADING TO SOIL DESTABILISATION ON THE SOUTH COAST SANDPLAIN OF WESTERN AUSTRALIA	R.V.R. GWYNN P.A. FINDLATER J.R. EDWARDS
53.*	THE SOILS OF FALLS FARM CATCHMENT CUBALLING, WESTERN AUSTRALIA	R.A. SUDMEYER
54.	"DRAINS" A METHOD OF FINANCIALLY ASSESSING DRAINS USED TO MITIGATE WATERLOGGING IN SOUTH-WESTERN AUSTRALIA	JOHN S. SALERIAN DON MCFARLANE
55.*	"BANKS" A METHOD OF FINANCIALLY ASSESSING BANKS USED TO MITIGATE WATER EROSION IN SOUTH-WESTERN AUSTRALIA	JOHN S. SALERIAN DON MCFARLANE
56.	THE ECONOMICS OF SALTLAND AGRONOMY	JOHN S. SALERIAN CLIVE MALCOLM EDDIE POL
57.	WATER EROSION SURVEY IN THE NORTHAM DISTRICT AFTER STORMS IN JUNE 1987	D.J. McFARLANE A.T. RYDER
58.	INVESTIGATION OF A SALINE VALLEY ON ALLANDALE RESEARCH FARM	D.J. McFARLANE R. ENGEL A.T. RYDER
59.	WATER EROSION IN THE GERALDTON AREA DURING THE JUNE-JULY 1986	K.J. BLIGH
60.	CONSUMPTION OF WATER BY LIVESTOCK	G. LUKE
61.	SURVEY OF RESEARCH PRIORITIES IN WATER EROSION WATER-LOGGING AND FLOODING IN SOUTH-WESTERN AUSTRALIA	D.J. McFARLANE E.G. BARRETT-LENNARD
62.	REVIEW OF WISALTS BANK INSTALLATIONS	C.J. HENSCHKE
63.*	ASSESSMENT OF LAND CAPABILITY FOR ON-SITE SEPTIC TANK EFFLUENT DISPOSAL	M. WELLS
64.*	STORAGE LIFE OF FARM DAMS	G.J. LUKE C.G. DENBY
65.	EVAPORATION DATA FOR WESTERN AUSTRALIA	G.J. LUKE K.L. BURKE T.M. O'BRIEN
66.	A REVIEW OF MACHINERY FOR CROPPING WITH REDUCED WATER EROSION	K.J. BLIGH
68.	AN ASSESSMENT OF LAND CAPABILITY FOR RESIDENTIAL LAND USES, BABBAGE ISLAND CARNARVON, WESTERN AUSTRALIA	M.R. WELLS V.P.M. OMA
69.	THE LAND RESOURCES AND CARRYING CAPACITY OF THE GASCOYNE LOCATIONS 228 AND 299, NORTH OF CARNARVON, WESTERN AUSTRALIA	M.R. WELLS V.P.M. OMA A.McR. HOLM

