

The naturalized vascular plants of Western Australia

1: Checklist, environmental weeds and distribution in IBRA regions

Greg Keighery and Vanda Longman, Department of Conservation and Land Management, WA Wildlife Research Centre, PO Box 51, Wanneroo, Western Australia 6946, Australia.

Abstract

There are 1233 naturalized vascular plant taxa recorded for Western Australia, composed of 12 Ferns, 15 Gymnosperms, 345 Monocotyledons and 861 Dicotyledons. Of these, 677 taxa (55%) are environmental weeds, recorded from natural bushland areas. Another 94 taxa are listed as semi-naturalized garden escapes. Most are herbaceous annuals or grasses with the largest groups being the Poaceae (196), Asteraceae (115), Papilionaceae (106) and Iridaceae (53).

The largest numbers of weeds are recorded from the natural regions encompassing the capital Perth, with 801 and 705 recorded for the Swan Coastal Plain and Jarrah Forest Bioregions respectively.

Most weeds are still localized in extent with only 60 occurring in 10 or more natural regions, the vast majority in less than three, suggesting that further spread will occur in most weeds.

Introduction

In 1994 the senior author prepared a checklist of the naturalized weeds of Western Australia (WA), with particular reference to environmental weeds (Keighery 1995). Since then, a weed field guide (Hussey *et al.* 1997) has been produced and a considerable amount of further survey work has been undertaken. As a consequence, the checklist needed updating.

The preparation of a State Environmental Weed Strategy (Ecoscape and Department of Conservation and Land Management 1999) initiated this update, as the Strategy required:

- the update of the 1995 list;
- all weeds to be geographically located in an Australia wide system, Interim Biogeographic Regions of Australia (IBRA regions, Thackway and Creswell 1995); and
- the ranking of the listed environmental weeds.

This paper utilizes these data to prepare a new checklist of weeds of Western Australia, with their distribution in IBRA regions.

Many Australia wide checklists of weeds list only exotics, but this paper lists all regardless of origin. The paper also lists taxa that at one time were considered

naturalized, but are no longer considered naturalized and those taxa recorded as garden escapes.

A second paper will rank the importance of environmental weeds in each IBRA region.

Results

Total naturalized flora

The total number of plants listed, as reproducing unaided by man (naturalized) in Western Australia is 1233 (Tables 1, 4 and 5). This total is composed of 12 ferns, 15 gymnosperms, 345 monocotyledons and 861 dicotyledons (Table 5). Forty seven taxa are listed as currently not naturalized (Table 2). Keighery (1995) listed a total of 1033, composed of six ferns, seven gymnosperms, 318 monocotyledons and 701 dicotyledons. With increasing scrutiny and population increase the number of naturalized plants continues to increase.

Currently the largest groups are the families Poaceae (Grasses) with 196 taxa, followed by the Asteraceae (Daisies) with 115, the Papilionaceae (Peas) with 106 and the Iridaceae (Iris family) with 53. These families comprise 38% of the total number of naturalized taxa recorded in the State.

Environmental weeds

Of the total 1233 naturalized taxa, 677 taxa (55%) are listed as occurring and reproducing (naturalized) in reasonably intact bushland in Western Australia (environmental weeds). These are composed of seven Ferns, three Gymnosperms, 197 Monocotyledons and 470 Dicotyledons. The percentage of these weeds has not declined since the previous checklist.

Garden escapes

Ninety four taxa are recorded as garden escapes or outcasts. Garden escapes ('plants growing spontaneously outside a fenced area, or as a weed in a sown or planted community' or 'plants that are reproducing and expanding within the habitat and have maintained themselves over time, without human assistance', Keighery 1983) are recorded in Table 3. These taxa may be in the process of becoming naturalized. These are part of a long-term project documenting potential weeds from plantings and gardens, for example Keighery (1986).

Distribution in IBRA Regions

Western Australia is divided into 26 natural regions (Figure 1) that are used for bioregional planning. Weeds are unevenly distributed in these regions, generally those with the greatest amount of land disturbance and population have the highest number of weeds (Table 4). For example in the tropical Kimberley, VB, which contains the Ord irrigation area, the major cropping area, has the greatest number of weeds. However, the 'weediest regions' are the Swan Coastal Plain (801) and the adjacent Jarrah Forest (705) which contain the capital Perth, several other large towns and most of the intensive horticulture of the State.

Most of the desert has low numbers of weeds, ranging from five recorded for the Gibson Desert to 135 for the Carnarvon (containing the horticultural centre of Carnarvon). However, these figures for the remote desert regions are probably, in part, an artifact of recording effort. The Tanami Desert in the Northern Territory has 39 weeds recorded (Albrecht 1999) compared to the portion in Western Australia with seven.

Most widespread weeds

There are 60 weeds, which have been recorded in 10 or more IBRA regions. The most widespread weed is *Sonchus oleraceus* (20 regions), followed by *Cenchrus ciliaris* and *Solanum nigrum* (17), *Pseudognaphalium luteo-album* and *Citrullus lanatus* (16), *Sisymbrium orientale* (15) and *Emex australis* and *Tribulus terrestris* (14).

While climate does restrict weeds in a similar fashion to all plant species, the median regional occurrence of weeds is currently between two and three regions. By climate alone it could be between five and eight. We can expect that increases in ranges of most naturalized taxa.

Origin of Western Australia's weeds

Although the vast majority of weeds are exotics there remains a small but growing portion of the weed flora that is native to Australia. There are three ferns, five gymnosperms, one monocotyledon and 28 dicotyledons (37) that are native to Eastern Australia. These are nearly all environmental weeds (Keighery 2002), some of potential or actual major significance.

Forty-nine taxa are Western Australian natives, comprising; four ferns, one Gymnosperm, six Monocotyledons and 38 Dicotyledons. Many are native to northern Western Australia (Table 1) but are introduced to southern Western Australia. These taxa are frequently not segregated in flora or weed checklists and yet several are serious environmental weeds (Keighery 2002).

Australian natives feature prominently in the list of Garden Escapes (Table 3), where there are 17 Western Australian

natives and five Eastern Australian natives. This suggests that these groups may provide a major new reservoir of future environmental weeds.

Native or naturalized

There are still continuing issues with determining the native or naturalized status of widespread tropical naturally weedy taxa and cosmopolitan wetland taxa of temperate areas. (Keighery 2002). Some new examples listed here include the status of *Physalis minima*, *Cardiospermum halicacabum* and *Oldenlandia corymbosa*.

There are also a series of native taxa within their normal ranges (*Pteridium esculentum*, *Ptilotus polystachyus*, *Acacia saligna*, *Chenopodium pumilio*, *Podotheca gnaphaloides*, *Muehlenbeckia adpressa* and *Vittadinia australasica*) that act as weeds in grazing systems in southern Western Australia. Most of these are listed in this paper.

Another group of native species are increasers in grazing systems where they are relatively unpalatable; they are frequently listed as weeds in agricultural texts, but are not considered as weeds by most botanists and are not listed in this paper.

A small group of native species are weeds of tropical farming systems, such as *Echinochloa elliptica* in rice crops, these species when recorded are listed in this paper.

There are a few naturally weedy native species occasionally recorded in tropical farming systems, for example the grasses *Chionachne hubbardiana* and *Mnesithea granularis* (potentially a pan tropical weed) are weeds that clog irrigation channels in the Ord Irrigation Region. These species are not listed as weeds in this paper since information is lacking on the nature and extent of their impact.

Perhaps unique to Western Australia are a series of species with native forms in the tropics, but with exotic weedy forms in temperate Western Australia. These include: *Cynodon dactylon*, *Cyperus rotundus*, *Melia azedarach*, *Euphorbia australis* and *E. drummondii*, *Cyperus polystachyos*, *Colocasia esculenta* and *Hibiscus trionum*. These species are generally listed as either native or naturalized for the entire taxon in Western Australian checklists, the southern populations are treated as weeds in this paper, since most are probably exotic populations of these taxa.

A more difficult sub-group of the above are those taxa extending their ranges by dispersing by human assistance along transport corridors via vehicles or soil, e.g. *Senecio lautus*, *Boerhavia coccinea* and *Boerhavia schomburgkiana*. Generally where there is clear evidence of aided dispersal that part of the range is listed as naturalized. However, there are species such as *Josephina eugeniae* (Pedaliaceae) potentially in this category, where the evidence

is equivocal and they are not listed until further information is obtained.

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NK	Northern Kimberley	MAL	Mallee
VB	Victoria Bonaparte	COO	Coolgardie
CK	Central Kimberley	NUL	Nullarbor
OVP	Ord-Victoria Plains	HAM	Hampton
DL	Dampierland	WAR	Warren
TAN	Tanami	ESP	Esperance
PIL	Pilbara		
GSD	Great Sandy Desert		
CAR	Carnarvon		
GAS	Gascoyne		
LSD	Little Sandy Desert		
GD	Gibson Desert		
CR	Central Ranges		
GS	Geraldton Sandplains		
YAL	Yalgoo		
MUR	Murchison		
GVD	Great Victoria Desert		
SWA	Swan Coastal Plain		
JF	Jarraah Forest		
AW	Avon Wheatbelt		

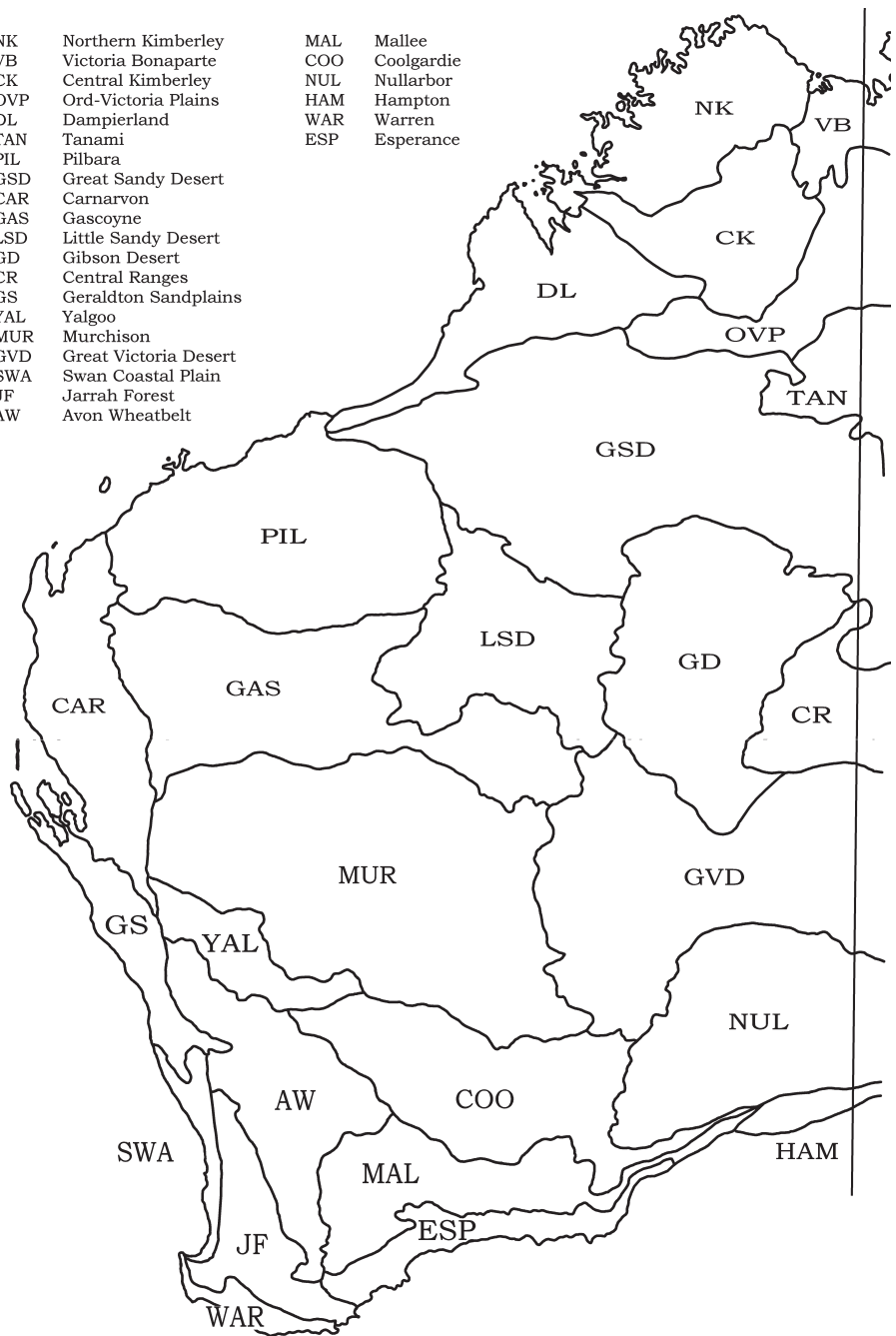


Figure 1. IBRA Regions of Australia.

Table 1. Naturalized Vascular Plants of Western Australia.**Key****Families**

Listed in alphabetical order under the major groupings of Ferns, Gymnosperms, Monocotyledons and Dicotyledons.

Genera and species

Listed alphabetically within families. The scientific name of each taxon commences the individual listing, followed by the common name (if one is commonly used). The scientific names of taxa known to be present in reasonably intact bushland (i.e. environmental weeds) are in bold.

Distribution

The distribution of each taxon is listed in IBRA regions. Some of the distributions have been obtained from FloraBase (Western Australian Herbarium 1998-2003).

Some taxa are native to Western Australia but can also behave as weeds. The IBRA regions in which these native taxa have been found to behave as weeds are prefixed by an asterisk (*). For these taxa, the regions without the asterisk indicate native non-weedy distribution of the taxa.

The status of many weeds is in a state of flux because of lack of information. If your information differs from this table you are probably aware of new populations and/or weeds that we need to know about.

FERNS

Because of their small wind-borne spores, it is difficult to ascertain the true ranges of ferns.

ADIANTACEAE

Ceratopteris thalictroides (Water Fern) – (NK, OVP, CK, DL, *PIL). Introduced to Millstream.

ASPIDIACEAE

Cyrtomium falcatum (Holly Fern) – (SWA).

AZOLLACEAE

Azolla filiculoides – (SWA, JF, WAR, *SWA, *JF, *WAR). Native along creeks, rivers, lakes and some swamps, but now commonly found in drains, dams, drainage basins and ornamental lakes.

Azolla pinnata – (SWA). Only one recent record for WA May be introduced.

CYATHEACEAE

Cyathea (Sphaopteris) cooperi (Rough Tree Fern) – (SWA, JF, WAR).

DAVALLIACEAE

Nephrolepis cordifolia (Fishbone Fern) – (SWA, JF, WAR).

DENNSTAEDTIACEAE

Dennstaedtia davallioides – (JF).

Histiopteris incisa – (VB, *WAR). Wardell-Johnson (1999) lists this taxon as native. However, larger weedy populations have since been recorded from Albany and Denmark, strongly suggesting that this species was introduced into south-western Australia.

Hypolepis dicksonioides – (WAR).

Hypolepis rugosula – (WAR). *H. rugosula* is given as native to WA in Brownsey (1999), although it has always been regarded as a weed in WA

Pteridium esculentum (Bracken) – (GS, AW, SWA, JF, WAR, ESP, *JF, *WAR).

SALVINIACEAE

Salvinia molesta (Salvinia) – (PIL, SWA, JF).

GYMNOSPERMS

Taxonomy follows Hill (1998).

CUPRESSACEAE

Callitris columellaris (Coastal Pine) – (SWA, JF).

Callitris glaucophylla – (ER: PIL, MUR, CR, CAR, YAL, COO, SW: *SWA, *JF)

Callitris preissii (verrucosa) (Rottneest Island Pine) – (SWA, *SWA, *JF).

Callitris rhomboidea – (WAR)

Callitris robusta – (JF, WAR).

Callitris tuberculata – (ER: GVD, HAM, MUR, NUL; SW: AW, ESP, JF, MAL, COO, *SWA, *JF).

Cupressus sempervirens – (JF).

PINACEAE

Pinus canariensis (Canary Island Pine) – (AW, JF).

Pinus halepensis (Aleppo Pine) – (AW, SWA, JF).

Pinus palustris – (WAR).

Pinus pinaster (Maritime Pine) – (SWA, JF, WAR).

Pinus pinea (Stone Pine) – (SWA, ESP).

Pinus ponderosa (Ponderosa Pine) – (SWA).

Pinus radiata (Monterey Pine) – (SWA, JF, WAR).

TAXODIACEAE

Sequoia sempervirens (Coast Redwood) – (WAR).

FLOWERING PLANTS – MONOCOTYLEDONS**AGAVACEAE**

Agave americana var. americana (Century Plant) – (CAR, GS, AW, SWA, JF, WAR).

Agave americana var. picta – (SWA, JF, COO, ESP).

Agave sisalana (Sisal) – (SWA).

Furcraea foetida (Cuba Hemp) – (SWA).

Furcraea selloa – (SWA).

Yucca aloifolia (Yucca) – (SWA).

Yucca filamentosa – (SWA).

ALISMACEAE

Alisma lanceolatum – (SWA).

Sagittaria platyphylla (Sagittaria) – (SWA).

ALLIACEAE

Allium ampeloprasum (Leek) – (SWA, JF, WAR). This is the wild form of the Leek (*A. porrum*) which is often listed instead of this taxon.

Allium neapolitanum (Naples Onion) – (GS, AW, SWA, JF, WAR).

Allium triquetrum (Three Cornered Garlic) – (SWA, JF, WAR).

Allium vineale (Crow Garlic) – (AW, JF). Last collected in 1965.

Ipheion uniflorum – (AW, SWA).

Nothoscordum gracile (False Onion Weed) – (GS, AW, SWA, JF, WAR).

ALSTROEMERIACEAE

Alstroemeria pulchella (New Zealand Christmas Bell, Parrot Alstroemeria) – (SWA, JF).

AMARYLLIDACEAE

Agapanthus praecox (Agapanthus) – (JF, WAR).

Amaryllis belladonna (Easter Lily) – (SWA, JF, WAR).

Crinum moorei (Veld Lily) – (SWA, JF).
Leucojum aestivum (Snowflake) – (SWA, JF).
Narcissus jonquilla – (SWA, JF).
Narcissus papyraceus (Paperwhite) – (SWA, JF).
Narcissus pseudonarcissus (Daffodil) – (JF).
Narcissus tazetta (Jonquil) – (SWA, JF, WAR).
Nerine bowdenii – (JF).
Pancratium maritimum (Sea Daffodil) – (SWA).

