

COMMON PROBLEM INVASIVE PLANTS IN KLOOFENDAL NATURE RESERVE

Compiled by Karin Spottiswoode from Friends of Kloofendal April 2014

DRAFT – NOT FINISHED YET

With advice from Andrew Hankey, specialist horticulturist Walter Sisulu National Botanical Gardens in 2009

[BROMILOW, C., 2010. Problem Plants and Alien Weeds of South Africa. Briza Publications, Pretoria.](#)




[FABIAN, A. & GERMISHUIZEN, G. 1997. Wild flowers of Northern South Africa. Fernwood Press, Vlaeberg](#)

[VAN WYK, B & MALAN, S. 1998. Field guide to the wild flowers of the Highveld. Struik. Cape Town](#)

<http://www.invasives.org.za/>

Advice on poisons can be obtained from Avoncod (2009 information)

CREEPERS & CLIMBERS

Picture	Description	Location of the weed	Action
<p>Moth catcher Category 1b</p> 	<p><i>Araujia serricifera</i> – Creeper with milky latex & big seedpod</p> 	<p>Amphitheatre, path towards dam and amongst riverside vegetation</p>  <p>Big seedpod</p>	<p>Pull out. Remove seed pod if accessible.</p>

Red /Climbing Sorrel,
Invasive weed



Rumex saggitatus

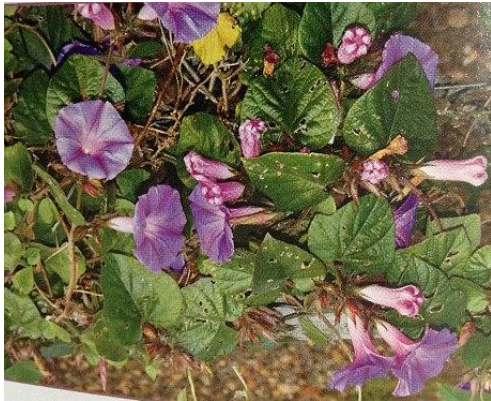


flowers

Creeper near Thomas cottage
& next to path towards dam.
Covers other plants.

Pull out before seeds appear

Morning Glory



Ipomoea purpera



Extremely difficult to control. Is sensitive to hormone- type herbicides.

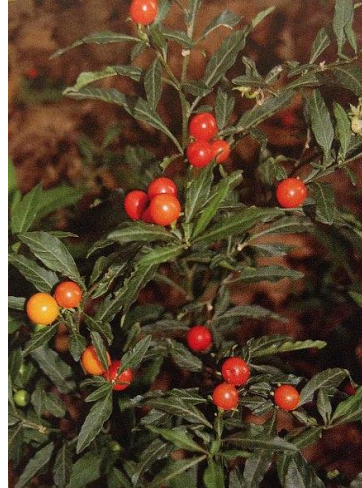


HERBS & SHRUBS

Jerusalem Cherry, **Category 1**



Solanum pseudocapsicum
Bosgifappel, – small bush with bright orange round poisonous fruit

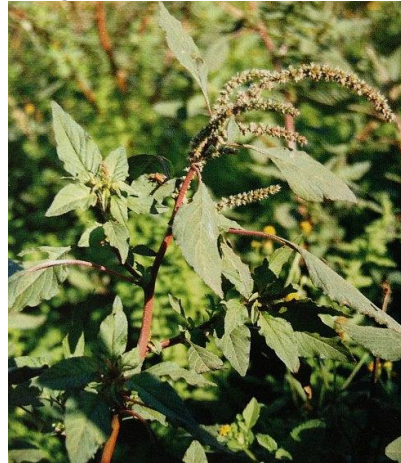


Edges of amphitheatre,
northern part, along path to
dam and yellow on map

Pull out







Thorny Pigweed – **Invasive alien weed**



Amaranthus spinosus

Remove when small. Bigger ones treat
with broadleaved herbicide

<p>Dense-thorned bitter apple Category 1b</p>	<p><i>Solanum sisymbriifolium</i> Very prickly weed</p>		<p>Herbicide (expensive), biocontrol with minimal success so far</p>
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<p>Khakibos Invasive alien weed</p>	<p><i>Tagetes minuta</i></p>	<p>Any disturbed area, usually together with Black jacks. It has a distinctive, strong smell</p>	<p>Slash above grass level before seeds are ripe,</p>
<p>Blackjacks Invasive alien weed</p> 	<p>- <i>Bidens pilosa</i> yellow flowers, prickly seeds which cling onto socks & clothes</p>		<p>Slash above grass level before seeds are ripe</p>
<p>Forget-me-not Invasive problem weed</p> 	<p><i>Cynoglossum hispidum</i> (family: Boraginaceae) – little blue flowers in summer, followed by horrible burrs (=fruits & seed) ID by prof. Braam van Wyk, April 2012</p>	<p>Wetland –. Indigenous, but extremely invasive</p> 	<p>Remove before seeds/ burrs appear</p>

