A checklist of the plants of Mahwaqa Mountain, KwaZulu-Natal

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ABSTRACT

A checklist of the plants of Mahwaqa Mountain, KwaZulu-Natal, is presented. The list includes 1 030 indigenous and naturalized flowering plants and ferns. Comparisons are made with the floras of KwaZulu-Natal (Ross 1972), the Cape of Good Hope Nature Reserve, Cape Point (Taylor 1985), the southern Natal Drakensberg (Hilliard & Burtt 1987), the Amatolas (Phillipson 1987), the Langeberg (McDonald 1999) and Umtamvuna Nature Reserve (Abbott et al. 2000). It is hoped that the publication of this list will contribute towards the recognition of the area as a natural heritage site.

INTRODUCTION

The Grassland Biome covers 343 000 km² or 16.5% of the land area in South Africa and supports the greatest human population densities and the highest levels of agricultural utilization on the subcontinent, consequently it is under considerable conservation threat. Only 1.12% of South African grasslands are currently conserved despite the fact that they contain high levels of floristic diversity (Rutherford & Westfall 1994). Some idea of the heterogeneity of the Grassland Biome can be gleaned from the fact that it accommodates 25 of Acocks’s veld types. Comparative aspects of biodiversity are limited by size disparity in the geographic areas under consideration. However, it is pertinent to mention that our collections from this single mountain exceed 1 000 spp. and the whole of the Cape Peninsula was estimated to support in the region of 2 622 spp. (Adamson & Salter 1950).

Mahwaqa Mountain falls into the Zambezian Sub-region which boasts a number of endemic genera, most of which are concentrated in Angola and in the Drakensberg system, in fact the latter is characterized by a high percentage of local endemics (Takhtajan 1986; Hilliard & Burtt 1987; Cowling & Hilton-Taylor 1997). The mountain falls under Acocks’s (1988) Veld Type 44a. Highland Sourveld. About 51.3% of this veld type occurs in KwaZulu-Natal and, of this, 8.7% is protected. Unfortunately, the great majority of conserved vegetation falls within a single reserve, Natal Drakensberg Park, and consequently geographic diversity is under-represented (Scott-Shaw et al. 1996). To address this problem it is essential to have information pertaining to the floristic diversity in geographically distinct areas. In this way the conservation importance of such areas, under the threat of agricultural exploitation, can be assessed in some detail.

Mahwaqa Mountain is an outlier of the main Drakensberg and is situated about 50 km to the south of Drakensberg Gardens between 29° 40’S and 29° 50’S latitude and 29° 38’W and 29° 40’W longitude. The mountain is almost completely surrounded by cultivated land, with the Mossbank Plantation to the south and farmlands to the north, east and west. This situation is dynamic with an ever increasing number of farmers planting exotic timber.

The mountain lies within Turner’s (Philips 1973) physiographic region—Bulwer Block—with an altitudinal range of 1 700 m to almost 2 000 m above sea level. The highest point of Mahwaqa Mountain (2 075 m) comprises a basalt cap overlying Clarens Sandstone, with yellow and red apedal, freely drained, dystrophic soils, which have a tendency to be highly leached (Van Oudtshoorn 1992).

Mahwaqa is in the summer rainfall region of southwestern KwaZulu-Natal, with peak precipitation between November and March (Schulze 1982). The summit of the mountain is largely grassland, but intact patches of indigenous forest occur in the sheltered areas, from which fire is excluded, and the largest of these is Inkelabantwana Forest.

The vegetation on a large portion of the mountain is fairly pristine and forms part of a biosphere reserve. Extensive collections have been made by M.A. Rennie on Sunset and Glengariff Farms which are adjacent to the biosphere reserve and reach a maximum elevation of 1 985 m.

MATERIALS AND METHODS

Provisional species inventories for the area were obtained from M.A. Rennie and species lists (no voucher specimens) were provided by R. Scott-Shaw and K. Cooper. In most instances this information was verified and supplemented by a study of herbarium specimens in the Natal University Herbarium (NU) and by a literature search. PRECIS [National Herbarium, Pretoria (PRE) Computerised Information System] was consulted and the relevant data was extracted and cross-referenced with voucher specimens at PRE. For the most part, the arrangement of the checklist conforms to the Englerian
RESULTS AND DISCUSSION

The flora of Mahwaqa Mountain includes well over 1 000 indigenous species (Table 1) and this constitutes over 21% of the diversity in KwaZulu-Natal (with the total number of Anthophyta for KwaZulu-Natal being 4 875; Hilliard & Burtt 1987). This α-diversity compares favourably with the Amatole Mountains, 1 215 spp. (Phillipson 1987), the Langeberg, 1 228 spp. (McDonald 1999) and Umtamvuna Nature Reserve, 1 332 spp. (Abbott et al. 2000).

There are 45 pteridophytes comprising 4.4% of the mountain's flora. The ratio of monocotyledons to dicotyledons on Mahwaqa is 1: 2.1. Ten families of flowering plants are very well represented and collectively constitute over half (53%) of the total species (Table 2). Nineteen families each contribute more than 1% to the total number of species, collectively accounting for 67% of the species. It is interesting to note that the diversity of pteridophytes is high at the family level but low at the species level. Conversely, the monocotyledons show a trend with proportional increments at the generic and species levels. This possibly indicates a fairly low number of families rapidly speciating in conjunction with a widespread diversity of the Grassland Biome.

The floristics of many South African habitats are dominated by the Asteraeae (Taylor 1985; Westfall et al. 1986; Hilliard & Burtt 1987; Van Wyk et al. 1988; Deall & Backer 1989). This family is also dominant on Mahwaqa Mountain (15.6%, Tables 2; 3). Asteraeae is represented by fewer species on Mahwaqa than in the southern Drakensberg, but are better represented on the Mountain than in KwaZulu-Natal as a whole (Table 3). This trend in the data was expected, as Asteraeae is the largest family in KwaZulu-Natal and its highest diversity occurs in the Drakensberg (Hilliard 1978). The family is characterized by speciation in the Grassland Biome, the major habitat on Mahwaqa Mountain. The higher species diversity recorded in the southern Drakensberg (Hilliard & Burtt 1987) probably reflects the recruitment of Cape elements in this region and the Amatolas and Langeberg show similar levels of diversity (Table 4). Within the Asteraeae a number of southern Drakensberg endemics have been recorded from the mountain including Felicia linearis, Helichrysum sessiloides, H. vernum, Osteospermum attenuatum, Othonna burttii, Senecio dregeana var. barbuligera, Cynodon hirsutus, Digitaria tricholaenoides, Helichtrichon longifolium, Merxmuullera stricta, Pentaschistis exserta, P. setifolia, Setaria obscura and Sporobolus pectinatus). The family is less speciose for the south and accounts for only 3% of the diversity on the Langeberg, where fynbos dominates (Table 5).

The apparent disparity between Table 2 and 3 with respect to the position of the Fabaceae is the result of the Lilieaeae s.l. being treated as a single entity in Table 3 and being reduced to its component families in Table 2. This modification allows direct comparison with Hilliard (1978) and Ross (1972) which deal with Lilieaeae s.l. Table 2, Fabaceae is fourth on the list of species contributors. Hilliard & Burtt (1987) state that Fabaceae is the second most diverse family in the study area (Tables 2; 3), dominating in terms of biomass, as the mountain falls primarily within the Grassland Biome. Grasses also constitute one of the main contributors to the Natal flora (Hilliard 1978). Gibbs Russell et al. (1990) identified a number of endemic Drakensberg grasses, some of which occur on the mountain (Agrostis barbuligera var. barbuligera, Cynodon hirsutus, Digitaria tricholaenoides, Helichtrichon longifolium, Merxmuullera stricta, Pentaschistis exserta, P. setifolia, Setaria obscura and Sporobolus pectinatus). The family is less speciose for the south and accounts for only 3% of the diversity on the Langeberg, where fynbos dominates (Table 5).

