

## Golden Crownbeard / Dongara Daisy



### Scientific Name and status under the Biosecurity and Agriculture Act 2007

The "*Verbesina encelioides* (Cav.) Benth. & Hook. f. ex A.Gray" is permitted (s11) for the whole of state and is not assigned to any control category for a local government area at this time.

### Description

Erect, clumped annual, herb, up to 1.5 m high, yellow flower from Feb to Jul or Dec, growth in sandy soils, alluvial flats & roadsides.

*Growth form:* Herb.

*Life form:* Annual or short lived perennial.

*Reproduction:* Seed.

### General Biology

*Dispersal:* Machinery, soil movements, roadworks, animals.

*Seedbank persistence:* 2-3 years.

Disturbed sandy substrates are particularly vulnerable to invasion. Characteristics that make it a serious environmental weed include ability to invade native vegetation and displace native flora, high seed production, seed dormancy, ability to tolerate dry conditions and allelopathic effects. Can grow to 1.5m and forms dense stands. It is of particular concern on off shore Islands where it can cause substantial degradation to seabird habitat by creating a physical barrier to nesting birds, lowering nest density and shading out native plants and is toxic to stock

### Notes

### Management and Control

Hand remove isolated plants, including tap root, before seed set. Carefully dispose of plants as they are known to re-sprout roots. In degraded areas try 1% glyphosate + Pulse® 2 mL/L or in more intact bushland, Lontrel® 20 ml/10 L + wetting agent. Apply herbicide before seed set. Follow up control will be required on germinating seedlings for at least three years.

\*Read the manufacturers' labels and material safety data sheets before using herbicides. For further information consult the Australian Pesticides and Veterinary Medicines Authority to determine the status of permits for your situation or state.\*

Calendar Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
Active Growth							Y	Y	Y	Y	Y		
Flowering	Y	Y								Y	Y	Y	
Fruiting		Y	Y	Y									
Germination					Y	Y	Y						
Herbicide Treatment							Y	Y	Y	Y	Y		
Manual Removal	Y	Y				Y	Y	Y	Y	Y	Y	Y	

Legend: Y = Yes, regularly, O = Occasionally, U = Uncertain, referred by others but not confirmed.

## African Boxthorn



**Scientific Name and status under the Biosecurity and Agriculture Act 2007**

The "*Lycium ferocissimum* Miers" is permitted (s11) for the whole of state and is not assigned to any control category for a local government area at this time.

**Description**

Intricately branched, spiny shrub, 0.5-2.5(-4) m high, white-purple-blue flowers, growth from Apr to May or Aug to Dec, grows in waste grounds.

*Growth form:* Shrub.

*Reproduction:* Seed, root suckers, stem fragments (rarely).

*Dispersal:* Birds, mammals, water, skinks, garden refuse, soil movement.

*Time to first flowering:* 2 years.

**General Biology**

*Toxicity:* Berries, leaves, stems and roots are toxic to humans and livestock.

*Vegetative regeneration strategy:* Re-sprouts, produces root suckers, stem layering.

*Seedbank persistence:* Probably short, days-1 year.

*Fire response:* Probably re-sprouts after fire. Broken stem and root pieces can remain alive for several months before flowering, fruiting or taking root. Disturbance results in mass seed germination within one year.

**Notes**

**Management and Control**

Hand pull or dig out small seedlings ensuring removal of all roots. For mature plants cut and paint with 50% glyphosate and follow up treatment on regrowth or apply 250 ml Access® in 15 L of diesel to basal 50 cm of stem (basal bark).

*\*Read the manufacturers' labels and material safety data sheets before using herbicides. For further information consult the Australian Pesticides and Veterinary Medicines Authority to determine the status of permits for your situation or state.\**

Calendar Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
Flowering	Y	Y	O	O	O	O	O	O	Y	Y	Y	Y	
Fruiting	Y	Y	O	O	O	O	O	O	Y	Y	Y	Y	
Germination	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Active Growth			Y	Y	Y	O	O	O	Y	Y	Y		
Optimum Treatment	O	O	Y	Y	Y	O	O	O	Y	Y	Y	O	

**Legend:** Y = Yes, regularly, O = Occasionally, U = Uncertain, referred by others but not confirmed.

## African Love Grass

**Scientific Name and status under the Biosecurity and Agriculture Act 2007**

The "*Eragrostis curvula* (Schrad.) Nees" is permitted (s11) for the whole of state and is not assigned to any control category for a local government area at this time.