	TITLE	AUTHOR
70.*	CODE LISTS FOR COMPUTERIZED SOIL AND LAND RESOURCE DATA RECORDING	P.D. KING M. WELLS
71.	THE USE OF PERMEABILITY, CONDUCTIVITY AND RESISTANCE IN THE DESCRIPTION OF WATER MOVEMENT IN SOILS AND PLANTS	H. BORG
72.	THE CONCEPT OF PRIME AGRICULTURAL LAND -A WESTERN AUSTRALIAN PERSPECTIVE	V.T. READ
73.	A METHOD FOR ASSESSING WATER EROSION RISK IN LAND CAPABILITY STUDIES - SWAN COASTAL PLAIN, DARLING RANGE WESTERN AUSTRALIA	M. WELLS
74.	SOILS OF THE KOJANEERUP ANNEX OF THE MOUNT BARKER RESEARCH STATION	P.A. FINDLATER P. MULLER
75.	SOIL CONSERVATION AND MANAGEMENT STRATEGIES FOR LAKE TOOLIBIN CATCHMENT	S. HEARN
76.	CARLTON PLAINS SOIL SURVEY IN THE SHIRE OF WYNDHAM/EAST KIMBERLEY	T.C. STONEMAN
77.	THE EFFECT OF SMALL EARTH STRUCTURES AND CHANNEL IMPROVEMENT ON AGRICULTURAL FLOODING IN SOUTH WESTERN AUSTRALIA	J.R. DAVIES D.J. McFARLANE R.FERDOWSIAN
78.*	LAND CAPABILITY ASSESSMENT FOR THE SHIRE OF ALBANY	V. READ
79.	AN ASSESSMENT OF SOIL CAPABILITY FOR ON SITE EFFLUENT DISPOSAL EAST CARNARVON, WESTERN AUSTRALIA	M. WELLS
80.	EVALUATING PRIME AGRICULTURAL LAND IN THE SHIRE OF MANJIMUP	V.T. READ
81.	SALINITY IN WESTERN AUSTRALIA - A SITUATION STATEMENT	
82.	SMALL FARM LAND EXPERIMENTAL CATCHMENTS IN WESTERN AUSTRALIA	K. BLIGH
83.	THE RELATIONSHIP BETWEEN THE CONCENTRATION OF TOTAL SOLUBLE SALTS AND OSMOTIC POTENTIAL IN SOIL, GROUND AND SURFACE WATER FOR SEVERAL REGIONS IN WESTERN AUSTRALIA	H. BORG
84.	PROBLEM DISTRICTS FOR ON-FARM WATER CONCENTRATION IN SOUTH WESTERN AUSTRALIA	I.A.F. LAING R.G. PEPPER A.F. McCREA
85.	CATCHMENT SALINITY: REPORT ON A STUDY OF THE EAST PERENJORI CATCHMENT	C.J. HENSCHKE
86.	ASSESSMENT OF MANAGEMENT STRATEGIES FOR REDUCING LAND DEGRADATION PROBLEMS IN THE EAST PERENJORI CATCHMENT	C.J. HENSCHKE K.J. BLIGH R. FERDOWSIAN

	TITLE	AUTHOR
87.	PUMPS - A METHOD OF FINANCIALLY ASSESSING GROUNDWATER PUMPING USED TO MITIGATE SALINITY IN SOUTH-WESTERN AUSTRALIA	R. GEORGE
88.	PRELIMINARY GROUNDWATER AND SALINITY INVESTIGATIONS IN THE EASTERN WHEATBELT 1. BRENNANDS CATCHMENT	R. GEORGE P. FRANTOM
89.	PRELIMINARY GROUNDWATER AND SALINITY INVESTIGATIONS IN THE EASTERN WHEATBELT 2. MERREDIN CATCHMENT	R.J. GEORGE P.W.C. FRANTOM
90.	PRELIMINARY GROUNDWATER AND SALINITY INVESTIGATIONS IN THE EASTERN WHEATBELT 3. WELBUNGIN AND BEACON RIVER CATCHMENT	R. GEORGE P. FRANTOM
91.	USING PUMPS AND SYPHONS TO CONTROL SALINITYAT A SALINE SEEP IN THE WALLATIN CREEK CATCHMENT	R. GEORGE P. FRANTOM
92.	PRELIMINARY GROUNDWATER AND SALINITY INVESTIGATIONS IN THE EASTERN WHEATBELT 4. KITTO'S HILLSLOPE, TAMMIN: 1985-1990	R.J. GEORGE
93.	REPORT ON THE APPLICATION OF AN EVAPOTRANS-PIRATION EQUATION TO THE WACA DOME	P.R. SCOTT
95.	SOIL MANAGEMENT FOR SUSTAINABLE AGRICULTURE	G.A. ROBERTSON
98.	LESCHENAULT PENINSULA - A STUDY OF LAND RESOURCES AND PLANNING CONSIDERATIONS	V.P.M. OMA
99.	MINIMAL-SOIL-DISTURBANCE SOWING IN NEW SOUTH WALES AND ITS RELEVANCE TO REDUCING WATER EROSION IN WESTERN AUSTRALIA	K.J. BLIGH
100.	RESPONSE BY *STYLOSANTHES HAMATA* AND *S. SCABRA* TO PHOSPHATE ON THREE SOILS IN THE NORTH KIMBERLEY OF WESTERN AUSTRALIA	A.McR. HOLM M.D. D'ANTUONO
101.*	JERDACUTTUP LAND RESOURCE AND CAPABILITY STUDY	G. MOORE S.T. GEE D. VINCENT
102.	AGROFORESTRY - INTEGRATION OF TREES INTO THE AGRICULTURAL LANDSCAPE	P.R. SCOTT
103.*	KINGS PARK SOIL SURVEY	J. BESSELL-BROWNE
104.	COST OF ALTERNATIVE IRRIGATION SYSTEMS FOR VEGETABLE CROPS	G. LUKE T.C. CALDER
105.	POTENTIAL FOR HORTICULTURE ON THE SWAN COASTAL PLAIN - STAGE 1 MOORE RIVER TO DUNSBOROUGH	G. MOORE
106.	BACKGROUND PAPERS TO WAWA'S SOUTH-WEST PUBLIC IRRIGATION DISTRICT STRATEGY STUDY	G. LUKE (COMPILED BY) I.A.F. LAING R. TAYLOR & I. WILKINSON G. OLNEY P.R. GEORGE P. ARKELL