Table 1—Number of families, genera and species of Pteridophyta, Monocotyledoneae and Dicotyledoneae recorded on Mahwaqa Mountain, KwaZulu-Natal.

| Family      | No. | %   | No. | %   | No. | %   | Total |
|-------------|-----|-----|-----|-----|-----|-----|-------|
| Families    | 17  | 12.6| 22  | 16.3| 96  | 71.1| 135   |
| Genera      | 25  | 5.5 | 132 | 29.3| 294 | 65.2| 451   |
| Species     | 45  | 4.4 | 322 | 31.3| 663 | 64.4| 1030  |

Table 2—Synopsis of families which contribute 1% or more of total number of species for Mahwaqa, together with number of genera in each family.

| Family      | Genera | % of total | Species | % of total |
|-------------|--------|------------|---------|------------|
| Asteraeae   | 168    | 16.0       | 285     | 21.4       |
| Poaceae     | 91     | 9.4        | 108     | 8.1        |
| Orchidaceae | 85     | 7.9        | 83      | 6.2        |
| Liliaceae   | 60     | 5.8        | 84      | 6.3        |
| Fabaceae    | 55     | 5.1        | 65      | 4.9        |
| Scrophulariaceae | 44  | 4.2    | 79      | 6.0        |
| Iridaceae   | 43     | 3.9        | 65      | 4.9        |
| Asclepiadaceae | 33  | 3.1    | 44      | 3.3        |
| Gentianaceae| 26     | 2.3        | 59      | 4.4        |
| Euphorbiaceae| -     | -        | -       | -          |

Table 3—The nine largest families and their contribution to the floras of Mahwaqa Mountain, the southern Drakensberg and KwaZulu-Natal (with Scrophulariaceae including Selaginaceae and Lilieaeae s.l.).

| Family      | sp | % | sp | % | sp | % |
|-------------|----|---|----|---|----|---|
| Asteraeae   | 168| 16.0| 285| 21.4| 577| 11.8|
| Poaceae     | 91 | 8.4| 108| 8.1| 370| 7.6|
| Orchidaceae | 85 | 7.9| 83 | 6.2| 218| 4.5|
| Liliaceae   | 60 | 5.8| 84 | 6.3| 247| 5.1|
| Fabaceae    | 55 | 5.1| 65 | 4.9| 413| 8.4|
| Scrophulariaceae | 44| 4.2 | 79 | 5.9| 177| 3.6|
| Iridaceae   | 43 | 3.9| 65 | 4.9| -  | -  |
| Asclepiadaceae | 33| 3.1 | 44 | 3.3| 234| 4.8|
| Gentianaceae| 26 | 2.3| 59 | 4.4| 59 | 1.1|
| Euphorbiaceae| - | - | -  | - | -  | -  |
The Orchidaceae is well represented in mountain floras of the eastern seaboard and is the third most speciose family on Mahwaqa Mountain (85 taxa) and the fourth most in the southern Drakensberg (83 spp.). Only two of the Mahwaqa species are narrow endemics, *Huttonaea oreophila* and *Pterygodium cooperi*. The diversity of orchids on Mahwaqa and in the southern Drakensberg is higher than in any of the compared areas (Tables 3–5).

The *Iridaceae* contributes 5.8% or 60 spp. to the Mahwaqa flora (Table 3), which correlates closely with the family's importance in the southern Drakensberg (6.3% or 84 spp.) and for the flora of KwaZulu-Natal (247 species or 5.1%). When broken down into component families (*sensu* Dahlgren et al. 1985) the *Hyacinthaceae* is best represented in the southern Drakensberg with 34 species (Hilliard & Burtt 1987). This pattern is repeated on Mahwaqa Mountain where 29 species of *Hyacinthaceae* occur (2.7%). The *Asphodelaceae* is also well represented on the mountain with 23 species compared with the 19 species listed by Hilliard & Burtt (1987) for the southern Drakensberg. In *Kniphofia*, a number of species are outlined as narrow endemics by Codd (1968) and of these *K. ichopensis*, *K. bractystachya* and *K. fibrosa* occur on Mahwaqa Mountain. The area is also the northern limit of *K. parviflora*.

The *Iridaceae* contributes a large number of species (43 or 4%) to the Mahwaqa Mountain flora (Table 2). The family has a peak of diversity in the mountains and winter rainfall areas of sub-Saharan Africa (Goldblatt 1983) (Table 4). The *Iridaceae* is the seventh largest family in the southern Drakensberg (65 or 4.9%) (Hilliard & Burtt 1987) and similar levels of diversity are seen on the Langeberg (5%) (McDonald 1999). Five of the species recorded from Mahwaqa are endemic to the southern Drakensberg, *Moraea hiemalis*, *M. unibracteata*, *M. carnea* (Goldblatt 1986), *Gladiolus parvulus* (Goldblatt & Manning 1998) and *Hesperantha grandiflora* (Hilliard & Burtt 1986).

*Scrophulariaceae* (including *Selaginaceae*) are important in the southern Drakensberg where they constitute 5.9% of the species (Hilliard & Burtt 1987). On Mahwaqa the family is slightly less important, contributing 4.2% or 44 species which is comparable to that for KwaZulu-Natal at 3.6% (Hilliard & Burtt 1987). This diversity includes three narrowly distributed species, *Manulea florifera*, *Nemesia silvatica* and *Diascia megathura*.

The *Asclepiadaceae*, now included under *Apocynaceae* (Leistner 2000), display similar levels of diversity on Mahwaqa and in the southern Drakensberg (3.1% and 3.4% respectively), but these levels are considerably lower than the diversity in KwaZulu-Natal (Ross 1972). This is probably due to the exclusion of tropical and xerophytic species from the montane habitats. A number of mesic asclepiads appear to have speciated in the Natal Drakensberg and of these *Aspidonepsis flava*, *A. reenenisis*, *A. diploglossa* and *Schizoglossum elingue* subsp. *elingue* have been recorded on the Mountain. A comparison with floristic inventories to the south, show that the *Asclepiadaceae* are insignificant in their contribution to the flora of the Langeberg.

A few other near-endemic species occur in the less diverse families on the mountain. These include: *Pseudanthera dothei* (*Asteraceae*), *Geranium pulchrum* (*Geraniaceae*), *Gnidia remniana* (*Thymelaeaceae*), *Gynnosporia uniflora* subsp. nov. (M. Jordaan pers. comm.) (*Celastraceae*), *Afrozysonia ochidiatata* (*Boraginaceae*).

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**TABLE 4.**—Genera which contribute 10 or more species to the flora of Mahwaqa Mountain (M) in order of numerical importance and in relation to the floras of the southern Drakensberg (SD), Amatolas Mountains (A), Langeberg (L), Cape Point (CP), and Umtamvuna Nature Reserve (UNR).

| Genus                  | M | SD | A | L | CP | UNR |
|------------------------|---|----|---|---|----|-----|
| *Helichrysum* (Asteraceae) | 39 | 84 | 48 | 15 | 10 | 34  |
| *Senecio* (Asteraceae)   | 37 | 72 | 46 | 24 | 19 | 26  |
| *Disa* (Orchidaceae)     | 16 | 24 | 13 | 27 | 11 | 10  |
| *Kniphofia* (Asphodelaceae) | 14 | 14 | 6  | 1  | 1  | 5   |
| *Asclepias* (Asclepiadaceae) | 12 | 6  | 0  | 6  | 0  | 2   |
| *Aspleniaceae* (Aspleniaceae) | 12 | 7  | 12 | 3  | 1  | 4   |
| *Lotononis* (Fabaceae)   | 12 | 11 | 2  | 2  | 0  | 5   |
| *Crasvula* (Crassulaceae) | 11 | 17 | 13 | 8  | 17 | 12  |

**TABLE 5.**—The ten most speciose families on Mahwaqa Mountain and their relative diversity on the Amatolas Mountains (Phillipson 1987), Langeberg (McDonald 1999), Cape Point (Taylor 1985) and Umtamvuna Nature Reserve (Abbott et al. 2000).

| Family     | Mahwaqa spp. % | Amatolas spp. % | Langeberg spp. % | Cape Point spp. % | Umtamvuna spp. % |
|------------|----------------|-----------------|------------------|-------------------|------------------|
| Asteraceae | 168            | 15              | 204              | 17                | 167              |
| Poaceae    | 91             | 8               | 80               | 7                 | 41               |
| Orchidaceae| 85             | 8               | 53               | 4                 | 56               |
| Liliaceae s.l. | 60 | 6               | 54               | 4                 | 28               |
| Fabaceae   | 55             | 5               | 67               | 6                 | 93               |
| Scrophulariaceae | 44 | 4            | 43               | 3                 | 27               |
| Irisaceae  | 43             | 4               | 33               | 3                 | 55               |
| Asclepiadaceae | 33 | 3            | 27               | 2                 | 4                |
| Cyperaceae | 26             | 2               | 61               | 5                 | 56               |

Total spp no. (vascular plants) 1080 1215 1228 1091 1332
Natureja reptans and Hemiocygia cinerea (Lamiaceae), Wahlenbergia pallidiflora (Campanulaceae), Cyphia natalensis (Lobeliaceae).

