Invasive species program

Invasive species categories

In the preparation of this plan, a categorisation process for the management of invasive plants and animals has been completed. This has followed the process outlined in the Risk Prioritisation Tool.

This followed the following three stage process
Stage 1: Prioritisation of invasive plants and animals
Stage 2: Select reasonable and practicable measures
Stage 3: Select best compliance tools.

As part of stage one each invasive species listed in this document was assessed against the following categories

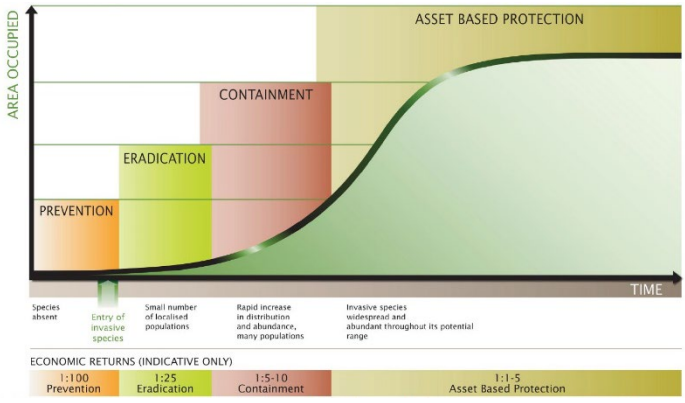
- Economic Impact
- Social Amenity Impact
- Human Health Impact
- Environmental Impact
- Invasiveness
- Potential distribution in our region

Those considered medium risk or higher then were assessed against

- Current distribution
- Cost of control
- Effectiveness of control.

Once assessed the species are categorised as

- Prevention
- Eradication
- Containment
- Asset Protection.



Strategic management categories

For each strategic management category objectives and broad strategic actions have been established in additionto the actions associated with the key issues.

Prevention

Species that are not yet present in the region.

Management objective – Maintain Rockhampton Region pest-free status by monitoring and detecting anynew incursions before they become established.

Actions:

- Monitor and detect any new incursions before theybecome established,
- Training and awareness activities for the communityto enable early detection.

Eradication

Species with a restricted distribution and low abundancethat have the potential to be eradicated (removal of all individual invasive plant or animal species) from the region.

Management objective – Return the Rockhampton Region to pest-free status by eradicating all known infestations.

Actions:

- Detailed surveillance and mapping to locate allinfestations/populations,
- Destruction of all infestations/populations includingseedbanks and juveniles,
- Prevention of entry to the region and keeping,movement and sale within the region,
- Removal and prohibition of all cultivated plants,
- Increase stakeholder awareness and encouragereporting.

Containment

Species that are abundant throughout the region andmust be prevented from spreading beyond predefinedareas.

Management objective – Prevent spread to pest-freeareas and minimise the impact on particular assets
by containing, reducing and managing impacts on, and risk to,surrounding land uses.

Actions:

- Surveillance and mapping to locate all infestedproperties,





- Control of all infestations, aiming for a significantreduction in density,
- Prevention of entry to new areas ,
- Enforce control of all species, aiming for a significant reduction in density through high level initial control and sustained management,
- Preventing spread from cultivated plants,
- Monitor change in current distribution,
- Increase landholders capacity to identify and manage.

Asset Based Protection

Species that are widespread throughout the region.

Management objective – To detect any significant changes in the species through surveillance. To protect high value areas of the region.

Actions:

- Monitor the spread of the species and review anyperceived changes,
- Provide advice to stakeholder when requested,
- Increase landholders capacity to identify and manage.
- Control species in where assets – physical and environmental are impacted significantly eg infrastructure and environmentally sensitive areas.

No/ Limited Action

Species that have low impact on the environment or it is ineffective to manage the species





Prevention

Management objective - Maintain Rockhampton Regions pest-free status by monitoring and detecting any new incursions before they become established.