ARACEAE

Alocasia brisbanensis (Elephant's Ears, Cunjevoi) – (SWA, WAR).
Arum italicum (Italian Arum) – (JF).
Colocasia esculenta var. *esculenta* (Taro) – (SWA, JF).
Pistia stratiotes (Water Lettuce) – (SWA).
Zantedeschia aethiopica (Arum Lily) – (GS, AW, SWA, JF, WAR, ESP).

ARECACEAE

Phoenix dactylifera (Date Palm) – (VB, PIL, CAR).
Phoenix ? roebelini (GK 14379) – (VB).
Washingtonia filifera (Cotton Palm) – (VB, PIL, SWA).

ASPARAGACEAE

Asparagus asparagoides (Bridal Creeper) – (GS, SWA, JF, COO, WAR, ESP, HAM).
Asparagus declinatus (crispus) – (SWA, JF).
Asparagus densiflorus (Asparagus Fern) – (SWA).
Asparagus officinalis (Asparagus) – (AW, SWA, JF).
Asparagus plumosus – (SWA, WAR).
Asparagus scandens – (JF, WAR).

ASPHODELACEAE

Asphodelus fistulosus (Onion Weed) – (PIL, CAR, GAS, MUR, GS, YAL, SWA, JF, COO, NUL, MAL, ESP, HAM).
Trachyandra divaricata (Dune Onion Weed, Strapweed) – (GS, SWA, JF, WAR).

CANNACEAE

Canna × generalis (Canna) – (SWA, WAR).
Canna × orchiodes (Canna) – (SWA).

COLCHICACEAE

Baeometra uniflora – (SWA, JF).

COMMELINACEAE

Commelina bengalensis – (SWA).
Murdannia nudiflora – (NK).
Tradescantia albiflora (Spider Wort) – (SWA).

CYPERACEAE

Carex divisa (Divided Sedge) – (SWA, JF).
Cyperus brevifolius (Mullumbimby Couch) – (OVP, DL, PIL, CAR, SWA).
Cyperus compressus – (NK, VB, DL).
Cyperus congestus (Dense Flat-Sedge) – (PIL, CAR, GS, SWA, JF, WAR, ESP).
Cyperus eragrostis (Umbrella Sedge) – (AW, SWA, JF, WAR, ESP).
Cyperus hamulosus – (GD, CAR, GAS, MUR).
Cyperus involucratus (haspan) – (PIL, SWA).
Cyperus laevigatus – (GS, SWA, WAR, ESP). This may be a cosmopolitan wetland native.
Cyperus papyrus (Papyrus) – (SWA, JF).
Cyperus polystachyos (Bunchy Sedge) – (VB, CK, DL, PIL, *SWA, *JF). Native to the tropics.
Cyperus rotundus (Nut Grass) – (VB, CK, DL, PIL, *GS, *SWA, *JF). Native to the tropics.
Cyperus tenellus (Tiny Flatsedge) – (GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).
Cyperus tenuiflorus (Scaly Sedge) – (CAR, AW, SWA, JF, WAR).
Cyperus vosteri – (SWA).
Isolepis hystrix – (SWA, JF, ESP).

Isolepis marginata – (CAR, MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP). Given as a South African species in Flora of NSW (Wilson 2000), but often listed as native in WA.

Isolepis prolifera (Budding Club-Rush) – (SWA, JF, WAR, ESP).

HYACINTHACEAE

Albuca canadensis – (SWA).
Lachenalia aloides (Soldiers) – (SWA).
Lachenalia bulbifera – (SWA).
Lachenalia mutabilis – (SWA).
Lachenalia reflexa – (SWA, JF, ESP).
Muscari comosum (Tassel Hyacinth) – (GS, AW, SWA).
Ornithogalum arabicum (Arab's Eye) – (GS, AW, SWA).
Ornithogalum longibracteatum (Pregnant Onion) – (SWA, JF).
Ornithogalum thyrsoides (Chincherinchee) – (SWA).

HYDROCHARITACEAE

Egeria densa (Dense Waterweed) – (SWA).
Elodea canadensis (Canadian Pondweed) – (SWA).
Ottelia ovalifolia var. *chrysobasis* (Swamp Lily) – (NK, OVB, DL, *SWA). Native to the Kimberley.
Vallisneria americana (Ribbon Weed) – (SWA, JF, WAR).

IRIDACEAE

Babiana angustifolia (Baboon Flower) – (SWA, JF, AW, WAR).
Babiana nana – (SWA, JF, WAR).
Babiana tubulosa var. *tubiflora* – (SWA).
Chasmanthe floribunda (African Cornflag) – (GS, AW, SWA, JF, WAR, ESP).
Crocasmia × crocosmiiflora (Montbretia) – (JF, WAR).
Dierama pendulum (Fairy Fishing Rod) – (JF).
Dietes grandiflora – (JF).
Ferraria crispa (Black Flag) – (AW, SWA, JF, WAR, ESP).
Freesia alba × leichtlinii (Freesia) – (AW, SWA, JF, MAL, WAR, ESP).
Gladiolus alatus – (AW).
Gladiolus angustus (Long-Tubed Painted Lady) – (SWA, JF, WAR, ESP).
Gladiolus cardinalis – (SWA, JF).
Gladiolus carneus – (SWA, JF, WAR).
Gladiolus caryophyllaceus (Pink Gladiolus) – (GS, AW, SWA, MAL, JF).
Gladiolus communis – (SWA, JF, WAR).
Gladiolus tristis – (AW, SWA, JF).
Gladiolus undulatus (Wavy Gladiolus) – (SWA, JF, WAR, ESP).
Gynandriris setifolia = *Moraea setifolia*
Hesperantha falcata – (SWA, JF).
Hexaglottis lewisiae = *Moraea lewisiae*
Homeria flaccida = *Moraea flaccida*
Homeria miniata = *Moraea miniata*
Homeria ochroleuca = *Moraea ochroleuca*
Homoglossum watsonium (Red Afrikaner) – (JF).
Iris laevigata (Japanese Iris) – (WAR).
Iris germanica (German Iris) – (JF, WAR, ESP).
Ixia maculata (Yellow Ixia) – (SWA, JF, WAR, ESP).
Ixia maculata × I. polystachya – (SWA, JF, WAR).
Ixia paniculata – (SWA, JF, WAR).
Ixia polystachya (Variable Ixia) – (SWA, JF, WAR).
Moraea flaccida (One-Leaf Cape Tulip) – (GS, AW, SWA, JF, MAL, ESP).
Moraea fugax – (JF).
Moraea lewisiae – (AW, SWA, JF).
Moraea miniata (Two-leaved Cape Tulip) – (GS, AW, SWA, COO, MAL, WAR, ESP).
Moraea ochroleuca – (SWA).
Moraea pavonia – (SWA).
Moraea setifolia (Thread Iris) – (GS, AW, SWA, JF, MAL, ESP).
Moraea vegeta – (SWA).
Romulea flava var. *minor* – (SWA, JF).
Romulea minutiflora – (AW, ESP).
Romulea obscura – (SWA).
Romulea rosea var. *australis* (Guildford Grass) – (GS, AW, SWA, JF, MAL, WAR, COO, ESP).

Romulea rosea var. *communis* (Guildford Grass) – (GS, AW, SWA, JF, MAL, WAR, COO, ESP).

Sisyrinchium exile – (SWA).

Sisyrinchium iridifolium – (SWA, JF).

Sisyrinchium sp. (A. Hart sn) – (SWA).

Sparaxis bulbifera – (SWA, JF).

Sparaxis grandiflora – (SWA, JF, WAR).

Sparaxis pillansii (Harlequin Flower) – (SWA, JF, AW, WAR).

Tritonia crocata – (SWA, JF).

Tritonia lineata – (SWA, JF, WAR).

Watsonia aletroides – (SWA).

Watsonia borbonica – (SWA, JF, WAR). Hybrids between this species and *W. versfeldii* occur.

Watsonia knysnana – (SWA, JF, WAR).

Watsonia marginata – (SWA, JF, WAR).

Watsonia meriana var. *bulbillifera* (Bulbil Watsonia) – (AW, SWA, JF, WAR, ESP).

Watsonia meriana var. *meriana* – (AW, SWA, JF, WAR).

Watsonia versfeldii – (SWA, JF, WAR).

JUNCACEAE

Juncus acutus subsp. *acutus* (Sharp Rush) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Juncus articulatus – (SWA, JF, WAR).

Juncus bufonius (Toad Rush) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM). Probably only in part, there appears to be a complex of native and introduced taxa in this species.

Juncus capitatus – (GS, AW, SWA, JF, MAL, WAR, ESP).

Juncus effusus (Soft Rush).

Juncus gerardii (Mud Rush).

Juncus imbricatus – (JF, ESP).

Juncus microcephalus – (SWA, JF, WAR, ESP).

Juncus oxycarpus – (SWA, JF, WAR).

Juncus polyanthemus – (SWA, JF)

Juncus usitatus – (SWA, JF, WAR).

JUNCAGINACEAE

Triglochin bulbosa – (SWA).

ORCHIDACEAE

Disa (*Monadenia*) *bracteata* (South African Orchid) – (GS, AW, SWA, JF, WAR, ESP).

POACEAE

Agrostis capillaris var. *aristata* (Brown Top Bent) – (WAR).

Agrostis capillaris var. *capillaris* (Brown Top Bent) – (JF, WAR, ESP).

Agrostis gigantea (Red Top Bent) – (JF, WAR)

Agrostis stolonifera (Creeping Bent) – (SWA, JF, WAR)

Aira caryophyllaea (Silvery Hairgrass) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).

Aira cupaniana (Hairgrass) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).

Aira elegans – (SWA, JF, AW, ESP).

Aira praecox (Early Hairgrass) – (SWA, JF, MAL, WAR, ESP)

Alopecurus geniculatus (Foxtail) – (YAL, AW, COO, MAL, WAR).

Alopecurus myosuroides (Blackgrass, Slender Foxtail) – (SWA, JF).

Alopecurus pratensis (Meadow Foxtail) – (YAL, SWA).

Ammophila arenaria (Marram Grass) – (SWA, JF, WAR, ESP).

Andropogon distachyos – (SWA, JF).

Andropogon gayanus (Gamba Grass) – (NK, VB, PIL).

Anthoxanthum odoratum (Sweet Vernal Grass) – (GS, AW, SWA, JF, WAR, ESP).

Aristida ramosa – (SWA). This species is listed as introduced from Eastern Australia, but it appears to behave as a native.

Arrhenatherum bulbosum (*elatius* var. *bulbosum*) (Bulbous Oatgrass, Onion Couch) – (JF, WAR).

Arundo donax (Giant Reed) – (VB, OVP, DL, PIL, CAR, SWA, JF, WAR). Most naturalized collections in WA are the green leaved cultivar, but forms with leaves striped white are often recorded around Perth

(SWA, JF). These should be regarded as cv. 'Variegata' or cv. 'Versicolor' (Grounds 1979).

Avellinia michelii – (GS, AW, SWA, JF, MAL, WAR, ESP).

Avena abyssinica – (GS, AW).

Avena barbata (Bearded Oat) – (CAR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP).

Avena fatua (Wild Oat) – (GD, CAR, MUR, GS, AW, SWA, JF, COO, WAR, ESP).

Avena sterilis (Sterile Oat) – (CAR, GS, AW, MAL, ESP).

Axonopus affinis (Narrow-leaved Carpet Grass) – (VB, SWA, JF, WAR). A lawn weed in the Kimberley. Includes material previously listed as *A. compressus* (Broad-leaved Carpet Grass).

Axonopus fissifolius – (NK).

Bothriochloa pertusa (Indian Blugrass) – (NK, VB, CK, DL, GS).

Brachypodium distachyon (False Brome) – (GS, AW, SWA, JF).

Briza maxima (Blowfly Grass, Quaking Grass) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Briza minor (Shivery Grass) – (MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).

Bromus alopecuroides – (SWA, JF, AW).

Bromus catharticus (Prairie Grass) – (AW, SWA, JF, NUL, WAR, ESP).

Bromus diandrus (Great Brome, Brome Grass) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).

Bromus hordeaceus (Soft Brome) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Bromus japonicus var. *japonicus* (Japanese Brome) – (CAR, GS, AW, COO).

Bromus japonicus var. *vestitus* (Japanese Brome) – (MUR, GS, AW).

Bromus madritensis (Madrid Brome) – (GS, AW, SWA, JF, COO, WAR, ESP).

Bromus molliformis – (SWA). Recorded as present in WA by Jacobs and Hastings (1993).

Bromus rigidus – (CAR, GS, AW, JF, COO, MAL, WAR, ESP).

Bromus rubens (Red Brome) – (CAR, MUR, GS, SWA, JF, AW, MAL, COO, NUL, HAM).

Bromus sterilis. Recorded as present in WA by Jacobs and Hastings (1993).

Bromus tectorum. Recorded as present in WA by Jacobs and Hastings (1993).

Cenchrus biflorus (Gallon's Curse) – (VB, OVP, CK, DL).

Cenchrus ciliaris (Buffel Grass) – (VB, OVP, CK, DL, TAN, GSD, PIL, LSD, GD, CAR, GAS, MUR, GS, YAL, AW, SWA, COO).

Cenchrus echinatus (Mossman River Grass) – (NK, VB, OVP, CK, DL, PIL, CR, CAR, GS, AW, SWA, MAL, ESP).

Cenchrus incertus (Spiny Burrgrass) – (NK, VB, OVP, DL, PIL).

Cenchrus longispinus (Spiny Burrgrass) – (GS, JF, AW, COO).

Cenchrus setigerus (Birdwood Grass) – (NK, VB, CK, OVP, DL, GSD, PIL, CAR, GAS, MUR, GS).

Chloris barbata (Purpletop Chloris) – (NK, DL, VB, OVP, PIL).

Chloris gayana (Rhodes Grass) – (NK, VB, CK, SWA, JF, MAL, WAR, ESP).

Chloris virgata (Windmill Grass, Feathertop Rhodes Grass) – (NK, VB, CK, DL, GAS, PIL, CAR, MUR, GS, AW, COO, MAL, ESP).

Cortaderia selloana (Pampas Grass) – (SWA, JF, AW, WAR).

Crypsis schoenoides – (SWA).

Cynodon dactylon (Couch) – (NK, VB, OVP, CK, DL, PIL, *CAR, *MUR, *GS, *AW, *SWA, *JF, *COO, *MAL, *WAR, *ESP).

Cynodon nlemfuensis var. *nlemfuensis* – (NK).

Cynosurus cristatus (Crested Dog's Tail) – (JF).

Cynosurus echinatus (Rough Dogstail) – (SWA, JF, WAR, ESP).

Dactylis glomerata (Cocksfoot) – (SWA, JF, WAR, ESP).

Dactyloctenium aegypticum (Coast Button Grass) – (NK, VB, DL).

Dactyloctenium australe (Durban Grass) – (CAR, SWA).

Desmazeria marinum – (SWA, WAR).

Desmazeria rigida (Rigid Fescue) – (GS, SWA, JF, AW, WAR, ESP).

Dichanthium aristatum (Angleton Grass) – (VB).

Digitaria aequiglumis – (SWA).

Digitaria ciliaris (Summer Grass) – (NK, VB, CK, DL, OVP, PIL, MUR, GS, AW, SWA, JF, MAL, ESP).