	TITLE	AUTHOR
107.	WATER EROSION ON VEGETABLE GROWING LAND IN SOUTH WESTERN AUSTRALIA	D.J. McFARLANE N. DELROY H.V.B. GRATTE J.P. MIDDLEMAS A. VAN VREESWYK I.M.C. KISSOCK
108.	SALINITY AND WATERLOGGING ON THE ESPERANCE DOWNS RESEARCH STATION	J. McFARLANE A.T. RYDER
109.	BUSSELTON-MARGARET RIVER-AUGUSTA LAND CAPABILITY STUDY; METHODOLOGY AND RESULTS VOL. 1 AND VOL. 2.	P. TILLE N. LANTZKE
110.	A WHOLE FARM ECONOMIC MODEL FOR DETERMINING THE PROFITABILITY OF STRATEGIES WHICH REDUCE THE RISK OF WIND EROSION ON THE SOUTH COAST OF WESTERN AUSTRALIA	A. BATHGATE
111.	TOWARDS BETTER MINIMUM TILLAGE FOR SOUTH COASTAL SANDPLAIN SOIL	W.L. CRABTREE
115.	HORTICULTURAL CAPABILITY STUDY OF SOILS ADJACENT TO PLANTATIONS AT CARNARVON, WESTERN AUSTRALIA	M.R. WELLS J.A. BESSELL-BROWNE
116.	THE IMPACT OF MINING AND MINING EXPLORATION ACTIVITY ON RANGE RESOURCES AND PASTORAL PURSUITS IN THE PILBARA, GASCOYNE, MURCHISON AND GOLDFIELDS REGIONS OF WESTERN AUSTRALIA	H.J. PRINGLE G.A. CARTER J.L. JAMES R.E.Y. O'CONNOR
117.	CATCHMENT DRAINAGE - THREE CASE STUDIES	J.E.P. GREEN
118.	TRANSPIRATION AND WATER RELATIONS OF IRRIGATED PEACH TREES AT MANJIMUP, WESTERN AUSTRALIA	P.R. SCOTT
119.	SURVEY OF IRRIGATION EFFICIENCIES ON HORTICULTURE PROPERTIES IN THE PEEL-HARVEY CATCHMENT	S. MILANI
120.	A REVIEW OF FOUR ON-FARM WATER SUPPLY DEMONSTRATION FARMS	M.H.M. CASEY I.A.F. LAING
121.	TACKLING SALINITY ON THE ESPERANCE SANDPLAIN	S.J. HEARN
122.	GROUND WATER INVESTIGATIONS IN THE JERRAMUNGUP SHIRE	S. MARTIN
123.	THE MALLEE ROAD CATCHMENT PROJECT	R. SIEWERT S. ABBOTT
124.	AN ASSESSMENT OF THE IMPACT OF OPHTHALMIA DAM ON THE FLOODPLAINS OF THE FORTESCUE RIVER ON ETHEL CREEK AND ROY HILL STATIONS	A.L. PAYNE A.A. MITCHELL
125.	CROP IRRIGATION REQUIREMENT PROGRAMME	G.J. LUKE P.A. AYLEMORE E.J. HAUCK