**Description**

Densely caespitose perennial (often purple near base), grass-like or herb, 0.3-1.2 m high. Fl. purple/green, Aug or Nov to Dec or Jan to May. Variety of soils. Disturbed sites.

**General Biology**

*Growth form:* Grass. *Life form:* Perennial, caespitose. *Reproduction:* Seed. *Dispersal:* Water, wind, mammals, slashing (particularly along roadsides), machinery, vehicles, soil, contaminated grain. *Photosynthetic Pathway:* C<sub>4</sub>. *Time to first flowering:* One year. *Seedbank persistence:* Possibly up to 5 years. *Fire response:* Often only top-killed by fire, rapidly re-sprouts. Forms dense monocultures, creating large fuel loads and a fire hazard. Recorded allelopathy. Favours sandy loams and well drained fertile soils, however will grow in a wide range of soils.

**Notes**

Adapted to semi-arid and desert areas and sandy low-fertility soils. Produces prolific seed at anytime provided there is sufficient moisture and warm temperatures. Cattle can excrete viable seed. Burning results in increased numbers of reproductive tillers.



### Management and Control

Cut out small plants or small infestations. Alternatively spray with 1-2% glyphosate when plants are green and actively growing. Following fire spray regrowth when 5-10 cm high. Always requires follow-up treatment.

\*Read the manufacturers' labels and material safety data sheets before using herbicides. For further information consult the Australian Pesticides and Veterinary Medicines Authority to determine the status of permits for your situation or state. \*

Calendar Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
Dormant						O	O	O	O				
Active Growth	Y	Y	Y	Y	Y	O	O	O	Y	Y	Y	Y	
Germination													
Flowering	Y	Y	Y	Y	Y						Y	Y	
Fruiting	Y	Y	Y	Y	Y	O						Y	
Optimum Treatment	Y	Y	Y	Y	Y					O	Y	Y	

Legend: Y = Yes, regularly, O = Occasionally, U = Uncertain, referred by others but not confirmed.

## Walkaway Burr



**Scientific Name and status under the Biosecurity and Agriculture Act 2007**

The *Cenchrus echinatus* L. is Permitted - s11 for the whole of state and is not assigned to any control category for a local government area at this time.

**Description**

Sometimes rhizomatous, tufted annual or perennial (rarely), grass-like or herb, 0.1-0.6(-1.2) m high. Green flower, Jan to Aug, grows in sand, red loam, black peaty clay.

*Growth form:* Grass.

*Life form:* Annual, caespitose.

*Reproduction:* Seed. *Dispersal:* Wind, mammals, water, clothing.

**General Biology**

*Photosynthetic Pathway:* C<sub>4</sub>.

*Seedbank persistence:* Medium, 1-5 years.

*Fire response:* Stimulates germination of soil-stored seed.

Common in disturbed sites, particularly on coastal dunes and limestone soils. Also found on cultivated and abandoned fields, pastures, roadsides, lawns, dunes and along river sands.

**Notes**

Under dry conditions plants are short-lived, small, and produce few burrs, while under moist conditions they may be long-lived, large and produces many burrs. Rapidly colonises bare or open ground. Withstands repeated defoliation in lawns, harvesting in forage crops or in pastures. Burrs readily attach to clothing or animals and can be carried by water.

### Management and Control

Prevent seed set. Manually remove small infestations and isolated plants. Spray with Verdict 520® 5 ml/10 L (250 ml/ha) + wetting agent or spot spray with 1% glyphosate. Follow-up with seedling control.

*\*Read the manufacturers' labels and material safety data sheets before using herbicides. For further information consult the Australian Pesticides and Veterinary Medicines Authority to determine the status of permits for your situation or state.\**

Calendar Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
Dormant							Y	Y	Y	O			
Active Growth	Y	Y	Y	Y	Y						O	Y	
Germination													
Flowering													
Fruiting													
Optimum Treatment													

**Legend:** Y = Yes, regularly, O = Occasionally, U = Uncertain, referred by others but not confirmed.