Table 4 shows that eight genera have 10 species or more, with Senecio and Helichrysum contributing 37 and 39 species respectively.

It is clear from the data above that Mahwaza Mountain supports a highly diverse flora and is a strong candidate for long-term preservation. The area approaches the Amatola and the Langeberg Mountains in terms of its alpha-diversity despite being a fraction of the land area. In addition, alpha-diversity is comparable to that of Umtamvuna Nature Reserve of the Pondoland Centre, which is renowned for its phytodiversity (Van Wyk 1990, 1994). The levels of endemism are considerably lower than those of the Langeberg and the Pondoland Centre, although numerous southern Drakensberg endemics occur on the mountain.

One of the most insidious threats to the diversity of indigenous grasslands, is their invasion by opportunist seedlings from timber plantations. This threat is in the form of timber species, such as eucalypts and pines, as well as weeds from these plantations. Changing burning regimes, due to the high risk that fire poses to timber plantations, allow the proliferation of woody species which are intolerant of fire. Pyrophytes, which constitute the bulk of the indigenous vegetation, are rapidly lost from these altered moribund habitats. The ubiquitous and irresponsible degradation of grasslands in KwaZulu-Natal is a serious indictment on agroforestry in the area. The vegetation ecology of the Eastern Transvaal Escarpment in the Sabie area. 3. Annotated checklist. Bothalia 19: 91-110.

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* Naturalized weeds. Italicized names in square brackets are synonyms in PRECIS.

** HEPATOPHYTA

RICCIACEAE
Riccia stricta (Lindb.) Perrol.

MARCHANTIACEAE
Marchantia cf. polymorpha L.

AYTONIACEAE
Asterella sp.

ANTHOCEROTACEAE
Anthoceros sp.

** BRYOPHYTA

FISSIDENTACEAE
Fissidens glaucescens Hornsch.

DITRICHACEAE
Ditrichum brachypodum (Mull. Hal.) Brid.

DICRANACEAE
Ditrichum brachypodum (Mull. Hal.) Broth.

PLAGIOCHILACEAE
Plagiochila sp.

POLYTRICHACEAE
Polytrichum cf. afroluevigatum (Dixon) G.L. Smith.

** ANTHOCEROTOPHYTA

ANTHOCEROTACEAE
Anthoceros sp.

** Olficulate Weeds. Italicized names in square brackets are synonyms in PRECIS.

** PTERIDOPHYTA

LYCOPODIACEAE
Lycopodium clavatum L. Rennie 680 NU

SELAGINELLACEAE
Selaginella kraussiana (Kunze) A. Braun ex Kuh., Edwards 2203 NU

EQUISETACEAE
Equisetum rarissimum Desf. Rennie 1752 NU

OPHIOGLOSSACEAE
Ophiopogon vulgaris L. Rennie 1766 NU

ANEMIACEAE
Mohria californica (L.) Desv. Rennie 917 NU

GLEICHENIACEAE
Gleichenia umbellulifera (Kunze) T. Moore. Rennie 670 NU

CYATHEACEAE
Cyatheae dregae Kunze. Rennie s.n. NU

PTERIDACEAE
Adiantum punctatum Wikstr. Edwards 1982 NU

CHLOROPHYLLACEAE
Chlorophyllum polyoides (L.) Prantl. Rennie 904 NU

POLYPODIACEAE
Polypodium vulgare (L.) Bernh. Clarkson s.n. NU

NEMESIACEAE
Nemesia decorata (Sw.) A. Moore. Rennie 514 NU

** ASPLENIACEAE

Asplenium adiantum-nigrum (L.) Bernh. Clarkson s.n. NU

** TECIACEAE

Tecia capensis (Sw.) M. H. Smith. Clarkson s.n. NU

** DRYOPTERIDACEAE

Dryopteris filix-mas (L.) Bernh. Clarkson s.n. NU

** CYPRESSACEAE

Cupressus arizonica (L.) Bernh. Clarkson s.n. NU

** Lycopodiaceae

Lycopodium clavatum L. Rennie 680 NU

** Selaginellaceae

Selaginella kraussiana (Kunze) A. Braun ex Kuh. Edwards 2203 NU

** Equisetaceae

Equisetum rarissimum Desf. Rennie 1752 NU

** Ophioglossaceae

Ophiopogon vulgaris L. Rennie 1766 NU

** Anemiaceae

Mohria californica (L.) Desv. Rennie 917 NU

** Gleicheniaceae

Gleichenia umbellulifera (Kunze) T. Moore. Rennie 670 NU

** Cyatheaceae

Cyatheae dregae Kunze. Rennie s.n. NU

** Pteridaceae

Adiantum punctatum Wikstr. Edwards 1982 NU

** Chlorophyllaceae

Chlorophyllum polyoides (L.) Prantl. Rennie 904 NU

** Polyplodiaceae

Polypodium vulgare (L.) Bernh. Clarkson s.n. NU

** Nemesiaceae

Nemesia decorata (Sw.) A. Moore. Rennie 514 NU

** Asplenaceae

Asplenium adiantum-nigrum (L.) Bernh. Clarkson s.n. NU

** Tectariae

Tectia capensis (Sw.) M. H. Smith. Clarkson s.n. NU

** Dryopteridaceae

Dryopteris filix-mas (L.) Bernh. Clarkson s.n. NU
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Dryopteris

Elaphoglossum

Blechnum

Tvpha capensis

TYPHACEAE

Podocarpus

APONOGETONACEAE

Elionurus muticus

Microstegium nudum

Imperata cylindrica

Andropogon

Eulalia villosa

Miscanthus capensis

Trachypogon spicatus

Hemarthria altissima

Oplismenus hirtellus

Themeda triandra

Hyparrhenia

Diheteropogon

Echinochloa crus-galli

Setaria

Panicum

transvaalense

athamantica

pungens

Kunze) Moore. Rennie 546: Edwards 1943

luctuosum (Schltdl.) Kuntze, Edwards 2210

attennuatum (Su'.j latifolius eucomus plurinodis hirta validus ecklonii obscura

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Bothalia 32.1 (2002)

Cyperus (cont.)
- Pterysetis Kunt, var. pterysetis, Edwards 2060 NU
- seminiflorus Schrad. var. seminiflorus, Feltham 44 NU

Pycreus
- bertschianus (Boeck.) C.B.Clarke, Renne 1690 PRE
- flavescens (L.) Rchb., Feltham 190 NU
- oaksfornicis C.B.Clarke, Renne 1413 NU

Mariscus
- congestus (Nahl) C.B.Clarke, Renne 1037 NU
- solidus (Kunth.) Vorster, Edwards 2202 NU

Ficinia stolonifera Boeck., Renne s.n.

Fuirena pubescens (Poir.) Kunt, Renne 1277 NU, 1554 PRE

Scirpus falsus C.B.Clarke, Feltham 180 NU

Isolepis
- costata A.Rich. var. macra (Boeck.) B.L.Burr, Renne s.n.
- maritis (L.) R.Br., Renne 1553 NU

Bulbostylis
- humilis (Kunth) C.B.Clarke, Feltham 343 NU

Schoenoxiphium
- rhynchospora brownii Roem. & Schult., Renne s.n.