Common Name	Scientific Name	*Biosecurity Act 2014* Category Numbers	WoNS	Distribution
Plants				
African Boxthorn	*Lycium ferocissimum*	3*	✓	Present in State
Alligator Weed	*Alternanthera philoxeroides*	3		Borders region
Annual Ragweed	*Ambrosia artemisiifolia*	3		Borders region
Balloon Vine	*Cardiospermum grandiforum*	3		Present in State
Bitou Bush	*Chrysanthemoides monilifers* spp. *rotundifolia*	2*, 3, 4*, 5*		Present in State
Blackberry	*Rubus anglocandicans, Rubus fruticosus aggregate*	3		Present in State
Boneseed	*Chrysanthemoides monilifera ssp. monilifera)*	2, 3, 4, 5		Present in State
Bridal Creeper	*Asparagus asparagoides*	2, 3, 4, 5	✓	Present in State
Bridal Veil	*Asparagus declinatus*	3		Not in State
Brooms including with the following names				
▪ Flax-leaf broom	*Genista linifolia*	3		Not in State
▪ Montpellie broom	*Genista monspessulana*	3		Not in State
▪ Scotch broom	*Cytisus scoparius*	3	✓	Not in State
Cabomba	*Cabomba caroliniana*	3		Present in State
Candyleaf	*Stevia ovata*	3		Present in State
Cane Cactus	*Austrocylindropuntia cylindrica*	3		Present in State
Chilean Needle Grass	*Nassella neesiana*	3	✓	Present in State
Chinese Celtis	*Celtis sinensis*	3		Present in State
Cholla Cacti with the following names:				
▪ Coral Cactus	*Cylindropuntia fulgida*	3	✓	Borders region
▪ Devil's Rope Pear	*C. imbricata*	3	✓	No mapping
▪ Hudson Pear	*Cylindropuntia rosea* and *C. tunicata*	2,3,4,5	✓	Borders region
▪ Jumping Cholla	*C. prolifera*	2,3,4,5	✓	No mapping
▪ Snake Cactus	*C. spinosior*	3	✓	Present in State
Elephant Ear Vine	*Argyreia nervosa*	3		Present in State
Eve's Pin Cactus	*Austrocylindropuntia subulata*	3		Present in State
Fireweed	*Senecio madagascariensis*	3		Present in State
Gamba Grass	*Andropogon gayanus*	3		Present in State
Giant Sensitive Plant	*Mimosa diplotricha var. diplotricha*	3		Present in State
Gorse	*Ulex europaeus*	3	✓	Not in State
Groundsel Bush	*Baccharis halimifolia*	3		Borders region
Harungana	*Harungana madagascariensis*	3		Present in State
Honey Loctus	*Gleditsia triacanthos including cultivars and varieties*	3		Present in State
Hygrophilia	*Hygrophila costata*	3		Present in State
Karoo Thorn	*Vachellia karroo*			Not in state
Koster's Curse	*Clidemia hirta*	2, 3, 4, 5		Present in State
Kudzu	*Pueraria montana var. lobata syn. P. lobata, P. triloba other than in the Torres Strait Islands*	3		Present in State