- Digitaria didactyla* (Queensland Blue) – (SWA, JF).
Digitaria sanguinalis (Crab Grass) – (DL, AW, SWA, JF, COO, MAL, WAR).
Digitaria violascens – (SWA, JF).
Echinochloa colona (Awnless Barnyard Grass) – (NK, CK, DL, OVP, VB, TAN, PIL).
Echinochloa crus-galli (Barnyard Grass) – (SWA, JF, MAL, WAR).
Echinochloa crus-pavonis (South American Barnyard Grass) – (SWA).
Echinochloa elliptica – (VB). A native species that is a weed of Rice crops in the Ord Valley.
Echinochloa esculenta (Japanese Millet) – (VB, DL).
Echinochloa frumentacea (Siberian Millet) – (VB, CK, DL).
Echinochloa microstachya (Prickly Barnyard Grass) – (VB).
Echinochloa oryzoides (Hairy Barnyard Grass) – (VB, CK).
Echinochloa telmatophila (Swamp Barnyard Grass) – (SWA, JF).
Ehrharta brevifolia* var. *cuspidata – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Ehrharta calycina (Perennial Veldt Grass) – (GS, AW, SWA, JF, MAL, ESP).
Ehrharta erecta (Panic Veldt Grass) – (SWA, JF, WAR).
Ehrharta longiflora (Annual Veldt Grass) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP, HAM).
Ehrharta pusilla – (WAR).
Ehrharta villosa (Pyp Grass) – (GS, SWA, JF, WAR).
Eleusine indica (Crowsfoot Grass) – (VB, DL, SWA).
Elymus scaber – (YAL, AW, SWA, JF, COO, MAL, WAR).
Elytrigia repens (English Couch) – (SWA, JF, WAR).
Eragrostis barrelieri (Pitted Lovegrass) – (CAR, GS).
Eragrostis cilianensis (Stinkgrass) – (VB, DL, GS, AW, SWA, JF, MAL, ESP).
Eragrostis curvula (African Love Grass) – (CAR, GS, AW, SWA, JF, COO, MAL, ESP, HAM).
Eragrostis mexicana (Mexican Lovegrass) – (AW, COO, MAL).
Eragrostis minor (Small Stinkgrass) – (DL, AW, COO).
Eragrostis tenuifolia (Elastic Grass) – (DL).
Eustachys distichophylla (Evergreen Chloris) – (AW, GS).
Festuca arundinacea (Tall Fescue) – (SWA, JF, WAR).
Festuca pratensis (Meadow Fescue) – (SWA, JF).
Festuca rubra (Red Fescue) – (GS, SWA, JF, WAR).
Gastridium phleoides (Nit Grass) – (SWA, JF, WAR).
Glyceria declinata – (SWA).
Glyceria maxima (Reed Sweetgrass) – (SWA, JF).
Hainardia cylindrica (Common Barbgrass) – (AW, SWA, JF, WAR).
Holcus lanatus (Yorkshire Fog) – (SWA, JF, AW, WAR).
Holcus setiger (Annual Fog) – (SWA, JF, WAR).
Hordeum geniculatum (Mediterranean Barley Grass) – (GS, SWA, JF, AW).
Hordeum glaucum (Northern Barley Grass) – (AW, SWA, JF, COO, NUL, MAL, ESP).
Hordeum leporinum (Barley Grass) – (LSD, CAR, MUR, GS, AW, SWA, JF, COO, ESP).
Hordeum marinum (Sea Barley) – (GS, SWA, JF, ESP).
Hyparrhenia hirta (Tamboukie Grass) – (GS, SWA, JF, WAR, ESP).
Isachne pulchella – (NK, DL).
Lagurus ovatus (Hare's Tail Grass) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Lamarckia aurea (Golden Top) – (GS, SWA, MUR, COO, YAL).
Lasiochloa echinata = *Tribolium echinatum*
Lolium loliaceum (Stiff Ryegrass) – (CAR, GS, AW, SWA, JF, MAL, WAR, ESP).
Lolium multiflorum (Italian Ryegrass) – (CAR, GS, AW, SWA, JF, WAR).
Lolium perenne (Perennial Ryegrass) – (SWA, JF, WAR, ESP).
Lolium remotum (Hardy Ryegrass) – (JF).
Lolium rigidum (Annual Ryegrass) – (CAR, GS, AW, SWA, JF, WAR).
Lolium temulentum (Darnel) – (GS, SWA, JF, WAR, ESP).
Lophochloa pumila = *Rostraria pumila*
Melinis minutiflora (Molasses Grass) – (VB, AW).
Melinis (Rhynchelytrum) repens (Natal Red Top) – (NK, CAR, MUR, GS, AW, SWA, JF).
Miscanthus sinensis – (JF).
Oryza rufipogon – (VB).
Oryza sativa (Rice) – (NK, VB).
Panicum antidotale (Giant Panic) – (VB).
Panicum capillare (Witchgrass) – (SWA, JF, WAR, ESP).
Panicum coloratum (Coolah Grass) – (NK).
Panicum maximum = *Urochloa maxima*
Panicum miliaceum (Common Millet) – (SWA, JF, WAR).
Panicum schinzii – (JF).
Parapholis incurva (Coast Barbgrass) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Paspalum conjugatum (Sour Grass) – (VB).
Paspalum dilatatum (Paspalum) – (VB, GS, AW, SWA, JF, WAR).
Paspalum distichum (Water Couch) – (GS, SWA, JF, WAR, ESP).
Paspalum fasciculatum – (VB).
Paspalum plicatulum (Plicatulum) – (VB).
Paspalum scrobiculatum (Ditch Millet) – (NK, VB, CK, DL).
Paspalum urvillei (Vasey Grass) – (SWA, JF, WAR).
Paspalum vaginatum (Salt Water Couch) – (GSD, GS, SWA, JF, WAR, ESP).
Pennisetum clandestinum (Kikuyu) – (SWA, JF, WAR).
Pennisetum macrourum (African Feather Grass) – (SWA, JF, WAR).
Pennisetum pedicellatum* subsp. *pedicellatum – (VB, CK).
Pennisetum pedicellatum* subsp. *unispiculum – (NK, VB, CK, DL).
Pennisetum purpureum (Elephant Grass) – (SWA, JF).
Pennisetum setaceum (Fountain Grass) – (GS, AW, SWA, JF).
Pennisetum villosum (Feather Top) – (GS, SWA, JF).
Pentastichis airoides (False Hairgrass) – (CAR, MUR, GS, AW, SWA, COO, MAL).
Pentastichis pallida – (SWA).
Periballia minuta (Small Hair Grass) – (GS, AW).
Phalaris angusta – (SWA).
Phalaris aquatica (Phalaris) – (GS, AW, SWA, JF, MAL, WAR).
Phalaris arundinacea (Reed Canary Grass) – (SWA, JF, WAR).
Phalaris canariensis (Canary Grass) – (GS, SWA, JF, WAR).
Phalaris minor (Lesser Canary Grass) – (GS, AW, SWA, JF, WAR).
Phalaris paradoxa (Paradoxical Canary Grass, Paradoxa Grass) – (SWA, JF, AW, MAL, ESP).
Phleum arenarium – (JF, WAR).
Phleum pratense (Timothy Grass) – (SWA, WAR).
Phragmites australis (Reed) – (JF, WAR).
Piptatherum miliaceum (Rice Millet) – (SWA, JF, WAR).
Plagiochloa uniolae = *Tribolium uniolae*
Poa annua (Winter Grass) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Poa bulbosa (Bulbous Meadowgrass) – (AW).
Poa infirma (Early Wintergrass) – (AW, SWA).
Poa pratensis (Kentucky Blue Grass) – (AW, SWA, JF, WAR).
Polypogon maritimus (Coastal Barbgrass) – (SWA, JF, WAR).
Polypogon monspeliensis (Annual Barbgrass) – (CAR, YAL, AW, COO, MUR, NUL, GS, AW, SWA, JF, WAR, ESP).
Polypogon viridis (Water Bent) – (JF, WAR, ESP).
Puccinellia ciliata (Puccinellia) – (JF, AW, WAR, ESP).
Rhynchelytrum repens = *Melinis repens*
Rostraria cristata (Annual Cat's Tail) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, ESP, HAM).
Rostraria (Lophochloa) pumila (Rough Cat's Tail) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, ESP, HAM).
Schismus arabicus (Araby Grass) – (MUR, COO, MAL).
Schismus barbatus (Arabian Grass) – (AW, MUR, COO, ESP).
Setaria italica (Italian Millet) – (PIL, GAS, MUR, AW, SWA, JF).
Setaria palmifolia – (SWA, JF).
Setaria parviflora (gracilis) (Slender Pigeon Grass) – (SWA, JF).
Setaria pumila (Pale Pigeon Grass) – (SWA, JF).
Setaria sphacelata (South African Pigeon Grass) – (VB, OVP, DL, PIL, LSD, CAR, GAS, MUR, MAL, GS, SWA).
Setaria verticillata (Whorled Pigeon Grass) – (VB, OVP, DL, PIL, LSD, CAR, GAS, MUR, MAL, GS, SWA).
Setaria viridis (Green Pigeon Grass) – (VB).
Sorghum × alnum (Columbus Grass) – NK, VB.
Sorghum amplum – (NK, VB).

Sorghum bicolor (Grain or Cultivated Sorghum) – (VB, SWA).

Sorghum halepense (Johnson Grass) – (SWA, JF, WAR).

Sorghum sudanense – (SWA, JF, WAR).

Spinifex sericeus – (SWA, WAR).

Sporobolus indicus var. *capensis* (Paramatta Grass, Rats' Tails) – (SWA, JF, WAR, ESP).

Sporobolus pyramidalis – (DL).

Stenotaphrum secundatum (Buffalo Grass) – (SWA, JF, WAR).

Thinopyron distichum (Sea Wheat) – (SWA).

Tribolium echinatum (*Lasiochloa echinata*) – (JF).

Tribolium (Plagiochloa) uniolae – (SWA, JF).

Urochloa decumbens (Signal Grass) – (VB).

Urochloa maxima (*Panicum maximum*) (Guinea Grass) – (NK, VB, SWA, JF, WAR, ESP).

Urochloa mosambicensis (Sabi Grass) – (NK, VB, CK).

Urochloa mutica (Para Grass) – (OVP, VB, SWA).

Urochloa panicoides (*Urochloa* Grass, Liverseed Grass) – (VB, DL, GS, AW).

Urochloa ramosa – (NK).

Urochloa subquadriflora – (NK, VB, CK, DL).

Vulpia bromoides (Squirrel's Tail Fescue) – (SWA, JF, AW, MAL, WAR, ESP).

Vulpia fasciculata (Sand Fescue) – (SWA, JF, AW, WAR, ESP).

Vulpia muralis (Wall fescue) – (MUR, GS, AW, COO, MAL, ESP).

Vulpia myuros (Rat's Tail Fescue, Silver Grass) – (GS, AW, COO, SWA, JF, MAL, WAR, ESP).

PONTERIACEAE

Eichhornia crassipes (Water Hyacinth) – (SWA).

Pontederia cordata (Pickerel Weed) – (JF).

POTAMOGETONACEAE

Potamogeton crispus (Curly Pondweed) – (CK, DL, PIL, *SWA).

TECOPHILAEACEAE

Cyanella hyacinthoides – (AW, SWA, JF).

TYPHACEAE

Typha orientalis (Bulrush, Cumbungi) – (GS, AW, SWA, JF, MAL, WAR, ESP).

FLOWERING PLANTS – DICOTYLEDONS

ACANTHACEAE

Thunbergia alata – (SWA, JF, WAR).

AIZOACEAE

Aptenia cordifolia – (JF).

Carpobrotus aequilaterus – (Angular Pigface) – (GS, SWA, JF, MAL, WAR, ESP).

Carpobrotus edulis (Hottentot Fig) – (SWA, JF, AW, WAR).

Carpobrotus edulis × *virescens* (ST Blake 20982) – (SWA).

Carpobrotus edulis × *Sarcozona* sp. (GK 13949) – (SWA).

Clenethum papulosum – (CAR, MUR, GS, YAL, AW, COO, JF, ESP).

Delosperma vinaceum – (GS).

Dorotheanthus bellidiformis (Livingstone Daisy) – (JF).

Droseranthemum candens (Redondo Creeper) – (SWA, JF, WAR).

Galenia pubescens var. *pubescens* – (SWA, JF, COO, WAR).

Lampranthus glaucus (Scarlet Pigface) – (JF, WAR).

Lampranthus multiradiatus – (SWA, JF).

Mesembryanthemum aitonis (Angled Ice Plant) – (ESP).

Mesembryanthemum crystallinum (Ice Plant) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).

Mesembryanthemum nodiflorum (Slender Iceplant) – (MUR, GS, YAL, AW, COO, MAL, ESP).

Ruschia tumidula – (JF, WAR).

Psilocalon tenue (Wiry Noon Flower) – (SWA).

Tetragonia decumbens (Sea Spinach) – (GS, SWA, JF, WAR, ESP).

Tetragonia nigrescens – (SWA).

Trianthema portulacastrum (Giant Pigweed) – (NK, VB, OVP, CK, DL, PIL).

AMARANTHACEAE

Aerva javanica (Kapok Bush) – (NK, VB, OVP, CK, DL, TAN, PIL, LSD, CAR, GAS).

Alternanthera pungens (Khaki Weed) – (OVP, VB, CK, DL, PIL, CAR, GS, AW, SWA, COO, MAL, ESP).

Amaranthus albus (Tumbleweed) – (GS, YAL, AW, SWA, JF, MAL, WAR, ESP).

Amaranthus caudatus (Love Lies Bleeding) – (SWA, JF, AW, WAR).

Amaranthus cruentus – (SWA).

Amaranthus hybridus – (DL, SWA, WAR).

Amaranthus lividus – (SWA). Occasional in very disturbed wetlands.

Amaranthus powellii (Powell's Amaranth) – (SWA, JF, WAR).

Amaranthus retroflexus – (SWA, ESP).

Amaranthus tricolor (Joseph's Coat) – (VB, CK).

Amaranthus viridis (Green Amaranth) – (NK, VB, PIL, GS, SWA, JF, COO, MAL, ESP).

Celosia argentea (Chinese Cockscomb) – (NK).

Gomphrena celosioides (Gomphrena Weed) – (NK, VB, CK, DL, PIL, CAR, GS).

Guilleminea densa (Small Matweed) – (VB, DL).

Ptilotus polystachyus (Bottlewashers, Green Mullamulla) – (NK, VB, CK, OVP, DL, TAN, GSD, PIL, CAR, LSD, GD, CR, GAS, MUR, GVD, GS, YAL, AW, SWA, JF, COO, MAL, ESP, *AW, *JF).

Pupalia lappacea – (NK, DL, PIL).

Pupalia micrantha – (NK, DL, PIL).

ANACARDIACEAE

Mangifera indica (Mango) – (NK).

Schinus molle var. *areira* (Pepper Tree) – (MUR, GS, MAL, COO, JF).

Schinus terebinthifolia (Brazilian Pepper, Japanese Pepper) – (GS, AW, SWA, JF).

ANNONACEAE

Annona squamosa – (VB).

APIACEAE

Ammi majus (Queen Anne's Lace) – (GS, AW, SWA, JF, MAL, WAR).

Anthriscus caucalis – (SWA).

Apium graveolens (Celery) – (SWA).

Berula erecta (Water Parsnip) – (WAR).

Bupleurum lancifolium – (AW).

Bupleurum semicompositum – (COO, NUL, MAL, HAM).

Cyclosporum leptophyllum (Slender Celery) – (GS).

Conium maculatum (Hemlock) – (GS, SWA, JF, COO, WAR, ESP).

Coriandrum sativum (Coriander) – (SWA).

Daucus carota (Wild Carrot) – (JF, WAR).

Foeniculum vulgare (Fennel) – (SWA, JF, WAR, ESP).

Hydrocotyle bonariensis – (AW, SWA).

Hydrocotyle ranunculoides (Hydrocotyl) – (SWA).

Pastinaca sativa (Parsnip) – (GS, SWA).

Petroselinum crispum (Parsley) – (SWA).

APOCYNACEAE

Allamanda cathartica (Yellow Allamanda) – (NK).

Cascabela thevetia (Yellow Oleander) – (NK).

Catharanthus roseus (Madagascar Periwinkle) – (NK, PIL, CAR, GS).

Nerium oleander (Oleander) – (DL, SWA).

Vinca major (Blue Periwinkle) – (SWA, JF, WAR).

ARALIACEAE

Hedera helix (Ivy) – (SWA, JF, WAR).

ASCLEPIADACEAE

Araujia sericifera (Moth Plant) – (SWA, JF).

Asclepias curassavica (Redhead Cotton Bush, Blood Flower) – (PIL, CAR, GS, AW, SWA, JF, COO).

- Calotropis gigantea* (Giant Calotrope) – (NK, CK, DL).
Calotropis procera (Rubber Tree) – (NK, VB, OVP, CK, DL).
Cryptostegia grandiflora (Rubbervine) – (NK).
Cryptostegia madagascariensis var. *glaberrima* (Rubbervine) – (NK, DL).
Gomphocarpus fruticosus (Swan Plant) – (AW, SWA, JF, MAL, WAR, ESP).
Gomphocarpus physocarpus (Balloon Cotton Bush) – (SWA, JF).
Orbea variegata – (COO).
- ASTERACEAE
- Acanthospermum hispidum* (Starburr) – (NK, VB, CK, OVP, DL, SWA).
Achillea millefolium (Yarrow) – (SWA, JF, WAR, ESP).
Acroptilon repens (Creeping Knapweed) – (AW, MAL, ESP). Presumed eradicated.
Ageratum conyzoides – (NK, CK, DL).
Ambrosia artemisiifolia (Annual Ragweed) – (SWA, JF).
Ambrosia psilostachya (Perennial Ragweed) – (AW, SWA, COO).
Anthemis cotula (Stinking Mayweed) – (JF, WAR).
Arctotheca calendula (Capeweed) – (CAR, MUR, GS, YAL, AW, SWA, JF, MAL, WAR, COO, ESP, HAM).
Arctotheca populifolia (Dune Arctotheca) – (GS, SWA, JF, COO, MAL, WAR, ESP, HAM).
Arctotis stoechadifolia (Arctotis) – (SWA).
Argyranthemum foeniculaceum (Tenerife Daisy) – (SWA).
Argyranthemum frutescens – (SWA).
Artemisia absinthium (Silver Wormwood) – (SWA).
Aster subulatus = *Symphotrichum subulatum*
Bellis perennis (English Daisy) – (SWA).
Berkheya rigida (African Thistle) – (SWA, JF, WAR).
Bidens bipinnata (Bipinnate Beggar's Tick) – (NK, VB, DL, PIL, CAR, LSD, CR, CAR, GAS, GS).
Bidens pilosa (Cobbler's Pegs) – (NK, VB, OVP, CK, DL, PIL).
Carduus nutans (Nodding Thistle) – (ESP). Eradicated in mid 1970's.
Carduus pycnocephalus (Slender Thistle) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Carduus tenuiflorus (Winged Slender Thistle) – (SWA, JF, COO, MAL, WAR, ESP).
Carthamus lanatus (Saffron Thistle) – (CAR, MUR, COO, GS, AW, SWA, JF, NUL, MAL, ESP).
Carthamus leucocaulos (Glaucous Star Thistle) – (AW, MAL).
Carthamus tinctorius (Safflower) – (GS, JF, AW, ESP).
Centaurea calcitrapa (Star Thistle) – (AW, SWA).
Centaurea melitensis (Maltese Cockspur) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).
Centaurea solstitialis (St. Barnaby's Thistle) – (SWA, JF, MAL, NUL, ESP).
Chamomilla suaveolens (Chamomile) – (WAR).
Chondrilla juncea (Skeleton Weed) – (GS, AW, SWA, JF, MAL, ESP).
Chrysanthemoides monilifera subsp. *monilifera* (Boneseed, Bitou Bush) – (GS, AW, SWA, JF, WAR).
Chrysanthemum coronarium (Crown Daisy) – (GS, SWA).
Chrysanthemum segetum (Corn Marigold) – (SWA, JF, WAR).
Chrysocoma coma-aurea – (SWA).
Cichorium intybus (Chicory) – (AW, SWA, JF, COO, WAR).
Cirsium arvense var. *arvense* (Creeping Thistle, Californian Thistle) – (GS, SWA, WAR, ESP).
Cirsium vulgare (Spear Thistle) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Conyza albida = *Conyza sumatrensis*
Conyza bonariensis (Flaxleaf Fleabane) – (NK, CK, DL, PIL, CAR, MUR, GS, SWA, JF, COO, MAL, WAR, ESP).
Conyza canadensis var. *canadensis* – (SWA, JF, WAR).
Conyza parva – (SWA, JF, WAR).
Conyza sumatrensis (*Conyza albida*) (Tall Fleabane) – (GS, AW, COO, SWA, JF, WAR, ESP).
Coreopsis grandiflora (American Tickseed) – (JF, WAR).
Cotula australis (Carrot Weed, Common Cotula) – (MUR, COO, GS, AW, SWA, JF, MAL, WAR, ESP, *SWA, *JF, *COO, *WAR). This native species is a weed of lawns, paddocks and roadsides.
Cotula bipinnata (Fern Cotula) – (MUR, GS, YAL, AW, SWA, JF, WAR, ESP).
Cotula coronopifolia (Waterbuttons) – (GS, AW, SWA, JF, WAR, ESP). This native species is spreading in nutrient enriched wetlands. It is also considered a weed by Romanowski (1998).
Cotula turbinata (Funnel Weed) – (AW, SWA, JF, WAR).
Crepis capillaris – (Smooth Hawksbeard) – (SWA, JF, WAR).
Crepis foetida – (Stinking Hawksbeard) – (SWA, JF, WAR).
Crepis vesicaria (Beaked Hawksbeard) – (SWA, JF).
Cyanthillium cinereum (*Vernonia cinerea*) (Vernonia) – (NK, VB, OVP, CK, DL). This species is a pantropical weed.
Cynara cardunculus subsp. *flavescens* (Artichoke Thistle) – (JF, WAR).
Delairea odorata (Cape Ivy) – (SWA, JF).
Dimorphotheca ecklonis = *Osteospermum ecklonis*
Dittrichia graveolens (Stinkwort) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, WAR, ESP).
Dittrichia viscosa – (SWA, JF, WAR, ESP).
Eclipta prostrata – (VB).
Eclipta sp. **Perth** (S. Lloyd s.n. 3/4/1998) – (SWA).
Emilia sonchifolia (Red Tassel Flower) – (NK, VB, DL).
Erigeron karvinskianus (Wall Daisy) – (JF, WAR).
Filago gallica (Slender Cudweed) – (SWA, JF, WAR).
Galinsoga parviflora (Potato Weed, Gallant Soldiers) – (SWA, JF, WAR).
Gamochaeta americana (*Gnaphalium purpureum*) (Spiked Cudweed) – (SWA).
Gamochaeta falcata (Cudweed) – (GS, AW, SWA, JF, WAR, ESP).
Gazania linearis (Gazania) – (GS, AW, SWA, JF, COO, WAR, ESP).
Gazania rigens – (WAR).
Gnaphalium candidissimum = *Vellereophyton dealbatum*
Gnaphalium polycaulon – (NK, VB, CK, DL, PIL, CAR).
Gnaphalium purpureum = *Gamochaeta americana*
Gorteria personata (Gorteria) – (GS, AW).
Hedypnois rhagadioloides (Cretan Weed) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, WAR, ESP).
Helianthus annuus (Sunflower) – (CAR, GS, SWA, JF, COO, ESP).
Helianthus debilis subsp. *cucumerifolius* – (SWA).
Helminthotheca echinoides (Ox Tongue) – (SWA, JF, AW).
Hypochaeris glabra (Smooth Catsear) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP, HAM).
Hypochaeris radicata (Flatweed) – (AW, SWA, JF, MAL, WAR, ESP).
Lactuca saligna (Willow Leaf Lettuce, Wild Lettuce) – (GS, AW, SWA, JF, WAR, ESP).
Lactuca serriola (Prickly Lettuce) – (CAR, MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Lactuca virosa – (MAL).
Launaea sarmentosa – (PIL, CAR). A strand plant, previously considered introduced, but the most recent taxonomic revision of the genus (Kilian 1997) lists it as native.
Leontodon hispidus subsp. *hispidus* – (WAR).
Leontodon saxatilis (Lesser Hawkbit) – (SWA, JF, WAR, ESP).
Leucanthemum maximum – (SWA, WAR).
Matricaria recutita – (AW).
Oligocarpus calendulaceus – (COO, NUL, HAM).
Onopordum acaulon (Stemless Thistle) – (GS, AW, MAL, ESP).
Osteospermum clandestinum = *Tripteris clandestina*
Osteospermum (*Dimorphotheca*) *ecklonis* (Veldt Daisy) – (SWA, JF, WAR).
Pentzia globifera – (AW, COO).
Pentzia suffruticosa (Calomba Daisy) – (AW, COO, WAR, ESP).
Pseudognaphalium luteoalbum (Jersey Cudweed) – (NK, DL, PIL, CR, CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP). Considered as native in Eastern Australia.
Reichardia tingitana (False Sowthistle) – (CAR, GS, SWA, COO).
Senecio diaschides – (SWA, JF, WAR, ESP).
Senecio elegans – (SWA, JF, WAR, ESP).
Senecio glastifolius – (JF).
Senecio jacobaea (Ragwort) – (JF, WAR).
Senecio lautus subsp. *maritimus* (Variable Groundsel) – (GS, SWA, JF, COO, MAL, WAR, ESP, HAM, *SWA). Local Perth variant can be weedy along verges and in paddocks.
Senecio tamoides (Canary Creeper) – (SWA, WAR, ESP).
Senecio vulgaris (Common Fireweed) – (SWA, JF, WAR, ESP).

