

Bothriochloa pertusa

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Liliopsida	Cyperales	Poaceae

Common name hurricane grass (English), Barbados sour grass (English), Antigua hay (English), pitted beard grass (English), Indian couch grass (English), Comagueyana (Spanish), pitted bluestem (English)

Synonym *Andropogon pertusus* , (L.) Willd
Holcus pertusus , L.

Similar species

Summary *Bothriochloa pertusa* is a perennial grass that has been introduced to many Caribbean islands and Australia. It has established itself in many native savannah, shrubland and riparian biotas where it is able to out compete many native species due to its ability to establish new individuals via stolon growth. In these areas it establishes dense mats and shades out any slower establishing species. In Australia it is used as a stock feed due to its ability to establish in the poor dry soils of Northern Queensland.



[view this species on IUCN Red List](#)

Species Description

Wagner *et al* (1999; as seen in PIER, 2008) describes *Bothriochloa pertusa* as a "sprawling perennial... 30-100m tall, hollow, freely branching, (leaves) 0.7-1.2mm long; blades 3-4mm wide, with scattered, elongate, papillose-based hairs along margins and above ligule. Inflorescences terminal, often purplish,... 2-5cm long". For images of the species please click on the following link [Images: Bothriochloa pertusa](#)

Uses

A study by Hall & Walker (1994) assessed *Bothriochloa pertusa* potential use as a food source for grazing livestock in the northern areas of Queensland, Australia. It was found that in these dry grassland conditions, *B. pertusa* was well suited to handle grazing, competition and limited resources; which should have highlighted its potential as an invasive species. Not only did it produce the longest stolons (1.6m) but after 5 years it had also spread the most (2.7m). After 5 years it had also shown to have suppressed growth of exotic legumes, and caused native grasses to disappear from some plots. It is now an established invasive species within both Northern and Central Queensland. *B. pertusa* is also used for erosion control, a revegetator and has potential as a lawn/turf species. It is also a primary feed for Rusa Deer (*Cervus timorensis russa*) on New Caledonia (Spaggiari & Garine-Wichatitsky, 2006).

Reproduction

Bothriochloa pertusa can reproduce by both seed and stolon growth (Hall & Walker, 1994).

Management Info

Physical: On the USA, Virgin Islands it has been suggested that *Bothriochloa pertusa* should be mechanically removed and the area immediately replanted with native seedlings of suitable trees and taller shrubs, which will prevent this shade intolerant grass from re-establishing itself (McNair & Lombard, 2004), however the applicability of this solution to other locations is not known.

Principal source:

Compiler: IUCN SSC Invasive Species Specialist Group (ISSG) with support from the Overseas Territories Environmental Programme (OTEP) project XOT603, a joint project with the Cayman Islands Government - Department of Environment

Review:

Publication date: 2010-06-02

ALIEN RANGE

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| [1] ANGUILLA | [2] AUSTRALIA |
| [1] BAHAMAS | [4] CAYMAN ISLANDS |
| [1] FRENCH POLYNESIA | [1] MAURITIUS |
| [1] MEXICO | [2] NEW CALEDONIA |
| [1] NORTHERN MARIANA ISLANDS | [1] PUERTO RICO |
| [1] SAINT KITTS AND NEVIS | [1] SAINT LUCIA |
| [13] UNITED STATES | [1] UNITED STATES MINOR OUTLYING ISLANDS |
| [1] VIRGIN ISLANDS, U.S. | |

Red List assessed species 1: CR = 1;

[Ameiva polops](#) **CR**

BIBLIOGRAPHY

26 references found for *Bothriochloa pertusa*

Managment information

[Alfonso Ortega, J., J. Miguel Avila, Eduardo A. Gonzalez, Miguel A. Gonzalez, 2007. Grazing Intensity and Nitrogen Fertilization to Manage Invasive Kleberg Bluestem on Pangolagrass Pastures in Northern Mexico. The Texas Journal of Agriculture and Natural Resource 20:109-115 \(2007\)](#)

Summary: Available from: [http://www.tarleton.edu/Departments/txjanr/Volumes/Vol%2020%20-%202007/\(109-115\)%202007-06_Art13.pdf](http://www.tarleton.edu/Departments/txjanr/Volumes/Vol%2020%20-%202007/(109-115)%202007-06_Art13.pdf) [Accessed 3 April 2010]

[Anguilla National Trust 29th May 2007 Anguilla Invasive Species Workshop Report](#)

Summary: Available from: http://www.bu.edu/scscb/working_groups/resources/invasives-workshop-report-anguilla.pdf [Accessed 3 April 2010]