Rhynchospora congesta (Boeck.) A.Rich., Feltham 3725 NU

ARACEAE

Carex
- ovatifolia Ehrh., Renne 1145 NU

Commelina africana (L.) Baker. ex Schinz., Rennie 675 NU

COMMELINACEAE

Zantedeschia
- aethiopica (L.) Spreng., Renne 1020 NU

XYRIDACEAE

Xyris
- capensis Thunb., Feltham 148 NU
- gerrardii N.E.Br., Feltham 259 NU

ERIOCAULACEAE

Eriocaulon dregeri Hochst. var. sonderianum (Koern.) Oberm., Renne 1350 NU

CLEPIDACEAE

Sandersonia aurantia Jacq., Hook., Feltham 86 NU

Asparagus
- longipes (Boeck) Nordal. Rennie 787 NU

COLCHICACEAE

Sanderia modesta Hook., Feltham 79 NU

ASPHEDELACEAE

Ballina
- caperata Poelln., Rennie 1195 NU

Trachyandra
- asperata Kunt, Renne 455 NU

Drimia
- eucalyptus (L.) Moench. Feltham 199 NU

PERUMILIAEACEAE

Eriocaulon stamina subsp. triangularis, IV Rennie 1554 NU

ANTHERICACEAE

Chlorophyrtum
- acutum (C.H.Wright) Nordal, Feltham 206 NU, Rennie 1734 PRE

ANTHERICACEAE

Comosum (Thunb.) Jacq., Rennie 1122 NU

Hyacinthaceae

Bowisea volubilis Harv. ex Hook.f., Renne 736; Edwards 1934 NU

Araloe
- fastigiata (L.f.) Dryand., Renne 533 NU

Bulbine
- nobilis Baker. Rennie 276 NU

Ledebouria
- macrocarpa Baker, Renne 1291 NU

Sedra
- xanthochordon Hilliard & B.L.Burr, Renne 35 NU

Urginea
- calcarata (Baker) Hilliard & B.L.Burr, Renne 598 NU

Peech (L.) Hook., Renne 45 NU

SAMPHRACEAE

Agapanthus campanulatus Thunb., Hook., Feltham 1554 PRE

AMARYLLIDACEAE

Haemanthus humilis Mill., Rennie 396 NU

Eucome
- autumnalis (Mill.) Chat. subsp. clavata (Baker) Reyneke, Renne 810 NU

Aloe
- ecklonis Salm-Dyck, Renne 214 NU

Luzuriaga
- aethiopica (Baker) Oberm., Rennie 842 NU

ASPARAGACEAE

Asparagus
- africanus Lam., Renne 595 NU [Protasparagus africanus (Lam.) Oberm.]
- virgatus Baker, Feltham 355 NU [Protasparagus virgatus (Baker) Oberm.]
- ramosissimum Baker, Renne 716 NU [Merypallium ramosissimum (Baker) Oberm.]

LUCURIRIACEAE

Behnia reticulata (Thunb.) D.Don., Feltham 234 NU

AMARYLLIDACEAE

Haemanthus humilis Jacq. subsp. hirsutus (Baker) Snijman, Renne 618 NU

Scadoxus puniceus (L.) Fris & Nordal, Renne 839 NU
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Nerine appendiculata Baker, Feltham 406 NU
Brasnagia
grandiflora Lindl., Rennie 925 NU
natalensis Baker, Rennie 908 NU
undulata F.M.Leycht., Rennie 1123 NU
Apodolirion buchananii Baker, Rennie 2551 NU
Cyrtanthus
breviflorus Harv., Rennie 600 NU
tuckii Baker, Rennie 597 NU

HYPOXIDACEAE
Empodium monophyllum (Ne) B.L.Bartt, Rennie 79 NU
Hyposis
filiformis Baker, Feltham 169 NU
galpinii Baker, Edwards 2027 NU
gerrardi Baker, Rennie 91 NU
hemerocallidea Frisch. & C.A.Mey., Rennie 1860 NU
iridiolos Baker, Rennie 610 NU
laeila Nel, Rennie 1841 NU
parvula Baker var. parvula, Feltham 140 NU
Rhodohypoxis
baurii (Baker) Nel
var. platypetalum var. millioides (putative hybrid), Rennie 70 NU
millioides (Baker) Hilliard & B.L.Bartt, Rennie 236 NU

VELOZIACEAE
Xerophyta viscosa Baker, Rennie 451 NU

DIOSCOREACEAE
Dioscorea
dregeana (Kuntl) T.Durand & Schinz, Edwards 1955 NU
tupicola Kuntl, Rennie 2526 NU
tysoni Baker, Rennie 1585 NU

IRIDACEAE
Morea
brevistyla (Goldblatt) Goldblatt, Rennie 1560 NU
carnea Goldblatt, Rennie 1499 NU
hemalis Goldblatt, Rennie 572 NU
huttonii (Baker) Oberm., Rennie 839 NU
inclinata Goldblatt, Rennie 863 NU
modest Killick, Rennie 769 NU
spathulata (L.f.) Klatt, Rennie 1859 NU
stricta Baker, Rennie 749 NU
trifida R.C.Foster, Rennie 1248 NU
unbriacetae Goldblatt, Rennie 1348 NU
Dietes iridoides (L.) Sweet ex Klatt, Edwards 2056 NU
Aristea
cognata N.E.Br. ex Weim., Feltham 49 NU
woodii N.E.Br., Feltham 420 NU

Hesperantha
baurii Baker, Edwards 1999 NU
glareosa Hilliard & B.L.Bartt, Rennie 1215 NU
grandiflora G.Lewis, Rennie 567 NU
hygrophila Hilliard & B.L.Bartt, Rennie 731 NU
tysoni Baker, Rennie 409 NU
vernalis Hilliard & B.L.Bartt, Rennie 751 NU

Dracena
argyreu L.Bolus, Rennie 433 NU
dissimile Hilliard, Rennie 1251 NU
dracomontanum Hilliard, Rennie 1152 NU
galpinii N.E.Br., Rennie 847 NU
latticinum N.E.Br., Rennie 971 NU
pauclorum N.E.Br., Feltham 23 NU
trichorhizum (Baker) N.E.Br., Rennie 1146 NU
Tritonia lineata (Salisb.) Ker Gow!, Rennie 47 NU

Crocosmia
aurea (Fpppe ex Hook.) Planch., Feltham 405 NU
paniculata Klatt Goldblatt, Rennie 580 NU
potssii (Munab ex Baker) N.E.Br., Rennie 532 NU

Gladiolus
crassifolius Baker, Rennie 349 NU
daleni Van Greel, Edwards 2057 NU
ecklonii Lehm., Rennie 2691 NU
longicollis Baker, Rennie 710 NU
oppositiflorus Herb. Rennie 531 NU [G. oppositiflorus Herb. subsp. salmonoae (Bakers Oerm.]
pupillo Hook.f., Rennie 264 NU
parvulus Schitr, Rennie 1158 NU
pubigerus G.Lewis, Rennie 1252 NU

pugioniformis Hilliard & B.L.Bartt, Rennie 773 NU
sericissivilliosa Hook.f., Edwards 2014 NU
Watsonia
densiflora Baker, Rennie 9899 NU
lepta N.E.Br., Rennie 1154 NU
Freesia laxa (Thum.) Goldblatt & J.C.Manning [Anamathaea laxa (Thum.) Goldblatt]

ORCHIDACEAE
Stenoglottis fimbrriata Lindl., Edwards 2053 NU
Holothrix scopularia (Lindl.) Rchb.f., Rennie 148 NU
Hattonaea
grandiflora (Schlr.) Rolfe, Rennie 1136 NU
oreophila Schitr, Rennie 1010 NU
pulchra Harv., Rennie 796 NU

Habenaria
ciliosa Lindl., Rennie 2502 NU
dives Rchb.f., Feltham 117 NU
dregeana Lindl., O'Connor s.n. NU
epipactidea Rebh. f., Rennie 903 NU
laevigata Lindl., Rennie 654 NU
lithophila Schitr, Rennie 746 NU

Brunsvigia
pubigerus
var. oppositiflorus Ecklonii, N.E.Br.

Hypoxis
var. hystrix

Dracontium
trifidum

Dierama

Satyrium
bracteatum (L.f.) Thum. Rennie 1285 NU

Anomatheca laxa (Thunb.) Goldblatt)

Freesia laxa (Thum.) Goldblatt & J.C.Manning [Anamathaea laxa (Thum.) Goldblatt]
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Corydium

dracomontanum Parkman & Schelpe, nigrescens Sond., Rennie 295 NU

Liparis bowkerti Harv., Edwards 1931 NU

Polystachya ottoniana Rchb.f., Edwards 2023 NU

Euphoria

aeuleata (L.f.) Spreng. subsp. buttonii (Rolle) A.V.Hall, Rennie 229 NU
calaniholides Schltr., Rennie 642 NU
clovicornis Lindl. var. clavicornis, Rennie 77 NU
var. inaequivalis (Schltr.) A.V.Hall, Rennie 1727 NU
var. nutans (Sond.) A.V.Hall, Rennie 622 NU
foliosa (Lindl.) Bolus, Rennie 273 NU
leontoglossa Rchb.f., Feltham 111 NU
ovalis Lindl., Rennie 1240 NU
tenella Rchb.f., Rennie 174 NU
czheyriana Sond., Rennie 283 NU