Sigesbeckia orientalis (Indian Weed) – (PIL, CR, CAR, JF, WAR). The desert form of this species may be native.
Silybum marianum (Variegated Thistle) – (GS, AW, SWA, JF, MAL, WAR).
Solidago canadensis (Goldenrod) – (SWA, JF, WAR, ESP).
Soliva pterosperma (Bindii, Jo-jo, Onehunga) – (DL, GS, AW, SWA, JF, WAR, ESP).
Soliva sessilis (Bindii) – (SWA).
Sonchus asper subsp. *glaucescens* (Prickly Sowthistle) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Sonchus oleraceus (Sowthistle) – (OVP, DL, GSD, PIL, CR, CAR, GAS, MUR, GVD, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).
Sonchus tenerrimus (Clammy Sowthistle) – (CAR, MUR, GVD, GS, AW, SWA, COO, NUL, MAL, ESP, HAM).
Symphotrichum subulatum (*Aster subulatus*) (Bushy Starwort) – (GS, AW, SWA, JF, COO, WAR, ESP).
Tagetes minuta (Stinking Roger) – (JF).
Taraxacum officinale (Dandelion) – (SWA, JF, AW, COO, ESP).
Tolpis barbata (Tolpis) – (SWA, JF, WAR).
Tragopogon porrifolius (Salsify, Oyster Plant) – (SWA, JF, COO, WAR).
Tridax procumbens (Tridax) – (NK, VB, OVP, CK, DL).
Tripteris clandestina (*Osteospermum clandestinum*) (Stinking Roger) – (MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, ESP).
Urospermum picroides (False Hawkbit) – (CAR, GAS, MUR, GS, SWA, JF, AW).
Ursinia anthemoides (Ursinia) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Ursinia speciosa – (AW, WAR).
Vellereophyton dealbatum (*Gnaphalium candidissimum*, *V. candidissimum*) (White Cudweed) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Vernonia cinerea = *Cyanthillium cinereum*
Verbesina encelioides (Crownbeard) – (DL, GS, AW, SWA).
Xanthium occidentale (Noogoora Burr) – (VB, CK, DL, SWA, WAR).
Xanthium spinosum (Bathurst Burr) – (AW, SWA, WAR, COO, NUL).
Xerochrysum bracteatum (Strawflower) – (SWA).

BASELLACEAE

Anredera cordifolia (Madeira Vine) – (SWA, WAR).

BIGNONIACEAE

Tecoma stans (Yellow Tecoma) – (NK, CAR).

BORAGINACEAE

Amsinckia calycina – (AW, COO). Presumed eradicated.
Amsinckia lycopoides (Yellow Burr Weed) – (AW). Presumed eradicated.
Anchusa arvensis – (COO).
Anchusa capensis (Cape Forget-Me-Not) – (SWA, JF, ESP).
Borago officinalis (Borage) – (AW, JF, MAL, WAR).
Buglossoides arvensis (Corn Gromwell) – (MUR, GS, AW, SWA, MAL, COO, NUL).
Cynoglossum amabile (Chinese Houndstongue) – (ESP).
Echium plantagineum (Paterson's Curse) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP).
Heliotropium curassavicum (Smooth Heliotrope) – (DL, OVP, GSD, TAM, PIL, CAR, GAS, MUR, GS, AW, SWA, JF, COO, ESP). This appears to be a pre-European introduction, probably an adventive species.
Heliotropium europaeum (Common Heliotrope) – (GAS, MUR, SWA, JF, AW, COO, NUL, MAL, ESP).
Heliotropium indicum (Blue Heliotrope) – (NK, VB, DL).
Heliotropium supinum – (AW, MAL, ESP).
Myosotis discolor – (JF).
Myosotis sylvatica (Forget-Me-Not) – (JF).
Symphytum officinale – (SWA).

BRASSICACEAE

Alyssum linifolium (Flaxleaf Alyssum) – (GS, YAL, COO).
Brassica barrelieri subsp. *oxyrrhina* (Smooth-Stem Turnip) – (AW, SWA, MAL, ESP).

Brassica fruticulosa (Twiggy Turnip) – (SWA).
Brassica juncea (Indian Mustard) – (GS, SWA, JF, AW, MAL, WAR).
Brassica napus (Canola, Oilseed Rape, Rapeseed) – (GS, SWA, JF, AW, MAL, WAR, ESP).
Brassica nigra (Black Mustard) – (JF, AW).
Brassica oleracea (includes Cabbage, Broccoli and Cauliflower among its various cultivated forms) – (JF, MAL).
Brassica rapa (Turnip) – (GS, YAL, AW, SWA, JF, WAR, ESP).
Brassica tournefortii (Prickly Turnip, Wild Turnip) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).
Cakile edentula (American Sea Rocket) – (HAM).
Cakile maritima (Sea Rocket) – (CAR, GS, SWA, JF, COO, MAL, WAR, ESP, HAM).
Capsella bursa-pastoris (Shepherd's Purse) – (AW, SWA, JF, COO, WAR).
Cardamine hirsuta – (SWA, JF, WAR).
Cardamine sp. – (DL, SWA).
Cardaria draba = *Lepidium draba*
Carrichtera annua (Ward's Weed) – (MUR, AW, COO, NUL, MAL, ESP, HAM).
Coronopus didymus = *Lepidium didymum*
Crambe hispanica – (AW, MAL).
Diplotaxis muralis (Wall Rocket) – (CAR, MUR, GS, AW, SWA, JF, MAL, WAR, ESP).
Diplotaxis tenuifolia (Lincoln Weed, Sand Rocket) – (SWA, JF, MAL, WAR, ESP).
Eruca sativa – (GS, AW, SWA, MAL, ESP).
Heliophila pusilla – (SWA, JF, WAR, ESP).
Hirschfeldia incana – (WAR).
Hornungia (*Hymenolobus*) *procumbens* (Oval Purse) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Lepidium africanum (Common Peppergrass) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Lepidium bonariense (Peppergrass) – (GS, AW, SWA, JF, WAR, ESP).
Lepidium didymum (*Coronopus didymus*) (Lesser Swinegrass) – (CK, PIL, CAR, GAS, MUR, GS, YAL, SWA, JF, MAL, WAR, ESP).
Lepidium (*Cardaria*) *draba* (Hoary Cress) – (AW).
Lobularia maritima (Alyssum, Sweet Alison) – (SWA, JF, WAR, ESP).
Matthiola incana (Stock) – (SWA, JF).
Raphanus raphanistrum (Wild Radish) – (VB, DL, CAR, GS, YAL, AW, SWA, JF, MAL, ESP).
Raphanus sativus – (CAR, GS, SWA).
Rapistrum rugosum (Turnip Weed) – (GS, AW, MAL, SWA, JF, WAR, ESP).
Rorippa nasturtium-aquaticum (Water Cress) – (GS, SWA, JF, WAR).
Rorippa palustris – (JF).
Sinapis alba (White Mustard) – (AW, MAL, ESP).
Sinapis arvensis (Charlock) – (GS, AW, MAL, WAR, ESP).
Sisymbrium erysimoides (Smooth Mustard) – (CAR, MUR, GS, YAL, AW, SWA, COO, NUL).
Sisymbrium irio (London Rocket) – (GAS, MUR, GS, YAL, AW, SWA, COO, NUL, MAL, ESP, HAM).
Sisymbrium officinale (Hedge Mustard) – (AW, SWA, JF, MAL, WAR, ESP).
Sisymbrium orientale (Indian Hedge Mustard) – (PIL, GAS, GD, CAR, MUR, GVD, YAL, AW, SWA, JF, COO, NUL, MAL, ESP, HAM).
Sisymbrium runcinatum – (AW, COO, YAL).
Succowia balearica – (SWA). Presumed eradicated.

BUDDLEJACEAE

Buddleja dysophylla – (SWA).
Buddleja madagascariensis – (SWA).

CACTACEAE

Austrocylindropuntia cylindrica – (CAR).
Cylindropuntia tunicata – (AW, COO).
Opuntia lindheimeri (Prickly Pear) – (GS, AW).
Opuntia sp. (Keighery 7337) – (NUL).
Opuntia stricta (Common Prickly Pear) – (PIL, SWA, JF, AW, ESP).
Opuntia vulgaris (Prickly Pear) – (SWA).

There is no doubt that other *Opuntia* species are present in WA, at least as garden outcasts.

CAESALPINIACEAE

Caesalpinia gilliesii (Bird of Paradise) – (SWA, COO, NUL).

Cassia fistula (Golden Shower) – (NK).

Delonix regia (Poinciana) – (NK).

Gleditsia triacanthos (Honey Locust) – (AW).

Parkinsonia aculeata (Parkinsonia, Jerusalem Thorn) – (NK, VB, OVP, CK, DL, PIL, AW, SWA).

Senna alata (Candle Bush, Ringworm Shrub) – (NK, VB).

Senna barclayana – (OVP, DL).

Senna occidentalis (Coffee Senna) – (NK, VB, DL, PIL, SWA).

Senna tora (Java Bean) – (NK, VB). Randell and Barlow (1998) place WA material in this species, rather than *Senna obtusifolia*, which is used in WA.

Tamarindus indica (Tamarind) – (NK, DL, PIL).

CALLITRICHACEAE

Callitriche hamulata – (SWA).

Callitriche stagnalis (Common Starwort) – (CAR, MUR, GS, AW, SWA, JF, COO, WAR, ESP).

CAMPANULACEAE

Wahlenbergia capensis (Cape Bluebell) – (GS, AW, SWA, JF, MAL, WAR, ESP).

CAPPARACEAE

Cleome gynandra – (NK).

CAPRIFOLIACEAE

Lonicera × americana – (JF, WAR).

Lonicera japonica (Japanese Honeysuckle) – (SWA, JF, WAR).

CARYOPHYLLACEAE

Agrostemma githago (Corn Cockle) – (AW).

Arenaria leptoclados (*serpyllifolia*) (Thyme leaved Sandwort) – (SWA).

Cerastium balearicum (*semidecandrum*) – (SWA, JF, WAR, ESP).

Cerastium comatum – (AW, JF).

Cerastium glomeratum (Sticky Mouse-Ear Chickweed) – (CAR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).

Cerastium pumilum (Small Mouse-Ear Chickweed) – (GS, SWA, JF, WAR).

Cerastium vulgare (*fontanum* subsp. *vulgare*) – (AW, SWA, JF, WAR).

Corrigiola litoralis (Strapwort) – (GS, AW, SWA, JF, WAR, ESP).

Gypsophila tubulosa (Chalkwort) – (CAR, MUR, COO). Often considered as a native species (*G. australis*) or variety.

Hemiaria hirsuta (Rupture Wort) – (COO).

Illecebrum verticillatum – (JF).

Minuartia mediterranea (Sand Wort) – (SWA).

Moenchia erecta (Erect Chickweed) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Petrorhagia dubia (Velvet Pink) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Polycarpon tetraphyllum (Allseed) – (CAR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).

Sagina apetala (Common Pearlwort) – (GS, SWA, JF, COO, MAL, WAR, ESP).

Sagina maritima (Sea Pearlwort) – (SWA, JF, WAR).

Sagina procumbens (Spreading Pearlwort) – (SWA, JF, WAR).

Silene apetala (Mallee Catchfly) – (AW).

Silene gallica var. *gallica* (French Catchfly) – (CAR, MUR, GS, YAL, SWA, JF, COO, MAL, WAR, ESP).

Silene gallica var. *quiquevulnera* (French Catchfly) – (AW, SWA, JF, WAR).

Silene longicaulis – (AW).

Silene nocturna (Mediterranean Catchfly) – (CAR, MUR, GS, YAL, SWA, JF, COO, MAL, WAR, ESP).

Silene vulgaris (Bladder Champion) – (JF, AW, WAR).

Spergula arvensis (Corn Spurrey) – (GS, AW, SWA, JF, WAR).

Spergula pentandra (Five Anther Spurrey) – (MUR, YAL, AW).

Spergularia bocconii – (YAL, AW, ESP).

Spergularia diandra (Small Sand Spurrey) – (CAR, MUR, GS, YAL, SWA, JF, COO, MAL, WAR, ESP).

Spergularia marina (*salina*) (Salt Sand Spurrey) – (MUR, GS, SWA, JF, COO, MAL, WAR, ESP).

Stellaria media (Common Chickweed) – (GS, AW, SWA, JF, COO, MAL, WAR).

Spergularia rubra (Red Sand Spurrey) – (CAR, MUR, GVD, GS, AW, SWA, JF, COO, WAR, ESP).

Stellaria multiflora (Many Flowered Starwort) – (JF, EY).

Vaccaria hispanica (Cowcockle) – (GS, AW, JF, MAL, WAR).

CASUARINACEAE

Allocasuarina huegeliana (Rock Sheoak) – (MUR, GS, JF, COO, WAR, ESP, *SWA).

Casuarina cunninghamiana var. *cunninghamiana* – (JF).

Casuarina equisetifolia – (GS, SWA).

Casuarina glauca – (SWA).

CHENOPODIACEAE

Atriplex amnicola (Swamp Saltbush) – (PIL, CAR, GAS, MUR, GS, YAL, COO, *AW). This species is widely used for saltland rehabilitation and may be naturalized more widely.

Atriplex canescens – (MUR, GS).

Atriplex hortensis – (SWA, JF).

Atriplex lentiformis – (CAR).

Atriplex leptocarpa (Slender-Fruit Saltbush) – (JF, AW).

Atriplex limbata – (LSD, CR, NUR, *AW). Wilson (1984) notes this species is introduced in south-western Australia.

Atriplex prostrata (Hastate Orache) – (GS, AW, SWA, JF, WAR, ESP).

Atriplex semibaccata (Berry Saltbush) – (GS, AW, COO, MAL, *AW, *SWA, *ESP).

Atriplex undulata – (AW).

Bassia (*Kochia*) *scoparia* (*Kochia*, Tumbleweed) – (GS, AW, MAL, ESP). Presumed eradicated.

Chenopodium album (Fat Hen) – (CAR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).

Chenopodium ambiguum see *C. glaucum*

Chenopodium ambrosioides (Mexican Tea) – (SWA, JF, WAR).

Chenopodium giganteum – (AW, SWA, JF, COO, MAL). Wilson (1983) uses *C. album* in the broad sense to encompass *C. giganteum* D. Don., however they are segregated at PERTH Herbarium.

Chenopodium glaucum (Oak-Leaved Goosefoot) – (GS, YAL, AW, SWA, JF, WAR, ESP). Probably includes an introduced (subsp. *glaucum*) and native element (subsp. *ambiguum*).