Common Name	Scientific Name	Biosecurity Act 2014 Category Numbers	WoNS	Distribution
Limnocharis, yellow burrhead	*Limnocharis flava*	2,3, 4, 5		Present in State
Madras Thorn	*Pithecellobium dulce*	2, 3, 4, 5		Present in State
Mexican Bean Tree	*Cecropia pachystachya, C. palmata and C. peltata*	2, 3, 4, 5		Present in State
Mexican Feather Grass	*Nassella tenuissima*	2, 3, 4, 5		Present in State
Miconia	*Miconia calvescens, M. cionotricha, M. nervosa, M. racemosa*	2, 3, 4, 5		Present in State
Mikania Vine	*Mikania micrantha*	2, 3, 4, 5		Present in State
Mimosa Pigra	*Mimosa pigra*	2, 3, 4, 5	✓	Present in State
Ornamental Gingers (Kahili ginger, white ginger, yellow ginger)	*Hedychium gardnerianum, H. coronarium, H. flavescens*	3		Present in State
Pond Apple	*Annona glabra*	3	✓	Present in State
Prickly Pears:				
▪ Bunny Ears	*Opuntia microdasys*	2,3,4,5	✓	Present in State
▪ Drooping Tree Pear	*O. monacantha* syn. *O. vulgaris*	3	✓	No mapping
▪ Prickly Pear	*O. elata*	2,3,4,5	✓	No mapping
▪ Tiger Pear	*O. aurantiaca*	3	✓	No mapping
Privets (broad-leaf privet, tree privet, small-leaf privet, Chinese privet)	*Ligustrum lucidum, L. sinense*	3	✓	Borders region
Sengal Tea	*Gymnocoronis spilanthoides*	3		Present in State
Siam Weed	*Chromolaena odorata, C. squalida*	3		Present in State
Sicklepods (foetid cassia, hairy cassia, sicklepod)	*Senna tora, S. hirsute, S. obtusifolia*	3		Borders region
Silver-leaf Nightshade	*Solanum elaeagnifolium*	3	✓	Borders Region
Telegraph Weed	*Heterotheca grandiflora*	3		Present in State
Thunbergias (Blue Thunbergia)	*Thunbergia grandiflora syn. T. laurifolia*	3		Borders Region
Tobacco Weed	*Elephantopus mollis*	3		Present in State
Tropical Soda Apple	*Solanum viarum*	1		Present in State
Water Mimosa	*Neptunia oleracea* and *N. Plena*	2,3,4,5		Present in State
Willows	all *Salix* spp. other than *S. babylonica*, *S.* x *calodendron* and *S.* x *reichardtii*	3		Present in State
Animals				
Asian Honey Bee	*Apis dorsata, A. florea, A. cerana other than A cerana javana*	1*		Present in State
Barbary Sheep	*Ammotragus lervia*	2, 3, 4, 5, 6*	-	Present in State
Blackbuck Antelope	*Antilope cervicapra*	2, 3, 4, 5, 6	-	Present in State
Electric Ant or Little Fire Ant	*Wasmannia auropunctata*	1		Present in State
Feral Chital Deer	*Axis axis*	3, 4, 6	-	Present in State
Feral Fallow Deer	*Dama dama*	3, 4, 6	-	Present in State
Feral Goat	*Capra hircus*	3, 4, 6	-	Escapees
Feral Red deer	*Cervus elaphus*	3, 4, 6	-	Present in State
Hog Deer	*Axis Porcinus*	2, 3, 4, 5, 6	-	Present in State





Common Name	Scientific Name	Biosecurity Act 2014 Category Numbers	WoNS	Distribution
Red Eared Slider Turtle	*Trachemys scripta elegans*	2, 3, 4, 5, 6	-	Present in State
Red Imported Fire Ant	*Solenopsis invicta*	1		Present in State
Sambar Deer	*Rusa unicolor, syn. Cervus unicolor*	2, 3, 4, 5, 6	-	Present in State
Yellow Crazy Ant	*Anoplolepis gracilipes*	3	-	Present in State

*Category

1 – Must report the presence of category 1 matter to an DAF inspector within 24 hours
2 – Must report the presence/sightings of category 2 matter to Biosecurity Queensland within 24 hours
3 – Must not distribute or dispose of unless under a regulation, restricted matter permit or by an authorised officer
4 – Must not move or cause or allow to be moved
5 – Must not keep in the person's possession or under the persons control
6 – Must not give food to





Eradicate

Management objective - Return the Rockhampton Region to pest-free status by eradicating all known infestations.

Common Name	Scientific Name	*Biosecurity Act 2014* Category Numbers	WoNS	Distribution
Plants				
Badhara Bush	*Gmelina elliptica*	3		Isolated
Belly-ache Bush	*Jatropha gossypiifolia and hybrids*	3		Isolated
Camphor Laurel	*Cinnamomum camphora*	-		Isolated
Dutchmans Pipe	*Aristolochia spp. other than native species*	3		Isolated
Log Wood	*Haemaatoxlyon campechianum*	-		Isolated
Mesquites (honey mesquite, mesquite or algarroba, Quilpie mesquite)	*Prosopis flandulosa, P. pallida, P. velutina*	3	✓	Isolated





Containment

Management objective - Prevent spread to pest-free areas and minimise the impact on particular assets by containing and managing impacts on, and risk to, surrounding land uses.*