Diaphanantothe caffra (Bolus) H.P.Linder, Rennie 1988 NU

Mystacidium

flattanagii (Bolus) Bolus, Rennie 835 NU

gracile (Rchb.f.) Harv., Rennie 1318 NU

Tridactyle tricuspid (Bolus) Schltr., Edwards 2024 NU

ANGIOSPERMAE-DICOTYLEDONAE

PIPERACEAE

Peperomia

retusa (L.f.) A.Dietr., Rennie 1968 PRE

tetraphylla (G.Forst.) Hook. & Arn., Rennie 110 NU

SALICACEAE

Salix

*babylonica L., Rennie 1141 NU

macronata Thunb. subsp. woodii (Seemen) Immelman, Edwards 2058 NU

ULMACEAE

Celtis africana Burtt, Feltham 224 NU

MORACEAE

Ficus

burt-davyi Hutch., Cooper's list

natalensis Hochst., Cooper's list

URTICACEAE

Urtica lobiflata Blume, Rennie 406 NU

Laportea

alatipes Hook.f., Edwards 2045 NU

peduncularis (Wedd.) Chev., Edwards 2206 NU

Droguetia ambigu Wedd., Edwards 1961 NU

PROTEACEAE

Protea

caffra Meisn., Rennie 840 NU

rupsea Meisn., Rennie 645 NU

simplex E.Phillips. McClean 215 PRE

SANTALACEAE

Oxydendrops schimperianus (Hochst. ex A.Rich.) A.DC., Rennie 2499 NU

Theasium

acutissimum A.DC., Rennie 1562 E

cupressoides A.W.Hill, Feltham 154 NU

imbricatum Thunb., Rennie 1858 NU

scirpisoides A.W.Hill, Rennie 613 NU

zeyheri A.DC., Rennie 25 NU

POLYGONACEAE

Rumex

acetosella L. subsp. angiocarpus (Marth.) Marth., Rennie 33 NU

*crispos L., Rennie 1745 NU

* sagittatus Thunb., Rennie 1950 PRE

stiedlin Hochst. ex A.Rich., Rennie 1747 NU

woodii N.E.Brit., Rennie 432 NU

Persicaria

*nepalensis (Meisn.) H.Gross, Rennie 1105 NU

serrulata (Lag.) Webb & Moq., Rennie 368 NU

CHENOPODIACEAE

Chenopodium

*album L., Rennie 660 NU

*ambrosioides L., Rennie 1065 NU

AMARANTHACEAE

* Arachniophila hystrix L. subsp. hybridus, Rennie 1789 NU

Cyathula cylindrica Moq., Rennie 1625 NU

*Achyranthes aspera L. var. sicca L., Rennie 1618 NU

AZOACEAE

Psammotropia

macronata (Thunb.) Fenzl var. macronara, Crouch 281 NU

myranta Sond., Rennie 441 NU

PHYTOLACCACEAE

Phytolaca

heptandra Retz., Rennie 531 NU

octandra L., Rennie 97 NU

MESEMBRYANTHEMACEAE

Delosperma

alticolum L.Bolus, Rennie 621 NU

galpinii L.Bolus, Rennie 150 NU

obtusum L.Bolus, Rennie 1024 E

PORTULACACEAE

Portulaca kermesina N.E.Br., Rennie 1023 NU

CARYOPHYLLACEAE

Cerastium

arabidis E.Mey. ex Fenzl., Rennie 87 NU

capense Sond., Rennie 849 NU

dicymum Wight & Arn., Rennie 364 NU

Drymaria cordata (L.) Wild. ex Roem & Schult. subsp. diandra

(Blume) J.Duke, Edwards 1939 NU

Silene

burchellii Orth

var. burchellii, Rennie 883 NU

var. latifolia Sond., Rennie 1016 NU

pilosellafloria Cham. & Schult., Rennie 445 NU

undulata Aiton, Rennie 476 NU

Dianthus

busaticus Bartt Davy, Rennie 1890 NU

mooensis F.N.Williams, Rennie 452 NU

RANUNCULACEAE

Anemone caffra Eckl. & Zeyh., Hilliard & Bartt 7169 NU

Clematis brachiata Thunb., Rennie 927 NU

Ranunculus

baurii Macowan, Rennie 454 NU

meyeri Harv., Rennie 111 NU

multifidas Forsk., Hilliard & Bartt 7171 NU

Thalictrosum rhynochocarpum Quart.-Dill. & Rich., Feltham 78 NU

MENISPERMACEAE

Cissampelos turulosa E.Mey. ex Harv., Edwards 1949 NU

TRIEMINACEAE

Xyralos monospora (Harv.) Baill., Edwards 1941 NU

LAURACEAE

Ocotea bullata (Burch.) Baill., Edwards 2059 NU

Cryptocarya

myrtifolia Stapf, Cooper's list

woodii Engl., Feltham 221 NU

PAPILARCEAE

*Argemone mexicana L., Rennie 1730 NU

Papaver aculeatum Thunb., Rennie 877 NU

FUMARICACEAE

Cystisapnos prinoua (Bernh.) Liden, Rennie 1660 NU

BRASSICACEAE

Heliophila rigidisdulcis Sond., Rennie 1180 NU

Lepidium schinzii Thell., Hilliard & Bartt 7587 NU

Sisymbrium capense Thunb., Rennie 717 NU

Cardamine

aficana L., Rennie 1050 NU

*pimpinella L., Rennie 785 NU

CAPRARACEAE

Cleome monophylla L., Rennie 1722 NU

DROSERACEAE

Drosera natalensis Duetsch, Rennie 640 NU

CRASSULACEAE

Kalanchoe thyriflora Harv., Rennie 403 NU

Craspula

dependens Bolus, Rennie 277 NU

laceolata (Eckl. & Zeyh.) Endl. ex Walp. subsp. laceolata, Rennie 1610 NU

natalensis Schonland, Rennie 390 NU

natans Thunb.
Pittosporaceae

Pittosporum viridiflorum

Acacia

Rubus

Prunus africanus

Lotononis

FABACEAE

*rigidus

*rigidum

*rigidum

Alchemilla

nataleensis

woodii

Agromonia procera

Leucosidea sericea

Cliffortia

lineariafolia

*ridigus

*B. -E. van Wyk. Rennie 270

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Engl. Rennie 1210 NU

B.-E. van Wyk. Rennie 1056 PRE

Bolus. Edwards 1058 PRE

B.-E. van Wyk. Rennie 1509 PRE

B.-E. van Wyk. Rennie 1508 PRE

B.-E. van Wyk. Rennie 1507 PRE

B. -E. van Wyk. Rennie 1506 PRE

B.-E. van Wyk. Rennie 155 NU

D. -E. van Wyk. Rennie 709 NU

D. -E. van Wyk. Rennie 1503 PRE

D. -E. van Wyk. Rennie 1502 PRE

D. -E. van Wyk. Rennie 1556 NU

D. -E. van Wyk. Rennie 1574 NU

D. -E. van Wyk. Rennie 1586 NU

D. -E. van Wyk. Rennie 1590 PRE

D. -E. van Wyk. Rennie 1599 PRE

D. -E. van Wyk. Rennie 1556 NU

D. -E. van Wyk. Rennie 1556 NU

D. -E. van Wyk. Rennie 1556 NU

D. -E. van Wyk. Rennie 1556 NU

D. -E. van Wyk. Rennie 1556 NU

Acacia

atacantha DC., Edwards 2218 NU

*melanoxylon R.Br., Feltham 212 NU

Hoffmannseggia sandersonii (Harv.) Eng., Hilliard & Burtt 7182 PRE

Calyptrale

dura (Benth.) subsp. dura, Feltham 244 NU

sericea Harv., Rennie 255 NU

Lotononis

carnosa (Eckl. & Zeyh.) Benth., Rennie 1184 NU

corymbosa (E.Mey.) Benth., Feltham 133 NU

eriantha Benth., Rennie 1423 NU

acicarpa (E. Mey.) B. -E. van Wyk, Rennie 291 NU [L. biflora (Bolus) Dummer]