Chenopodium macrospermum – (SWA, JF).

Chenopodium multifidum – (Scented Goosefoot) – (SWA, JF, WAR).

Chenopodium murale – (Green Fat Hen) – (PIL, CAR, GAS, MUR, GVD, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP). This may also contain a native element, since the type of *C. murale* var. *biforme*, based on Preiss 1256, was collected at Point Walter in 1839, or this was a very early weed record.

Chenopodium pumilio (Clammy Goosefoot) – (PIL, CAR, GS, AW, SWA, JF, MAL, WAR, COO, ESP, *AW, *SWA, *MAL, *ESP). A native weed of crops and pastures.

Salsola tragus is a complex of native and introduced forms, including native *S. tragus* subsp. *grandiflorus* of the tropics (NK, VB, OVP, CK, DL, PIL), native coastal form named *S. australis* by Brown (PIL, CAR, GS, SWA, JF, COO, MAL, WAR, ESP, HAM) and weedy introduced forms of *S. tragus* subsp. *tragus* (NK, OVP, CK, DL, TAN, GSD, LSD, CR, GVD, PIL, CAR, MUR, GS, YAL, AW, SWA, JF, MAL, NUL).

Scleroblitum atriplicinum – (ESP)

Suaeda baccifera – (AW).

CLUSIACEAE

Hypericum canariense (Tutsan) – (JF, WAR, ESP).

Hypericum perforatum var. *angustifolium* (St. John's Wort) – (SWA, JF, WAR).

CONVOLVULACEAE

- Convolvulus arvensis* (Field Bindweed) – (AW, SWA, JF).
Convolvulus sabatius subsp. *mauritanicus* (Ground Morning Glory) – (SWA).
Dichondra micrantha – (SWA).
Evolvulus nummularius – (VB).
Ipomoea batatas – (VB, SWA).
Ipomoea cairica (Mile-A-Minute) – (GS, SWA, JF, WAR).
Ipomoea carnea subsp. *fistulosa* – (VB, CK).
Ipomoea indica (Blue Morning Glory, Dunny Creeper) – (GS, SWA, JF, WAR).
Ipomoea nil – (NK, VB, OVP, CK, DL).
Ipomoea pes-tigridis – (NK).
Ipomoea quamoclit (Cupid's Flower) – (NK, VB, DL, PIL, CAR).
Ipomoea triloba – (NK, DL).
Merremia aegyptia – (NK, DL, VB).
Merremia dissecta – (NK, VB, DL, PIL).
Operculina turpethum – (NK).

CRASSULACEAE

- Aeonium arboreum* – (GS, SWA).
Aeonium haworthii – (SWA, JF, WAR).
Bryophyllum delagoense (Mother of Millions) – (GS).
Cotyledon orbiculata – (JF, WAR).
Crassula alata var. *alata* – (GS, AW, SWA, JF).
Crassula decumbens – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Crassula glomerata – (SWA, JF, WAR, ESP).
Crassula natans var. *minus* – (GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).
Crassula ovata – (SWA).
Crassula tetragona subsp. *robusta* – (WAR).
Crassula thunbergiana – (SWA, JF, WAR).
Portulacaria afra (Jade Plant) – (COO).

CUCURBITACEAE

- Citrullus colocynthis* (Colocynthis) – (NK, VB, OVP, CK, DL, PIL, MUR, AW).
Citrullus lanatus (Pie Melon) – (NK, VB, OVP, CK, DL, PIL, LSD, CAR, GAS, GS, AW, MAL, SWA, JF, COO, ESP).
Coccinia grandis (Ivy Gourd) – (DL).
Cucumis myriocarpus (Prickly Paddy Melon) – (DL, CAR, MUR, GS, AW, SWA, JF, COO, MAL, ESP).
Cucurbita pepo (Autumn Pumpkin) – (SWA).
Ecballium elaterium (Squirting Cucumber) – (AW, NUL).

CUSCUTACEAE

- Cuscuta campestris* (Golden Dodder) – (NK, CK, DL, SWA, JF, WAR).
Cuscuta epithymum (Lesser Dodder) – (CAR, MUR, GS, YAL, AW, SWA, JF, WAR).
Cuscuta planiflora – (CAR, MUR, GS).

DIPSACACEAE

- Scabiosa atropurpurea* (Purple Pincushion, Mournful Widow) – (SWA, JF, COO).

ERICACEAE

- Erica baccans* (Berry Flower Heath) – (JF, WAR).

EUPHORBIACEAE

- Chrozophora tinctoria* (Turnsole) – (AW, JF, MAL, ESP).
Eremocarpus setiger (Dove Weed) – (GS, JF, AW, MAL, ESP).
Euphorbia australis (Namana) – (VB, OVP, CK, DL, TAN, GSD, PIL, LSD, CR, GAS, MUR, GVD, CAR, *GS, *AW, *SWA, *MAL).
Euphorbia cyathophora (Painted Spurge) – (NK, DL, GS, SWA).
Euphorbia dendroides (Tree Spurge) – (AW, SWA, JF, MAL).
Euphorbia drummondii subsp. *drummondii* (Caustic Weed) – (NK, OVP, CK, DL, GD, PIL, CAR, GAS, YAL, COO, NUL, *SWA).
Euphorbia helioscopia (Sun Spurge) – (SWA, JF, WAR).
Euphorbia heterophylla (Mole Plant) – (NK, VB, DL).

- Euphorbia hirta* (Asthma Plant) – (NK, VB, OVP, CK, DL, PIL, CAR, GAS, MUR).

- Euphorbia hyssopifolia* – (GS).

- Euphorbia lathyris* (Caper Spurge) – (SWA, JF, WAR, ESP).

- Euphorbia marginata* (Snow on the Mountain) – (SWA, JF, AW).

- Euphorbia paralias* (Sea Spurge) – (SWA, JF, COO, MAL, WAR, ESP, HAM).

- Euphorbia peplus* (Petty Spurge) – (GS, AW, SWA, JF, WAR, ESP).

- Euphorbia segetalis* (Short Stem Carnation Weed) – (ESP).

- Euphorbia stevenii* (Bottletree Spurge) – (VB, PIL). Native to Queensland. A crop and waste land weed in WA.

- Euphorbia terracina* (Geraldton Carnation Weed) – (MUR, GS, SWA, JF, AW, MAL, WAR, ESP).

- Euphorbia tirucalli* (Finger Tree) – (NK).

- Homalanthus novo-guineensis* – (NK, VB, *JF).

- Jatropha gossypifolia* (Bellyache Bush) – (NK, VB, OVP, CK, DL, PIL).

- Mercurialis annua* (Annual Dog's Mercury) – (WAR).

- Phyllanthus amarus* – (NK, VB, DL). A pantropical weed, possibly native in eastern Australia but a garden and crop weed in WA.

- Ricinus communis* (Castor Oil Plant) – (OVP, PIL, CAR, GS, AW, SWA, JF, MAL, COO, ESP).

FUMARIACEAE

- Fumaria capreolata* (Climbing Fumitory) – (GS, AW, SWA, JF, MAL, WAR, ESP).

- Fumaria densiflora* (Narrow-Leaved Fumitory) – (AW, JF, COO).

- Fumaria muralis* (Wall Fumitory) – (AW, SWA, JF, MAL, WAR, ESP).

- Fumaria officinalis* – (AW, SWA, JF, WAR, ESP).

- Fumaria parviflora* – (MAL).

GENTIANACEAE

- Centaurium erythraea* (Centaury) – (CAR, MUR, YAL, AW, GS, SWA, JF, MAL, WAR, COO, ESP).

- Centaurium pulchellum* (Lesser Centaury) – (SWA).

- Centaurium tenuiflorum* (Slender Centaury) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).

- Cicendia filiformis* – (GS, AW, SWA, JF, WAR).

- Cicendia quadrangularis* – (AW, JF).

GERANIACEAE

- Erodium aureum* – (CAR, GAS, MUR, GS, YAL, AW, COO, CR, GVD, NUL).

- Erodium botrys* (Long Storksbill) – (MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP).

- Erodium brachycarpum* (Heronsbill) – (SWA, JF, WAR).

- Erodium cicutarium* (Common Storksbill) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).

- Erodium moschatum* (Musky Storksbill) – (GS, AW, SWA, JF, WAR, ESP).

- Geranium dissectum* (Cut-Leaved Cranesbill) – (SWA, JF, WAR).

- Geranium molle* (Dove's Foot Cranesbill) – (SWA, JF, WAR).

- Pelargonium alchemilloides* – (WAR).

- Pelargonium* × *asperum* – (SWA).

- Pelargonium capitatum* (Rose Pelargonium) – (GS, SWA, JF, WAR, ESP).

- Pelargonium* × *domesticum* – (SWA, JF).

HALORAGACEAE

- Myriophyllum aquaticum* (Parrot's Feather, Brazilian Water Milfoil) – (SWA, JF, WAR).

HYDROPHYLLACEAE

- Phacelia tanacetifolia* – (AW, MAL, ESP).

- Wigandia urens* var. *caracasana* – (SWA).

LAMIACEAE

- Hyptis suaveolens* (Mint Weed) – (NK, VB, OVP, CK, DL).

- Lamium amplexicaule* (Deadnettle) – (AW, JF, MAL).

- Lavandula dentata* (French Lavender) – (SWA, JF).

- Lavandula stoechas* (Topped Lavender, Spanish Lavender, Italian Lavender) – (SWA, JF, WAR).

Leonotis leonurus (Lion Flower, Lion's Ear) – (SWA, JF, WAR).

Leonotis nepetifolia – (NK, SWA). A serious weed in Northern Territory.

Marrubium vulgare (Horehound) – (SWA, JF, COO, NUL, ESP).

Mentha aquatica (Water Mint) – (WAR).

Mentha × piperita (Eau-De-Cologne Mint) – (SWA, JF, WAR).

Mentha pulegium (Pennyroyal) – (SWA, JF, WAR, ESP).

Mentha × spicata (Spearmint) – (GS, AW, SWA, JF, MAL, WAR).

Mentha × suaveolens (Apple Mint) – (JF, WAR, NUL).

Moluccella laevis (Mollucca Balm) – (SWA, JF, COO, MAL).

Ocimum basilicum (Sweet Basil) – (NK, CK, DL).

Ocimum tenuiflorum (Sacred Basil) – (VB, OVP, CK)

Prunella vulgaris (Self Heal) – (JF, WAR).

Salvia reflexa (Mint Weed) – (AW, SWA, COO, ESP)

Salvia verbenaca (Wild Sage) – (MUR, GS, AW, SWA, JF, COO, NUL, WAR, ESP).

Stachys arvensis (Stagger Weed) – (GS, AW, SWA, JF, MAL, WAR, ESP).

LAURACEAE

Cinnamomum camphora (Camphor Laurel) – (SWA, JF).

LINACEAE

Linum trigynum (French Flax) – (SWA, JF, WAR).

Linum usitatissimum – (GS, SWA, JF, AW, ESP).

LOBELIACEAE

Monopsis debilis – (GS, AW, SWA, JF, WAR, ESP).

LYTHRACEAE

Ammannia auriculata – (NK, VB, OVP, PIL). Hewson (1990) considers this species was introduced with Rice into Australia.

Lythrum hyssopifolia (Lesser Loosestrife) – (MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP). This is now considered a native taxon since it has been recorded in pollen cores to at least 2000 years B.P. (Romanowski 1998).

MALVACEAE

Abutilon grandifolium – (SWA).

Abutilon theophrasti (Velvetleaf) – (JF).

Anoda cristata (Anoda Weed) – (JF).

Gossypium hirsutum (Cotton) – (VB, CK, DL, TAN, PIL).

Hibiscus diversifolius – (SWA, JF).

Hibiscus sabdariffa (Rosella) – (NK, VB, CK, DL).

Hibiscus trionum var. *trionum* (Bladder Ketmia) – (AW, SWA, JF).

Lagunaria patersonia subsp. *patersonia* (Norfolk Island Hibiscus) – (SWA, WAR).

Lavatera trimestris – (PIL, GS, SWA, JF).

Malva dendromorpha (Tree Mallow) – (SWA, JF, MAL, WAR, ESP).

Malva linnaei (Cretan Mallow) – (CAR, GS, SWA, JF, WAR).

Malva nicaeensis – (WAR).

Malva parviflora (Small Flowered Mallow) – (CAR, MUR, GS, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).

Malvastrum americanum (Spiked Malvastrum) – (VB, OVP, CK, DL, PIL, CAR, GSD, GAS, CR, MUR, NUL).

Malvastrum coromandelianum (Prickly Malvastrum) – (OVP, DL, PIL).

Modiola caroliniana (Red-Flowered Mallow) – (JF, WAR).

Pavonia hastata – (JF).

Sida acuta subsp. *caprinifolia* (Spinyhead Sida) – (NK, VB, OVP, CK, DL).

Sida rhombifolia – (SWA).

Sida subcordata – (NK).

MARTYNIACEAE

Martynia annua (Devil's Claw) – (VB).

Proboscidea louisianica (Purple-Flower Devil's Claw) – (CAR, MUR, COO).

MELIACEAE

Azadirachta indica – (VB).

Melia azedarach (Cape Lilac, White Cedar) – (SWA).

MELIANTHACEAE

Melianthus major (Honeyflower) – (SWA).

MIMOSACEAE

Acacia baileyana (Cootamundra Wattle) – (JF).

Acacia blakelyi (Blakely's Wattle) – (GS, *SWA).

Acacia dealbata (Silver Wattle) – (JF, WAR).

Acacia decurrens (Early Black Wattle) – (JF, WAR).

Acacia elata (Mountain Cedar Wattle) – (JF, WAR).

Acacia farnesiana (Mimosa Bush) – (NK, VB, CK, DL, GSD, PIL, LSD, CAR, GAS, MUR, GS, SWA).

Acacia floribunda (Catkin Wattle) – (JF).

Acacia iteaphylla (Flinders Range Wattle) – (SWA, JF, WAR).

Acacia karroo (Karoo Thorn) – (SWA). Plants removed from Perth Zoo, Kings Park and Guildford. Presumed eradicated.

Acacia lasiocalyx (Caterpillar Wattle) – (GS, AW, JF, COO, MAL, ESP, *SWA).

Acacia longifolia subsp. *longifolia* (Sydney Golden Wattle) – (SWA, JF, WAR, ESP).

Acacia longifolia subsp. *sophorae* – (SWA, JF).

Acacia melanoxylon (Blackwood) – (SWA, JF, WAR).

Acacia microbotrya var. *microbotrya* (Manna Wattle) – (GS, AW, JF, COO, MAL, ESP, *SWA).

Acacia nilotica subsp. *indica* – (VB). Presumed eradicated..

Acacia podalyriifolia (Queensland Silver Wattle) – (SWA, JF).

Acacia pycnantha (Golden Wattle) – (SWA, JF, AW, WAR, ESP).

Acacia saligna (Coojong, Golden-Wreath Wattle) – (MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP *AW, *SWA, *JF, *ESP).

Albizia lebeck – (Raintree) – (NK, VB, CK, DL, PIL).

Leucaena leucocephala subsp. *leucocephala* (Leucaena) – (NK, VB, PIL, CAR).

Prosopis glandulosa var. *glandulosa* (Honey Mesquite) – (CK, DL).

Prosopis glandulosa × *velutina* – (PIL, CAR, DL).

Prosopis juliflora var. *juliflora* – (GAS, COO).

Prosopis pallida (Mesquite) – (DL, PIL, CAR, MUR).

MOLLUGINACEAE

Glinsu oppositifolius (Opposite-Leaved Carpet Weed) – (NK, VB, OVP, CK, DL, TAN, GSD, PIL, GAS, *SWA).

MORACEAE

Ficus benjamina – (SWA).

Ficus carica (Edible Fig) – (SWA, JF).

MYRTACEAE

Agonis flexuosa (Peppermint) – (SWA, JF, WAR, *SWA).

Callistemon viminalis (Bottlebrush) – (JF).

Calothamnus quadrifidus (One-Sided Bottlebrush) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP, *SWA).

Calothamnus validus (One-Sided Bottlebrush) – (ESP, *SWA).

Chamaelaucium uncinatum (Geraldton Wax) – (GS, SWA, *SWA, *JF, *AW).

Eucalyptus botryoides (Bangalay) – (SWA).

Eucalyptus camaldulensis (River Gum) – (NK, VB, CK, OVP, DL, TAN, GSD, PIL, LSD, CAR, GD, GAS, CR, MUR, GVD, GS, AW, SWA, *SWA, *JF, *WAR).

Eucalyptus citriodora (Lemon Scented Gum) – (SWA).

Eucalyptus cladocalyx (Sugar Gum) – (SWA, JF).

Eucalyptus conferruminata (Bald Island Marlock) – (ESP, *WAR).

Eucalyptus globulus (Blue gum) – (SWA, JF, WAR).

Eucalyptus maculata (Spotted Gum) – (SWA).

Eucalyptus microcorys – (WAR).

Eucalyptus muelleriana (Yellow Stringybark) – (WAR).

Eucalyptus polyanthemus (Red Box) – (SWA).

Eucalyptus saligna (Sydney Blue Gum) – (SWA).

Kunzea baxteri – (ESP, *JF, *ESP).

Leptospermum laevigatum (Victorian Tea-Tree) – (GS, SWA, JF, WAR, ESP).

Leptospermum rotundifolium (Tea Tree) – (JF).

Melaleuca diosmifolia – (JF, WAR, ESP, *ESP).

Melaleuca lanceolata (Moonah, Rottnest Tea-Tree) – (MUR, GS, AW, SWA, JF, COO, MAL, WAR, ESP, HAM, *SWA).

Melaleuca linariifolia – (SWA).

Melaleuca nesophila (Mindiyed) – (ESP, *WAR, *SWA).

Melaleuca pentagona – (MAL, WAR, ESP, *SWA).

Verticordia picta (Painted Featherflower) – (GS, AW, SWA, JF, COO, MAL, *SWA).

NYCTAGINACEAE

Boerhavia coccinea (Tar Vine) – (NK, VB, OVP, CK, DL, PIL, GD, CR, CAR, GAS, MUR, GVD, *GS, *AW, *JF). Native to the tropics and the desert, and introduced into southern WA via stock, feed and transport.

Boerhavia schomburgkiana – (NK, VB, PIL, CR, CAR, MUR, *JF, *AW). As per preceding species.

Mirabilis jalapa (Four O'Clock) – (SWA, JF).

NYMphaeACEAE

Nymphaea macrosperma (gigantea) (Giant Waterlily) – (VB, DL, *PIL).

Nymphaea mexicana (Yellow Waterlily) – (SWA).