Common Name	Scientific Name	*Biosecurity Act 2014* Category Numbers	WoNS	Distribution
Plants				
African Fountain Grass	*Cenchrus setaceum*	3		Isolated
African Love Grass	*Eragrostis curvula*	NA		Isolated
African Tulip Tree	*Spathodea campanulata*	3		Isolated
Asparagus Fern	*Asparagus scandens*	3	✓	Scattered
Athel Pine	*Tamarix aphylla*	3		Isolated
Broad Leaved Pepper Tree	*Schinus terebinthifolius*			Isolated
Cats Claw Creeper	*Dolichandra unguis-cati*	3		Scattered
Lion Tail	*Leonotis nepetifloia*	Locally declared		Widespread
Maderia Vine	*Anredera cordifolia*	3		Isolated
Mexican Poppy	*Argemone ochroleuce Sweet subsp. Ochroleuca*	Not declared		Widespread
Parkinsonia	*Parkinsonia aculeata*	3	✓	Scattered
Prickly Acacia	*Vachellia nilotica*	3	✓	Widespread
Prickly Pears				
▪ Common Pest Pear	*Opuntia stricta syn. O. inermis*	3	✓	Widespread
▪ Velvety Tree Pear	*Opuntia tomentosa*	3	✓	Scattered
▪ Westwood Pear	*Opuntia streptacantha*	3	✓	Isolated
Rats Tail Grasses (American RTG, Giant Parramatta Grass, Giant RTG)	*Sporobolus jacquemontii* *S. fertilis* *S. pyramidalis and S. natalensis*	3		Scattered
Singapore Daisy	*Sphagneticola trilobata syn. Wedelia trilobata*	3		Isolated
Sisal	*Agave vivipara (var. vivipara and cv. Marginate (sisal)), Agave sisalana (sisal/sisal hemp*	Locally declared		Scattered
Wild Sisal	*Furcraea selloa*	Locally declared		Scattered
Yellow Bells	*Tecoma stans*	3		Scattered
Yellow Oleander, Captain Cook tree	*Cascabela thevetia syn. Thevetia peruviana*	3		Scattered
Animals				
Feral Rusa deer	*Rusa timorensis, syn, Cervus timorensis*	3, 4, 6	-	Isolated





Asset Protection

Common Name	Scientific Name	*Biosecurity Act 2014* Category Numbers	WoNS	Distribution
Castor Oil Plant	*Ricinus communis*	Locally declared		Widespread
Chinee Apple	*Ziziphus mauritiana*	3		Scattered
Devil's Fig	*Solanum torvum*	Locally declared		Widespread
Elephant Grass	*Penisetum purpurem*	Locally declared		Isolated
Feral Leucaena	*Leucaena leucocephala*	Locally declared		Widespread
Grey Leaved Cordia	*Cordia sinensis*	Locally declared		Isolated
Harrisa cactus	*Harrisia martinii, H. tortuosa and H. pomanensissyn. Cereus pomanensis*	3		Widespread
Hymenachne	*Hymenachne amplexicaulis and hybrids*	3	✓	Scattered
Lantana creeping lantana and lantana, common lantana	*Lantana montevidensis and Lantana camara*	3		Widespread
Lion Tail	*Leonotis nepetifloia*	Locally declared		Widespread
Mother of Millons	*Bryophyllum delagoense syn. B. tubiflorum, Kalanchoe delagoensis*	3		Scattered
Parthenium	*Parthenium hysterophorus*	3	✓	Widespread
Rubber Vine (ornamental rubber vine, rubber vine)	*Cryptostegia madagascariensis, C. grandiflora*	3	✓	Widespread
Salvinia	*Salvinia molesta*	3	✓	Scattered
Snakeweed	*Stachytarphets spp*	Locally Declared		Widespread
Water Hyacinth	*Eichhornia crassipes*	3		Widespread
Water Lettuce	*Pistia stratiotes*	3		Widespread
Animals				
Dingo	*Canis lupus dingo*	3, 4, 5, 6	-	Widespread
Wild Dog	*Canis familaris*	3, 4, 6	-	Widespread
European fox	*Vulpes vulpes*	3, 4, 5, 6	-	Widespread
European rabbit	*Oryctolagus cuniculus*	3, 4, 5, 6	-	Widespread
Feral Cat	*Feline catus*	3, 4, 6	-	Widespread
Feral pig	*Sus scrofa*	3, 4, 6	-	Widespread
Tilapia	*Tilapia, Oreochromis and Sarotherodon spp.*	3, 5, 6, 7	-	Widespread

No/ Limited Action

Common Name	Scientific Name	*Biosecurity Act 2014* Category Numbers	WoNS	Distribution
Animals				
Indian Mynah	*Acridothere fuscus*	Not declared		Scattered