foliosa Bolus, Hilliard & B. -L. Burtt 424 NU

laxa Eckl. & Zeyh., Rennie 1025 NU

lodononodes (Scott Elliot) B. -E. van Wyk, Rennie 709 NU

pulchella (E. Mey.) B. -E. van Wyk, Rennie 1500 PRE

pulchra Dummer, Rennie 1507 PRE

vimecia (E. Mey.) B. -E. van Wyk, Rennie 1509 PRE

virgata B. -E. van Wyk, Rennie 1556 NU

Pearsionia grandiflora (Bolus) Polhill, Feltham 354 NU

Melobolium

alpinum Eckl. & Zeyh., Rennie 1271 NU

microphthalmum (L.) Eckl. & Zeyh., Rennie 747 NU

obcordatum Harv., Rennie 247 NU

Argyrolobium

amplexicaule Dummer, Edwards 2217 NU

migrecens Dummer, Edwards 1053 NU

rupestris (E. Mey.) Walp., Edwards 1091 NU

sericeosum Harms, Edwards 1092 NU

tormentosum (Andrews) Druce, Rennie 245 NU

tuberosum Eckl. & Zeyh., Feltham 427 NU

Medicago laciniate (L.) Mill., Rennie 98 NU

Tritolium bushellianum Ser., Rennie 327 NU

Indigofera

cuneifolia Eckl. & Zeyh.,
dregeana E. Mey., Rennie 458 NU

fastigiata E. Mey., Rennie 448 NU

foliosa E. Mey., Rennie 977 NU

hedyantha Eckl. & Zeyh., Rennie 293 NU

hilaris Eckl. & Zeyh., Rennie 270 NU

longibarbata Engl., Rennie 1247 NU

trifoloides Baker f., Rennie 1732 PRE

woodii Bolus, Edwards 1058 NU

Psoralea rhipidota C.H. Sturt., Rennie 282 NU

Tephrosia

ciropoda (E.Mey.) Harv. var. diffusa (E.Mey.) Schr. Rennie, Rennie 1104 NU

marginella H. M.L. Forbes, Rennie 910 NU

polystachya E. Mey., Rennie 513 NU

Sutherlandia montana E. Phillips & R.A. Dyer, Rennie 1372 NU

Dalbergia obovata E. Mey., Cooper's list

Lessertia perennans (Jacq.) DC. var. perennans, Rennie 419 NU

Zornia capensis Pers., Rennie 496 NU

Desmodium repandum (Walp.) DC., Edwards 1944 NU

Durmasia villosa DC., Edwards 2043 NU

Rhyncosia

carruata (Jacq.) DC., Rennie 48 NU

pentheri Schults., Rennie 1292 NU

rebaptizada N.E. Br., Rennie 246 NU

tota (Thunb.) DC., Rennie 698 NU

Eriosema

distictum N.E. Br., Feltham 134 NU

kaussianum Mein., Rennie 114 NU

salignum E. Mey., Rennie 1399 NU

squarrosum Walp., Edwards 2222 NU

Vigna

nerosia Markkite, Rennie 36 NU

vexillata (L.) A. Rich., Rennie 1585 NU

Dolichos angustissimus E. Mey., Rennie 769 NU

GERANIACEAE

Geranium

flanaganii Knuth, Rennie 61 NU

pulchrum N.E. Br., Feltham 402 NU

schlechteri Knuth, Rennie 1525 PRE

wakkerstroemia Knuth, Rennie 466 NU

Monsonia

brevitrostrata Knuth, Rennie 1331 NU

grandifolia Knuth, Rennie 792 PRE

Pelargonium

alchemilloides (L.) H. T. Ver., Rennie 37 NU

boswell Harv., Rennie 1865 NU

juridum (Andrews) Swee., Rennie 788 NU

multicaule Jacq., Rennie 594 NU

schlechteri Knuth, Rennie 1822 NU

zonalis (L.) H. T. Ver., Rennie 772 NU

OXALIDACEAE

Oxalis

*corneulastrum L., A. Rich. s.n. NU

obiquafolia Stud. ex A. Rich., Rennie 995 NU

semiloba Sour., Rennie 1284 NU

LINACEAE

Linum thunbergianum Eckl. & Zeyh., Rennie 1212 NU

RUTACEAE

Zanthoxylum
capense (Thunb.) Harv., Cooper's list
davyi (Verdc. & P. G. Waterman, Feltham 226 NU

Calodendrum capense (L.) Thunb., Cooper's list

Vepris lanceolata (Lam.) G. Don, Feltham 245 NU

Claussena ansata (Wild.) Hoff. ex Benth., Rennie 714 NU

PTRAEROXYLACEAE

Ekebergia capensis Sparrm., Edwards 2016 NU

POLYGALACEAE

Polygala

gerrardii Chodat, Rennie 286 NU

gracilenta Bartr. Davys, Edwards 1066 NU

hottentotta C. Presl, Rennie 1614 NU

macowaniana Patras, Feltham 131 NU [P. confusa Macowan] ohiendorfiana Eckl. & Zeyh., Feltham 136 NU

refracta DC., Rennie 1448 NU

rehmannii Chodat, Rennie 1868 NU

rhinostigma Chodat, Rennie 1594 NU

virgata Thunb., Rennie 377 NU

Murralia flanaganii Bolus, Nicholas 1145 NU

EUPHORBIIACEAE

Micrococa capensis (Baill.) Prain, Edwards s.n. NU

Adenocrene

capras (Thunb.) Baill., Edwards 2192 NU

pauciflora Turcz., Rennie 697 NU
Bothalia 32.1 (2002)

Epilobium hirsutum L., Rennie 585 NU
saligamum Hauksson, Rennie 389 NU
Oenothera rosea L., Rennie 474 NU
Gunnarea perpensa L., Rennie 34 NU
Laurentbergia repens P.J. Bergius, Huntsley 434 NU

ARALIACEAE
Cussonia paniculata Eckl. & Zeyh. subsp. sinuata (Reneke & Kok) De Winter, Mc-Clean 216 PRE
spicata Thumb., Feltham 252 NU
Seemannaralia gerrardi (Seem.) Harms, Feltham 262 NU

APIACEAE
Ammi majus L., Rennie 281 NU
Daucus carota L., Rennie 1143 NU
Epilobium alepidea Lam., Rennie 1294 NU

ARALIACEAE
Aralia hispida Thumb., Rennie 238 NU

GENTIANACEAE
Sebaceae
erosa Schinz, Rennie 1973 NU
filiformis Schinz, Rennie 376 NU
longicaulis Schinz, Rennie 1657 NU
reps Schinz, Rennie 599 NU
sedoides Gilg

GENTIANACEAE
Cussonia paniculata Eckl. & Zeyh. subsp. sinuata (Reneke & Kok) De Winter, Mc-Clean 216 PRE

MAESACEAE
Maesa lanceolata Forssk., Edwards s.n.

ERICACEAE
Erica alpina L., Rennie 255 NU

MYRSINACEAE
Maesa lanceolata Forssk., Edwards s.n. NU

PRIMULACEAE
Lysimachia ruhmeriana Vatke, Rennie 735 NU

BEGONIACEAE
Echeveria crispata (Thunb.) Gürke subsp. crispata, Edwards 2012 NU

Aizoaceae
austrorugosa Stearn, Scott-Shaw 3311 CF

OCTIFOLIACEAE
Oxytropis benthamii Balf. f., Rennie 440 NU

OLEACEAE
Chionanthus forosulatus (E.Mey.) Stearn, Scott-Shaw 3311 CF

POLYGONACEAE
Gomphostigma virgatum (Lf.) Baill., Rennie 644a NU

Buddlejaeae/LOGANACEAE
Gomphostigma virgatum (Lf.) Baill., Rennie 166 NU

Boraginaceae
Atriplex hirsuta L., Rennie 1143 NU

Cyanoscilla
Cyanoscilla austroafricanum Hilliard & B.L. Burt, Rennie 779 NU

Convolvulaceae
Ipomoea purpurea (L.) Lam., Rennie 585 NU

BASCACEAE
Amphorophora subsp. macrocarpa (C.H.Wright) J. Verdoorn, Scott-Shaw's list

Oxalis capensis L., subsp. macrocarpa (C.H.Wright) J. Verdoorn, Scott-Shaw's list

CAPERACEAE
Capparis decidua Decne., Rennie 281 NU

CONVOLVULACEAE
Ipomoea purpurea (L.) Lam., Rennie 585 NU

BASCACEAE
Buddleja eugeniae R.H. Menezes, Rennie 515 NU

Capparis decidua Decne., Rennie 281 NU
Bothalia 32.1 (2002)

Cynoglossum (cont.)
spalatum Hilliard & B.L.Bartt, Rennie 507 NU
Afrotomia gregidifera (R.R.Mill) R.R.Mill, Rennie 718 NU
Myosotis
semiamplexicaulis DC., Rennie 825 NU
sylvatica Hoffm., Feltham 186 NU
Lithospermum
afrocomatum Wam, Rennie 7046 NU
papillosum Thunb., Rennie 110 NU

VERBENACEAE
Verbena
*bonariensis L., Rennie 1280 NU
elongata Hilliard & B.L.Bartt, Rennie 1245 NU
glaucosa Hilliard & B.L.Bartt, Rennie 1839 PRE
microcephalon (Kunze) K.Schum., Edwards 1680 NU
natalensis Hochst., Rennie 1840 NU
pulvinata Klink, Hilliard & Bartt 7172 NU
spathacea (Benth.) Walp., Rennie 1244 NU
Mimulus gracilis R. Br., Rennie 146 NU