Nymphaea odorata (Waterlily) – (SWA, JF, WAR).

OLEACEAE

Fraxinus angustifolia subsp. *angustifolia* (Desert Ash) – (SWA, JF).

Fraxinus rotundifolia (Desert Ash) – (SWA).

Olea europaea subsp. *europaea* (Olive) – (SWA, JF).

Syringa vulgaris – (JF).

ONAGRACEAE

Epilobium ciliatum – (SWA, JF, WAR).

Epilobium tetragonum subsp. *tetragonum* (Square-Stalked Willowherb) – (SWA).

Fuschia magellanica (Fuchsia) – (JF, WAR).

Gaura lindheimeri – (SWA, JF).

Oenothera affinis – (SWA, JF).

Oenothera drummondii (Coastal Evening Primrose) – (CAR, SWA, ESP).

Oenothera glazioviana (Tall Evening Primrose) – (SWA, JF, WAR).

Oenothera indecora subsp. *bonariensis* (Small-Flower Evening Primrose) – (SWA).

Oenothera jamesii – (SWA).

Oenothera laciniata – (SWA)

Oenothera mollissima – (SWA, JF).

Oenothera rosea (SWA).

Oenothera speciosa – (AW, SWA).

Oenothera stricta subsp. *stricta* (Common Evening Primrose) – (SWA, JF, AW, MAL, WAR, ESP).

OROBANCHACEAE

Orobanche minor (Broom Rape) – (CAR, GS, AW, SWA, JF, COO, WAR, ESP).

OXALIDACEAE

Oxalis bowiei – (AW, SWA, JF, COO, ESP, HAM).

Oxalis caprina – (SWA, JF, WAR).

Oxalis compressa – (JF).

Oxalis corniculata (Yellow Wood Sorrel, Creeping Oxalis) – (SWA, JF, WAR).

Oxalis corymbosa (Pink Shamrock, Lilac Oxalis) – (SWA, JF, WAR).

Oxalis depressa – (SWA).

Oxalis flava – (SWA, JF, AW).

Oxalis glabra (Fingerleaf Oxalis) – (GS, AW, SWA, JF, WAR).

Oxalis hirta – (JF, AW).

Oxalis incarnata (Climbing Oxalis) – (AW, SWA, JF, WAR).

Oxalis pes-caprae (Soursob) – (CAR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).

Oxalis polyphylla – (SWA, JF).

Oxalis purpurea (Largeflower Wood Sorrel, Four O'Clock, Purple Wood Sorrel) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Oxalis violacea – (SWA, WAR).

PAPAVERACEAE

Argemone ochroleuca subsp. *ochroleuca* (Mexican Poppy, Prickly Poppy) – (PIL, CAR, GAS, MUR, GS, AW, SWA, JF, COO).

Eschscholzia californica (Californian Poppy) – (JF, WAR).

Glaucium corniculatum – (NUL).

Papaver hybridum (Rough Poppy) – (MUR, GS, AW, JF, COO, MAL, ESP).

Papaver rhoeas (Field Poppy) – (AW, SWA).

Papaver somniferum subsp. *segiterum* (Opium Poppy) – (AW).

Papaver somniferum subsp. *somniferum* (Opium Poppy) – (AW, SWA, JF).

Romneya coulteri (Californian Tree Poppy) – (SWA).

Romneya trichocalyx – (JF).

PAPILIONACEAE

Adenocarpus complicatus – (JF).

Aeschynomene americana – (NK, VB).

Aeschynomene villosa – (NK, VB).

Alhagi maurorum (Camelthorn) – (COO).

Alysicarpus ovalifolius – (NK, VB, CK, DL).

Alysicarpus vaginalis (Alyce Clover) – (VB).

Astragalus pelecinus (GS, AW).

Astragalus ?prolixus – (COO).

Canavalia ensiformis (Jack Bean) – (NK, VB, CK).

Centrosema pascuorum (Centro) – (VB, DL).

Chamaecytisus palmensis (Tree Lucerne, Tagasaste) – (AW, SWA, JF, WAR, ESP).

Clitoria ternatea (Butterfly Pea) – (NK, VB, DL, PIL, CAR).

Crotalaria agatiflora – (WAR).

Crotalaria goreensis (Gambia Pea) – (VB, OVP, CK).

Crotalaria incana subsp. *incana* – (CAR).

Crotalaria juncea (Sunnhemp) – (NK, VB, OVP, CK, DL, PIL).

Desmodium scorpiurus – (VB, PIL).

Desmodium tortuosum (Florida Beggarweed) – (NK, DL).

Desmodium triflorum – (NK, VB).

Dipogon lignosus (Dolichos Pea) – (SWA, JF, WAR, ESP).

Erythrina × sykesii (Coral Tree) – (SWA, JF).

Genista horrida – (JF).

Genista linifolia (Flaxleaf Broom) – (SWA, JF, AW, WAR).

Genista monspessulana (canariensis) (Broom) – (SWA, JF, WAR).

Gliricidia sepium (Mother of Cocoa) – (NK).

Indigofera glandulosa – (OVP). A native weed of crops.

Indigofera oblongifolia – (PIL).

Kennedia nigricans (Black Kennedia) – (ESP, *SWA).

Lathyrus latifolius – (JF, WAR, ESP).

Lathyrus tingitanus (Tangier Pea) – (SWA, JF, WAR).

Lessertia (Sutherlandia) frutescens – (SWA, JF).

Lotus angustissimus (Slender Birds Foot Trefoil) – (GS, SWA, JF, WAR, ESP).

Lotus subbiflorus (suaveolens) (Hairy Birds Foot Trefoil) – (GS, AW, SWA, JF, WAR, ESP).

Lotus uliginosus (Greater Birds Foot Trefoil) – (SWA, JF, WAR, ESP).

Lupinus angustifolius (Narrowleaf Lupin) – (GS, AW, SWA, JF, WAR, ESP).

Lupinus cosentinii (Sandplain Lupin) – (CAR, GS, AW, SWA, JF, MAL, ESP).

Lupinus luteus (Yellow Lupin) – (GS, SWA, JF, WAR).

Macroptilium atropurpureum (Siratro) – (NK, VB, CK, DL, SWA).

Macroptilium lathryoides var. *semierectum* (Phasey Bean) – (NK, VB, CK). *Medicago arabica* (Spotted Medic) – (GS, SWA, JF, WAR, ESP). Treatment of *Medicago* follows McComb (1974).

Medicago laciniata var. *laciniata* (Cutleaf Medic) – (GS, AW, SWA, JF, COO).

Medicago littoralis var. *littoralis* – (GS, AW, MAL). This is listed by McComb (1974).

Medicago lupulina (Black Medic) – (AW, JF, WAR, ESP).

Medicago minima (Small Burr Medic) – (MUR, GS, YAL, AW, SWA, COO, NUL, MAL, ESP).

Medicago polymorpha (Burr Medic) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP).

Medicago praecox – (GS, AW, SWA).
Medicago sativa (Lucerne, Alfalfa) – (CAR, MUR, GS, AW, SWA, JF, COO, MAL, ESP). Largely growing from spilt grain.
Medicago scutellata (Snail Medic) – (AW, JF, MAL, WAR).
Medicago truncatula – (CAR, GS, YAL, AW, COO, NUL, MAL, ESP).
Melilotus albus (Bokhara Clover) – (AW, SWA, JF, WAR, ESP).
Melilotus indicus (Common Melilot) – (CAR, GS, AW, SWA, JF, MAL, WAR, ESP).
Melilotus officinalis (Ribbed Melilot) – (AW, MAL, ESP).
Melilotus siculus (messanensis) (Messina Melilot) – (SWA).
Ornithopus compressus (Yellow Serradella) – (GS, SWA, JF, WAR, ESP).
Ornithopus pinnatus (Slender Serradella) – (GS, AW, SWA, JF, WAR, ESP).
Ornithopus sativus (French Serradella) – (GS, SWA, JF, WAR, ESP).
Podalyria sericea – (JF, WAR, ESP).
Psoralea aff. graveolens – (SWA).
Psoralea pinnata (Taylorina) – (SWA, JF, WAR).
Retama raetam (White Broom) – (SWA).
Robinia pseudoacacia (Black Locust) – (AW, SWA, JF, WAR).
Stylosanthes guianensis (Stylo) – (NK, VB, OVP, PIL).
Stylosanthes hamata (Caribbean Stylo) – (NK, VB, OVP, CK, DL, PIL).
Stylosanthes humilis (Townsville Stylo) – (NK, VB, OVP, CK, DL, CAR).
Stylosanthes mucronata – (CAR).
Stylosanthes scabra – (NK, CK, DL).
Stylosanthes viscosa – (NK).
Sutherlandia frutescens = *Lesseria frutescens*
Trifolium angustifolium var. angustifolium (Narrowleaf Clover) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Trifolium arvense var. arvense (Hare's Foot Clover) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Trifolium campestre var. campestre (Hop Clover) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Trifolium cernuum (Drooping Flower Clover) – (SWA, JF, WAR, ESP).
Trifolium cherleri (Cupped Clover) – (AW, SWA, JF).
Trifolium dubium (Suckling Clover) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Trifolium fragiferum var. fragiferum (Strawberry Clover) – (AW, SWA, JF, MAL, WAR).
Trifolium glomeratum (Ball Clover) – (GS, YAL, AW, SWA, JF, MAL, WAR, ESP).
Trifolium hirtum (Rose Clover) – (GS, AW, SWA, JF, MAL, ESP).
Trifolium hybridum var. hybridum (Alsike Clover) – (SWA, JF).
Trifolium incarnatum var. incarnatum (Crimson Clover) – (SWA, JF, AW, WAR).
Trifolium lappaceum var. lappaceum (Lappa Clover) – (SWA).
Trifolium ligusticum (Ligurian Clover) – (SWA, JF, WAR).
Trifolium micranthum (Slender Suckling Clover) – (SWA, JF).
Trifolium ornithopodioides (Birdsfoot Fenugreek) – (SWA).
Trifolium pilulare (Pill Clover) – (SWA, JF).
Trifolium pratense var. sativum (Red Clover) – (SWA, JF, ESP).
Trifolium repens var. repens (White Clover) – (AW, SWA, JF, WAR).
Trifolium resupinatum var. majus (Shaftal Clover) – (SWA, JF).
Trifolium resupinatum var. resupinatum (Shaftal Clover) – (SWA, JF, WAR).
Trifolium scabrum (Rough Clover) – (SWA, JF).
Trifolium spumosum (Bladder Clover) – (AW, SWA).
Trifolium stellatum var. stellatum (Star Clover) – (AW, SWA, JF, ESP).
Trifolium striatum (Knotted Clover) – (AW, JF, MAL, WAR, ESP).
Trifolium subterraneum (Sub-Clover) – (GS, AW, SWA, JF, MAL, WAR, ESP).
Trifolium suffocatum (Suffocated Clover) – (SWA, JF, ESP).
Trifolium tomentosum var. tomentosum (Woolly Clover) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP).
Trifolium vesiculosum (Arrowleaf Clover) – (SWA).
Ulex europaeus (Gorse, Furze) – (JF, WAR).
Vicia benghalensis (Purple Vetch) – (SWA, JF, AW, ESP).
Vicia hirsuta (Hairy Vetch) – (AW, SWA, JF, MAL, WAR).
Vicia monantha subsp. triflora (Spurred Vetch) – (AW, COO, MAL, ESP).
Vicia sativa subsp. cordata (Common Vetch) – (SWA, JF, AW, MAL, WAR).

Vicia sativa subsp. nigra (Common Vetch) – (SWA, JF, AW, WAR, COO, NUL).

Vicia sativa subsp. sativa (Common Vetch) – (AW, SWA, JF, WAR).

Vicia villosa subsp. eriocarpa – (ESP).

Vigna radiata var. setulosa (Mung Bean) – (NK, VB).

Vigna radiata var. sublobata (Mung Bean) – (NK).

Vigna trilobata – (VB).

PASSIFLORACEAE

Passiflora edulis – (JF). A garden escape, sparingly naturalized.

Passiflora filamentosa (Passion Flower) – (SWA, JF, WAR).

Passiflora foetida var. hispida (Stinking Passion Flower) – (NK, VB, OVP, CK, DL, PIL, CAR).

PHYTOLACCACEAE

Phytolacca octandra (Ink Weed) – (GS, AW, SWA, JF, WAR, ESP).

PITTOSPORACEAE

Pittosporum undulatum (Sweet Pittosporum) – (SWA, JF, WAR).

PLANTAGINACEAE

Plantago coronopus subsp. commutata (Buckshorn Plantain) – (GS, YAL, SWA, JF, MAL, WAR, ESP, HAM).

Plantago coronopus subsp. coronopus (Buckshorn Plantain) – (JF).

Plantago cretica (Cretan Plantain) – (JF).

Plantago lanceolata (Ribwort Plantain) – (AW, SWA, JF, WAR).

Plantago major (Greater Plantain) – (AW, SWA, JF, WAR).

PLATANACEAE

Platanus × acerifolia (London Plane) – (SWA). Seeding into adjacent seepage areas along Mount Street in Perth.

PLUMBAGINACEAE

Limonium companyonis (Blue Mist) – (GS, SWA, WAR).

Limonium lobatum (Winged Sea Lavender) – (MUR, GS, YAL, AW, MAL).

Limonium sinuatum (Perennial Sea Lavender, Perennial Statice) – (MUR, GS, AW, JF, COO, MAL, WAR, ESP).

POLEMONIACEAE

Navarretia squarrosa (Californian Stinkweed) – (AW, JF).

POLYGALACEAE

Polygala myrtifolia (Myrtle Leafed Milkwort) – (SWA, JF, WAR).

Polygala virgata – (JF, MAL, WAR).

POLYGONACEAE

Acetosa sagittata (Rumex sagittatus) (Rambling Dock) – (SWA, JF).

Acetosa vesicaria (Rumex vesicarius) (Rosy Dock) – (PIL, CAR, GAS, MUR, GS, AW, SWA, MAL, COO, NUL, GVD).

Acetosella vulgaris (Sorrel) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Antigonon leptopus (Coral Vine) – (NK, VB).

Emex australis (Double Gee, Three-Cornered Jack, Spiny Emex) – (VB, LSD, CAR, MUR, YAL, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).

Emex spinosa – (CAR, GS).

Fallopia convolvulus (Black Bindweed, Climbing Buckwheat) – (AW, SWA, JF, WAR, ESP).

Muehlenbeckia adpressa (Climbing Lignum) – (MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP, HAM, *AW).

Muehlenbeckia complexa (Maidenhair Creeper, Wire Vine) – (SWA).

Persicaria capitata (Persicaria) – (JF, WAR).

Persicaria lapathifolia – (NK, VB, DL, PIL, SWA).

Persicaria maculosa (Redshank) – (SWA, JF).

Persicaria orientalis – (SWA, JF).

Polygonum arenastrum (Sand Wireweed) – (GS, AW, SWA, JF, COO, MAL, WAR, ESP, HAM).

Polygonum aviculare (Wireweed) – (GS, AW, SWA, JF, MAL, ESP).

Polygonum bellardii – (AW, MAL).

Rumex brownii (Swamp Dock) – (SWA, JF, MAL, WAR, ESP).

Rumex bucephalophorus – (SWA, JF, WAR).

Rumex conglomeratus (Clustered Dock) – (SWA, JF, WAR).
Rumex crispus (Curled Dock) – (GS, AW, SWA, JF, WAR, ESP).
Rumex frutescens (Argentine Dock) – (JF, WAR).
Rumex obtusifolius subsp. *obtusifolius* (Broadleaf Dock) – (SWA, JF, WAR).
Rumex pulcher subsp. *pulcher* (Fiddle Dock) – (SWA, JF, WAR).
Rumex pulcher subsp. *woodsii* (Fiddle Dock) – (SWA, JF, AW).
Rumex sagittatus = *Acetosa sagittata*

Rumex vesicarius* = *Acetosa vesicaria

There is a series of natural hybrids in the genus *Rumex* present in WA. These hybrids are currently listed as naturalized in WA but they appear in this list in Table 2. This is because Rechinger (1984) in his revision of *Rumex* in Australia notes on page 78 that of these hybrids 'most fail to set fruit because the flowers dry and fall off before development of valves occurs... often these hybrids' nuts even if reaching full size are not viable.' Therefore, these records are most likely F1 hybrids, continually generated and are not naturalized stable hybrids. They should not be listed as naturalized taxa.

PORTULACACEAE

Calandrinia ciliata – (SWA, JF, AW).
Portulaca oleracea (Pigweed) – (NK, VB, OVP, DL, TAN, GD, PIL, GAS, MUR, *CAR, *GS, *AW, *SWA, *JF, *COO, *MAL, *WAR, *ESP). Introduced to south-western Australia; perhaps native elsewhere.
Portulaca cf. *pilosa* (cerise flowered, GK 14973) – (NK, VB, DL, PIL).
Talinum paniculata – (JF).

PRIMULACEAE

Anagallis arvensis var. *arvensis* (Scarlet Pimpernel) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP, HAM).
Anagallis arvensis var. *caerulea* (Blue Pimpernel) – (CAR, MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP, HAM).
Anagallis minima (Chaff Weed) – (SWA, JF).
Asterolinon linum-stellatum – (AW, SWA).
Samolus valerandi (Brookweed) – (SWA, JF, WAR).

PROTEACEAE

Banksia canei – (JF).
Hakea costata (Ribbed Hakea) – (GS, SWA, *SWA).
Hakea francisiana (Emu Tree) – (PIL, MUR, GVD, YAL, AW, COO, MAL, ESP, *JF).
Hakea pycnoneura – (GS, ESP, *SWA).

RANUNCULACEAE

Adonis microcarpa (Pheasant's Eye) – (GS, AW, MAL, ESP).
Consolida ajacis (*ambigua*) (Larkspur) – (JF, MAL).
Myosurus minimus var. *australis* (Mousetail) – (COO, NUL). Possibly native.
Ranunculus muricatus (Sharp Buttercup) – (SWA, JF, WAR).
Ranunculus trilobus – (SWA).

RESEDACEAE

Reseda alba (White Mignonette) – (GS, SWA).
Reseda lutea (Wild Mignonette) – (SWA, JF, AW, MAL, WAR, ESP).
Reseda luteola (Weld, Dyer's Rocket) – (GS, AW, SWA, JF, COO).

RHAMNACEAE

Rhamnus alaternus (Buckthorn) – (SWA, JF).
Ziziphys mauritiana (Chinese Date, Indian Jujube) – (NK, VB, DL, CAR).