Scotch Thistle – Category 1b

Cirsium vulgare



Found in wetland

Slash before seeds mature. Burn seeds


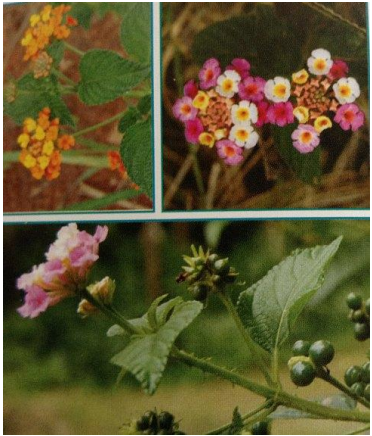


Flax-leaf fleabane





Conyza bonariensis Asteracea
Annual weed with lots of seed

In grassland near Thomas' cottage & in wetland

Slash above grass level, before flowers form seed

<p>Lantana, Category 1</p> 	<p><i>Lantana camara</i></p>  <p>fruit</p>	<p>Amongst rocks near Thomas' cottage, higher up in reserve amongst rocks</p>	<p>Slash before seeds appear, Try to dig out roots. If not successful, poison stem & roots</p>
<p>Cape Gooseberry, Alien invader</p> 	<p><i>Physalis peruviana</i> Invasive creeper, which does not belong on the Highveld</p> 		<p>Pull out</p>

<p>Inkberry, Category 1b</p> 	<p><i>Phytolacca octandra</i> - red stem & autumn coloured leaves</p>	<p>Dassie Rock, wetland, upper ridge, little stream crossing - prolific</p>	<p>Cut off flower heads before seeds ripen, pull and dig out the whole plant</p>
<p>Spotted Knotweed Alien invader</p>	<p><i>Polygonum lapathifolium</i></p>	<p>In the dam growing from edges inwards</p>	<p>Easy to remove by cultivation</p>
<p>Pompom Weed, Category 1</p> 	<p><i>Campuloclinium macrocephalum</i></p>	<p>Next to entrance, near Thomas' cottage, on ridge above path to dam</p>	<p>Cut off flower heads before they seed and burn those. Then pull out plants</p>

Mexican Poppy, **Category 1**



Argemone mexicana



Inlet of dam
Seems to be controlled (2012)