Limoselia
longiflora Kunze, Rennie 489 NU
maior Diels, Rennie 25 NU
*Veronica persica Poit., Rennie 1092 NU
Melasma scabrum P.J. Bergius, Feltham 283 NU
Alectra sessiliflora (Vahl) Kunze var. sessiliflora, Rennie 1663 NU
Graderia scabra (L.f.) Benth., Rennie 84 NU
Sophia cana Harv., Rennie 639 NU

Bachnera
dura Benth., Rennie 1228 NU
gilabra Benth., Rennie 480 NU
simplex (Thunb.) Druce, Rennie 1228 NU
Cynicius racemosus Benth., Rennie 1237 NU

Sriga
asiatica (L.) Kunze, Rennie 574 NU
bilabiata (Thunb.) Kunze, Edwards 1061 NU
elegans Benth., Vos 34 NU

Harveya
pulchra Hilliard & B.L.Bartt, Rennie 2416 NU
speciosa Benth. ex C Krauss, Rennie 312 NU
Hebenstretia duria Choisat, Feltham 209 NU

Selago
flanaganii Rolfe, Rennie s.n. NU
immersa Rolfe, Rennie 1293 NU
pachypoda Rolfe, Rennie 318 NU
Walafrida densiflora (Rolfe) Rolfe, Rennie 1669 NU
GESNERIACEAE
Streptocarpus
garden Hook., Rennie 490 NU
pentherianus Fritsch, Feltham 96 NU
posilus Harv. ex C.B.Clarke, Rennie 424 NU

LENTIBULARIACEAE
Urticulata
livida E.Mey., Rennie 439 NU
prehensilis E.Mey., Rennie 16 NU

ACANTHACEAE
Thunbergia venosa C.B.Clarke, Rennie 1270 NU
Chaeothamus selliger (Pers.) Lindl., Rennie 1175 PRE
Crabbea acalix N.E.Br. ex Rennie 1062 NU
Hypoestes triflora (Forssk.) Roem. & Schult., Rennie 1970

Solanum
vulcanicum Lam., Rennie 867 NU
sanguineum Jacq., Edwards 1554 NU
*trichantherum (Lam.) Pic., Rennie 1177 a NU

SOPTHULARIACEAE
Dracis megaphtora Hilliard & B.L.Bartt, Rennie 1735 NU
Nemesia
albiflora (L.) Benth., Rennie 1881 NU
caerulea Horn, Feltham 47 NU
melissifolia Benth., Vos 49 NU
silvatica Hilliard, Rennie 1 NU

Diches
repens Benth., Hilliard & B.L.Bartt, Rennie 7192 NU

Helianthus annuus (L.) Schrad., Rennie 7602 NU
Hallaria lucida L., Rennie 173 NU
Phyllocladus asper Harv. ex Hume, Rennie 321 NU
Bowkeria verticillata (Eckl. & Zeyh.) Schinz., Rennie 483 NU
Manuela floribunda Hilliard & B.L.Bartt, Rennie 302 NU
Satureja
floribunda (Benth.) Kunze, Edwards 1071 NU
pulexens Hurn, Rennie 1647 NU
Jamesbrittenia
breviflora (Schrtrr) Hilliard, Hilliard & B.L.Bartt, Rennie 3471 NU
(Satureja breviflora (Schrtrr) Hurn)
filicadae (Benth.) Hilliard, Rennie 310 NU
(Satureja filicadae (Benth.) Hilliard)
Zaluzianskya
distans Hurn, Rennie 1280 NU
elongata Hilliard & B.L.Bartt, Rennie 1245 NU
stereocarpa Hilliard & B.L.Bartt, Rennie 1839 PRE
microcephalon (Kunze) K.Schum., Edwards 1680 NU
natale (Hochst.) Benth., Rennie 1840 NU
pulvinata Klink, Hilliard & Bartt 7172 NU
spathacea (Benth.) Walp., Rennie 1244 NU
Mimulus gracilis R. Br., Rennie 146 NU
Pavetta (cont.)

Lobelia

capensis Thunb., Rennie 268 NU
tuberculosis Eekl. & Zeyh.
var. hirsutum (Sonon) Verdc., Rennie 502 NU
var. thubergianum, Rennie 1014 NU

Rubia

cordiformis L., var. capensis, Feltham 141 NU

Spermacoce natalensis

Valeriana capensis Thunb. var. capensis, Feltham 114 NU

Dipsacaceae

Cephalaria

natalensis Kunze, Hilliard & Bartr. 10132 NU
tuberculata Bremer, Rennie 818 NU
huttonii (Sonon) Thalin, Rennie 1097 NU
krebsii Cham., Feltham 26 NU

Spermacoce

nativiflora (Cogn.) J.H.Ross, Rennie 948 NU
subsp. subson. Sond. A Han., Hilliard Burtt 7211 NU

Cucurbitaceae

Mukia maderaspatana (L.) M.Roem., Rennie 1074 NU

Spermacoce

parviflora (Cogn.) M.D.Hend., Edwards 1987 NU

CAMPANULACEAE

Wahlenbergia

appressifolia Hilliard & B.L.Bartr. Rennie 333 NU
cuspidata Bremer, Rennie 818 NU
fasciculata Bremer, Rennie 18 NU

Lobelia

flaccida (C.Presl) A.DC., subsp. flaccida, Rennie 460 NU
erinus L., Feltham 34 NU
laxa Macowan, Rennie 371 NU
orcas E.Wimm., Rennie 83 NU

Vannereinzen (Kunze) K.Schum., Feltham 90 NU

Monopis

decipiens (Sonon) Thalin, Rennie 145 NU

stellaroides (Presl) Urb. subsp. stellaroides, Rennie 966 NU

Obeliaeae

Cyphia

elata Harv., Rennie 526 NU

longifolia N.E.Br., Rennie 201 NU

nataleensis E.Phillips, Rennie 872 NU

togersii S. Moore subsp. wintem E.Wimm., Edwards 1042 NU

tysonii E.Phillips, Rennie 538 NU

Lobelia

flaccida (C.Presl) A.DC., subsp. flaccida, Rennie 460 NU

Lobelia

stellaroides (Presl) Urb. subsp. stellaroides, Rennie 966 NU

Asteraceae

Vernonia

flanaganii (E.Phillips) Hilliard, Rennie 420

gerrardii Harv., Rennie 339 NU

hirsuta (DC) Sch Bip., Hilliard & Bartr. 7160 NU

nataleensis Sch Bip. ex Walp., Rennie 340 NU

neocorymbosa Hilliard, Edwards 1989 NU

Aster

bakerianus Bartr Davy ex CA.Sm., Feltham 120 NU

perfoliatus Oliv., Rennie 426 NU

pleioccephalus (Harv.) Hutch., Rennie 153 NU

Felicia

filifolia (Vent) Bartr Davy, Rennie 397 NU

linearis N.E.Br., Edwards 1048 NU

maritaca (Thunb.) Nees, Rennie 948 NU

rosulata Teo, Rennie 1857 NU

Nidorella

auriculata DC., Rennie 356 NU

undulata (Thunb.) Sonon ex Harv., Rennie 224 NU

Coryza

*bonariensis (L.) Cronquist, Rennie 661 NU

*canadensis (L.) Cronquist, Rennie 1130 NU

obscura DC., Rennie 563., Edwards 2019 NU

pinna (L) Kunze, Rennie 204 NU

scabrida DC., Rennie 1398 NU

Nellettia rafiolia (Thunb.) Spreng, Hilliard & Bartr. 7163 NU

Chrysoma ciliata L., Rennie 96 NU

Denekia capensis Thunb., Rennie 471 NU

Graphium confine Harv., Rennie 649 NU

Troglodytis caucalceum (Thunb.) Hilliard & B.L.Bartr. subsp. diffusum (DC.) Hilliard, Rennie 1684 NU

Pseudographium

luteo-album (L.) Hilliard & B.L.Bartr. Rennie 220 NU

ligulatum (DC.) Hilliard & B.L.Bartr, Hilliard & Bartr 7599 NU

undulatum (L.) Hilliard & B.L.Bartr, Hilliard & Bartr 7593 NU

*Garnocrypta connectecata (Willd.) Kerguelen, Rennie 992 NU

Heliocryx

acutatum DC., Rennie 711 NU

adenocarpum DC., Rennie 747 NU

allioides Less., Edwards 2225 NU

appendiculatum (L.) Less., Feltham 258 NU

auricume (Houtt.) Merr.