ROSACEAE

Orchard (1969) considers all *Acaena* to be introduced into WA.
Acaena agnipila var. *tenuispica* (Sheep's Burr) – (JF, ESP).
Acaena echinata var. *echinata* (Sheep's Burr) – (SWA, JF, WAR).
Acaena echinata var. *retrorsumpilosa* (Sheep's Burr) – (JF, AW, MAL, ESP).
Acaena echinata var. *robusta* (Sheep's Burr) – (SWA, JF).
Acaena echinata var. *subglabralyx* (Sheep's Burr) – (JF).
Acaena echinata var. *tylacantha* (Sheep's Burr) – (JF).
Acaena novae-zelandiae (Biddy Biddy, Bidgee-Widgee, Pirri-Pirri Burr) – (JF, WAR).

Aphanes arvensis (Parsley-Piert) – (SWA, WAR).
Cotoneaster glaucophyllus – (SWA, JF, WAR).
Cotoneaster pannosus – (SWA, JF, WAR).
Eriobotrya japonica – (JF).
Prunus cerasifera (Cherry Plum) – (JF, WAR).
Prunus domestica – (JF, WAR).
Prunus dulcis – (JF).
Rosa canina (Dog Rose) – (JF, WAR).
Rosa laevigata (Cherokee Rose) – (JF).
Rosa × *noisettiana* (*R. chinensis* × *R. moschata*) (Manetti Rose, Noisette Rose) – (JF, WAR).
Rosa × *rehderiana* (*R. chinensis* × *R. multiflora*) – (SWA, JF).
Rosa rubiginosa (Sweet Briar) – (SWA, JF).
Rubus bellobatus – (SWA, JF, WAR, ESP).
Rubus discolor (Blackberry) – (SWA, JF, WAR).
Rubus parviflorus (Blackberry) – (WAR).
Rubus rugosus (Blackberry) – (JF).
Rubus ulmifolius (Blackberry) – (JF, WAR).
Rubus ursinus (Loganberry, Boysenberry) – (JF, WAR).
Sanguisorba minor subsp. *minor* (Salad Burnet) – (AW, JF, WAR).

RUBIACEAE

Coprosma repens (Mirror Plant) – (SWA, WAR).
Galium aparine (Goosegrass) – (GS, AW, SWA, JF, COO). May not have persisted.
Galium divaricatum (Slender Goosegrass) – (SWA, JF, AW, WAR).
Galium murale (Bedstraw) – (GS, AW, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).
Galium tenerum – (ESP). Recorded for Recherche Archipelago.
Galium tricornutum (Corn Cleavers) – (JF).
Oldelandia corymbosa var. *corymbosa* – (NK, VB, CK, DL). This species is listed as native by Wheeler *et al.* (1992), but it is always associated with man made or disturbed habitats, a pan tropical Weed?
Richardia brasiliensis (White Eye) – (SWA, JF).
Richardia scabra – (VB, DL).
Sherardia arvensis (Field Madder) – (SWA, JF, WAR).
Spermacoce assurgens – (VB).

RUTACEAE

Diplolaena dampieri (Southern Diplolaena) – (JF, WAR, SWA, *SWA).

SALICACEAE

Populus alba (White Poplar) – (SWA, JF, WAR).
Populus nigra (Lombardy Poplar) – (SWA, JF).
Salix babylonica (Weeping Willow) – (SWA, JF).
Salix humboldtiana – (SWA).

SAPINDACEAE

Cardiospermum grandiflorum (Large Balloon Creeper) – (SWA).
Cardiospermum halicacabum var. *halicacabum* (Small Balloon Creeper) – (NK, VB, OVP, CK, DL, PIL). This species is listed as native by Cowie *et al.* (2001).
Dodonaea viscosa subsp. *viscosa* – (SWA, WAR).

SCROPHULARIACEAE

Asarina barclaiana – (SWA).
Bacopa monnieri – (SWA).
Bartsia (*Bellardia*) *trixago* (Bartsia) – (GS, AW, SWA, JF, WAR, ESP).
Cymbalaria muralis subsp. *muralis* (Ivy-Leaved Toadflax) – (SWA, WAR).
Dischisma arenarium – (GS, SWA, JF, WAR, ESP).
Dischisma capitatum – (GS, AW, SWA, JF, WAR, ESP).
Kickxia elatine subsp. *crinita* (Sharp-Leaved Fluellen, Pointed Toadflax) – (GS, AW, SWA, JF, MAL, ESP).
Kickxia elatine subsp. *elatine* (Sharp-Leaved Fluellen, Pointed Toadflax) – (AW, SWA, JF, WAR).
Kickxia spuria (Fluellen, Roundleaf Toadflax) – (SWA, JF).
Linaria maroccana (Toadflax) – (GS, AW, SWA, JF).
Lindernia crustacea – (VB, DL, SWA).

Misopates orontium (Lesser Snapdragon) – (GS, AW, SWA, JF, MAL).

Nemesia strumosa – (AW, JF).

Parentucellia latifolia (Red Bartsia) – (MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP).

Parentucellia viscosa (Sticky Bartsia) – (GS, AW, SWA, JF, MAL, WAR, ESP).

Phyllopodium cordatum – (AW, SWA, JF).

Verbascum creticum – (JF).

Verbascum thapsus subsp. *thapsus* (Aaron's Rod, Great Mullein) – (SWA, JF, WAR).

Verbascum virgatum (Green Mullein) – (GS, AW, SWA, JF, WAR, ESP).

Veronica arvensis (Wall Speedwell) – (SWA, JF, WAR).

Veronica peregrina (Wandering Speedwell) – (WAR). Listed as a weed for WA by Briggs *et al.* (1992).

Veronica persica (Creeping Speedwell) – (SWA, JF, WAR).

Veronica plebeia (Trailing Speedwell) – (JF, WAR, ESP). Listed as a weed for WA by Briggs *et al.* (1992).

Zaluzianskya divaricata (Zedweed, Spreading Night Phlox) – (GS, YAL, AW, SWA, JF, MAL, ESP).

SIMAROUBACEAE

Ailanthus altissima (Tree of Heaven) – (SWA, JF).

SOLANACEAE

Datura ferox (Fierce Thornapple, Longspine Thornapple) – (AW, SWA, JF, COO, MAL).

Datura innoxia (Downy Thornapple) – (VB, OVP, CK, DL, GS, SWA, JF, AW, COO).

Datura leichhardtii (Native Thornapple, Leichhardt's Thornapple) – (PIL, CAR, GAS).

Datura metel (Angel's Trumpet, Horn of Plenty) – (DL, GSD, PIL, GS, AW, SWA, JF).

Datura stramonium (Common Thornapple, Jimson Weed) – (AW, SWA, JF, WAR).

Datura wrightii (Hoary Thornapple) – (AW, SWA, DL).

Lycium ferocissimum (African Boxthorn) – (CAR, MUR, GS, AW, SWA, COO, NUL, MAL, ESP, HAM).

Lycopersicon esculentum (Tomato) – (NK, DL, SWA).

Nicandra physalodes (Apple of Peru) – (SWA, CAR, JF).

Nicotiana glauca (Tree Tobacco) – (CAR, GAS, GS, AW, SWA, JF, COO, WAR, ESP, HAM).

Physalis minima (Wild Gooseberry) – (NK, VB, OVP, CK, DL, TAN, PIL, SWA). This species is listed as native by Symon (1997) and Cowie *et al.* (2001).

Physalis peruviana (Cape Gooseberry) – (SWA, JF, WAR).

Physalis philadelphica (Tomatillo) – (SWA).

Physalis pubescens – (GS, JF).

Salpichroa organifolia (Pampas Lily of the Valley) – (SWA).

Solanum americanum (Glossy Nightshade) – (VB, GS, AW, SWA, JF, WAR, ESP).

Solanum elaeagnifolium (Silver-Leaf Nightshade) – (AW, SWA, JF, MAL).

Solanum hoplopetalum (Afghan Thistle) – (CAR, MUR, YAL, *GS, *AW, *SWA, *JF, *COO, *NUL, *ESP).

Solanum hystrix (Afghan Thistle) – (NUL).

Solanum laciniatum (Kangaroo Apple) – (SWA, JF, WAR, ESP).

Solanum linnaeanum (Apple of Sodom) – (SWA, JF, WAR, ESP).

Solanum nigrum (Black Berry Nightshade) – (CK, DL, GVD, PIL, CAR, GS, AW, MUR, YAL, SWA, JF, COO, NUL, MAL, WAR, ESP, HAM).

Solanum pseudocapsicum (Jerusalem Cherry) – (NK, DL).

Solanum rostratum (Buffalo Burr) – (AW, MAL, ESP).

Solanum sisymbriifolium (Viscid Nightshade) – (SWA, COO).

Solanum triflorum (Threeflower Nightshade, Cut-Leaf Nightshade) – (AW, JF, MAL, ESP).

STERCULIACEAE

Brachychiton populneus subsp. *populneus* (Kurrajong) – (SWA).

Melochia pyramidata – (NK, VB, OVP, CK, DL, PIL).

TAMARICACEAE

Tamarix aphylla (Athel Pine, Tamarisk) – (CAR).

Tamarix pentaphylla – (JF).

TILIACEAE

Corchorus olitorius (Jute) – (NK, VB, CK, DL).

Corchorus trilocularis – (GAS, PIL).

Grewia asiatica – (VB).

Triumfetta pentandra – (NK, VB, CK, DL).

TROPAEOLACEAE

Tropaeolum majus (Nasturtium) – (GS, SWA, JF, WAR).

TURNERACEAE

Turnera ulmifolia – (NK).

ULMACEAE

Humulus lupulus (Hop) – (SWA).

Ulmus procera (English Elm) – (JF).

URTICACEAE

Parietaria judaica (Pellitory) – (SWA).

Soleirolia soleirolii (Baby's Tears, Mind Your Own Business) – (SWA, JF, WAR).

Urtica urens (Stinging Nettle) – (CAR, GS, AW, SWA, JF, COO, WAR, ESP).

VALERIANACEAE

Centranthus macrosiphon (Pretty Betsy) – (SWA, JF).

Centranthus ruber (Red Valerian) – (SWA, JF, WAR, ESP).

Valerianella locusta – (SWA).

VERBENACEAE

Lantana camara var. *camara* (Lantana) – (VB, DL, GS, SWA).

Phyla canescens – (AW, COO).

Phyla nodiflora (Lippia, Fogfruit, Carpet Weed) – (NK, VB, DL, PIL, SWA).

Stachytarpheta cayennensis (Snakeweed) – (NK, OVP).

Stachytarpheta jamaicensis (Snakeweed) – (VB).

Verbena bonariensis (Purple Top) – (SWA, JF, WAR).

Verbena officinalis – (SWA).

Verbena rigida (Veined Verbena) – (JF, WAR).

Vitex trifolia var. *subtrisecta* – (DL).

Vitex trifolia var. *trifolia* – (NK, VB).

VIOLACEAE

Viola odorata (Violet) – (WAR).

VITACEAE

Parthenocissus tricuspidata (Virginia Creeper) – (SWA).

ZYGOPHYLLACEAE

Tribulus terrestris (Caltrop, Cat Head, Puncture Vine) – (NK, VB, OVP, CK, DL, *TAN, *PIL, *GD, *CR, *LSD, *GAS, *MUR, *GS, *SWA, *JF, *COO, *NUL, *MAL, *ESP).

Table 2. Species considered as not naturalized in Western Australia.

<p><i>Arachis hypogaea</i> (Peanut, Groundnut) (Papilionaceae).</p> <p><i>Avena byzantina</i> (Poaceae).</p> <p><i>Avena strigosa</i> (Bristle Oat) (Poaceae).</p> <p><i>Baccharis halmifolia</i> (Groundsel Bush) (Asteraceae) – (SWA). Recorded from near Busselton; no longer present.</p> <p><i>Bromus coloratus (inermis)</i> (Poaceae) – (JF).</p> <p><i>Bromus lanceolatus</i> (Poaceae) – (JF). Probably cultivated.</p> <p><i>Bulbinella floribunda</i> (Asphodelaceae) – (AW). Probably cultivated.</p> <p><i>Cajanus cajan</i> (Papilionaceae) – (VB, CK). All collections cultivated.</p> <p><i>Camelina sativa</i> (Flax weed) (Brassicaceae) – (AW, MAL). A weed of flax, no longer naturalized.</p> <p><i>Centaurea cyanooides</i> (Asteraceae) – (JF). No evidence it is naturalized.</p> <p><i>Centaurium maritimum</i> (Gentianaceae). – (GS). Doubtfully recorded for WA.</p> <p><i>Cestrum parqui</i> (Solanaceae) – (SWA). Cultivated.</p> <p><i>Chamaecrista nigricans</i> (Caesalpinaceae) – (NK). Pedley (1998) records a 19th century collection from 'Glenelg District, Martin s.n.' in Melbourne. There have been no further collections from WA.</p> <p><i>Coix lacryma-jobi</i> (Job's Tears) (Poaceae) – (SWA). No evidence it is naturalized; last record 1927.</p> <p><i>Cuscuta europaea</i> (Cuscutaceae) – (SWA). The only record is from Coolup in 1925.</p> <p><i>Echinochloa pyramidalis</i> (Antelope Grass) (Poaceae) – (VB). Grown in south-western Australia, but there is no evidence that it is naturalized.</p> <p><i>Eleusine coracana</i> (Indian Millet) (Poaceae) – (SWA, JF). Cultivated, no evidence it is naturalized.</p> <p><i>Eupatorium adenophorum</i> (Crofton Weed) (Asteraceae) – (SWA). Garden collection, no evidence it is naturalized.</p> <p><i>Fagopyrum esculentum</i> (Buckwheat) (Polygonaceae) – (WAR). There is only one record from a property near Pemberton in 1975.</p> <p><i>Festulolium loliaceum</i> (Poaceae) – (SWA). Recorded in trial plots at Dandaragan, no evidence it is naturalized.</p> <p><i>Hedysarum coronarium</i> (Sulla) (Papilionaceae). Only recorded as cultivated material from Busselton in 1957, Wokalup in 1954 and Kulin in 1940.</p> <p><i>Hordeum vulgare</i> (Barley) (Poaceae) – (SWA, JF, AW). A planting escape like Wheat. No evidence it is naturalized.</p> <p><i>Lepidium aucheri</i> (Brassicaceae) – (JF). A weed of flax crops grown at Boyup Brook in World War II. No evidence naturalized according to Hewson (1981).</p> <p><i>Lepidium perfoliatum</i> (Perfoliate Pepperwort) (Brassicaceae) – (JF). No longer naturalized. A weed of Flax crops that were grown around Boyup Brook.</p>	<p><i>Lepidium sativum</i> (Cress) (Brassicaceae) – (SWA). No evidence it is naturalized.</p> <p><i>Lupinus albus</i> (White Lupin) (Papilionaceae) – (AW, SWA). Currently only recorded from spilt grain, but widespread plantings may increase the recording of this species.</p> <p><i>Lupinus pilosus</i> (Papilionaceae) – (SWA). The only record is from the Institute of Agriculture, Crawley in 1941.</p> <p><i>Lychnis coronaria</i> (Caryophyllaceae) – (AW). The only record is from Mt Barker in 1963.</p> <p><i>Lythrum junceum</i> (Lythraceae) – (SWA). The only record is from East Perth in 1902.</p> <p><i>Medicago intertexta</i> var. <i>intertexta</i> (Calvary Medic) (Papilionaceae) – (SWA). Recorded from Busselton in 1928 and Brunswick Junction in 1916.</p> <p><i>Medicago orbicularis</i> (Papilionaceae) – (COO). The only record is from Southern Cross in 1925.</p> <p><i>Mibora minima</i> (Poaceae). There is one old record for WA in KEW Herbarium.</p> <p><i>Pennisetum glaucum</i> (Pearl Millet) (Poaceae) – (SWA). Bird seed, grows from spilt grain; last record 1973.</p> <p><i>Physalis viscosa</i> (Sticky Cape Gooseberry) (Solanaceae) – (SWA). Only one record from Bunbury in 1942.</p> <p><i>Rumex</i> (Hybrids) (Polygonaceae). These include: <i>Rumex</i> × <i>johannis-moorei</i> (<i>R. brownii</i> × <i>R. crispus</i>, ESP); <i>Rumex</i> × <i>muretii</i> (<i>R. conglomeratus</i> × <i>R. crispus</i>, JF, WAR); <i>Rumex</i> × <i>pratensis</i> (<i>R. crispus</i> × <i>R. obtusifolius</i>, WAR); <i>Rumex</i> × <i>pseudopulcher</i> (<i>R. crispus</i> × <i>R. pulcher</i>, JF, WAR) and <i>Rumex</i> × <i>schultzei</i> (<i>R. conglomeratus</i> × <i>R. crispus</i>, WAR). See Table 1 for a list of the series of natural hybrids of <i>Rumex</i> present in WA. These hybrids are not naturalized stable hybrids (see Table 1 for further information) and should not be listed as naturalized taxa.</p> <p><i>Secale cereale</i> (Cereal Rye) (Poaceae) – (SWA). Sterile cover crop frequently planted; no evidence it is naturalized.</p> <p><i>Solanum giganteum</i> (Solanaceae) (SWA). Crop record, no evidence it is naturalized.</p> <p><i>Sorghastrum nutans</i> (Poaceae) – (ESP). Crop record, no evidence it is naturalized.</p> <p><i>Trifolium alexandrinum</i> (Papilionaceae) – (SWA). Cultivated, not naturalized.</p> <p><i>Trifolium argutum</i> (Papilionaceae) – (SWA). Cultivated, not naturalized.</p> <p><i>Trifolium microdon</i> (Papilionaceae) – (MAL). There is one record from Nyabing in 1970.</p> <p><i>Triticum aestivum</i> (Wheat) (Poaceae) – (GS, AW, SWA, JF, MAL, ESP). Not naturalized, but common on verges from spilled grain.</p> <p><i>Wachendorfia paniculata</i> (Haemodoraceae) – (SWA). Recorded from near Busselton from 1945-53. No evidence it persisted.</p>
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Table 3. Garden escapes or outcasts recorded for Western Australia.