126.	CLIMATE, PHYSIOGRAPHY, GEOLOGY, HYDROLOGY AND LAND USE IN THE NORTH STIRLINGS AREA - A PRECURSORY REPORT	R. LENNARD R.A. NULSEN C.E. SOUTHWELL
127.	NO-TILLAGE SEEDERS AND THEIR ADOPTION IN NORTH AMERICA - WITH RELEVANCE TO WESTERN AUSTRALIA	K. BLIGH
128.	CALIBRATION AND USE OF A COMBINATION ATMOMETER TO ESTIMATE EVATRANSPIRATION AND MONITOR SOIL MOISTURE STORAGE ON FARMLAND CATCHMENTS IN WESTERN AUSTRALIA	K. BLIGH
129.	SOILS OF THE EAST BEVERLEY ANNEX OF THE AVONDALE RESEARCH STATION	N. LANTZKE
130.	INTEGRATED CATCHMENT MANAGEMENT - UPPER DENMARK CATCHMENT	R. FERDOWSIAN K.J. GREENHAM
131.	LAND RECLAMATION IN THE NORTH STIRLING LAND CONSERVATION DISTRICT	F. LEWIS
132.	INFLUENCE OF WATER SUPPLY ON PRODUCTIVITY IN THE NORTH-EASTERN WHEATBELT	E.J. HAUCK
133.	DEEP DRAINS - A CASE STUDY AND DISCUSSION	R.J. SPEED J.A. SIMONS
134.	LAND RESOURCES OF THE KELLERBERRIN REGION	W.M. McARTHUR
135.	FODDER TREES AND SHRUBS FOR HIGH RAINFALL AREAS OF SOUTH WESTERN AUSTRALIA	D.M. PATABENDIGE P.R. SCOTT E.C. LEFROY
136.	LANDPROC (VERSION 3.2) - A LAND CAPABILITY ASSESSMENT PROGRAME FOR A PERSONAL COMPUTER	T.D. OVERHEU B. KIPLING P.D. KING
137.	METHODS FOR CALCULATING SOLAR POSITION AND DAY LENGTH INCLUDING COMPUTER PROGRAMS AND SUBROUTINES	M.L. RODERICK

RESOURCE MANAGEMENT TECHNICAL REPORTS, ISSN 1039-7205

138.	THE ROLE OF TREES IN SUSTAINABLE AGRICULTURE, A NATIONAL CONFERENCE, REPRINTS OF WESTERN AUSTRALIAN PAPERS	P.R. SCOTT
139.	ECONOMICS OF FARM WATER SUPPLY IN WESTERN AUSTRALIA	K. WHITE E. HAUCK
140.	DATA SET AND CODE DEFINITIONS FOR SOIL PROFILE DESCRIPTION (DAWA REGIONAL MAPPING PROGRAM)	B.R. PURDIE
141.	RANGELAND REFERENCE AREAS	D. BLOOD
142.	FLORISTIC SURVEY OF REMNANT VEGETATION IN THE BINDOON TO MOORA AREA, WESTERN AUSTRALIA	E.A. GRIFFIN
143.	FLORISTIC SURVEY OF REMNANT VEGETATION IN THE DANDARAGAN AREA, WESTERN AUSTRALIA	E.A. GRIFFIN

* Not in print.