Best removed by shallow cultivation

Chaff flower, burweed grootklits, langklitskafblom
Category 1



Achyranthus aspera

Next to path at north-eastern
entrance into reserve

Easily controlled by
cultivation but mature plants
to be removed with care

Ronde klits – Burr weed

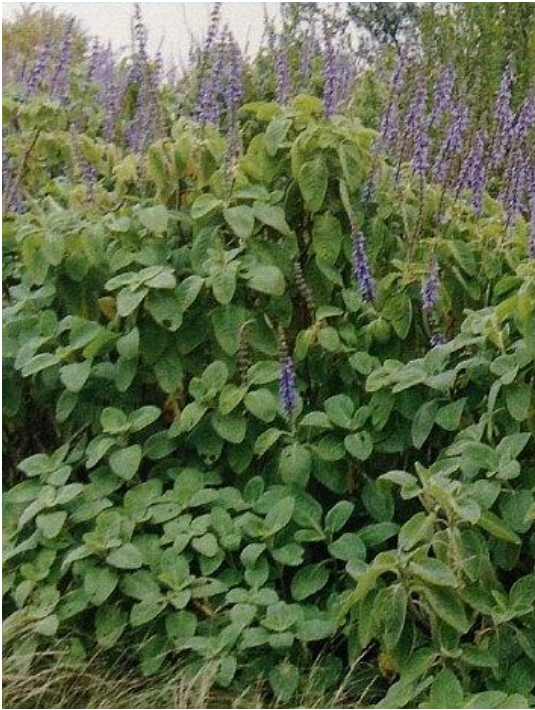


Cyathula uncinulata– very invasive bur

In the wetland

Slash before fruit & seeds ripen.
Best removed by cutting it below
ground level

Woolly plectranthus, **Category 1**



Plectranthus comosus, *Salvia tiliifolia*, *Coleus grandis*, *Abyssinian coleus*



To be carefully identified and removed

Crofton Weed,
Mexican Devil, **Category 1**

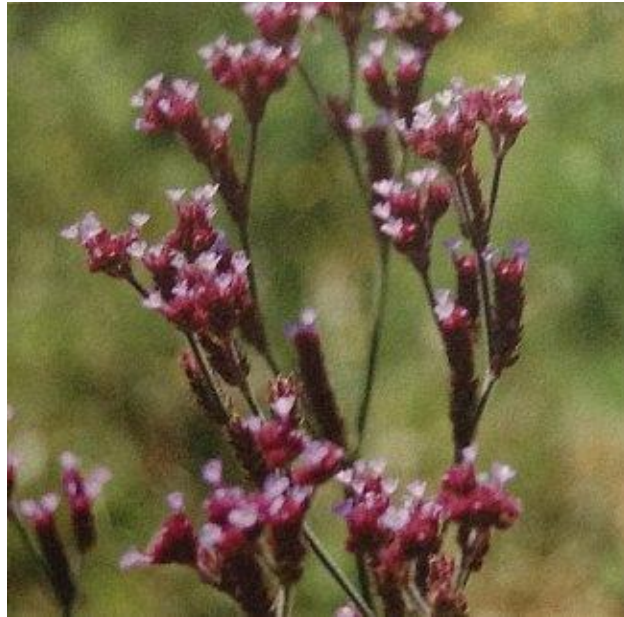


Ageratina adenophora

A few plants have been found in the stream bed above the dam.
Could have spread from Christiaan de Wet

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*Verbena bonariensis/ Verbena
braziliensis*
Category 1



Control by cultivation and
broadleaved weed herbicide

Malpitte , Category 1b



Datura stramonium





Post emergence herbicides

Four O clock
Category 1b



Mirabilis jalapa

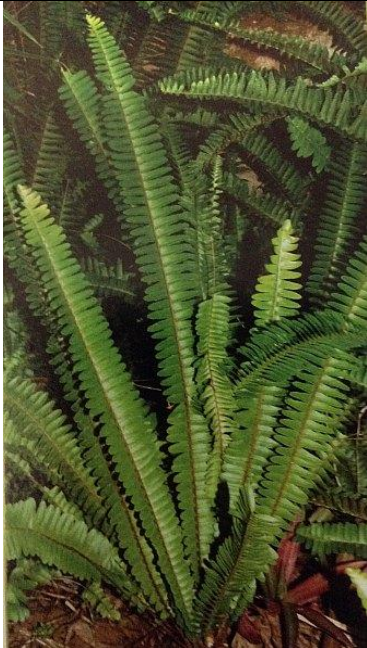

Can be removed physically or sprayed with a systemic herbicide

<p>Tree mallow, category 1b</p> 	<p><i>Lavateria orbea</i></p> 		<p>It should be removed when small. No herbicides registrations for this weed</p>
<p>Cactus, Category 1b</p> 	<p><i>Opuntia imbricata</i></p> 	<p>Above smaller mine enclosure next to path & in flower bed in parking lot, in the reserve next to private residences on Galena Street</p>	<p>Biocontrol, herbicide. If plant is cut down, then all pieces must be collected and destroyed</p>

Canna – Category 1b



In flower bed in amphitheatre area

<p>Sword Fern - Category 1b</p>		<p>In flowerbed in amphitheatre area</p>	<p>Hand pulling is possible but make sure all parts of the plant is removed</p>
<p>Zinnia – exotic annual weed</p>	<p><i>Zinnia peruviana</i></p> 		<p>Susceptible to conventional herbicides and cultivation during seedling stage.</p>

FLAT GROWING HERBS

Tropical Richardia,
Alien invasive weed



Richardia braziliensis

Creeper amongst the grass
Different common names, e.g. paper thorn,
Khaki weed, creeping chafweed

Amphitheatre
lawn and paths
leading away
from the
amphitheatre

(i) Fertilise lawn to give grass
strength to compete against weed
(ii) Watering when needed
(iii) Set lawnmower higher to allow
grass to retain its nutrients (leaves
photosynthesise = make food for
plant)
(iv) Broadleaf herbicide

Wandering Jew
Alien invasive weed



Tradescantia fluminensis

Foliage is easy to remove, but must be done repeatedly



GRASS			
<i>Pampas Grass, Category 1</i>	<i>Cortaderia jubata</i>	In mine –has been removed	Cut off flowers before seeding, burn them, dig out stumps
No work has been done on invasive, problem and/ or alien grasses			
TREES			
Bug weed, Category 1	<i>Solanum mauritianum</i> - Very smelly leaves		Pull out if plant is young Cut down, poison stump or apply foliar herbicides if foliage can be reached and follow up.