- Acacia acuminata* (Jam) (Mimosaceae) – (GS, YAL, AW, JF, MAL, COO, *SWA, *JF). Seeding along the edges of the railway line in John Forrest National Park (Keighery 1991) and established along the old Mundijong rail line.
- Acacia lasiocarpa* var. *lasiocarpa* (Dune Moses, Panjang) (Mimosaceae) – (GS, AW, SWA, JF, *SWA). Established on old railroad formations in Emma Treeby Reserve, Banjup.
- Acacia myrtifolia* (Mimosaceae) – (AW, SWA, JF, COO, MAL, WAR, ESP, *JF). Seeding from plantings at Dwellingup (Keighery 13132).
- Acacia flagelliformis* (Mimosaceae) – (JF, SWA, *SWA). Accidentally introduced into Shenton Bushland, Shenton Park, spreading slowly by suckering.
- Acanthus mollis* (Bear's Breeches) (Acanthaceae) – (JF, WAR).
- Acidanthera platypetala* (Iridaceae) – (JF). Established on beach dunes at Albany.
- Agave americana* var. *expansa* (Agavaceae) – (AW). Spreading by suckering at Merredin (Lepschi¹ pers. comm.).
- Aloe* species (Aloeaceae). Various species of *Aloe*, *A. arborescens* (SWA), *A. ciliaris* (JF), *A. maculata* (ESP) and *A. saponaria* (SWA) are recorded as occasional garden escapes. None of these appear to be truly naturalized.
- Alternanthera philoxeroides* (Amaranthaceae) (Alligator Weed). A cultivated water plant that is potentially a serious wetland weed.
- Angophora costata* (Myrtaceae) – (SWA). Seeding from plantings at McLarty Settlement, west of Harvey (Keighery 13234).
- Asparagus setaceus* (*Protasparagus plumosus*) (Asparagaceae) – (SWA). Suckering at Boulters Heights, Bunbury and Mt. Eliza (Keighery 14013 and 14366).
- Avena sativa* (Oat) (Poaceae) – (GS, AW, SWA, JF, MAL, WAR, ESP). Commonly encountered as grain spill on road verges; may not persist.
- Bambusa* sp. 1 (Poaceae) – (SWA). Spreading from rhizomes at Canning River (Penn 1993). This is probably a species of *Phyllostachys*.
- Bambusa* sp. 2 'Giant' (Poaceae) – (SWA). Spreading from rhizomes at Canning River (Penn 1993).
- Bidens formosus* (Asteraceae) – (SWA). Occasional along road verges around towns south of Perth, and on waste land in Perth (eg. Keighery 16263).
- Bougainvillea glabra* (Nyctaginaceae) – (SWA). Suckering at Baigup Wetlands, Bayswater (Regeneration Technology 1994).
- Callistemon phoeniceus* (Lesser Bottlebrush) (Myrtaceae) – (MUR, GS, YAL, AW, SWA, JF, COO, MAL, WAR, ESP, *SWA). Several hundred plants are established in Banksia woodland in Kings Park.
- Calothamnus chrysantherus* (Claw Flower) (Myrtaceae) – (CAR, MUR, GS, YAL, AW, *SWA). Naturalized in Kings Park (Keighery 16084).
- Calothamnus graniticus* (Myrtaceae) – (SWA, JF, *JF). Seeding from plantings at Dwellingup (Keighery 13133).
- Campsis radicans* and *Campsis* × *tagliabuana* (Bignoniaceae) – (SWA). These are found persisting and slowly spreading by suckers along very disturbed riverine sites in Perth.
- Ceratonia siliqua* (Caesalpinaceae) – (SWA). Seeding from plantings at Market Garden Swamp, Spearwood (Ecoscape 1995) and Manning Lake, Hamilton Hill (Keighery unpub. obs.).
- Chlorophyton comosus* (Asphodelaceae) – (WAR). In a highly disturbed Karri remnant at Augusta (Keighery 16627).
- Cistus rosmarinifolius* (Cistaceae) – (SWA). Seeding from plantings at Mount Eliza (Keighery unpub. obs.).
- Citrus limon* (Lemon) (Rutaceae) – (JF). Recorded in Kalamunda Shire (Armstrong 1993).
- Coleonema album* (Diosma) (Rutaceae) – (SWA). Recorded as a garden escape at Ludlow and Mandurah. Reports of this species as common along riverine silts near Mandurah and Harvey are *Astartea fascicularis* misidentified.
- Cordyline terminalis* (Draceneaceae) – (WAR). Karri Walk, Denmark (Keighery unpub. obs.).
- Crassula multicaeva* (Crassulaceae) – (JF). Spreading via plantlets at Two Peoples Bay Nature Reserve (Keighery 8114).
- Cucurbita maxima* (Winter Pumpkin) (Cucurbitaceae) – (SWA). A garden escape that is occasionally found in remnant bushland around Perth (Hussey *et al.* 1997).
- Cydonia oblonga* (Rosaceae) – (JF). Scattered along creeks around Bridgetown (Keighery 5334), and Nannup.
- Cynara scolymus* (Globe Artichoke) (Asteraceae). Reported to have occasionally escaped from gardens in the lower south-west (Hussey *et al.* 1997).
- Diospyros kaki* (Ebenaceae) – (JF). Seeding from plantings at abandoned orchards in Darling Range Regional Park near Crystal Brook (Keighery unpub. obs.).
- Echium candicans* (Boraginaceae) – (SWA). Found on waste land at Bunbury (S. Lloyd pers. com.).
- Eucalyptus erythrocorys* (Mrtaceae) - (GS, SWA, *SWA). Seeding from plantings in Kings Park.
- Felicia amelloides* (Asteraceae) – (ESP). Seeding from plantings on granite slopes at Esperance (Keighery and Alford 1548).
- Ficus macrocarpa* (Moraceae) – (SWA). Sir Frederick Samson Park, Samson (Appleby 1997).
- Grevillea curviloba* (Proteaceae) – (GS, SWA, JF, *JF). Spreading along road verges by mowing and grading from old amenity plantings at Burley Park, Bullsbrook (GJ&BJ Keighery 146).
- Grevillea leucopteris* (White Plume Grevillea) (Proteaceae) – (GS, AW, SWA, *SWA). Seeding from plantings, scattered on road verges and drainage sumps around Perth (e.g. Keighery 15698).
- Grevillea olivacea* (Olive Grevillea) (Proteaceae) – (GS, SWA, *SWA). Seeding from plantings at Woodman Point Regional Park, Munster (Keighery 13063).
- Grindelia camporum* (Asteraceae) – (AW). Only one record as a weed from Dowerin in 1998.
- Helianthus tuberosus* (Jerusalem Artichoke) (Asteraceae) – (SWA). A garden escape, with the only record from Midland in 1972. It is able to persist and slowly spread via root tubers.
- Hibbertia cuneiformis* (Cutleaf Hibbertia) (Dilleniaceae) – (SWA, JF, WAR, ESP, *SWA). Seeding from plantings on Garden Island (Keighery 1998) and in Hollywood Reserve, Karrakatta.
- Iris unguicularis* (Iridaceae) – (JF). Mount Melville, Albany, spreading by rhizome fragmentation and seed (Keighery 9902).
- Jacaranda mimosifolia* (Bignoniaceae) – (SWA, JF). Baigup Wetlands, Bayswater (Regeneration Technology 1994) and Kalamunda Shire (Armstrong 1993).
- Jasminum mesneyi* (Oleaceae) – (SWA). Suckering at Yanchep (Keighery 10541).
- Jatropha curcas* (Physic Nut) (Euphorbiaceae). Recorded once as a garden escape in the Kimberley.
- Kunzea* (non local) (Myrtaceae) – (JF). Seeding from plantings at Kalamunda Shire (Armstrong 1993).
- Lablab purpureus* (Papilionaceae) – (NK, CK, LSD, CAR, GS, SWA, JF). A common garden plant, often persisting and rampantly spreading in old garden sites, but probably not spreading beyond the original planting site.

- Lavandula angustifolia* (English Lavender) (Lamiaceae) – (SWA, JF). Found persisting around settlements and old gardens.
- Lechenaultia biloba* (Blue Leschenaultia) (Goodeniaceae) – (GS, AW, SWA, JF, WAR, COO, MAL, ESP, *SWA). Accidentally introduced into Shenton Bushland, Shenton Park, spreading slowly by suckering.
- Leptospermum sericeum* (Myrtaceae) – (JF). Self-seeding along road verges and into Jarrah forest at Grevillea-Mycumbene, Mundaring.
- Lilium candidum* (Liliaceae) – (JF, WAR). Recorded at Karridale (Keighery unpub. obs.), Kalamunda Shire reserves (as *Lilium* sp., Armstrong 1993) and on waste land at Albany (Keighery 16193).
- Linaria dalmatica* (Scrophulariaceae) – (SWA). Kings Park (Keighery 4530).
- Lobelia laxiflora* (Lobeliaceae) – (JF). Suckering at McLarty Settlement west of Harvey? (Keighery 13232).
- Lophostemon (Tristania) conferta* (Myrtaceae) – (SWA, JF). Seeding from plantings at Kings Park Bushland (Dixon and Keighery 1995). As ?*Tristania* sp. in Kalamunda Shire (Armstrong 1993).
- Ludwigia* sp. (Onagraceae) – (JF). Kalamunda Shire (Armstrong 1993).
- Malus × domestica* (Rosaceae) – (JF). Jane Brook, Kalamunda (Keighery 10441) and Nanga Brook, Dwellingup.
- Melaleuca armillaris* subsp. *armillaris* (Myrtaceae) – (JF). Spreading from rehabilitation plantings around the water treatment site on Mount Adelaide, Albany (Keighery 16024).
- Melaleuca quinquinervia* (Myrtaceae) – (SWA). Seeding from plantings at Eric Singleton Reserve, Bayswater (Keighery 15662).
- Monstera deliciosa* (Araceae) – (JF). Recorded in Kalamunda Shire (Armstrong 1993).
- Morus alba* (Moraceae) – (SWA). Suckering and forming dense stands on cliffs above Swan River, Claremont (Keighery 13774).
- Musa acuminata* (Banana) (Musaceae) – (SWA). Suckering at Garden Island (Keighery 1998), Maylands (Keighery unpub. obs.), Baigup Wetlands, Bayswater (Regeneration Technology 1994) and Yagan Wetlands (Brooker 1995).
- Parthenocissus quinquefolia* (Vitaceae) – (SWA). Suckering along creeks in Yagan Wetlands (Brooker 1995).
- Pelargonium panduriforme* (Geraniaceae) – (ESP). Slowly spreading around the abandoned Kundip Settlement, Ravensthorpe Ranges (Keighery 6198).
- Pennisetum polystachion* (Mission Grass) (Poaceae) – (VB). Reported, but not confirmed, from disturbed areas near Kununurra. A very serious weed in Northern Territory.
- Peperomia pellucida* (Piperaceae) – (DL). A nursery and lawn weed in Broome (Keighery 5674).
- Petunia × hybrida* (Petunia) (Solanaceae) – (SWA). Often found on waste land sites in Perth (eg. Keighery 2190).
- Phyllostachys* sp. (Poaceae) – (SWA). Suckering from rhizome, Swan and Canning River, Bayswater (Keighery 4450 and unpub. obs.).
- Pisum sativum* (Papilionaceae) – (SWA). Scattered on road verges, eg. Warbrook, Bullsbrook (Keighery 13157).
- Pittosporum angustifolium* (Pittosporaceae) – (GD, CR, GAS, MUR, GVD, GS, YAL, NUL, PIL, AW, SWA, JF, COO, MAL, ESP, *SWA). Seeding into Woodvale Nature Reserve from amenity plantings (Keighery 16270).
- Pityrodia teckiana* (Lamiaceae) – (GS, AW, COO, *DL, *JF). Recorded on the edges of the railway line in John Forrest National Park (Keighery 1991, Keighery 11466). Probably also introduced to Broome in 1920s and now died out.
- Plantago myosurus* (Plantaginaceae) – (WAR). Recorded from a sedgeland in D'Entrecasteaux National Park.
- Plumbago zeylanica* (Plumbaginaceae) – (SWA). Spreading by suckering at Manning Lake Regional Park, Hamilton Hill/Spearwood.
- Polygonum argyrocoleon* (Polygonaceae) – (SWA).
- Prunus persica* subsp. *persica* (Rosaceae) – (JF). Recorded from Nanga Brook, Dwellingup (Keighery 5227) and around Bridgetown (Lepschi pers. comm.).
- Psidium guajava* (Myrtaceae) – (NK). Recorded along creeklines near Kimbolton, Kimberley? (Kenneally 11120).
- Pyracantha* sp. (Rosaceae) – (JF). Seeding from plantings at Greenbushes (Keighery 14356).
- Pyrus communis* (Rosaceae) – (JF). Scattered along creeks around Bridgetown (Keighery 5354), Manjimup and Nannup.
- Rhodanthe chlorocephala* subsp. *rosea* (Asteraceae) – (LSD, GVD, CAR, GAS, MUR, GS, YAL, AW, SWA, COO, NUL, *SWA). Naturalized in Kings Park along road verges (Bennett 1995).
- Salix cinerea (caprea)* (Salicaceae) – (SWA). Recorded at Baigup Wetlands, Bayswater (Regeneration Technology 1994, Keighery 14134).
- Salix matsudana* (Salicaceae) – (SWA). Harvey River (Keighery 16264).
- Schefflera actinophylla* (Araliaceae) – (JF). Recorded in Kalamunda Shire (Armstrong 1993).
- Scilla hispanica* (Hyacinthaceae) – (JF). Old Settlement, south of Bridgetown (Keighery 4021).
- Scilla peruviana* (Hyacinthaceae) – (JF). Old Settlement, south of Bridgetown.
- Sedum dendroideum* (Crassulaceae) – (JF). Slowly spreading from offshoots at rubbish tip, Bridgetown (Keighery 5446).
- Senna surattensis* subsp. *sulfurea* (Singapore Shower) – (NK, DL). Randell and Barlow (1998) note this as a native, originally scattered in rainforest patches, but now often cultivated and escaping, probably making it now a lot more widespread than it used to be. This species' true natural distribution is unknown.
- Solanum aviculare* (Kangaroo Apple) (Solanaceae) – (SWA). One record in 1972, and another in 1999 from bushland at Gingin. Presumed eradicated.
- Spartium junceum* (Papilionaceae) – (JF). Recorded in Kalamunda (Armstrong 1993).
- Spathodea africana* (Bignoniaceae) – (SWA). Maylands foreshore (Meney 1987).
- Syngonium podophyllum* (Araceae) – (JF). Suckering from rhizome in drains at Albany (S. Lloyd s.n., 09-Oct.-1999).
- Tagetes patula* (Asteraceae) – (GS, SWA). Scattered on road verge, Mundijong (Keighery 14289) and on waste land at Northampton (Keighery 16092).
- Tetrapanax papyifer* (Araliaceae) – (SWA). Suckering in disturbed bushland on margins of Lake Joondalup (GJK 16445).
- Ursinia* sp. (Asteraceae) – (AW). Orange/yellow flowers. Common on road verges in Merredin townsite (GJ & BJ Keighery 160).
- Ursinia* sp. (Asteraceae) – (AW). White flowers. Common on road verges west of Corrigin townsite (GJK 15103).
- Verticordia monadelph* var. *monadelph* (Woolly Featherflower) (Myrtaceae) – (GS, AW, *SWA). Small populations established in Kings Park following 'enrichment' plantings in bushland in 1970 (Keighery 16192).
- Viola hederacea* (Violaceae) – (JF). Recorded in Kalamunda Shire (Armstrong 1993).
- Zantedeschia aethiopica* cv. 'Green Goddess' (Araceae) – (SWA). Rubbish tip at Bunbury (Keighery 1997).
- Zingiber* sp. (Zingiberaceae). Recorded in Kalamunda Shire (Armstrong 1993) – (JF).

Table 4. Numbers of naturalized weeds recorded for the IBRA regions represented in Western Australia.

Key
IBRA region
 IBRA regions are ordered roughly from north to south.
Number of weed taxa
 Numbers of weed taxa have been separated into Ferns, Gymnosperms, Monocotyledons and Dicotyledons; the total number of weed taxa for each IBRA region is also listed.
 The columns entitled E list the number of weed taxa considered environmental weeds.
 The columns entitled NE list the number of weed taxa not behaving as environmental weeds.

IBRA region	Ferns			Gymnosperms			Monocotyledons			Dicotyledons			Total		
	E	NE	Total	E	NE	Total	E	NE	Total	E	NE	Total	E	NE	Total
NK	0	0	0	0	0	0	8	19	27	66	30	96	74	49	123
VB	0	0	0	0	0	0	19	31	50	56	35	91	75	66	141
OVP	0	0	0	0	0	0	8	5	13	29	8	37	37	13	50
CK	0	0	0	0	0	0	9	7	16	44	8	52	53	15	68
DL	0	0	0	0	0	0	11	18	29	63	28	91	74	46	120
TAN	0	0	0	0	0	0	2	0	2	3	2	5	5	2	7
GSD	0	0	0	0	0	0	3	0	3	4	2	6	7	2	9
PIL	1	1	2	0	0	0	10	9	19	50	15	65	61	25	86
LSD	0	0	0	0	0	0	3	1	4	5	2	7	8	3	11
GD	0	0	0	0	0	0	3	0	3	1	1	2	4	1	5
CR	0	0	0	0	0	0	0	1	1	6	2	8	6	3	9
CAR	0	0	0	0	0	0	30	9	39	81	15	96	111	24	135
GAS	0	0	0	0	0	0	5	3	8	20	2	22	25	5	30
MUR	0	0	0	0	0	0	21	5	26	62	10	72	83	15	98
GVD	0	0	0	0	0	0	0	0	0	8	1	9	8	1	9
GS	0	0	0	0	0	0	72	21	93	163	56	219	235	77	312
YAL	0	0	0	0	0	0	8	2	10	45	4	49	53	6	59
AW	0	0	0	0	2	2	80	30	110	176	112	288	256	144	400
SWA	2	4	6	3	6	9	164	86	250	323	213	536	492	309	801
JF	2	2	6	3	7	10	135	75	210	284	195	479	424	281	705
COO	0	0	0	0	0	0	38	5	43	100	36	136	138	41	179
NUL	0	0	0	0	0	0	7	2	9	33	13	46	40	15	55
MAL	0	0	0	0	0	0	46	11	57	105	58	163	151	69	220
WAR	4	3	7	2	4	6	103	41	144	225	116	341	334	164	498
ESP	0	0	0	0	1	1	75	15	90	163	74	237	238	90	328
HAM	0	0	0	0	0	0	7	1	8	26	3	29	33	4	37

Table 5. Numbers of naturalized weeds recorded for Western Australia.

Plant group	Naturalized environmental weed taxa	Naturalized non-environmental weed taxa	Total naturalized weed taxa
Ferns	7	5	12
Gymnosperms	3	12	15
Monocotyledons	196	149	345
Dicotyledons	470	392	862
Total for all plant groups	676	558	1234