Cowie, I. D. & P. A. Werner, 1993. Alien plant species invasive in Kakadu National Park, tropical Northern Australia. Biological Conservation Volume 63, Issue 2, 1993, Pages 127-135

Summary: Available from: <http://www-naweb.iaea.org/nafa/aph/public/1-the-need-permin.pdf> [Accessed 3 April 2010]

[Greenway International, 2008. National Survey on Biological, Ecological, Socio-Economic, Political, Legal and Institutional Aspects for Mauritius. \(Western Indian Ocean Marine Protected Areas Network\) 2008 Final Report](#)

Summary: Available from: <http://www.amp-coi.org/fileadmin/files/documents/Maurice/Report-text-mauritius-GWY-WWF.pdf> [Accessed 3 April 2010]

[IUCN/SSC Invasive Species Specialist Group \(ISSG\), 2010. A Compilation of Information Sources for Conservation Managers.](#)

Summary: This compilation of information sources can be sorted on keywords for example: Baits & Lures, Non Target Species, Eradication, Monitoring, Risk Assessment, Weeds, Herbicides etc. This compilation is at present in Excel format, this will be web-enabled as a searchable database shortly. This version of the database has been developed by the IUCN SSC ISSG as part of an Overseas Territories Environmental Programme funded project XOT603 in partnership with the Cayman Islands Government - Department of Environment. The compilation is a work under progress, the ISSG will manage, maintain and enhance the database with current and newly published information, reports, journal articles etc.

Lawes, R. A. & A. C. Grice, 2010. War of the weeds: Competition hierarchies in invasive species. Austral Ecology (2010)

Summary: Available from: <http://www-naweb.iaea.org/nafa/aph/public/1-the-need-permin.pdf> [Accessed 3 April 2010]

[McNair, Douglas, B., and Amy Mackay, 2005. Population Estimates and Management of Ameiva polops \(Cope\) at Ruth Island, United States Virgin Islands. Caribbean Journal of Science, Vol. 41, No. 2, 352-357](#)

Summary: Available from: <http://bcrc.bio.umass.edu/vifishandwildlife/PeerReviewedPubs/Ameiva/RuthCayPop.pdf> [Accessed 3 April 2010]

[McNair, Douglas, B., and Claudia D. Lombard, 2004. Population Estimates, Habitat Associations, and Management of Ameiva polops \(Cope\) at Green Cay, United States Virgin Islands. Caribbean Journal of Science, Vol. 40, No. 3, 353-361, 2004](#)

Summary: Available from: http://caribjsci.org/dec04/40_353-361.pdf [Accessed 3 April 2010]

[O Connor, Rhon, 2008. Anguilla Invasive Species strategy \(2008\) draft](#)

Summary: Available from: [http://www.gov.ai/documents/Anguilla%20Invasive%20Species%20Strategy%202008%20\(2\).pdf](http://www.gov.ai/documents/Anguilla%20Invasive%20Species%20Strategy%202008%20(2).pdf) [Accessed 3 April 2010]

Global Invasive Species Database (GISD) 2024. Species profile *Bothriochloa pertusa*. Available from:

<https://www.iucngisd.org/gisd/species.php?sc=1584> [Accessed 26 April 2024]

[Pacific Islands Ecosystems at Risk \(PIER\), 2008. *Bothriochloa pertusa* \(L.\) A.Camus, Poaceae](#)

Summary: Available from: http://www.hear.org/pier/species/bothriochloa_pertusa.htm [Accessed 3 April 2010]

General information

[Burton F.J. 2007a. Vegetation Classification for the Cayman Islands. In: Burton, F.J. 2007. Threatened Plants of the Cayman Islands. Kew Publishers, London.](#)

Summary: Available from: http://www.cyclura.com/mkern/VC%20Test%20PDF/VC_Cayman_Mst-1_3.pdf [Accessed 3 April 2010]

[Burton, F. J. 2007b. Cayman Islands Government, Department of Environment, Red List Assessment of Cayman Islands Native Flora for Legislation and Conservation Planning. This project was jointly funded by the Overseas Territories Environment Programme \(OTEP\) and the Cayman Islands Government Department of Environment, 2006.](#)

Summary: Available from: <http://www.caymanbiodiversity.com/wp-content/uploads/2007/10/redlist.pdf> [Accessed 3 April 2010]