Northern part of amphitheatre, wetland area, in the reserve adjacent to (coming from) private residences.

Inkberry = bad name as *Phytolacca octandra* is also Inkberry, so we refer to this tree as

Cestrum laevigatum

Herbicide is best method.
Physical total removal of entire plant on account of vigorous regrowth

Cestrum - Category 1b



Above little stream in forest above dam.
Smelly leaves

Syringa, Category 1b



Melia azedarach

Tree to be cut down below ground level Triclopyr mixed with Diesel oil painted onto the stem immediately after cutting

Black Wood, Category 1b

Acacia melanoxylon

Few biggish ones seen from paths near dam wall, in between *Protea roupelliaes* on hill side north of the dam and other places




Cut & poison stumps

Black Wattle – Category 2



Acacia mearnsii

Cut and poison

<p><i>Silverleaf Cotoneaster</i> Category 1b</p> 	<p><i>Cotoneaster franchetii</i></p> 	<p>Next to path by dam wall and below dam wall</p> 	
<p>Gum trees</p>	<p><i>Eucalyptus camaldulensis</i> & <i>Eucalyptus cinerea</i></p>	<p>On ridge southern part of reserve and western boundary</p>	
<p>Pine trees</p>		<p>Western boundary</p>	<p>Cut, poison stump, burn seed</p>

Common privet, **Category 1b**



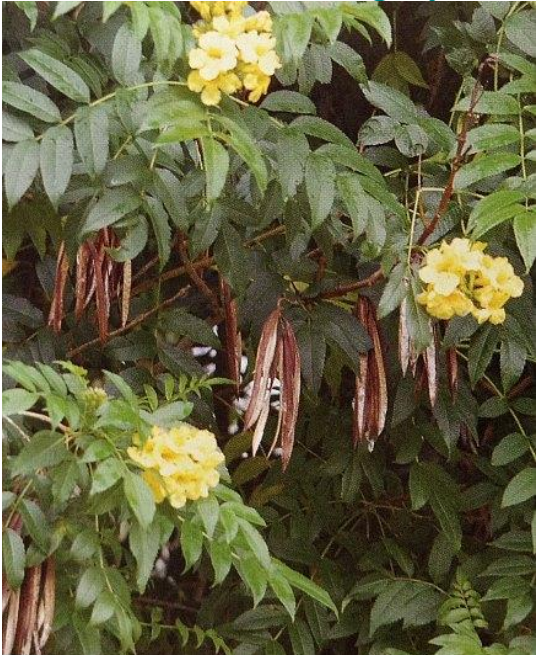


Ligustrum ovalifolium



North eastern side of Amphitheatre area –
Cut, poison stump, follow up as seeds stay viable for many
years



<p>False Acacia</p> 	<p><i>Robinia pseudoacacia</i></p> 	<p>http://www.invasives.org.za/ Bromilow: "Physical removal requires care and persistence."</p>
<p>Yellow Bells – category 1b</p> 	<p><i>Tecoma stans</i> Found in stream bed above dam</p>	<p>Remove physically, destroy all seeds. Herbicides don't work</p>

CARA: 1983/ 2001	CARA/ NEMBA: Proposed 2009
Category 1b CARA/ NEMBA	Plants widespread invasive species controlled by a management programme
Category 1 CARA	Plants prohibited, must be controlled
Category 2 CARA	Plants (commercially used plants) may be grown in demarcated areas, providing there is a permit and steps are taken to prevent their spread
Category 3 CARA	Plants(ornamentally used plants) may no longer be planted; existing plants may remain except within floodline of watercourses and wetlands, as long as all reasonable steps are taken to prevent their spread.
Cultivation: the act of growing plants in general, tilling the soil or disturbing the soil mechanically with the specific aim of destroying weeds	