Keighery, G.J. New and noteworthy plant species recognised as naturalised in Western Australia


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SHORT COMMUNICATION

New and noteworthy plant species recognised as naturalised in Western Australia

The format of this paper follows that of Heenan et al. (2002) for New Zealand and Hosking et al. (2003) for New South Wales. Species are grouped under Monocotyledons or Dicotyledons, then listed alphabetically by family and scientific name, common name (when available), the location of a taxon description, natural region where the weed has been recorded following the Interim Biogeographic Regionalisation for Australia (Thackway & Cresswell 1995), habitats, first records and area of origin.

MONOCOTYLEDONS

ANTHERICACEAE

Chlorophytum comosum (Thunb.) Jacques

Spider Plant

DESCRIPTION: See McCune and Hardin (1993).

DISTRIBUTION: Jarrah Forest and Warren IBRA Regions.

HABITATS: Plants have established from discarded garden refuse spreading by plantlets and seed in this area and subsequently spread into the adjacent burnt and disturbed Karri - Marri Forest.


REGION OF ORIGIN: South-eastern Africa.

NOTES: The species is occasionally seen as casual on refuse sites and highly disturbed creeklines, for example at Wellington Mills, SE of Collie.

IRIDACEAE

Dietes grandiflora N.E. Br.

Wild Iris


DISTRIBUTION: Jarrah Forest IBRA Region.

HABITATS: Naturalised in an old sandpit. Plants have established in this area and subsequently spread into the adjacent burnt and disturbed Jarrah - Marri Forest.


REGION OF ORIGIN: Southern Africa.

NOTES: The genus Dietes Salisb. ex Klatt (Iridaceae) contains 5 species in southern and eastern Africa.
and the remarkably disjunct *D. robinsoniana* on Lord Howe Island (Goldblatt 1981 and Green 1994). All members are highly floriferous perennial herbs. In Western Australia *Dietes bicolor* (Steed.) Sw. ex Klatt and *D. grandiflora* N.E. Br. are used extensively as bedding plants in new suburban developments and as roadverge plantings throughout the city and suburbs, and excess materials (prunings, poor plants and seed heads, the species sets copious amount of seed) are often carelessly disposed of. *Dietes iridioides* (L.) Sweet ex Klatt was once a common garden plant in Perth, but has largely been supplanted by the previous species in the past decade.

There are few records of *Dietes* as naturalised plants in Australia. No species are listed in the Flora of Australia treatment by Cooke (1986), nor in the regional floras of Victoria (Conn 1994) or New South Wales (James and Brown, 1993). Scott and Delfosse (1992) do not list *Dietes* in their review of South African Plants naturalised in Australia. Groves *et al* (2000), however, record *Dietes robinsoniana* (C. Moore & F. Muell.) Klatt as naturalised in New South Wales and *D. iridioides* as naturalised in Queensland. *Dietes* is not mentioned in either the Australian (Csurhes and Edwards 1998) or Western Australian (Keighery 1999) lists of potential environmental weeds.

While it is unlikely that *Dietes* will become established in the older western and central areas of Perth with their deep sandy freely draining soils, it could more readily naturalise from plantings adjacent to bushland in the Forest areas on the eastern margins of Perth and around towns in the higher rainfall areas south of Perth. *Dietes*, as a genus, rates highly as an environmental weed risk in the AQIS Weed Risk Assessment System (Pheloung 1995 and Walton *et al*. 1998) and would be unlikely to be approved for importation for its current use. This species should not be used as a major planting feature in areas noted above, especially adjacent to bushland. Alternatively a seed-sterile form should be selected and grown.

*Dietes grandiflora* is an example of a garden escape in the early stages of naturalisation. Care now in the use of this genus in landscape planting and the correct disposal of material from these plantings should prevent it becoming an environmental weed of the future. At least, this species should be considered and listed as a potential environmental weed.

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**IRIDACEAE**

*Iris laevigata* **Fisch.**

**Water Iris**


DISTRIBUTION: Jarrah Forest IBRA Region.

HABITATS: in fringing *Baumea articulata* sedgeland in Lake Nature Reserve west of Albany.