var. aureum, Rennie 127 NU

var. monocoephalum (DC.) Hilliard, Rennie 652 NU

var. serotinum Hilliard, Rennie 525 NU

caespititum (DC.) Harv., Hilliard & Bartr 7175 NU

cephalodium DC., Rennie 203 NU

chionocephalum DC., Feltham 8 NU

confertifolium Klatt, Rennie 126 NU

cooperi Harv., A.P.D. McClean 208 PRE

dregeanum Sonon & Harv., Hilliard & Bartr 7211 NU

ecloison Sonon., Rennie 461 NU

epapaposum Bolus, Rennie 1687 NU

fulvum N.E.Br., Rennie 694 NU

glomeratotum Klatt, Scott-Shaw 3322 CPF

grandisracteatum M.D.Hend., Rennie 125 NU

herbacem (Andreas) Sweet, Rennie 308 NU

krebsianum Less., Rennie 205 NU

krooki Mooser, Edwards 1075 NU

melanacme DC., Hilliard & Bartr 7592 NU

miconifolium DC., Rennie 226 NU

monticola Hilliard, Rennie 252 NU

munita Harv., Hilliard & Bartr 7590 NU

nudifolium (L.) Less., Rennie 866 NU

opacum Klatt, Rennie 712 NU

oroephyllum Klatt, Rennie 338 NU

palidum DC., Rennie 770 NU

platypterum DC., Rennie 373 NU

rugulosum Less., Rennie s.n. NU

sessilisides Hilliard, Rennie 175 NU

simillimum DC., Rennie 358 NU

spirales Hilliard & B.L.Bartr. Rennie 960 NU

splendium (Thunb.) Less., Rennie 204 NU

subulatum Bartr Davy, Hilliard & Bartr 7150 NU

sutherlandi Harv., Rennie 374 NU

trifolium DC., Rennie 1572 NU

umbracluligerum Less., Rennie 352 NU

vernum Hilliard, Rennie 755 NU

Felthana acerosa (DC) Bremer, Rennie 93 NU

Macowania pinifolia (N.E.Br.) Kroner, Rennie 407 NU

[Aethrixia pinifolia N.E.Br.]

Aethrixia

angustissima DC., Rennie 303 NU

arachnoidea M.J Wood & M.S.Evans ex J.M.Wood, Rennie 405 NU

fontana Macowan, Rennie 239 NU

Printzia

auriculata Harv., Rennie 400 NU

dypho Less., Rennie 355 NU

*Bidas pilosa L., Rennie 562 NU

*Galisnaga parviflora Cav., Rennie 544 NU

*Tages minuta L., Rennie 381 NU

Inulanthera coronopifolia (Harv.) Kallersjo, Rennie 380 NU

*Anithems arvensis L., Rennie 218 NU

*Aculella millefolium L. vil., Rennie 865 NU

Lepidostephium asteroides (Bolus & Schult.) Kroner, Rennie 520 NU

Cotula

australis (Spreng.) Hook.f., Rennie 1143 NU

hispida (DC.) Harv., Rennie 1405 NU

Bothalia 32.1 (2002)
Bothalia 32,1 (2002)

Schistostephanium
crataegifolium (DC.) Fenzl ex Harv., Rennie 354 NU
hippiophilum (DC.) Hatch., Rennie 398 NU
Artemisia afric Jacq. ex Wild., Rennie 549 NU
Cineraria
deltoidea Sond., Edwards 2015 NU
pinnata O.Hoffm., Edwards 2014 NU
Senecio
adnatus DC., Hilliard & Burt 7615 NU
arabidifolius O.Hoffm., Hilliard & Burt 7212 NU
barbatus DC., Hilliard & Burt 7189 NU
brevidentatus M.P.Hend., Hilliard & Burt 7614 NU
bupleuroides DC., Rennie 206 PRE
cathartensis O.Hoffm., Rennie 672 NU
ciriceps Hilliard & B.L.Burt, Rennie 961 NU
coronatus (Thunb.) Harv., Rennie 693 NU
deltoideus Less., Rennie 5 NU
discodregianus Hilliard & B.L.Burt, Rennie 627 NU
dregeanus DC., Rennie 586 NU
drubescens Aiton
var. crepidifolius DC., Rennie 429 NU
var. rubescens DC., Rennie 487 NU
glaberrimus DC., Rennie 206 NU
gregatus Hilliard, Rennie 1140 NU
harveyanus MacOwan, Rennie 553 NU
heliospis Hilliard & B.L.Burt, Rennie 165 NU
hirsutifolius Hilliard, Rennie 227 NU
hygrophilus R.A.Dyer & C.A.Son., Hilliard & Burt 7530 NU
inaequisepales DC., Rennie 464 NU
inornatus DC., Rennie 356 NU
isatideus DC., Hilliard & Burt 7616 NU
lydenbergensis Hatch. & Burt Davy, Rennie 987 NU
macrocephalus DC., sens. lat., Feltlham 191 NU
macropermus DC., Rennie 1369 NU
madagascariensis Poir., Rennie 650 NU
marginalis Hilliard, Rennie 472 NU
othoniflorus DC., Hilliard & Burt 7198 NU
oxyrificus DC., Rennie 1169 NU
panduriformis Hilliard, Rennie 392 PRE
polyodon DC. var. polyodon, Rennie 519 NU
retorus DC., Hilliard & Burt 7536 NU
ruwenzorinensis S.Moore, Rennie 1054 NU
scutis Hatch. & Burt Davy., Hilliard & Burt 7184 NU
stratifolius DC., Hilliard & Burt 7164 NU
subconicae Schltl., Rennie 601 NU
subbracteolus O.Hoffm., Rennie 347; Edwards 2018 NU
ugeniensis Thell., Rennie 588 NU
Delareaa odorata Lem., Rennie 575 NU
Mikanopsis cisampelina (DC.) C.Jeffrey, Edwards 2047 NU
Eucyme
exanis Schltl., Edwards 1056 NU
laxus (Harv.) Burt Davy., Hilliard & Burt 7165 NU
transvaalensis Klett, Rennie 809 NU
tysonii E.Phillips, Rennie 527 NU
Othonna
buctti B.Nord., Rennie 172 NU
natalensis Sch.Bip., Rennie 1236 NU
Dimorphotheca
cauliscens Harv., Rennie 519 NU [Osteospermum cauliscens Harv.]
jucundum E.Phillips, Feltlham 83 NU [Osteospermum jucundum
(E.Phillips) Norl.]
Osteospermum attenuatum Hilliard & B.L.Burt, Rennie 307 NU
Chrysanthemoides monilifera (L.) Norl., Edwards 2006 NU
Ursinia
montana DC., Rennie 1846 NU
temuloba DC., Rennie 279 NU
Arctotis arctotoides (L.f.) O.Hoffm., Rennie 72 NU
Haplocarpha
gervosa (Thunb.) P.Beauv., Rennie 601 NU
scaposa Harv., Rennie 383 NU
Gazania linears (Thunb.) Druce, Feltlham 143 a NU
Hirpicium armerioides (DC.) Roessler, Rennie 467 NU
Berkheya
cirsiolida (DC.) Roessler, Rennie 1116 NU
debilis MacOwan, Feltlham 340 NU
macrocephala J.M.Wood, Rennie 676 NU
rhapontica (DC.) Hatch. & Burt Davy
subsp. platypetra (Harv.) Roessler, Rennie 721 NU
subsp. rhapontica, Rennie 570 NU
setifera DC., Rennie 374 NU
speciosa (DC.) O.Hoffm. subsp. ovata Roessler, Rennie 1168 NU
*Cirsium vulgare (Savi) Ten., Rennie 571 NU
Dicoma anomala Sond., Rennie 565 NU
Gerbera
ambigua (Cass.) Sch.Bip., Hilliard & Burt 7170 NU
piloselloides (L.) Cass., Rennie 949 NU
Tolpis capensis (L.) Sch.Bip., Rennie 851 a NU
Hypochoeris
*microcephala (Sch.Bip.) Cabrera var. albiflora (Kuntze) Cabrera,
Rennie 909 NU
*radicata L., Rennie 854 NU
*Taraxacum hamatiiforme Dahlst., Rennie 605 NU
Sonchus
*asper (L.) Hill, Rennie 703 NU
dregeanus DC., Hilliard & Burt 7191 NU
inermis Schltl., Rennie 701 NU
nanus Sond. ex Harv., Rennie 5500 NU
*oleraceus L., Rennie 821 NU
Lactuca
inermis Forssk., Rennie 413 NU [L. capensis Thumb.]
tysonii (E.Phillips) C.Jeffrey, Rennie 491 NU
Crepis hypochoeridea (DC.) Thell., Rennie 859 NU