[Cornielle, Andrea Pena & Miren Onandia Olalde, 2005. Plant Diversity in Endemic Pine Forests of *Pinus occidentalis* Sw. in the Nizao Basin, Dominican Republic. Caribbean Journal of Science, Vol. 41, No. 4, 849-856, 2005](#)

Summary: Available from: http://caribjsci.org/dec05/41_849-856.pdf [Accessed 3 April 2010]

[Freid, Ethan & Michael Vincent, 2007. Additions to the Flora of Mayaguana. Bahamas Naturalist & Journal of Science February 2007 Volume 2 Issue 1](#)

Summary: Available from: http://www.bahamasmedia.com/resources/Download/BNJOS_vol2.pdf [Accessed 3 April 2010]

[Hall, T. J.; Walker, R. W., 1994. Selection of perennial grasses as a component of legume-based pastures on light-textured soils in the dry tropics of Queensland. Australian Journal of Experimental Agriculture. 34\(3\). 1994. 355-365](#)

[Jones, R. J., 1997. Steer gains, pasture yield and pasture composition on native pasture and on native pasture oversown with Indian couch \(*Bothriochloa pertusa*\) at three stocking rates. Australian Journal of Experimental Agriculture. 37\(7\). 1997. 755-765.](#)

[Lawes, Roger and Anthony Grice, 2008. Exotic invasions of the Burdekin catchment, North Queensland. Sixteenth Australian Weeds Conference](#)

Summary: Available from: <http://www.caws.org.au/awc/2008/awc200811221.pdf> [Accessed 3 April 2010]

[Lindsay, Kevel and Bruce Horwith, 1999. A Vegetation Classification of St. Kitts and Nevis: Implications for Conservation. prepared for Nevis Historical and Conservation Society St. Christopher Heritage Society funded by UNDP/GEF Small Grants Programme Bridgetown, Barbados](#)

Summary: Available from: <http://bio-diversity-nevis.org/Documents/Vegetation%20Classification%20of%20SKN.pdf> [Accessed 3 April 2010]

[McIvor, J. G.; Singh, V.; Corfield, J. P.; Jones, R. J., 1996. Seed production by native and naturalised grasses in north-east Queensland: Effects of stocking rate and season. Tropical Grasslands. 30\(2\). 1996. 262-269.](#)

[Spaggiari, J. & M. De Garine-Wichatitsky, 2006. Home range and habitat use of introduced rusa deer \(*Cervus timorensis rusa*\) in a mosaic of savannah and native sclerophyll forest of New Caledonia. New Zealand Journal of Zoology, 2006, Vol. 33: 175-183](#)

[Starr, Forest and Kim Starr, 2008. Plants of Hawaii Images Poaceae *Bothriochloa pertusa* Pitted beardgrass](#)

Summary: Available from: <http://www.hear.org/starr/plants/images/species/?q=bothriochloa+pertusa> [Accessed 3 April 2010]

[Starr, Forest; Kim Starr, and Ken Wood, 2006. Lanai Offshore Islets Botanical Survey. Prepared for: Department of Land and Natural Resources, Division of Forestry and Wildlife and Offshore Islet Restoration Committee](#)

Summary: Available from: http://hear.org/starr/publications/2006_lanai_islets_botanical_survey.pdf [Accessed 3 April 2010]

[Starr, Forest; Martz, Kim, 1999. Records of the Hawaii Biological Survey for 1999-2000 Part 2: Notes](#)

Summary: Available from: http://www.hear.org/starr/publications/2000_new_plant_records_midway-op64.pdf [Accessed 3 April 2010]

[Starr, Forest; Martz, Kim, 2000. New plant records from Midway Atoll for 1999. Bishop Museum Occasional Papers.\(64\). 15 September, 2000. 10-12.](#)

Summary: Available from: http://www.hear.org/starr/publications/botanical_survey_of_midway_text.pdf [Accessed 3 April 2010]

[Walker, B & E. J. Weston, 1990. Pasture Development in Queensland- A Success Story. Tropical Grasslands \(1990\) Volume 24, 257-268](#)

Summary: Available from:

http://www.tropicalgrasslands.asn.au/Tropical%20Grasslands%20Journal%20archive/PDFs/Vol_24_1990/Vol_24_04_90_pp257_268.pdf [Accessed 3 April 2010]

[Williams, J.K. 2010. Additions to the alien vascular flora of Mexico, with comments on the shared species of Texas, Mexico, and Belize. Phytoneuron 2010-3: 1-7. \(10 March\)](#)

Summary: Available from: <http://phytoneuron.net/PhytoN-Additionsnonnative.pdf> [Accessed 3 April 2010]