REGION OF ORIGIN: Southern Africa.

NOTES: The genus *Iris* is a large genus of northern hemisphere perennial herbs, many species of which are commonly cultivated in Australia. There are few records of *Iris* as naturalised plants in Australia. Three species are listed in the Flora of Australia treatment by Cooke (1986), *Iris germanica*, L., *I. foetidissima* L. and *I. unguicularis* Poret. In southern Western Australia *Iris germanica* is a scattered
garden escape, where it is largely represented by a clonal white flowered form that does not set seed. *Iris ungicularis* is known from scattered plants on disturbed granite slopes on Mount Melville in Albany. Both of these species are very minor environmental weeds.

The naturalised populations of *Iris laevigata* were spreading via rampant rhizomes but were also setting copious fertile seed. The species probably entered the lake via material being disposed of, or in floods along the Elleker Drain. This species and the other related Water Irises are becoming popular feature plants and have the capacity to invade freshwater lakes and rivers in southern Western Australia.

**MUSACEAE**

*Musa acuminata* Cholla

_Banana_

DESCRIPTION: See Ross (1987).

DISTRIBUTION: Swan Coastal Plain IBRA Region.

HABITATS: Naturalised along a fresh water seep alongside the Canning River.


REGION OF ORIGIN: South-east Asia.

NOTES: *Musa acuminata* has persisted in a series of freshwater seeps along the Swan River at Bayswater and around an artesian bore on Garden Island. As far as I am aware, these populations have either been removed for rehabilitation purposes (Bayswater), or died when the water overflow was turned off (Garden Island).

The population in Yagan Reserve spread via rhizome expansion along a freshwater seepage line under a tall *Melaleuca rhaphiophylla* woodland forming a dense monospecific understorey. During 1996–7 C.R.R.E.P.A. (Canning River Residents Environmental Protection Association) members removed large numbers of plants which were supplied to Perth Zoo as feed for Elephants. All plants have now been removed. Although this activity was documented in the Association’s newsletter, its presence as a naturalised species and its removal is worthy of record.

**DICOTYLEDONS**

**AIZOACEAE**

*Delosperma ?vinaceum* L. Bolus


DISTRIBUTION: Geraldton Sandplains IBRA Region.

HABITATS: Low *Nitraria* shrubland on shallow soils over limestone.
FIRST RECORD: Rat Island, Abrolhos Islands, 5 Dec. 2000, G.J. Keighery 16023 (PERTH 06226442).

REGION OF ORIGIN: Southern Africa.

NOTES: Material of this species was collected when sterile and grown on in Perth, flowering in summer. The collection was referrable to the large Southern African genus *Delosperma*, however, it did not fruit in Perth and it can only be provisionally placed into a species at present. Two unidentified species of *Delosperma* are listed as naturalised in New Zealand (Webb *et al.* 1988). This species is able to spread rapidly and establish large populations because it roots at the nodes and easily fragments. It should be eradicated from its known occurrence before it is spread elsewhere in the Abrolhos.

**CARYOPHYLLACEAE**

*Levantina comatum* Desv.  
**Levantina Mouse-ear Chickweed**


DISTRIBUTION: Jarrah Forest and Avon-Wheatbelt IBRA Regions.

HABITATS: Firebreaks, grazed paddocks and Wandoo woodland.


REGION OF ORIGIN: Europe.

NOTES: This species has previously only been recorded in Australia from six localities in Victoria (Adams 1996), but is obviously well established in the central wheatbelt of Western Australia.

**CARYOPHYLLACEAE**

*Silene longicaulis* Pourr. Ex Lag.  
**Portuguese Catchfly**


DISTRIBUTION: Mallee and Esperance Sandplain IBRA Regions.

HABITATS: During the Biological Survey of the Agricultural Zone this species has been occasionally recorded in disturbed wetlands and at the edges of salt-affected wetlands.

FIRST RECORD: Southern margin of Truslove Nature Reserve, G.J. Keighery 16351.

REGION OF ORIGIN: Southern Africa.

NOTES: This species has previously been recorded in Australia from Victoria and South Australia (Adams 1996), but is also well established in the central wheatbelt of Western Australia.
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References


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